

REPORT

FINAL REPORT

**Task 92-31: Establishment of the
Porcine Isolated Perfused Skin
Flap Model as a Decision Tree
Network Screening Module for
Assessing the Efficacy of Systemic
Antivesicant Pretreatment and
Treatment Compounds**

To

U.S. Army Medical Research

and Development Command

May, 1997

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Surgical production of the isolated, perfused porcine skin flap (IPPSF) model involved resection and suturing of an area of inguinal skin to form a tubular flap. Two days after production, the flap was cannulated and perfused in an environmentally controlled chamber. The objective of this work was to establish the IPPSF technology at Battelle for examining the dermatotoxicity of topically applied sulfur mustard (HD) and for assessing candidate countermeasures.

Data obtained from an initial set of untreated flaps indicated that the technology transfer was successful. However, subsequent flaps exhibited a slow decline in metabolism regardless of treatment (untreated, ethanol, or HD in ethanol). The effects of HD in ethanol were not observed as previously reported. Flaps perfused with media made with a different bovine serum albumin exhibited some of the anticipated effects, but these changes were independent of topical flap treatment.

Battelle personnel were not able to consistently duplicate the effects of HD applied on flaps as previously reported. Flap performance appeared to be highly sensitive to variations in vascular anatomy, harvesting procedures, and perfusion media composition and pH. The results indicated that the IPPSF model was unsuitable for assessing the efficacy of candidate countermeasures against topically applied HD.

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FINAL REPORT

**Contract DAMD17-89-C-9050
A Medical Research and Evaluation Facility (MREF) and Studies
Supporting the Medical Chemical Defense Program**

on

**TASK 92-31:
ESTABLISHMENT OF THE PORCINE ISOLATED PERFUSED SKIN FLAP MODEL
AS A DECISION TREE NETWORK SCREENING MODULE
FOR ASSESSING THE EFFICACY OF SYSTEMIC ANTIVESICANT
PRETREATMENT AND TREATMENT COMPOUNDS**

to

**U.S. ARMY MEDICAL RESEARCH
AND MATERIEL COMMAND**

May, 1997

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In conducting the research described in this report the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals" prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Animal Resources, National Research Council (U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health (NIH), Publication No. 86-23, revised 1985).

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Executive Summary

The isolated, perfused porcine skin flap (IPPSF, or "flap") model was developed at the Cutaneous Pharmacology and Toxicology Center, College of Veterinary Medicine, North Carolina State University (NCSU-CPTC). The model involves surgical resection of an area of inguinal skin, and the apposition and suturing of skin margins to form a single-pedicle, tubular flap that is left attached to the pig. Two days later the flap is harvested by arterial cannulation and separation from the pig and perfused for up to 9 hr in an environmentally controlled chamber. Personnel at NCSU-CPTC designed the IPPSF model for studying the transdermal kinetics of topically applied xenobiotics. They have also used the model to study the dermatotoxicity of sulfur mustard (HD) at exempt chemical surety level concentrations (less than 10 mg/mL). The objective of Task 92-31 was to transfer the IPPSF technology to Battelle for use in examining the dermatotoxicity of HD at surety levels and for establishing a test paradigm for screening candidate prophylactic and therapeutic countermeasures.

An animal room at Battelle's Medical Research and Evaluation Facility (MREF) was remodeled as a surgery unit, and MREF personnel traveled to NCSU-CPTC to receive training on flap surgery, harvesting, and perfusion. Once procedures were established at the MREF, a perfusion technician from NCSU-CPTC visited Battelle and made several suggestions for improving the perfusion techniques. Based on the appearance of the flaps and examination of a set of physiologic data from previous healthy flaps, the technician indicated that the technology transfer appeared successful.

In a subsequent set of experiments, the metabolism of most flaps, including naive (untreated) and ethanol controls as well as those treated with HD in ethanol, exhibited a slow decline beginning approximately 2 hr after perfusion was started. The anticipated effects from treatment with HD in ethanol, i.e., increased vascular resistance, decreased metabolism, grossly observable blisters, and histologic evidence of increased incidence of epidermal-dermal separation and dark basal cells, were not observed. Consultation with NCSU-CPTC staff and inspection of Battelle standard operating procedures and methods suggested several modifications in technique, including prolonged flushing of flaps to assure removal of red blood cells (RBCs) prior to

perfusion. Subsequent flap preparation also failed to respond to HD as expected. Flaps perfused with a media made with bovine serum albumin (BSA) from a different source exhibited increased vascular resistance during the middle and end of perfusion sessions, increased incidence of epidermal-dermal separation, dark basal cells, and frank blisters, but these changes were independent of topical flap treatment.

MREF personnel were not able to consistently duplicate the dermatotoxic effects of HD applied on IPPSFs as reported by NCSU-CPTC. Results indicated that the flap appeared to be highly sensitive to individual animal variations in vascular anatomy, the extent of RBCs retained after extensive flushing, and media composition and pH. The inherent variability of the model, coupled with its relatively weak response to HD, indicated that it would be unsuitable for assessing the efficacy of candidate prophylactic and therapeutic countermeasures against topically applied HD. The IPPSF should be an excellent model, however, for estimating skin penetration by xenobiotics.

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TASK 92-31:

ESTABLISHMENT OF THE PORCINE ISOLATED PERFUSED SKIN FLAP MODEL AS A DECISION TREE NETWORK SCREENING MODULE FOR ASSESSING THE EFFICACY OF SYSTEMIC ANTIVESICANT PRETREATMENT AND TREATMENT COMPOUNDS

1.0 Introduction

Personnel from the U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) considered using the isolated, perfused porcine skin flap (IPPSF) model for studying the dermatotoxicity of sulfur mustard (HD). The IPPSF model was developed at the Cutaneous Pharmacology and Toxicology Center in the College of Veterinary Medicine at North Carolina State University (NCSU-CPTC).^{1,2} The IPPSF, or simply "flap", is produced by incising an elliptical area of ventral abdominal skin on a female weanling pig and suturing together the lateral and ventral edges to form a single-pedicle, tubular flap with circulation intact. The tissue is allowed to heal for two days, and then excised and placed into an environmentally controlled perfusion chamber. Physiological parameters, including glucose utilization, lactate production, and vascular resistance may be monitored. This technique provides a skin model with normal anatomical structure and microcirculation. Researchers at NCSU-CPTC have shown that this model produces microvesication upon exposure to hemisulfur mustard³ or sulfur mustard (HD)^{4, 5, 6, 7, 8, 9}

The objectives of this work were to transfer this technology to Battelle's Medical Research and Evaluation Facility (MREF) and to develop it for evaluating systemic prophylactic and therapeutic treatments (SP&TTs) against topical exposure to HD.

These objectives were to be accomplished over the course of four phases:

Phase I (Technology Transfer)

- attend training sessions at NCSU-CPTC and learn the surgical and perfusion techniques,
- Purchase equipment and modify a room in the MREF for this non-invasive surgery,

- Write standard operating procedures (SOPs) and methods based on documents from NCSU-CPTC, and
- Practice producing and perfusing flaps.

Phase II (Validation)

- Produce and perfuse a statistically relevant number of naive (i.e., no insult applied) flaps, and
- Compare the physiologic data with controls from NCSU-CPTC.

Phase III (Decision Tree Network Module Development)

- Develop an experimental procedure that could be used to effectively discriminate among candidate SP&TTs their ability to protect against HD-induced injury.

Phase IV (Test Material Evaluation)

- Evaluate and rank order up to seven SP&TTs.

2.0 Materials and Methods

Materials and methods employed in this study are described in MREF Protocol 97, entitled "Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision Tree Network Screening Module for Assessing the Efficacy of Systemic Antivesicant Pretreatment and Treatment Compounds"(Appendix A of this report).

2.1 Chemical Surety Materiel

HD was supplied by USAMRICD. The mean purity of HD used in this task was approximately 91.5 percent. Dilutions of HD, made in anhydrous ethanol at target concentrations of approximately 10 and 50 mg/mL, were analyzed by MREF chemists prior to use on study. At the completion of each flap dosing session, a sample of HD diluted in ethanol was dispensed from the dosing device into a 10-mL volumetric flask, and the flask filled to the quantity sufficient line with ethanol. After the volumetric flask was capped and the contents mixed by inverting the flask

several times, samples were aliquoted into glass vials for analysis by gas chromatography. The analyses, expressed as a percent of the expected concentrations, are presented as a dose control chart with 95 percent upper and lower limits in Figure 1 (Appendix B). The mean of all HD dose samples was 95 percent of expected concentrations.

Methods for the surgical production and harvesting of the IPPSF, and for set up, preparation, maintenance and cleaning of the IPPSF perfusion chamber, are described in MREF SOPs and methods listed in Table 1 (Appendix C). These were written based on documents obtained from NCSU-CPTC and the training received there. Typically, two flaps were raised and harvested from each pig. Each flap was cannulated and placed in an environmentally-controlled perfusion chamber within a fume hood.

2.2 Test Animals

Female, weanling specific pathogen free (SPF) Yorkshire swine (18 to 32 kg) were obtained from two local suppliers. The first 27 swine used in the task were obtained from Shady Side Farms (Powell, OH). The remainder, 43 swine, were obtained from Isler Genetics (Prospect, OH). The herds of both suppliers were certified by the National SPF Swine Accrediting Agency (Conrad, IA) to be free of pneumonic lesions, brucellosis, swine dysentery, turbinate atrophy, pseudorabies, lice, and mange. The changing of supplier was to determine whether the source of the weanling swine and the inherent differences, including genetics and environmental factors such as time spent out-of-doors, had a significant impact on flap physiology.

Housing at the MREF consisted of raised nursery decks (Palco, Belle Plaine, IA). Each shipment of swine was held in isolation and observed for clinical illness for at least 7 days prior to study initiation. Each pig was given either Purina or another veterinarian-approved swine feed at a daily rate of 2 to 3 percent of its body weight. Tap water was provided *ad libitum* in the holding pens. Each pig was anesthetized and taken to a surgery suite for IPPSF production, and two days later for IPPSF harvesting. Heart rate, respiratory rate, and body temperature were monitored during these procedures. After each surgery following recovery from anesthesia, the pig was returned to its cage.

2.3 IPPSF Production

Each pig was transported into the surgical preparation area and premedicated intramuscularly (i.m.) with atropine sulfate (1.5 mg/kg) followed by an i.m. injection of xylazine (4.4 mg/kg) and telazol (2.2 mg/kg). The pig was intubated, and anesthesia was maintained with halothane. An intravenous catheter was installed in a marginal ear vein to provide lactated Ringer's solution at approximately 120 mL/hr. The pig was prepared for aseptic surgery in the caudal abdominal and inguinal regions using Betadine, isopropanol, and sterile water. Flaps were raised bilaterally and simultaneously. For each flap, a sterile marking pen was used to place reference marks on the skin in the caudolateral flank region. Skin incisions were made around the caudal superficial epigastric artery within an approximately 4- by 12-cm rectangle. Larger superficial vessels were ligated and cut, and minor vessels were cauterized. Subcutaneous tissue was dissected away from the skin. Dissection continued until the only tissue connecting the flap to the donor was the caudal superficial epigastric artery, paired venae comitantes, and immediate connective tissue. Starting at the caudal end, the lateral and ventral sides of the flap were apposed and sutured together. Fat was trimmed away from the flap edges, if necessary. In the remaining wound, three tissue layers were separately apposed and sutured together in sequence: deep subcutaneous tissues, superficial subcutaneous tissues, and skin incision edges. A skin sample was collected from the left wound site lateral to the flap and placed into 10 percent neutral buffered formalin solution (NBFS). This skin sample was processed for examination by light microscopy and served as a general histology control for that animal. The flap was sutured to the cranial end of the wound to immobilize it and the wound site and flap were bandaged. The pig was allowed to recover from anesthesia and returned to its pen.

2.4 IPPSF Harvesting

Two days after flap production, the pig was anesthetized as before (but without atropine and without installation of an intravenous catheter). A 3-mL volume of 1,000 U.S.P. units/mL of heparin was administered in a marginal ear vein. Care was taken during site cleaning to ensure

that scrub solution did not contact the flaps. The left flap was harvested, followed by the right flap. Sutures were removed from the base of a flap, and the flap lifted slightly away from the donor surface with vessels intact. The superficial epigastric artery was cannulated with polyethylene tubing (I.D. 0.58 mm, O.D. 0.97 mm). Other connecting tissues were severed, and the flap perfused with heparinized normal saline warmed to approximately 37 C. The wound was intentionally not closed because previous experience had shown that not closing improved overall healing and decreased the incidence of abscess formation. The pig was allowed to recover from anesthesia and returned to its pen.

2.5 Perfusion Chamber Features

An acrylic chamber (USA/Scientific Plastics, Ocala, FL) similar to, but shorter than, the model used at NCSU-CPTC was designed. The MREF model was approximately 53 cm wide, 33 cm deep, and 29 cm tall as illustrated with equipment in Figure 2 (Appendix B). Internal parts could be accessed by any of three routes:

- To allow chamber cleaning, the entire front panel could be removed by loosening three thumbs screws at the top and sliding out the removable hinge pins at the bottom;
- The front panel included a sliding door that allowed manual adjustments without causing significant changes in chamber temperature and humidity;
- The top of the chamber included a removable access panel for dosing the flap.

The perfusion chamber was elevated for in-hood use on 10-cm tall legs to allow air flow. Environmental conditions were controlled at approximately 37 C and 40 percent relative humidity with a custom-built temperature/humidity control unit (Al Love & Associates, Raleigh, NC). Heated, humidified air entered the chamber through a hose at the lower front corner of the right-side panel, exited through a hole in the upper left corner of the back panel, and was cycled back to the control unit via a return hose. Temperature and relative humidity were monitored with a

probe mounted on the back panel and wired to a model HI 8564 Thermo-Hygrometer (Hanna Instruments, Woonsocket, RI).

2.6 Nutrient Media Flow in the Perfusion Chamber

The flow of nutrient perfusion media (Table 2) to the flap was powered by a peristaltic pump (Manostat, New York, NY). Two acrylic reservoirs in the chamber and all tubing and connectors were filled with perfusion media. The venous reservoir, on the left, was periodically filled from outside the chamber through a piece of Tygon® tubing, 0.397-cm OD, 0.238-cm ID. Tygon tubing connected the venous reservoir to an approximately 150-cm length of 0.24-cm OD, 0.16-cm ID silicon tubing housed in an oxygenation chamber. Thin-walled silicon tubing was used by NCSU-CPTC scientists to allow penetration of oxygen and carbon dioxide which were supplied to the media at approximately two bubbles per second from a tank containing 95 percent oxygen and 5 percent carbon dioxide.

Tygon tubing connected the efferent side of the oxygenation chamber to an arterial reservoir. The arterial reservoir was mounted over a stirring plate and contained a stir bar and a pH/thermistor probe wired to an Accumet model 955 portable pH/mV temperature meter (Fisher Scientific Co., Pittsburgh, PA) mounted on the chamber. Seals around the ports prevented air from entering the arterial reservoir since the pump produced a negative pressure in the reservoir.

Tygon tubing carried the media from the arterial reservoir through the right chamber panel past a media sampling port to the pump. A section of silicon tubing (0.24 cm ID, 0.40 cm OD) was used in the pump. Tygon tubing carried the media back through the right chamber panel to three probes in series:

- An in-line flow probe that was wired to a base unit (Transonic Systems Inc., Ithaca, NY),
- A pressure transducer wired to a Propaq model 106EL patient monitor unit, (Protocol Systems, Inc., Beaverton, OR), and
- A thermistor housed in a Teflon coupler and wired to the Propaq unit.

A final section of Tygon tubing carried the media to a three-way stopcock with Luer fittings. The flap cradle on a support stand was placed under the top access panel near the stopcock. When the flap was mounted in the cradle, the stopcock was fitted into the needle attached to the cannulation tubing. Media entered the flap through the superficial epigastric artery which normally perfused all but the extreme tip of the flap tissue, and exited the flap via venules draining from the proximal end of the flap. The used media collected in a rectangular pool machined into the lower end of the cradle near the proximal end of the flap. At approximately 1-min intervals, the accumulated used media drained through a port in the bottom of the pool. A section of Tygon tubing carried the media through the left chamber panel, past a stopcock, and into a receptacle waste bottle.

2.7 Calibrations and Perfusion Chamber Preparations

Periodically between experiments, the Propaq pressure instrument was calibrated against a column of water. Before each experiment, the pH meter was calibrated with pH 4.00 and pH 10.00 standards. The arterial reservoir cap, with the pH probe seated through it, was attached to the reservoir to form a sealed vessel. Quick disconnect fittings (Colder Products Co., St. Paul, MN) on the ends of tubing sections, and at reservoirs and the oxygenation chamber allowed for tubing disconnection without loss of media. All sections of tubing were connected in series independent of the reservoirs, and filled by aspirating media from a filling beaker with a 30-cc syringe. The tubing sections then were connected to the reservoirs and the oxygenation chamber. The pressure and flow meters were zeroed. A section of Tygon tubing was temporarily attached to the distal stopcock, and the free end was placed into a 10-mL graduated cylinder. The pump was powered on, and the flow meter was checked with volume per unit time. The pump was adjusted to deliver, and the flow meter was calibrated to read, 1.0 mL/min. After calibration, the pump was powered off, and the free end of the tubing was attached to the venous reservoir, thus completing a media circuit. The pump was powered on, and media circulated through the system until the flap arrived from surgery, typically approximately 10 min later.

The height of the flap cradle stand was adjusted so there was no change in elevation from the pressure transducer to the point of media entry into the flap. Thus, the pressure at the transducer and flap was the same. Due to the peristaltic action of the pump, the pressure in the system oscillated with a period of approximately 0.8 sec with normally approximately 10 mm Hg between the extremes. The Transonic base unit displayed both the real-time pressure and the integrated mean pressure calculated every 5 sec.

Media assays for glucose and lactate concentration were performed simultaneously in a model 2700 SELECT Biochemistry Analyzer (Yellow Springs Inc., Yellow Springs, OH) with dual ion selective membranes. The instrument was maintained and calibrated with standard solutions daily.

The media in the arterial reservoir was maintained at a target pH of 7.35 by periodic adjustments with 1 N hydrochloric acid or 1 N sodium hydroxide solutions injected with a syringe through a stopcock and a section of Tygon tubing connected to the arterial reservoir. Adjustments were usually made when the media pH exceeded 7.4, as the constant stirring of media in the arterial reservoir presumably caused a degassing of carbon dioxide, thus increasing the pH.

2.8 Preparation of the IPPSF for Perfusion

After a flap was cannulated and excised from a pig, it was flushed with heparinized normal saline, weighed, flushed again, and placed on a cradle in a perfusion chamber. The pump was powered off, and the temporary tubing between the stopcock and venous reservoir was removed. The cannulation needle hub was attached to the stopcock, and the pump was powered on. The flap was given an acclimation period of nominally 1 hr. If the pressure meter indicated a pressure greater than 50 mm Hg, the flap was adjusted to minimize any internal constriction of the cannulated artery. Usually a slight pulling of the flap away from the tubing put slight tension on the interior vessels and straightened any crimps. The pressure usually decreased as the flap warmed to chamber temperature. If the baseline pressure was greater than 50 mm Hg at the end

of the 1-hr acclimation period, the flap was not used. This was the same criterion for flap rejection used by personnel at NCSU-CPTC.

A dosing template was constructed of two layers of Stomahesive® (ConvaTec, Princeton, NJ) cut in rectangles with 6-cm x 2.5-cm outside edges, 5-cm x 1.5-cm inside edges, and a 0.5-cm wide perimeter. The template was adhered to the dorsal surface of the flap with Skin-Bond® (Smith & Nephew, United, Inc., Largo, FL). Initially, the template was adhered to the flap just before placing it in the chamber, but this step was later delayed until 1 hr after perfusion was started, or immediately before dosing.

2.9 Administration of Dose

Flaps either were not treated or received a 300- μ L dose of either ethanol or HD (approximately 10 or 50 mg/mL) in ethanol. The amount of HD thus administered was either 3 or 15 mg. The dose was administered, from a glass syringe fitted with a blunt-tipped needle, along the axis of the flap from one end of the dosing template to the other.

2.10 Physiologic Parameters Monitored and Recorded

Several times were recorded, i.e., flap harvest time, perfusion start time, and dose application time. Physiologic parameters were recorded at either the first or second quarter-hour after perfusion was started, in 15-min intervals for the next hour, and in 30-min intervals for the next 8 hr. The total perfusion period was approximately 9 hr. At each recording the following procedures were followed.

1. At 1 min before the observation time, the stopcock next to the media waste receptacle was turned to stop the flow of used media from the flap.
2. An approximately 1-mL sample of media was collected from the sampling port between the arterial reservoir and the pump.

3. The following parameters were recorded:
 - a. Observation time,
 - b. Chamber air temperature and relative humidity,
 - c. Aterial reservoir media pH,
 - d. System pressure extremes over a 5-sec interval, and the integrated mean displayed on the Propaq unit,
 - e. Media temperature at the in-line thermistor between the flap and the pressure transducer, displayed by the Propaq unit, and
 - f. Media flow, displayed by the flow base unit.
4. A 1-mL syringe was inserted into the stopcock next to the media waste receptacle, the stopcock was turned, an approximately 1-mL sample of used media was collected, and the stopcock turned back to its original, free-flow position,
5. The media samples were dispensed into labeled serum vials and stored for 30 min on a weigh boat in the hood. This period ensured hydrolysis of any HD that might have penetrated the skin or leaked through the dosing template seal and into the used media,
6. Media samples were removed from the hood at approximately 30 min after collection and analyzed for glucose and lactate concentration simultaneously. Results were printed on thermal paper and recorded in a spreadsheet with other physiologic data.

Environmental parameters (chamber temperature and humidity, and media pH and temperature) were monitored throughout each experiment to ensure optimal conditions for maintaining a healthy flap.

2.11 Study Termination and Tissue Collection

The pump was powered off at approximately 9 hr after the first observation time, and the volume of media in the waste receptacle measured in a graduated cylinder. If dosed with HD, the flap was decontaminated with 0.5 percent sodium hydroxide solution and then rinsed with distilled water dispensed from squeeze bottles. The cannulation needle hub was detached from the stopcock, the dosing template removed, and the flap weighed in a tared container. The flap was transected in the middle, and an approximately 2-mm thick section was cut from the middle of each half. The resulting flap disc was trimmed of underlying tissue and non-treatment area to leave only a section of skin that had been within the dosing template. The samples were placed into labeled vials containing 10 percent NBFS. Flap samples and skin samples collected during production of the flaps were paraffin embedded, sectioned at approximately 5 μ m, mounted on glass slides, and stained with hematoxylin and eosin. The slides were shipped to Dr. Nancy Monteiro-Riviere at NCSU-CPTC for histopathologic examination. Dr. Monteiro-Riviere's reports identified some procedural shortfalls, such as insufficient flushing immediately after flap cannulation and excision as evidenced by red blood cells (RBCs) in sections.

2.12 Statistical Analyses

Data were recorded in a notebook spreadsheet program (Quattro Pro 6.0, Novell, Inc). Experiment information (dates, surgeons, flap treatment, etc.) was recorded in a separate spreadsheet and merged with the physiologic parameters data using the Statistical Analysis System (SAS Institute, Cary, NC).

2.12.1 Computations

Flow rates recorded at each observation period were corrected with the following factor determined for each flap:

$$\frac{V_w + 21 \text{ mL}}{V_{\text{wait}} + 540 \text{ mL}}$$

where

- V_w was the volume in the waste receptacle,
- 21 mL was the volume of the used media samples removed for glucose and lactate concentration assays,
- V_{wait} was the volume of media perfused into the flap during the period between initiation of perfusion and the first quarter-hour on the clock, and
- 540 mL was the volume expected to be perfused at 1 mL/min for 9 hr.

Vascular resistance, VR (mm Hg•min/mL), was calculated at each observation time as the ratio of in-line mean pressure to the corrected flow. Baseline-normalized VR at a given time after dosing (no units) was calculated as VR at that time divided by VR immediately before dosing commenced.

Glucose utilization (GU, mg glucose/hr/g flap tissue), a general index of flap health normalized to the mass of the flap, was calculated as

$$GU = \frac{(G_a - G_u)F(60 \text{ min/hr})(1000 \text{ mg/g})}{W_f(1000 \text{ mL/L})}$$

where

- G_a and G_u were glucose concentrations (g/L) in the arterial media sample and the used media sample, respectively,
- F was the corrected mean media flow rate (mL/min), and
- W_f was the initial (i.e., before perfusion) weight (g) of the flap.

The units of lactate produced per unit glucose consumed (no units) was an estimate of the anaerobic metabolism in the flap and was calculated as

$$M_{An} = \frac{L_u - L_a}{G_a - G_u}$$

where L and G were lactate and glucose concentrations (g/L), respectively, and the subscripts represented arterial and used media, respectively. The proximity of this variable to unity was used to evaluate flap health during the experiment.

Cumulative glucose utilization (CGU, mg glucose/g flap tissue), an index of the overall health of the flap at the end of an experiment, was the integral of GU over time using the trapezoidal rule:

$$CGU = \sum_{i=1}^n GU_i(t_i - t_{i-1})$$

where

- GU_i was the glucose utilization over intervals i from 1 to n (typically $n = 21$), and t_{i-1} and t_i were the interval beginning and end, respectively (hr).

2.12.2 Plots

Three flap data sets were compiled and plotted by treatment group for four physiologic endpoints. The plots, included in Appendix B, present the data for four endpoints as means plus or minus two standard error of the means as functions of time relative to dosing. Thus, the time that perfusion was started was approximately $t = -1$ hr, and dose time was approximately $t = 0$ hr. In Figures 3 through 14, the values on the time axis are slightly offset for each treatment group to avoid overlap of standard error bars. Treatment groups are identified as “No Topical” for untreated flaps, “EtOH” for flaps dosed with 300 μ L of ethanol, “3 mg HD” for flaps dosed with 300 μ L of 10 mg/mL HD in ethanol, and “15 mg HD” for flaps dosed with 300 μ L of 50 mg/mL

HD in ethanol. In the figures that include data prior to dosing (Figures 3, 5, 7, 9, 11, and 13), data at 15 and 45 min prior to dosing are omitted to improve clarity of the plots.

2.12.3 Statistical Contrasts

Statistical contrasts were conducted with a two-way analysis of variance model at 0, 1, 2, 4, and 8 hr after dosing to test for the effects of topical applications (untreated, ethanol, 3 mg HD, and 15 mg HD) on each of four physiologic parameters. The incidence of histologic lesions were tabulated by treatment group and contrasted using Fisher's Exact Test. All tests were conducted at the 5 percent significance level.

3.0 Results

Room 9 of the MREF was halved with a dividing wall and double-action doors to separate the outer, surgical preparation area from the inner, surgical area. Both areas were coated with two layers of white epoxy paint. The preparation area was fitted with a scrub sink with knee-activated valves and a supply cabinet. The surgical area was fitted with a v-top operating table, small-animal gas anesthesia machine vented into an exhaust manifold, a portable surgery light, stools, instrument stands, electrocautery instrument, and scrub equipment. Surgical supplies were obtained to match as closely as possible that used during training at NCSU-CPTC. Surgical techniques were refined to emulate as closely as possible those practiced at NCSU-CPTC.

3.1 Phase I: Technology Transfer

Five MREF personnel traveled to NCSU-CPTC and received training in flap surgery and perfusion during the week of May 8, 1994. Although the facilities at the MREF were not complete at that time, the training received facilitated the ordering of equipment and the design of the perfusion chambers. Four technicians attended a second training session at NCSU-CPTC during the week of January 22, 1996.

A list of flaps and the treatment each received is presented in Table 3 (Appendix C). The first flap, numbered 2501 for continuity with NCSU-CPTC accounting, was raised at the MREF on January 30, 1995 and harvested February 1, 1995. Practice flaps were raised, harvested, and either not treated or dosed with 300 μ L of ethanol. Mr. Jim Brooks, a perfusion technician at NCSU-CPTC, visited the MREF during the week of March 13, 1995 to observe and make suggestions on the surgery and perfusion procedures, and to examine the data obtained. Eight of the latest 10 flaps raised at the MREF were judged by Mr. Brooks as acceptable. His assessment concluded that the technology was successfully transferred, and Phase I was completed.

3.2 Phase II: Validation

Phase II commenced with the dosing of flaps 2523 and 2524 with HD in ethanol on March 22, 1995 and continued through flaps 2553 and 2554 on May 11, 1995. At the end of this set of experiments, all data and histology specimens were sent to NCSU-CPTC for analysis. The NCSU-CPTC report recommended several procedural changes be instituted at Battelle. The data are presented here in sets relative to implementation of those changes.

3.2.1 Flaps (2501 - 2554) Produced Prior to the NCSU-CPTC Report

There were no apparent effects, in terms of either VR or baseline-normalized VR (Figures 3 and 4, respectively, and Table 4), among flaps treated with ethanol, flaps treated with 3 mg of HD in ethanol, and flaps treated with 15 mg of HD in ethanol. In all treatment groups, mean VR ranged from approximately 45 to 52 mm Hg $\cdot$ min/mL at $t = 0$ hr (i.e., immediately before dosing commenced at approximately 1 hr after the start of perfusion), increased to a range of approximately 51 to 59 mm Hg $\cdot$ min/mL by $t = 4$ hr, and ranged from approximately 46 to 57 mm Hg $\cdot$ min/mL by the end of the experiment (Figure 3). The slight increase in VR between $t = 1$ hr and $t = 4$ hr was more visually apparent in the baseline-normalized VR plot (Figure 4). In all dosed groups, GU increased for the first approximately 1.5 hr after perfusion was started (Figure 5). The flaps dosed with 15 mg of HD peaked at approximately 0.65 mg/hr/g; all other

groups peaked between approximately 0.9 and 1.0 mg/hr/g. HD significantly ($p < 0.05$) decreased GU over the course of the experiment for some flaps dosed with 15 mg of HD relative to the ethanol controls, but the GU levels for this treatment group were depressed even before dosing. Beginning at approximately $t = 2$ hr, flaps generally exhibited a steady decrease in metabolic function, independent of treatment, to mean GU levels between approximately 0.24 and 0.41 mg/hr/g. The effect of a 15 mg dose of HD was more visually apparent in the CGU plot (Figure 6) and statistically significant, but again, the pre-dose health status of these flaps may have confounded treatment effects. No HD-associated blisters were observed on the flaps at the end of the experiments.

These results were inconsistent with those previously published by NCSU-CPTC, which reported that topical application of HD stimulated an increase in flap VR by a factor of approximately 2.5 to 3.0 relative to ethanol controls¹⁰. Plotted data in the paper indicate that ethanol control flaps exhibit a steady metabolism for up to 8 hr after dosing, and that 3 mg HD-dosed flaps exhibit a sustained lower GU than ethanol controls. NCSU-CPTC observed a dose-response relationship between the concentration of HD applied, in the range of 1.25 to 10 mg/mL, and the incidence of frank blisters on flaps (verbal communications with Dr. Monteiro-Riviere).

On May 17, 1995, the entire MREF data set and histologic specimens were sent to NCSU-CPTC for evaluation. Work on Task 92-31 was suspended pending review of the results by NCSU-CPTC personnel. A paper (Appendix D), entitled "Report on Phase I and Phase II of Battelle IPPSF Perfusion", was submitted to Battelle by NCSU-CPTC on August 4, 1995. Based on Mr. Brooks' visit and histologic evidence of residual RBCs after the flaps were flushed, NCSU-CPTC personnel selected for analysis 22 of the 54 flap experiments performed at the MREF. Of the 22 flaps selected, five were untreated, eight were dosed with ethanol, four were dosed with 3 mg of HD, and five were dosed with 15 mg of HD. The paper reported that:

- The coefficients of variation associated with physiologic parameters from MREF experiments were larger than those of the NCSU-CPTC counterparts, and
- The metabolic rate in MREF flaps began to decline between 3 and 4 hr after dosing as opposed to metabolic homeostasis in flaps prepared at NCSU-CPTC.

The report recommended that Battelle:

- Minimize the number of surgeons being trained to raise and harvest the flaps, thus reducing variability and time in surgery,
- Increase the volume of heparinized normal saline used to flush the flaps,
- Check the media for correct osmolality,
- Investigate means of ensuring proper perfusate flow rates, and
- Wait to attach the dosing template until after the 1-hr acclimation period.

Changes were implemented in the MREF procedures to accommodate these recommendations. There was also some speculation that the strain of swine may have had some bearing on the quality of flaps produced. All subsequent swine were obtained from Isler Genetics.

3.2.2 Flaps (2555 - 2598) Produced After the NCSU-CPTC Report

The focus of the next session of flap production and testing, from August 25 to November 25, 1996, was to:

- Obtain healthy flaps by ensuring consistent surgical techniques, and flushing the harvested flaps until the exudate became clear (i.e., free of RBCs), and then
- Perform experiments that compared the effects of ethanol versus HD in ethanol (3 mg) applied topically to flaps.

Results of this set of experiments, involving 38 successful flaps out of 44 attempts, are summarized in Figures 7 through 10 and in Table 5. There were no significant HD-related effects observed in this set of flaps. Mean VR ranged from approximately 39 to 47 mm Hg•min/mL at $t = 0$ hr and increased only slightly, to between 43 and 51 mm Hg•min/mL, at $t > 4$ hr. There were no treatment-related differences in VR among the groups at any time in the experiments. Figure 8 shows that flaps dosed with 3 mg of HD exhibited a rapid, approximately 30 percent increase in baseline-normalized VR over $2 \text{ hr} < t < 4.5 \text{ hr}$; nevertheless, GU plots (Figure 9) indicated mean control levels at $t = 0$ hr between 0.57 and 0.70 mg/hr/g, similar to the level for flaps dosed with 15 mg of HD in the initial set of flaps analyzed. Mean GU for all groups was stable for approximately 2 hr after dosing and then declined to a range from 0.35 to 0.40 mg/hr/g at the end of the experiment. Baseline-normalized VR and GU were significantly ($p < 0.05$) depressed in

ethanol-treated flaps relative to untreated flaps. CGU plots confirmed that there were no significant differences among the treatment groups in terms of metabolic function.

3.2.3 Experiments Performed with Media Made with a Different Bovine Serum Albumin, Flaps 2599 - 2640

Further discussion with NCSU-CPTC personnel disclosed that they had stopped obtaining bovine serum albumin (BSA) from Sigma Chemical Co. The source of BSA was now Mallinckrodt Chemical, Inc. (Paris, KY). A third set of experiments, including flaps 2599 through 2640, was performed from November 19, 1995 to March 7, 1996. This was a final attempt to validate the MREF flap production procedures by evaluating the effects of HD on the model. Flaps were either left untreated or dosed with either ethanol or 3 mg of HD in ethanol.

The results of this work are summarized in Figures 11 through 14 and in Table 6. In all treatment groups, mean VR was between approximately 37 and 43 mm Hg•min/mL at $t = 0$ hr and increased to a range of approximately 55 to 65 mm Hg•min/mL at $t > 6$ hr (Figure 11). When normalized to baseline levels (Figure 12), VR for this set of flaps increased by a range of 40 to 80 percent over the course of the experiment, but there was no apparent effect on flap vasculature associated with dosing either ethanol or HD in ethanol. The general increase in VR was likely due to using Mallinckrodt BSA in the media, as flaps in the second set of experiments, i.e., those perfused with media made with Sigma BSA, exhibited increases in mean VR of no more than 30 percent over baseline values.

Treatment group mean GU ranged from approximately 0.66 to 0.84 mg/hr/g at $t = 0$ hr, and remained stable until $t = 2$ hr (Figure 13). Thereafter, metabolism started declining until approximately $t = 7$ hr, when it leveled off between 0.45 and 0.55 mg/hr/g. The flaps dosed with 3 mg of HD appeared metabolically stimulated for approximately 1.5 hr after dosing, ($p < 0.05$ relative to ethanol controls) in contrast to what was observed in the first set of flaps dosed with 15 mg of HD. CGU failed to discriminate among the treatments, as mean CGU levels were within approximately 0.5 mg/g of each other throughout the experiment, and end-of-experiment group mean CGU levels ranged from approximately 4.4 to 4.9 mg/g.

3.2.4 Histopathology

The effect of BSA source was also compared by examining histologic lesion incidence rates. Table 7 presents lesion incidence rates for normal pig skin samples collected during flap raising, untreated flaps, and flaps dosed with either ethanol or 3 mg of HD, tabulated by BSA source. Table 8 presents the same data as incidence ratios, with Fisher's Exact Test results for selected intergroup comparisons.

No lesions were observed in any normal pig skin samples. Epidermal-dermal separation was observed in 80 and 58 percent of the untreated Sigma and Mallinckrodt BSA flaps, respectively. Surprisingly, this endpoint for dermatotoxicity was reduced when either ethanol or HD in ethanol was applied to Sigma BSA flaps (29 percent), but remained relatively unchanged for Mallinckrodt BSA flaps (61 and 71 percent), respectively. The difference between untreated and ethanol treated flaps bordered on being statistically significant ($p = 0.058$) for flaps perfused with the Sigma BSA media, but not with media containing the Mallinckrodt BSA ($p = 1.000$). Also, there was no effect of including HD in the ethanol for this parameter with either BSA source ($p = 1.000$).

No flap treatment or BSA source-related effects were apparent for either intra- or intercellular edema ($p = 1.000$). However, the incidence of dark basal cells, another index of HD toxicity, was higher in ethanol-treated Mallinckrodt flaps (33 percent) than untreated controls (8 percent, $p = 0.193$) and increased to 50 percent with HD treatment ($p = 0.664$, relative to ethanol controls). There were apparently no similar treatment effects in the Sigma BSA flaps. None of the differences associated with flap treatment were considered statistically significant for either edema or dark basal cell incidence rates.

3.2.5 Gross Lesions

The incidence of frank blisters by flap set and treatment group is presented in Table 9. Frank blisters were not observed on any of the flaps in the first set, i.e., flaps harvested from Shady Side Farms swine and perfused with media made with Sigma BSA. In the second set of

flaps (Isler Genetics swine, Sigma BSA in the media), no blisters were observed on either untreated flaps or flaps dosed with 3 mg of HD in ethanol, but in the ethanol control group, 2 of 12 flaps exhibited blisters. In the third set of flaps (Isler Genetics swine, Mallinckrodt BSA in the media), blisters were observed in approximately one-third of the flaps regardless of treatment. NCSU-CPTC personnel indicated that the increased rate of blister formation was likely due to the general increase in VR associated with using media made with Mallinckrodt BSA. Fisher's Exact Tests for the effect of BSA indicated significant ($p < 0.05$) increases in blister rates among untreated flaps and HD-treated flaps perfused with Mallinckrodt BSA media, but not for ethanol-treated flaps. None of the Fisher's Exact Test results for topical treatment effects was statistically significant ($p > 0.05$). The data were presented to USAMRICD personnel at the semi-annual technical review in April 1996, and the decision was made to stop flap production.

3.3 Phase III, Decision Tree Network Module Development

The third phase of this task was not initiated due to the absence of HD treatment-related effects in the earlier phases.

3.4 Phase IV, Test Material Evaluation

The fourth phase of this task was not initiated due to the absence of HD treatment-related effects in the earlier phases.

4.0 Conclusions

The IPPSF laboratory established at NCSU-CPTC was duplicated at the MREF as closely as possible, with slight modifications in the design of the perfusion chamber to accommodate dosing CSM in a fume hood, and modernization of equipment used to monitor experimental parameters. Duplication of methods and SOPs, two training sessions of Battelle personnel at

NCSU-CPTC, and a visit to Battelle by a perfusion technician from NCSU-CPTC were essential parts of the transfer of techniques for raising, harvesting, and perfusing flaps.

Battelle completed Phase I (Technology Transfer) with the production of 22 flaps that were deemed acceptable by NCSU-CPTC personnel. Variability in Battelle data was somewhat higher than that in similar data from NCSU-CPTC, and flaps obtained at the MREF generally exhibited a gradual decline in metabolism not seen in NCSU-CPTC flaps. There were no conclusive treatment-related effects observed in flaps, either in terms of VR, GU, CGU, or the incidence of histologic or grossly observable lesions.

Subsequent to finding a different source of SPF swine and implementing several minor modifications in technique recommended by NCSU-CPTC, Battelle produced 43 flaps and either left them untreated or dosed them with either ethanol or 3 mg of HD in ethanol. Again, there were no HD-related effect observed in this set of flaps. Ethanol appeared to depress baseline-normalized VR and GU relative to no treatment, and seemed to have a more profound effect on the flaps than did HD. The persistent, gradual decline in flap metabolism stimulated a closer investigation of the perfusion media.

A final set of 42 flaps was produced and perfused with media made with the new source of BSA. Treatment groups were the same as in the second set of flaps, i.e., flaps either remained untreated or were dosed with either ethanol or 3 mg of HD in ethanol. Increases in three endpoints were observed relative to previous flaps: VR at $t > 2$ hr after dosing was increased, and the incidence of epidermal-dermal separation and the incidence of frank blisters increased. These changes occurred across all groups, however, without any association with application of either ethanol or HD. HD appeared to temporarily stimulate flap metabolism relative to ethanol controls. There was a weak association ($p = 0.058$) of an increase in the incidence of dark basal cells with application of ethanol in this final set of flaps.

Attempts to refine the techniques, including

- Limiting the number of surgeons for training and flap production in order to reduce both stress on the anesthetized swine and variability among flaps,
- Increasing the volume of media used to flush RBCs from the harvested flap,
- Checking each batch of perfusion media with a micro/osmometer, and

- Using a different supplier of swine,

had no effect on the physiologic responses of flaps to HD application. Under conditions at Battelle, the IPPSF model was not as dynamic in its response to HD as that reported by NCSU-CPTC.

The IPPSF model was transferred to Battelle, but an experimental paradigm for testing the dermatotoxic effects of HD applied topically could not be developed. NCSU-CPTC has published papers demonstrating flap homeostasis for up to 9 hr after initiating perfusion, and they have used this model primarily to measure transdermal penetration of xenobiotics. The IPPSF may be much better utilized in such experiments measuring or comparing skin penetration by xenobiotics.

5.0 Record Archives

Records pertaining to the conduct of Task 92-31 are contained in Battelle laboratory three-ring binders and record books and are archived at the MREF. All original data will be maintained at Battelle or forwarded to the U.S. Army following acceptance of the final report.

6.0 Acknowledgments

The name, role in the study, and highest academic degree of each of the principal contributors in this study are:

John B. Johnson	MREF Manager	D.V.M., M.S.
Thomas H. Snider	Study Director	B.S.
Pamela H. Kinney	Lead Technician	A.S.

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APPENDIX A
MREF Protocol 97

Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision
Tree Network Screening Module for Assessing the Efficacy of Systemic
Antivesicant Pretreatment and Treatment Compounds

Study Performed by Battelle Memorial Institute
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4. Sponsor: U.S. Army Medical Research and Development Command (USAMRDC)
5. Sponsor Monitor: LTC Don W. Korte, Jr., Ph.D., U.S. Army Medical Research Institute of Chemical Defense (USAMRICD)
6. Background: Researchers at North Carolina State University (NCSU), under contract with USAMRDC, have developed an isolated perfused porcine skin flap (IPPSF) model for studying vesicant injury¹. The IPPSF is produced by resecting an elliptical area of ventral abdominal skin on a female weanling swine and suturing together the lateral and distal edges to form a single-pedicle, tubular flap with circulation intact. The injured tissue is allowed to heal for two days, and the flap is excised and placed into a perfusion chamber. This technique provides an *ex vivo* skin model with normal anatomical structure and microcirculation which produces microvesication upon exposure to sulfur mustard (HD). This task will transfer this technology to the MREF and further develop it as an advanced screening module within a Decision Tree Network (DTN) for evaluating systemic prophylactic and therapeutic treatments (SP&TTs) against topical exposures to HD.

¹ Riviere, J.E. and Monteiro-Riviere, N.A. (1991) The isolated perfused porcine skin flap as an *in vitro* model for percutaneous absorption and cutaneous toxicology. Crit. Rev. Toxicol. 21:329-44.

7. Objectives: After successful transfer of technology from NCSU to MREF (Phase I), the development of the IPPSF into a screening module will be accomplished in three subsequent phases with these specific objectives:
- A. Phase II - perform a set of routine experiments with 30 IPPSFs (15 swine) at the MREF that produces results statistically equivalent to previous results obtained at NCSU;
 - B. Phase III - use 30 IPPSFs (15 swine) to develop an experimental procedure that can be used to effectively discriminate among candidate SP&TTs in their ability to protect against HD-induced injury; and
 - C. Phase IV - evaluate and rank order up to seven SP&TTs, to be determined by USAMRICD, with 20 IPPSFs each (using a total of 70 swine in this phase).
8. Experimental Design: Methods for the surgical production and harvesting of the IPPSF, and for set up, preparation, maintenance and cleaning of the IPPSF perfusion chamber, are detailed in MREF SOPs. This protocol includes procedures for administration of a SP&TT, topical exposure of IPPSFs to HD, and for quantifying the irritation response with these and other possible endpoints:
- dextrose utilization and lactate production,
 - vascular resistance,
 - gross vesication, and
 - histologic evidence of microvesicles.

A dilute solution of HD on a vehicle solvent (nominally ethanol) is applied to the IPPSF to produce a diffuse, moderate irritation response. The focal, severe irritation produced by applying a droplet of neat HD to the IPPSF would likely be less responsive to therapeutic measures. Thus, candidate SP&TTs that are effective against milder challenges would fail such a screen and go unidentified. In order to improve test sensitivity to SP&TT efficacy, a dilute HD solution is applied. In an alternative model, an IPPSF is exposed to an environment of HD vapors.

This protocol includes methods for three types of studies, i.e., (1) a validation study to evaluate the quality of IPPSF technology transfer to MREF, (2) pilot studies to investigate test conditions for evaluating SP&TTs, and (3) efficacy evaluations of candidate SP&TTs. Due to the expense of facilities required to sustain each IPPSF, a limited number of IPPSFs are prepared for dosing on a given day. Treatment groups

nominally consist of 15 (validation) or 10 (efficacy evaluations) replicate IPPSFs each, randomized across treatment groups to reduce the effects of workers gaining technical proficiency and other trends associated with minor enhancements in the procedure.

In the validation study, a standard solution of HD in vehicle is applied to an IPPSF, and perfusate is sampled at specific exposure times and analyzed for dextrose utilization and lactate production. Vascular resistance is continuously monitored before dosing and for up to 8 hr after dosing. Dextrose utilization, lactate production, and vascular resistance are expressed as percentages of baseline (predose) levels. At 8 hr after dosing, the IPPSF is grossly examined, decontaminated, removed from the perfusion chamber, and sampled for histologic examination.

In the SP&TT efficacy tests, a candidate SP&TT material is administered in the perfusate at a standard interval either before or after the exposure of the IPPSF surface to HD. Dextrose utilization, lactate production, and vascular resistance are measured in the naive IPPSF, after HD application, and again after SP&TT treatment. The values are normalized to naive levels.

A. Test Systems - Specific pathogen-free, weanling female swine were specified for use in this study by the NCSU investigators, who have previously demonstrated that porcine skin parallels human skin in response to HD and other irritants. Each swine provides two areas for production and harvesting of an IPPSF, of which one IPPSF can serve as the control for the contralateral, test IPPSF. Donor swine may be returned to their source in a state of full health after these procedures.

- (1) Animals - SPF Yorkshire/Hampshire cross female swine; Supplier: Shady Side Farm, Powell, OH
- (2) Initial Weight - 18 to 30 kg
- (3) Quarantine - Swine are held in isolation and observed for clinical illness for at least 7 days prior to study initiation. Quarantine may be performed at Battelle's King Avenue animal facility or at the MREF.
- (4) Acclimation - All swine are held at the MREF at least 24 hr prior to study initiation.

- (5) Selection - Swine that are in good physical condition after a minimum 7-day quarantine period become candidate donors. Individuals are then selected for study on the basis of health, proper weight, and condition of inguinal skin. The swine are randomly assigned to weight-homogenized treatment groups for use on study in a randomized sequence.
- (6) Animal Identification - Ear tag or tattoo; positive identification is required for each swine upon admission to quarantine. At a minimum, cage cards identify animal number, sex, supplier, and date of receipt for each swine.
- (7) Housing - Swine are housed individually in stainless steel cages equipped with automatic watering systems.
- (8) Lighting - Fluorescent lighting, light/dark cycle is 12 hr each per day.
- (9) Temperature - Maintained at 21 C ($\pm$ 3 C).
- (10) Humidity - Maintained at 50 percent ($\pm$ 10 percent).
- (11) Diet - Purina Certified Swine Feed is available at all times. No contaminants are known to be present in the feed which would interfere with or affect the results of the study.
- (12) Water Supply - Water is supplied from the public water system and given ad libitum. No contaminants are known to be present in the water which would affect the results of the study.
- (13) Laboratory Animal Welfare Practices - Battelle's Animal Resources Facilities have been registered with the U.S. Department of Agriculture (USDA) as a research facility (Number 31-21) since August 14, 1967, and are periodically inspected in accordance with the provisions of the Federal Animal Welfare Act. In addition, animals for use in research are obtained only from laboratory animal suppliers duly licensed by the USDA. Battelle's statement of assurance regarding the Department of Health and Human Services policy on humane care of laboratory animals was accepted by the Office of Protection from Research Risks, National Institutes of Health (NIH), on August 27, 1973. Animals at Battelle are cared for in accordance with the guidelines set forth in the "Guide for the Care and Use of Laboratory Animals" (NIH Publication Number 85-23) and/or in the regulations and

standards as promulgated by the Agricultural Research Service, USDA, pursuant to the Laboratory Animals Welfare Act of August 24, 1966, as amended.

- (14) Accreditation - On January 31, 1978, Battelle Memorial Institute received full accreditation of its animal-care program and facilities from the American Association for Accreditation of Laboratory Animal Care (AAALAC). Battelle's full accreditation status has been renewed after every inspection since the original accreditation. The MREF is a part of the facilities granted full accreditation.
- (15) Animal Care During Surgery - Each swine is anesthetized and taken to a surgery suite for IPPSF production, and again two days later for IPPSF harvesting. Health status is monitored for heart rate, temperature, and respiration. After each procedure, the swine is returned to its cage for recovery from anesthesia.

B. Experimental Overview

- (1) Outline of Studies - Until the test procedure is performed routinely at the MREF, only one swine will be used per day. The following study design implies a single swine per day use rate, but this rate may change to two or more swine per day as surgical teams become more proficient.
 - (a) Validation Study (Phase II) - The validation study is conducted over 15 replicate days of two IPPSFs per day, for a total of 30 IPPSFs. Each swine will contribute two IPPSFs, of which one will be randomly selected to serve as a vehicle control, and the other will be dosed with an equivalent volume of HD in vehicle. Data will be paired by swine to determine the effects of HD on IPPSF physiology. If one of the IPPSFs is unusable, then the experiment will proceed without that IPPSF. The MREF model will be considered valid by showing that the MREF results are consistent with those previously obtained at NCSU under similar test conditions.

- (b) DTN Test Module Development (Phase III) - This phase is conducted with 30 IPPSFs and involves development of the test conditions necessary to screen systemic prophylactic and therapeutic treatments against HD injury. Ten IPPSFs are used in each of the following investigations to determine test conditions:
 - (i) HD Phase Study - The criteria for selection of a HD phase (liquid or vapor) for exposure is based on whether microvesicles are produced, and the degree of within-group variability in IPPSF physiologic responses. The phase that produces microvesicles more consistently and renders physiologic changes with less variability will be selected.
 - (ii) HD Dose Level (Liquid) or Exposure Time (Vapor) Selection - The optimal dose level or exposure time (depending on the outcome of the HD phase study) is an exposure that produces a physiologic and/or histopathologic response to a degree that might be ameliorated by a successful SP&TT. Thus, producing a moderate or marked response is the objective.
 - (iii) SP&TT Timing Study - An optimal time relative to HD exposure for treatment with SP&TTs is determined. Initial pretreatment or posttreatment times are based on the biochemical mechanisms responsible for the hypothetical efficacy of an individual or class of SP&TTs. Selection of an optimal treatment time relative to dosing is based on the performance of a sponsor-identified SP&TT administered at various times either before or after the HD exposure.
- (c) SP&TT Efficacy Tests (Phase IV) - Each SP&TT candidate is tested over 10 replicate days of two IPPSFs per day, for a total of 10 IPPSFs treated with the candidate SP&TT and 10 positive control (or standard) IPPSFs. At the discretion of the Study Director, fewer than 10 replicates may be performed if the data on hand are sufficient to statistically discriminate among the candidates. SP&TTs are administered intravascularly in the perfusate, either before or after the HD challenge.

(2) Definition of Treatment Groups

- (a) Validation Study (Phase II) - On each of 15 replicate days, one IPPSF is treated with a dilute solution of HD in vehicle (nominally ethanol), and the other is treated with an identical volume of vehicle.
- (b) DTN Test Module Development (Phase III)
 - (i) HD Phase Study - On each of five replicate days in the HD phase study, one IPPSF is dosed with a standard volume of HD/solvent, and the other is subjected to an atmosphere of vaporous HD.
 - (ii) HD Dose Level (Liquid) or Exposure Time (Vapor) Selection - In this study, two IPPSFs are identically exposed to HD at increasing levels across the five test days. If liquid exposures are preferred, then the concentration is increased in a constant volume. If vaporous HD exposures are preferred, then the exposure times are increased.
 - (iii) SP&TT Timing Study - Treatment times relative to HD exposure are selected and randomized for testing. Nominally, these are 60 and 30 min before dosing and 5, 30, and 60 min after dosing. Other treatment times may be substituted for these at the discretion of the study director after consultation with the sponsor. On each of five replicate test days, a sponsor-identified SP&TT is administered into the perfusate solution at two of the predetermined treatment times. The treatment times are determined by a Latin square so that the IPPSFs used on a given test day are not treated at the same time, but each of the five treatment times will be represented by two replicates at the end of the study.
- (c) SP&TT Efficacy Tests (Phase IV) - On each replicate day, one IPPSF is used as a no-SP&TT, positive (HD/vehicle dosed) control, and the other is treated with a candidate SP&TT followed by (or preceded by, as the case may be) a dilute solution of HD in vehicle. The positive control is included as a swine-specific check on process quality control. At the discretion of the study director after consultation with the

sponsor, this design may be modified to treat the positive control IPPSF with a standard SP&TT when

- (i) such a standard SP&TT is identified by the sponsor and
- (ii) sufficient data are on hand to use IPPSFs treated with the standard SP&TT as process controls.

Thereafter, statistical comparisons will be made between the candidate and standard SP&TTs.

C. Test Articles

- (1) Systemic Prophylaxis and Therapeutic Treatments - SP&TTs are supplied by the sponsor. It is the responsibility of the sponsor to ensure that appropriate identification (batch number, lot number, physical state, etc.), expiration date (if available), safety and storage data are supplied for each candidate SP&TT received by the MREF.
- (2) Irritant
 - (a) HD is supplied by USAMRICD. Purity, appropriate identification (batch number, lot number, state), and stability data are supplied by USAMRICD. Purity and stability are confirmed periodically by Battelle.
 - (b) Surety, security, and safety procedures for the use of CSM are thoroughly outlined in facility plans, in personnel requirements for qualifications to work with agents, and in agent storage and use standard operating procedures. All safety procedures given in Battelle SOP MREF I-002, entitled "Standard Operating Procedure (SOP) for the Storage, Dilution, and Transfer of GA, GB, GD, TGD, VX, HD, HD/L, and L When CSM Concentration/Quantity is Greater Than Exempt Levels", and Battelle SOP MREF II-010, entitled "Standard Operating Procedure (SOP) for the Application of HD, L, and HL Chemical Surety Materiel to the Isolated Perfused Porcine Skin Flap", are observed during handling and dosing of HD.

- D. Producing and Harvesting the IPPSF - Procedures for administering and maintaining anesthesia, and for the surgical production of and harvesting an IPPSF are presented in Battelle SOP MREF VII-023, entitled "Standard Operating Procedure (SOP) for the Surgical Preparation of the Isolated Perfused Porcine Skin Flap". A brief description of the procedure follows.
- (1) Anesthesia - The swine is premedicated with 1.5 mg/kg intramuscularly (i.m.) of atropine sulfate. Anesthesia is induced with ketamine hydrochloride (11 mg/kg i.m.) and xylazine hydrochloride (1.5 mg/kg i.m.). The swine is placed on a surgical table on its dorsum, and an endotracheal tube is inserted. Anesthesia is maintained via halothane inhalation (1 to 1.5 percent). These anesthetics may be modified as directed by NCSU consultants.
 - (2) IPPSF Production - The swine is prepared for aseptic surgery in the caudal abdominal and inguinal regions. A sterile marking pen is used to place reference marks on the skin in the caudolateral epigastric region. Skin incisions are made around the caudal superficial epigastric artery within a 4- by 12-cm rectangle. Major superficial vessels are ligated and divided, and minor vessels are cauterized. Subcutaneous tissue is dissected away from the skin. Dissection continues until the only tissue connecting the flap to the donor are the caudal superficial epigastric artery, paired venae comitantes, and immediate connective tissue. Starting at the caudal end, the sides of the flap are apposed and sewn together. Fat is trimmed away from the flap edges, if necessary. Three tissue layers are separately apposed and sewn together in sequence: deep subcutaneous tissues, superficial subcutaneous tissues, and skin incision edges. The wound site and flap are bandaged, and the flap is ligated to the cranial end of the wound to immobilize it. The swine is allowed to recover from anesthesia and returned to individual housing.
 - (3) IPPSF Harvesting - Two days after IPPSF production, the swine is anesthetized and prepared for aseptic surgery as before. Care is taken to ensure that scrub solution does not contact the flap. A 3 mL volume of 1,000 USP units/mL of heparin is administered in a marginal ear vein. All sutures are removed from the base of the flap, and the flap is lifted slightly away from the donor surface with vessels intact. The superficial epigastric artery is cannulated, and the donor side is sutured closed. Other connecting tissues are severed, and the flap is perfused with a flush solution and transferred to an assistant, who closes the flap with suture. The donor's

wound is closed, and the swine is allowed to recover from anesthesia and returned to individual housing. Alternatively, the swine may be anesthetized with Beuthanasia solution. Remaining sutures from surviving swine are removed at 7 to 10 days after the IPPSF production stage.

- E. Preparation of IPPSF for Testing - After excision from the swine, cannulation, and commencement of perfusion, the IPPSF is allowed to reach a steady state over an acclimation period of nominally 1 hr in the perfusion chamber.
- F. Baseline Values - After acclimation, baseline data for the appropriate endpoints, such as vascular resistance, dextrose utilization, and lactate production are collected.
- G. Systemic Prophylactic Treatments - SP&TTs are administered at a test-specified time relative to exposure to dilute HD. Treatment schedules may be changed by the study director after consultation and agreement by the sponsor. SP&TTs may be administered to the IPPSF either topically or in the perfusate according to standard methods established at the MREF.
- H. Application of HD to IPPSF
 - (1) Exposures of HD are made in fume hoods approved for use with chemical surety materiel. During dosing and throughout the exposure period for each test, the IPPSF is positioned inside the perfusion chamber in a hood.
 - (2) Applications of HD are made at test-specified times and consist of a constant volume of application. The challenge dose concentration and volume for a liquid exposure may be changed at the discretion of the study director after consultation and agreement by the sponsor. All safety procedures given in Battelle SOP MREF I-002 are observed during handling and dosing of HD. Instructions for applying a solution of HD onto an IPPSF and for exposing an IPPSF to a HD vapor environment are specified in Battelle SOP MREF II-010.

A 10- μ L (or other, sponsor-specified) volume of HD/vehicle is dispensed from a syringe at the distal tip of the IPPSF. A Hamilton 7001N or other suitable syringe with a sharp-tip, positive displacement needle may be used to provide a point source, air-dropped delivery. A larger syringe may be used in a calibrated micrometer-driven dosing device (MDDD) to administer the

agent solution. If a droplet of HD/vehicle remains on the end of the needle, the needle may be brought down close to the skin surface so as to "wick" off the droplet.

- I. Physiologic Monitoring - Immediately after agent dosing, the perfusion chamber is sealed, and the perfusion period begins. The perfusion chamber temperature and humidity are monitored and regulated. Physiologic processes such as efferent perfusate dextrose and lactate concentrations, afferent perfusion pressure, and perfusate flow rate are periodically monitored.
- J. Study-Specific Decontamination - At the end of the experiment, the IPPSF is decontaminated to chemically destroy any residual HD. A 4- by 4-inch gauze pad is grasped with tongs, soaked in a solution of 0.5 percent sodium hypochlorite (NaOCl), and gently wiped over the IPPSF epidermal surface. Likewise, two other gauze pads are sequentially soaked in distilled water and wiped over the IPPSF to rinse off any residual bleach.
- K. Pathology
 - (1) Gross Lesion Evaluation - The IPPSF is visually examined for development of skin color or texture changes, edema, and blisters.
 - (a) Skin color or texture changes are described using a consistent set of descriptors.
 - (b) Edema is scored according to the following:

No edema	0
Very slight edema (barely perceptible)	1
Slight edema (edges of the lesion area are well-defined by definite raising)	2
Moderate edema (raised approximately one millimeter)	3
Severe edema (raised more than one millimeter and extending beyond the area of exposure)	4
 - (c) Blisters are described using a consistent set of descriptors according to their pattern, area of skin involvement, and general degree of elevation above the peripheral normal skin.

- (2) Pathology - The afferent and efferent cannulae are removed from the IPPSF, which is prepared for study-specific histologic processing. Samples of the IPPSF are collected and placed into a solution of the appropriate fixative. Each specimen is identified by placing it into a labeled jar or cassette. Specimens are identified by task number, charge account number, study director, date and time of tissue harvesting, and swine number. A warning label stating that the skin samples were exposed to HD is affixed to the outside of each container and to the outside of the box used for transportation. All samples are retained at the MREF for 24 hr before being transported to another facility for histologic processing. After fixation, they are processed for routine hematoxylin and eosin staining and histopathologic evaluation by light microscopy. Each specimen is evaluated, as a minimum, for microvesication.
- L. General Decontamination and Perfusion Chamber Cleaning - The IPPSF support table and all other surfaces in the perfusion chamber that were potentially in direct contact with HD are decontaminated with a 5 percent solution of NaOCl. Other details regarding cleaning of perfusate containers, tubing and related equipment are given in Battelle SOP MREF II-011, entitled "Standard Operating Procedure (SOP) for Cleaning the IPPSF Perfusion Chamber and Apparatus".
- M. Statistical Methods
- (1) Quality Control - Standard quality control methods are employed to establish a range of tolerable control values for one or more of the physiologic parameters at naive, pretreatment readings. Initially, the control data are checked against results from NCSU experiments, but after completion of the Validation Phase, an MREF data base will also be compiled for quality control. Control charts are maintained for positive control (no SP&TT) and for a standard SP&TT, if identified.
 - (2) Statistics - Continuous (quantitative) data are tabulated within treatment groups and summarized using univariate statistics. Histopathologic data are tabulated and summarized as incidence frequencies. Statistical comparisons are performed, depending on the type of data and the objective for each phase of the task.

- (a) Validation Study (Phase II) - Differences between results from vehicle controls and HD/vehicle-dosed IPPSFs are determined for each swine. A paired Student's t-test is performed on each physiologic endpoint. If more than five swine produce only one useable IPPSF, then an unpaired Student's t-test is also performed, using raw data without calculating differences for each pair of IPPSFs.
- (b) DTN Test Module Development (Phase III)
 - (i) HD Phase Study - The variances from both groups are subjected to an F test to determine whether they are statistically different for each parametric endpoint. A nonparametric analysis of variance (ANOVA) test determines whether the HD phases produce significantly different incidence frequencies of histopathologic findings.
 - (ii) HD Dose Level (Liquid) or Exposure Time (Vapor) Selection - Data are plotted as a function of the degree of HD exposure, whether it be HD concentration or exposure period. An exposure level is selected for screening SP&TTs that optimizes the chances of detecting an ameliorating effect, that is, one that is on a linear portion of the dose-response curve for each endpoint. A probit analysis is performed if the amount of data exists to warrant one.
 - (iii) SP&TT Timing Study - ANOVA is performed on parametric data to determine whether there are any significant trends associated with SP&TT treatment time relative to HD exposure. Nonparametric ANOVA is performed to detect differences among groups for quantal endpoints.
- (c) SP&TT Efficacy Tests (Phase IV) - Statistical tests are performed to determine whether normalizing candidate SP&TT data to the control (or standard) IPPSF data reduces the variability within treatment groups. The data, whether raw or normalized, are contrasted by ANOVA and subsequent Tukey tests to determine significant differences between each combination pair of candidate SP&TTs. The candidate SP&TTs are rank ordered.

9. Records to be Maintained:

- A. HD and SP&TT inventory, specifications, and usage,
- B. Dosage preparation and administration,
- C. Animal receipt and quarantine records,
- D. Animal data from all tests performed, and
- E. Decontamination results and disposal records

10. Reports:

A letter report is submitted for each phase of work in this task. A draft final report is prepared and submitted within 30 days after completion of the task. It includes at least the following:

- A. Signature page for key study individuals and their responsibilities,
- B. Experimental design,
- C. *Ex vivo* test data,
- D. CSM Application procedures,
- E. Tabulation of response data for each exposure, or for each SP&TT tested,
- F. Statistical methodology used, and
- G. Discussion.

11. Approval Signatures:


Thomas H. Snider, B.S., D.A.B.T.
Study Director

11/24/93
Date


David W. Hobson, Ph.D., D.A.B.T.
Principal Investigator and Manager
Medical Research and Evaluation Facility

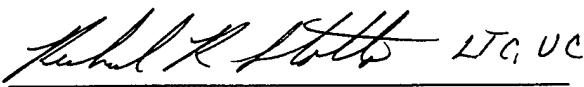
12/16/93
Date


David Sticher
Certified Industrial Hygienist
Medical Research and Evaluation Facility

12/17/93
Date


Allen G. Manus, D.V.M.
Study Veterinarian

12/17/93
Date


LTC Don W. Korte, Jr., Ph.D.
USAMRICD COR

2/19/95
Date

Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision
Tree Network Screening Module for Assessing the Efficacy of Systemic
Antivesicant Pretreatment and Treatment Compounds

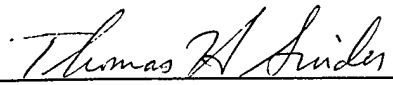
MREF Protocol 97 Amendment No. 1

Change: On page 9, replace Section 8.D.(7) with the following (additions are in bold type):

IPPSF Harvesting - Two days after IPPSF production, the swine is anesthetized and prepared for aseptic surgery as before. Care is taken to ensure that scrub solution does not contact the flap. A 3 mL volume of 1,000 USP units/mL of heparin is administered in a marginal ear vein. All sutures are removed from the base of the flap, and the flap is lifted slightly away from the donor surface with vessels intact. The superficial epigastric artery is cannulated, and the donor side is sutured closed. Other connecting tissues are severed, and the flap is perfused with a flush solution and transferred to an assistant, who closes the flap with suture. The donor's wound is closed, and the swine is allowed to recover from anesthesia and returned to individual housing. **The condition of each swine is assessed by a Battelle staff veterinarian following collection of skin flaps, and if the animal is debilitated, it is euthanatized with Beuthanasia or other approved euthanasia solution and the carcass incinerated. If the swine is in good condition, then it is donated or sold to a local pork producer.** Remaining sutures from surviving swine are removed at 7 to 10 days after the IPPSF production stage.

Reason: The only treatment these animals will have undergone is anesthesia with associated non-invasive surgery to produce and then excise skin flaps. The withdrawal times (i.e., the time after treatment with a drug that animals must be held prior to sending to slaughter) for the anesthetic/analgesic agents that are to be administered is relatively short, only a week or so. The pigs used in this study will be much lighter than the normal market weight of approximately 240 pounds, and therefore will require feeding for a prolonged period before being sent to a sale.

Impact: This change will have no impact on the study.


Thomas H. Snider, B.S., D.A.B.T.
Study Director

2/18/94
Date


LTC Don W. Korte, Jr., COR
USAMRICD

1/19/95 THS
2/19/95
Date

Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision
Tree Network Screening Module for Assessing the Efficacy of Systemic
Antivesicant Pretreatment and Treatment Compounds

MREF Protocol 97 Amendment No. 2

Change: On page 5, replace Section 8.A.(11) with the following (deletions are shown as stricken, and additions are shown in bold type):

Diet - Purina ~~Certified~~ **Swine Feed or other veterinarian-approved swine feed** is available at all times. No contaminants are known to be present in the feed which would interfere with or affect the results of the study.

Reason: The cost of having a lot of swine feed certified by Purina (quoted at \$1500) is too high to justify in terms of certifying the experimental conditions of a study outside the purview of Good Laboratory Practices regulations. This amendment also allows continuity in the swine's feed after shipment from the supplier in the event that the swine experience health problems when given Purina feed.

Impact: This change will have no impact on the study.



Thomas H. Snider, B.S., D.A.B.T.
Study Director

1/6/95

Date



LTC Richard R. Stotts, COR
USAMRICD

2/19/95

Date

Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision
Tree Network Screening Module for Assessing the Efficacy of Systemic
Antivesicant Pretreatment and Treatment Compounds

MREF Protocol 97 Amendment No. 3

Change: On pages 9 and 10, replace Section 8.D.(3) with the following (deletions are shown as stricken, and additions are shown in bold type):

IPPSF Harvesting - Two days after IPPSF production, the swine is anesthetized and prepared for aseptic surgery as before. The peripheral surgery site is cleaned with surgical scrub solution, and care is taken to ensure that scrub solution does not contact the flap. A 3 mL volume of 1,000 USP units/mL of heparin is administered in a marginal ear vein. All sutures are removed from the base of the flap, and the flap is lifted slightly away from the donor surface with vessels intact. The superficial epigastric artery is cannulated, and the donor side is sutured closed. Other connecting tissues are clamped, severed, and ligated, and the flap is perfused with a flush solution and transferred to an assistant, who closes the flap with suture. The donor's wound is closed, and The swine is allowed to recover from anesthesia and returned to individual housing. Alternatively, the swine may be anesthetized with Beuthanasia or other, veterinarian-approved euthanasia solution. Remaining sutures from surviving swine are removed at 7 to 10 days after the IPPSF production stage.

Reason: Asepsis is not required during the harvesting surgical procedure. The skin surface near the flap is cleaned with scrub solution to remove debris, but application of scrub solution to the flap may alter its transdermal characteristics and must be avoided. The flap is not sutured closed, as this may increase flap turgidity, an undesirable characteristic in a naive flap. Leaving open the remaining wounds, which are approximately 4 x 4-cm square each, promotes healing relative to suturing the wounds closed. Other euthanasia solutions that are more humane than Beuthanasia may become evident in the future. Any sutures left in the swine are made of 2-0 or 3-0 gut ligature, which dissolve and do not require removal.

Impact: A few of these changes will enhance the success of harvesting a normal flap, but otherwise are intended to minimize discomfort in the swine.



Thomas H. Snider, B.S., D.A.B.T.
Study Director

5-8-95
Date



LTC Richard R. Stotts, COR
USAMRICD

10 MAY 95
Date

Establishment of the Porcine Isolated Perfused Skin Flap Model as a Decision
Tree Network Screening Module for Assessing the Efficacy of Systemic
Antivesicant Pretreatment and Treatment Compounds

Protocol Amendment No. 4

Change 1: Page 1, Section 1.

Change to: "Co-Principal Investigator and Manager: John B. Johnson,
D.V.M., Medical Research and Evaluation Facility (MREF)".

Reason for change:

The principal investigator and manager has changed.

Change 2: Page 1, Section 3. Study Veterinarians.

Change to: "Tracy A. Peace, D.V.M.
Frances M. Reid D.V.M., M.S., D.A.B.V.T., D.A.B.T."

Reason for change:

A study veterinarian has changed.

Change 3: Page 1, Section 4. Sponsor.

Change to: "U.S. Army Medical Research and Materiel Command
(USAMRMC)".

Reason for change:

The name of the sponsoring organization has been changed.

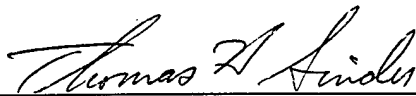
Change 4: Page 1, Section 5. Sponsor Monitor.

Change to: "LTC Richard R. Stotts, D.V.M., Ph.D., U.S. Army Medical
Research Institute of Chemical Defense (USAMRICD)".

Reason for change:

The sponsor monitor has changed.

Approved by:



Thomas H. Snider, B.S., D.A.B.T.
Study Director

11-8-95

Date



LTC Richard R. Stotts, D.V.M., Ph.D.
USAMRICD COR

9 NOV 95

Date

APPENDIX B

Figures

Figure 1. Control Chart of Dilute HD Doses Applied onto IPPSFs, with 95 Percent Confidence Limits

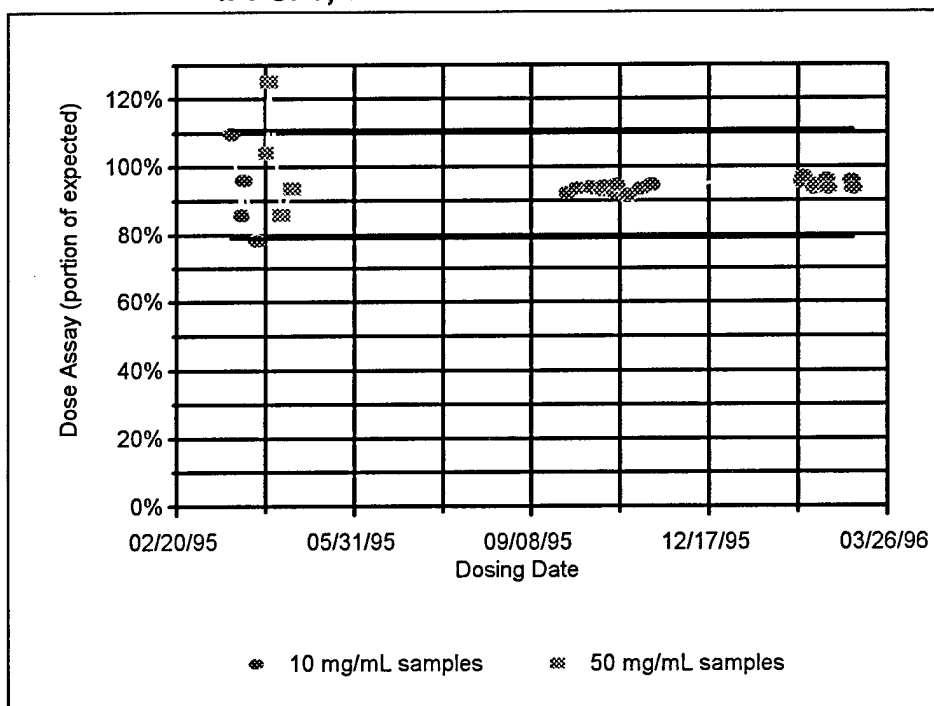


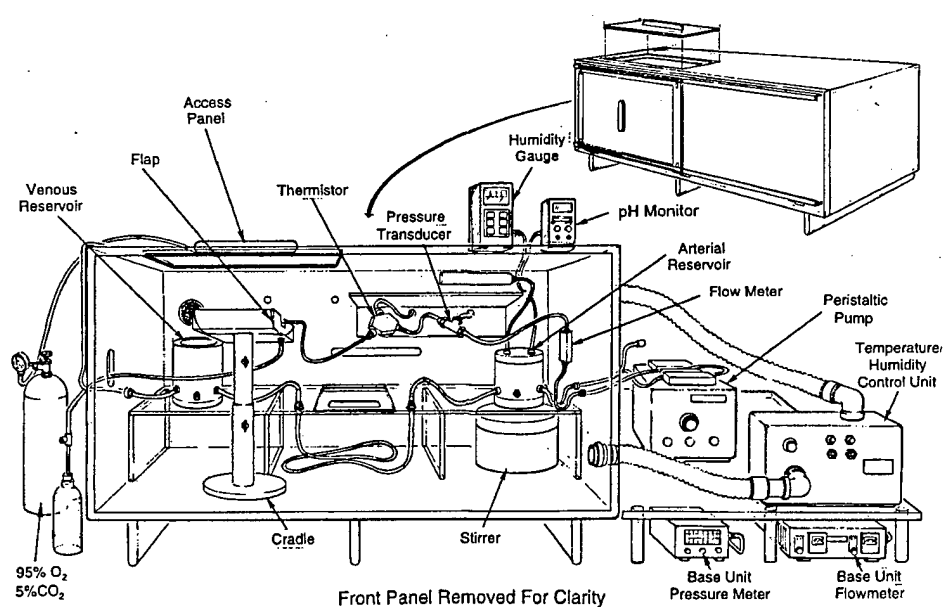
Figure 2. Schematic of the Perfusion Chamber

Figure 3. Vascular Resistance Averaged by Treatment Group for Flaps 2501 to 2554
(mean $\pm$ two standard errors)

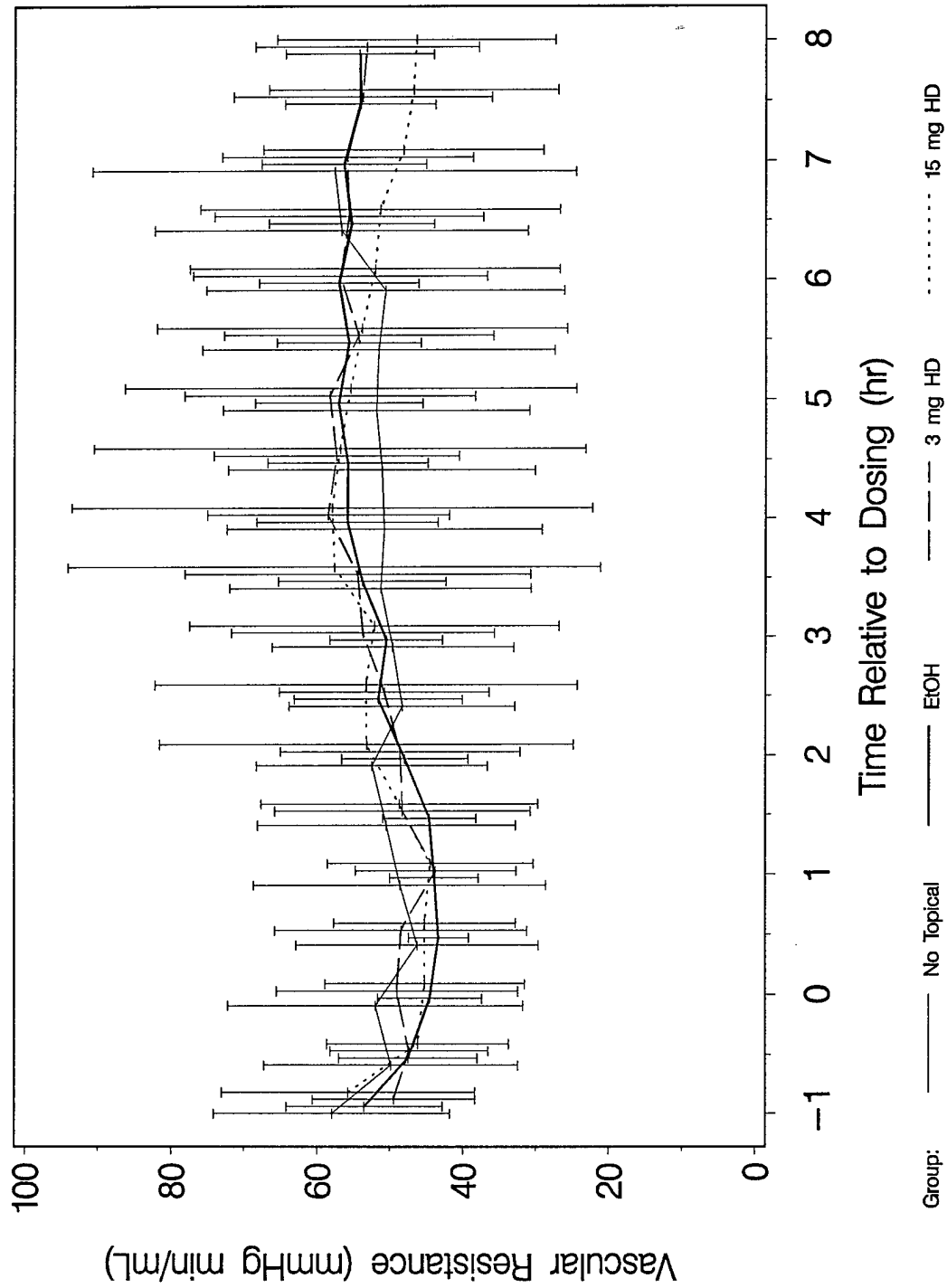


Figure 4. Vascular Resistance Normalized to $t = 0$ hr Value and Averaged by Treatment Group for Flaps 2501 to 2554
(mean $\pm$ two standard errors)

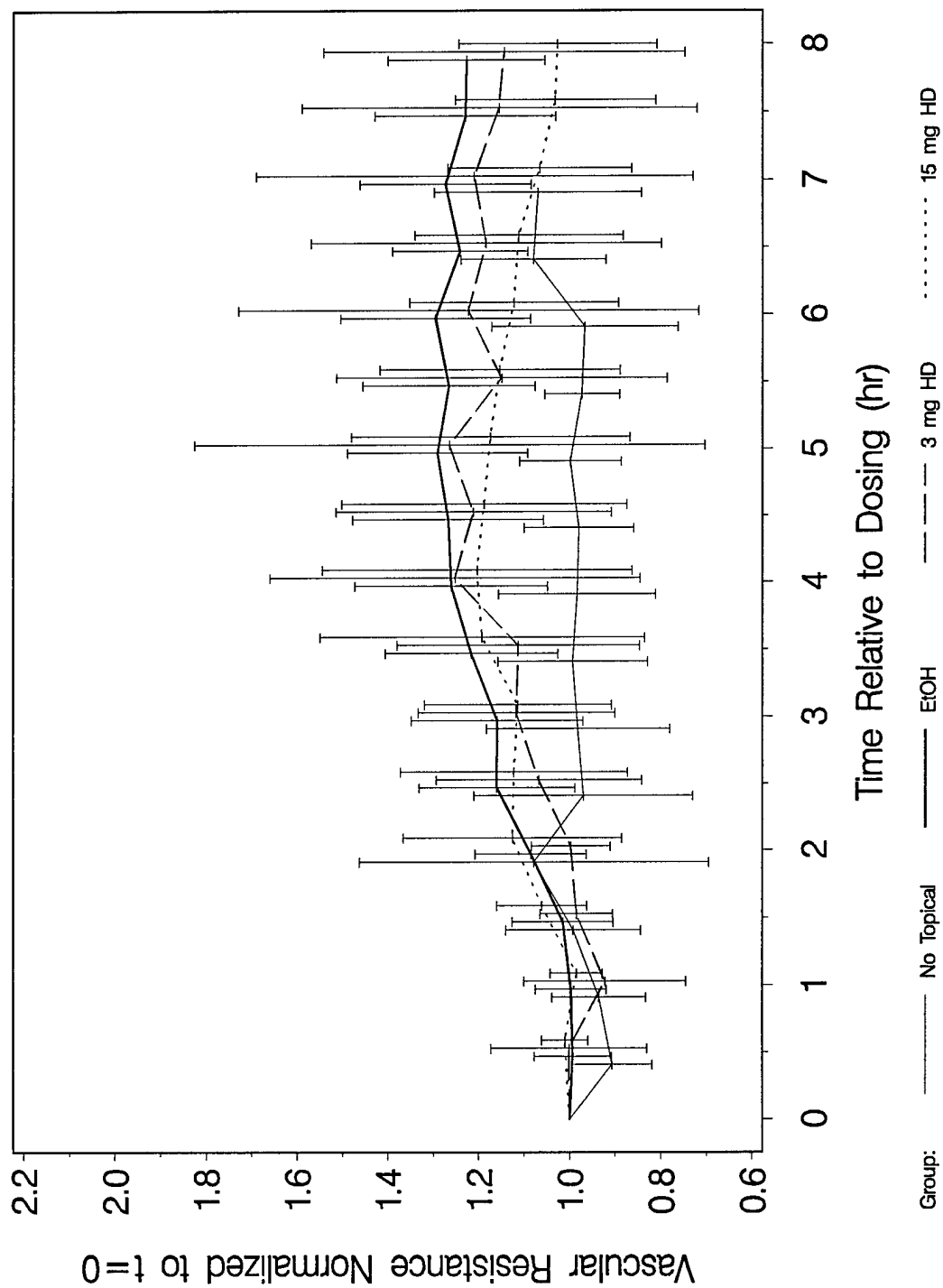


Figure 5. Glucose Utilization Averaged by Treatment Group for Flaps 2501 to 2554
(mean $\pm$ two standard errors)

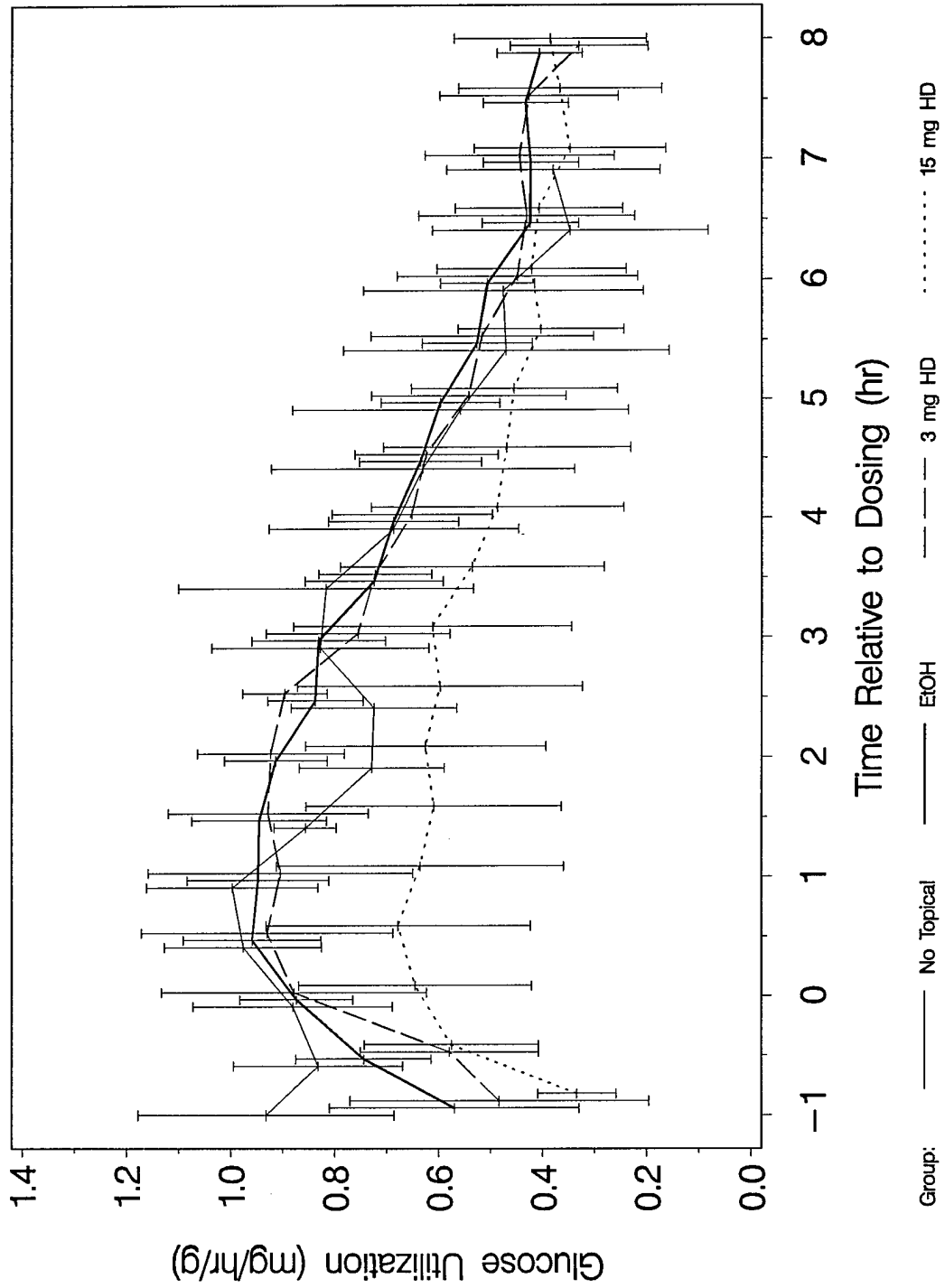


Figure 6. Cumulative Glucose Utilization Averaged by Treatment Group for Flaps 2501 to 2554
(mean $\pm$ two standard errors)

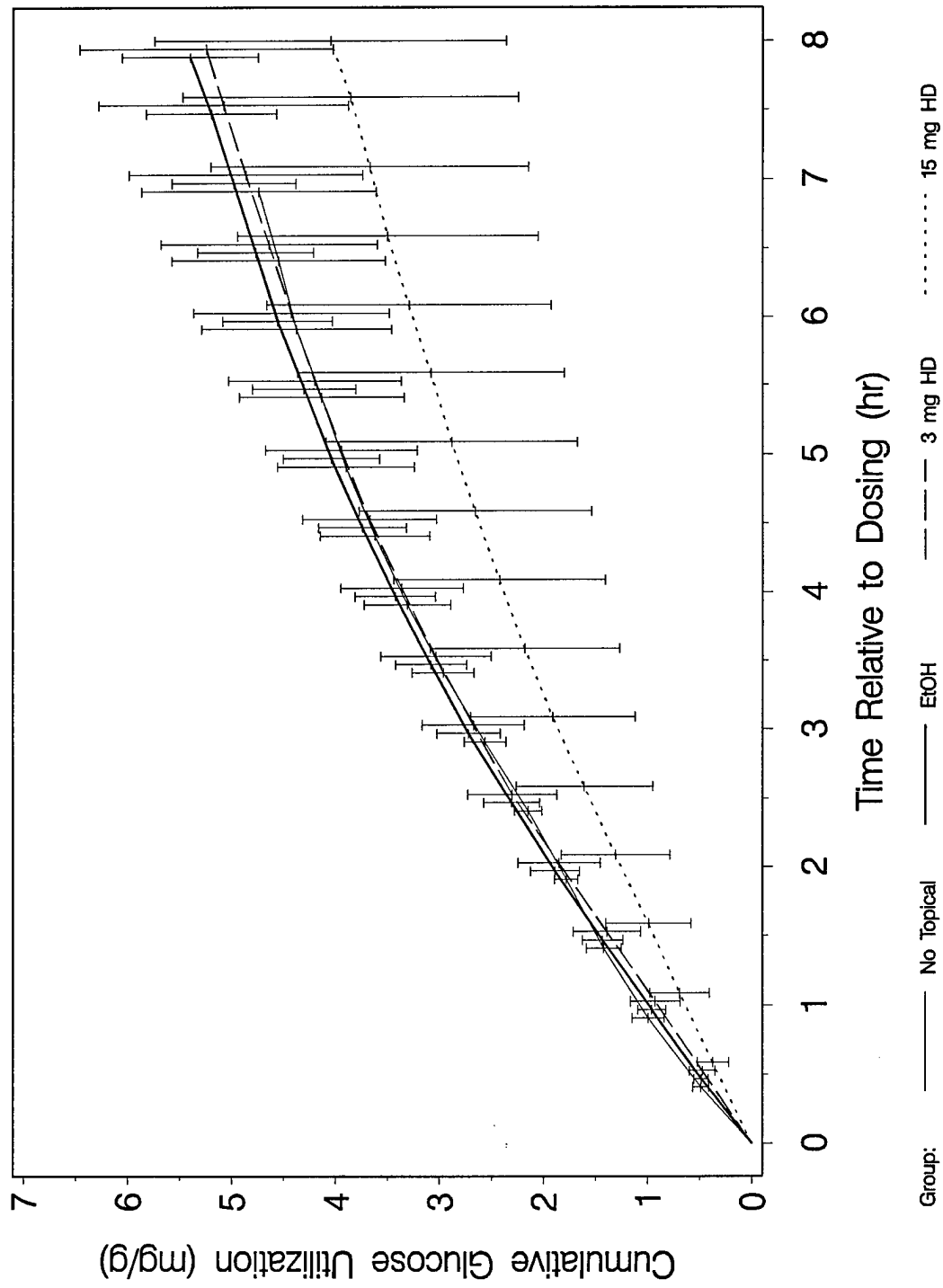


Figure 7. Vascular Resistance Averaged by Treatment Group for Flaps 2555 to 2598
(mean $\pm$ two standard errors)

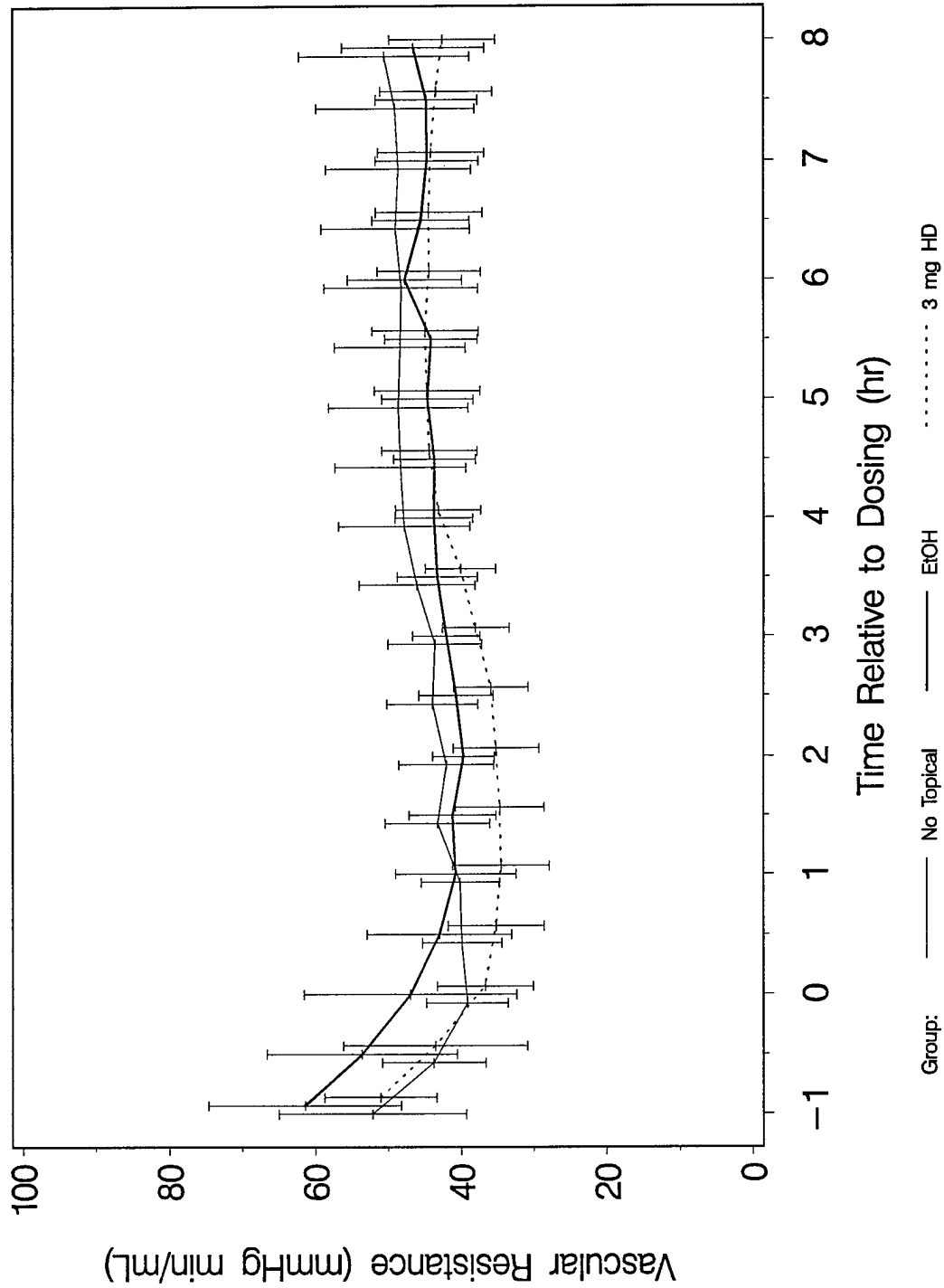


Figure 8. Vascular Resistance Normalized to $t = 0$ hr Value and Averaged by Treatment Group for Flaps 2555 to 2598
(mean $\pm$ two standard errors)

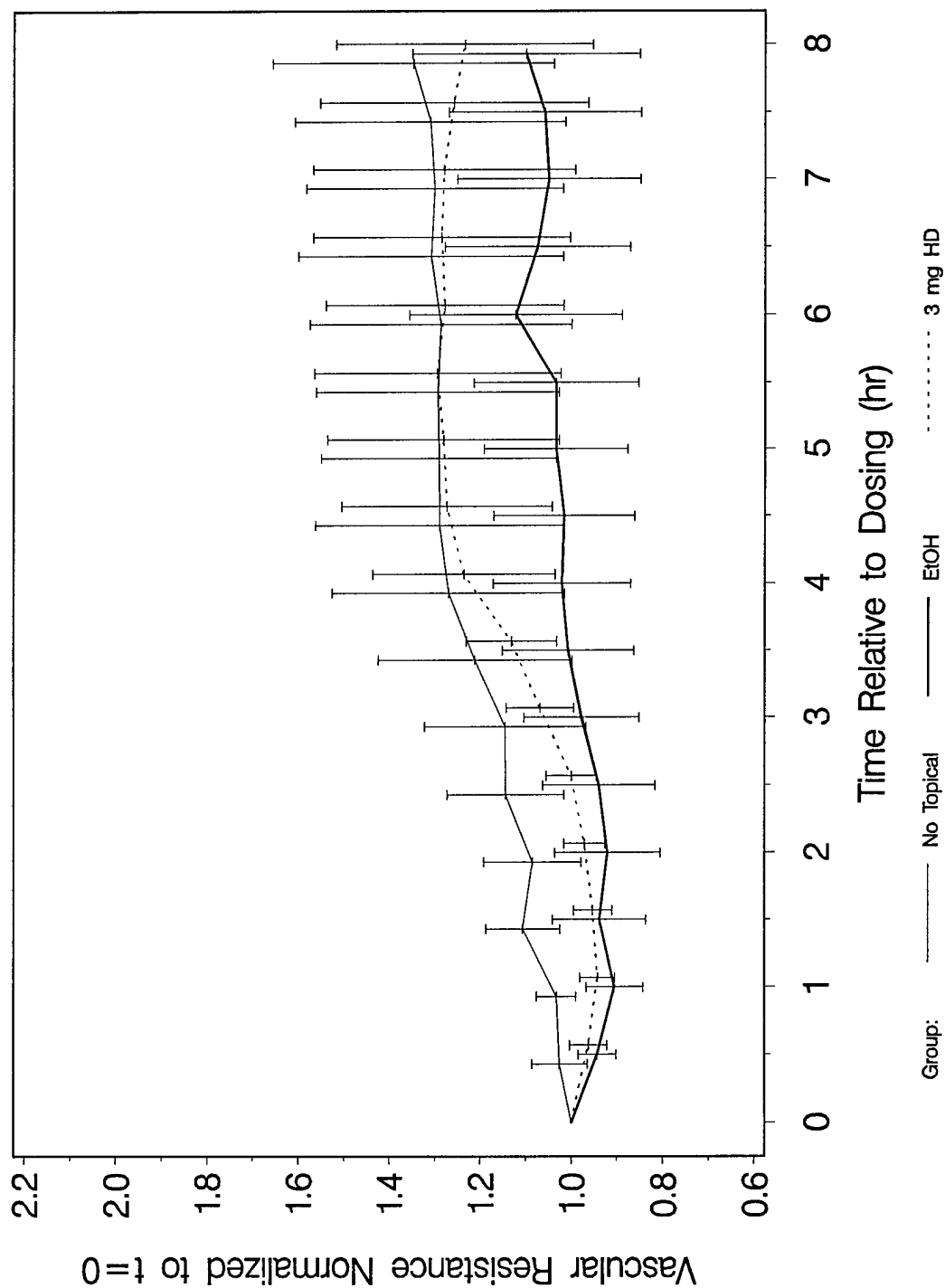


Figure 9. Glucose Utilization Averaged by Treatment Group for Flaps 2555 to 2598
(mean $\pm$ two standard errors)

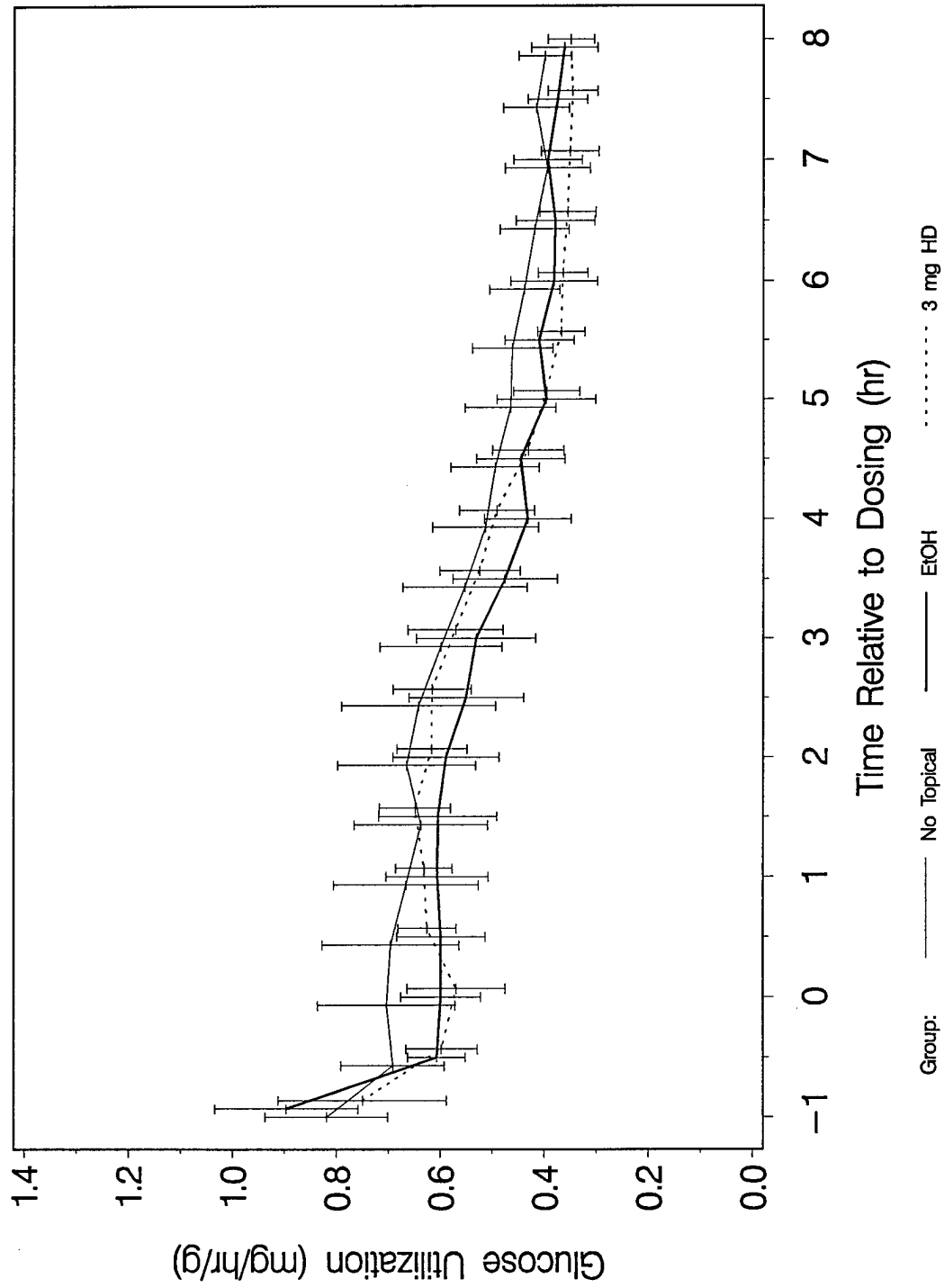


Figure 10. Cumulative Glucose Utilization Averaged by Treatment Group for Flaps 2555 to 2598
(mean $\pm$ two standard errors)

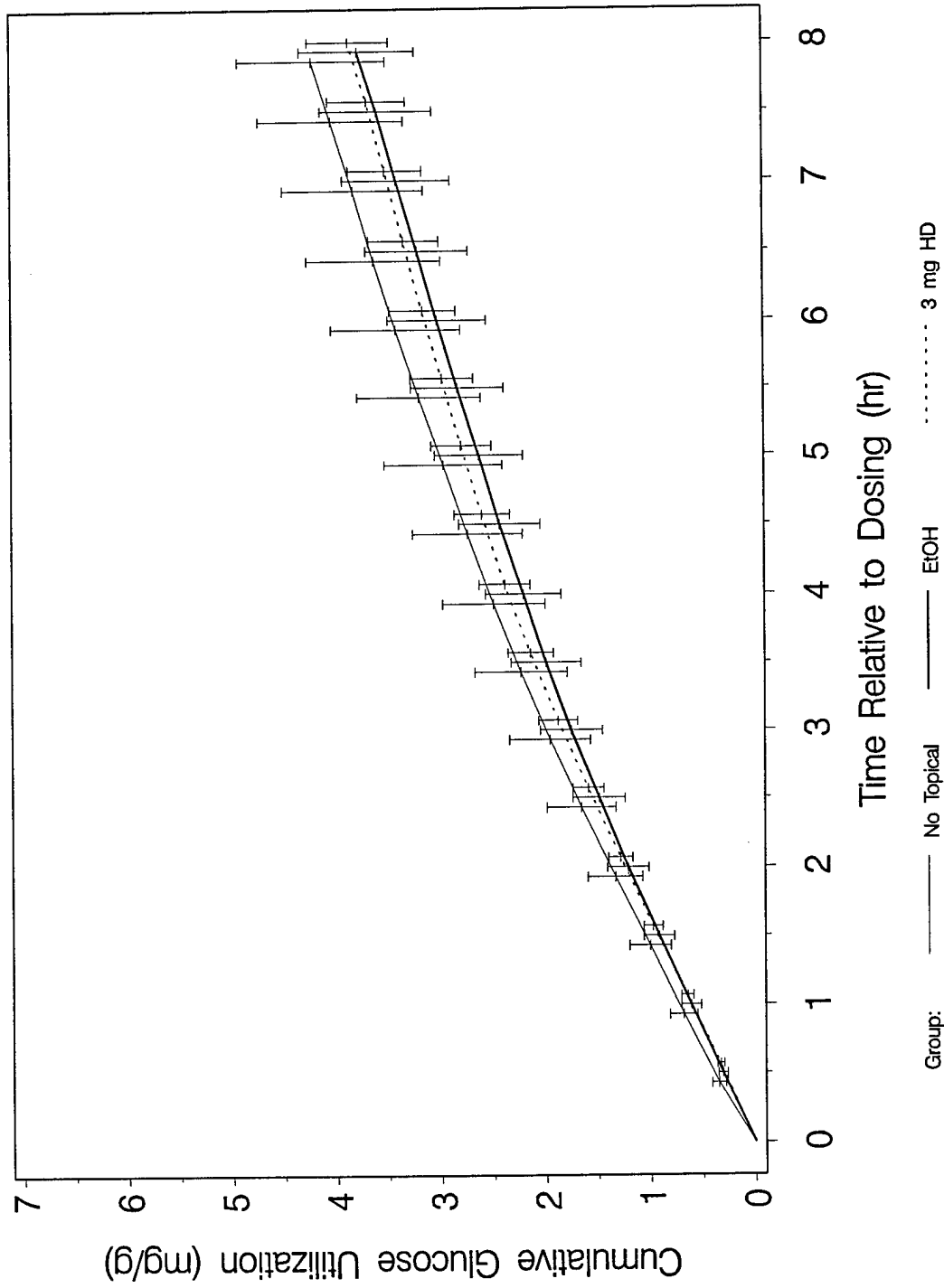


Figure 11. Vascular Resistance Averaged by Treatment Group for Flaps 2599 to 2640
(mean $\pm$ two standard errors)

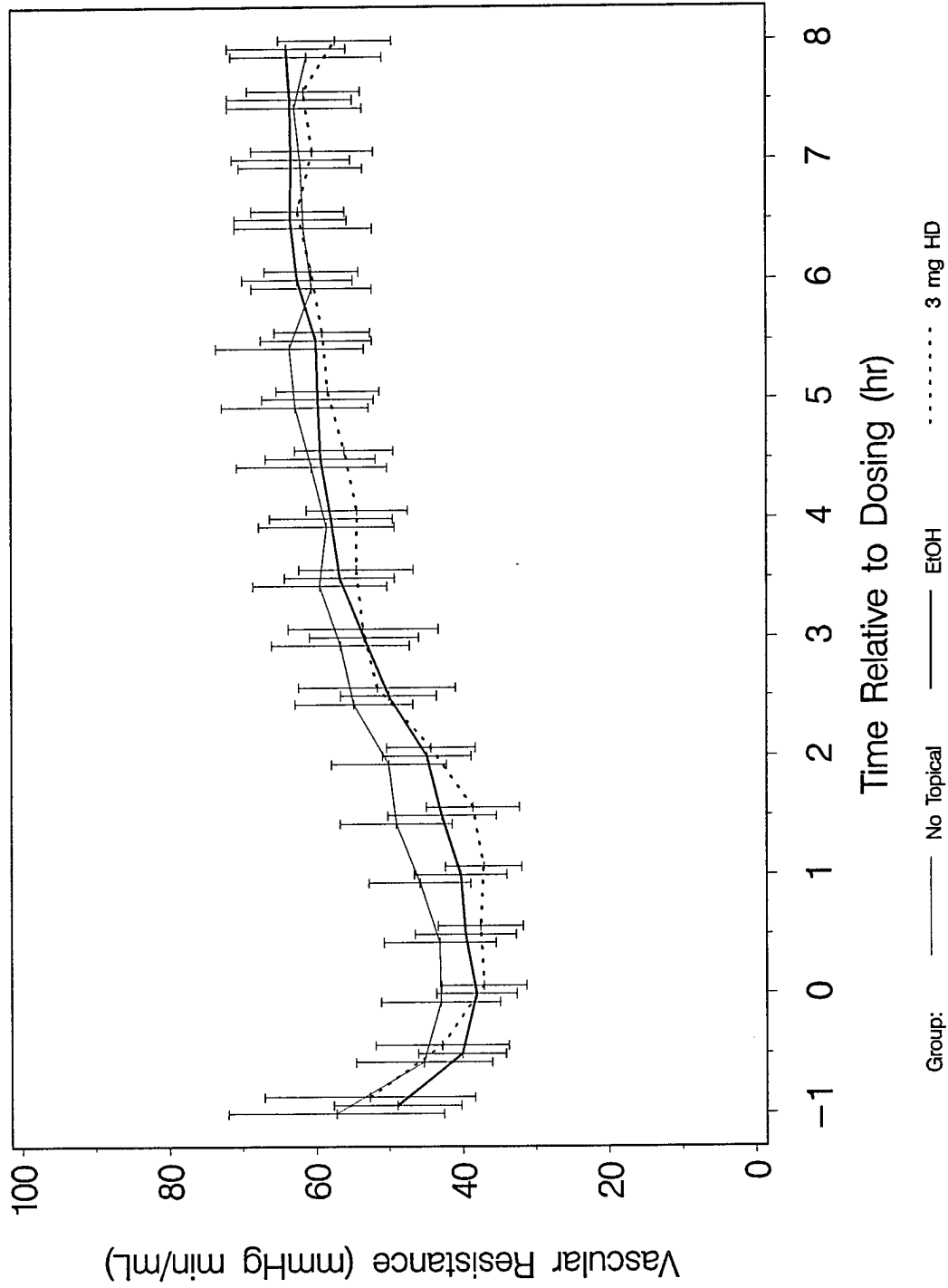


Figure 12. Vascular Resistance Normalized to $t = 0$ hr Value and Averaged by Treatment Group for Flaps 2599 to 2640
(mean $\pm$ two standard errors)

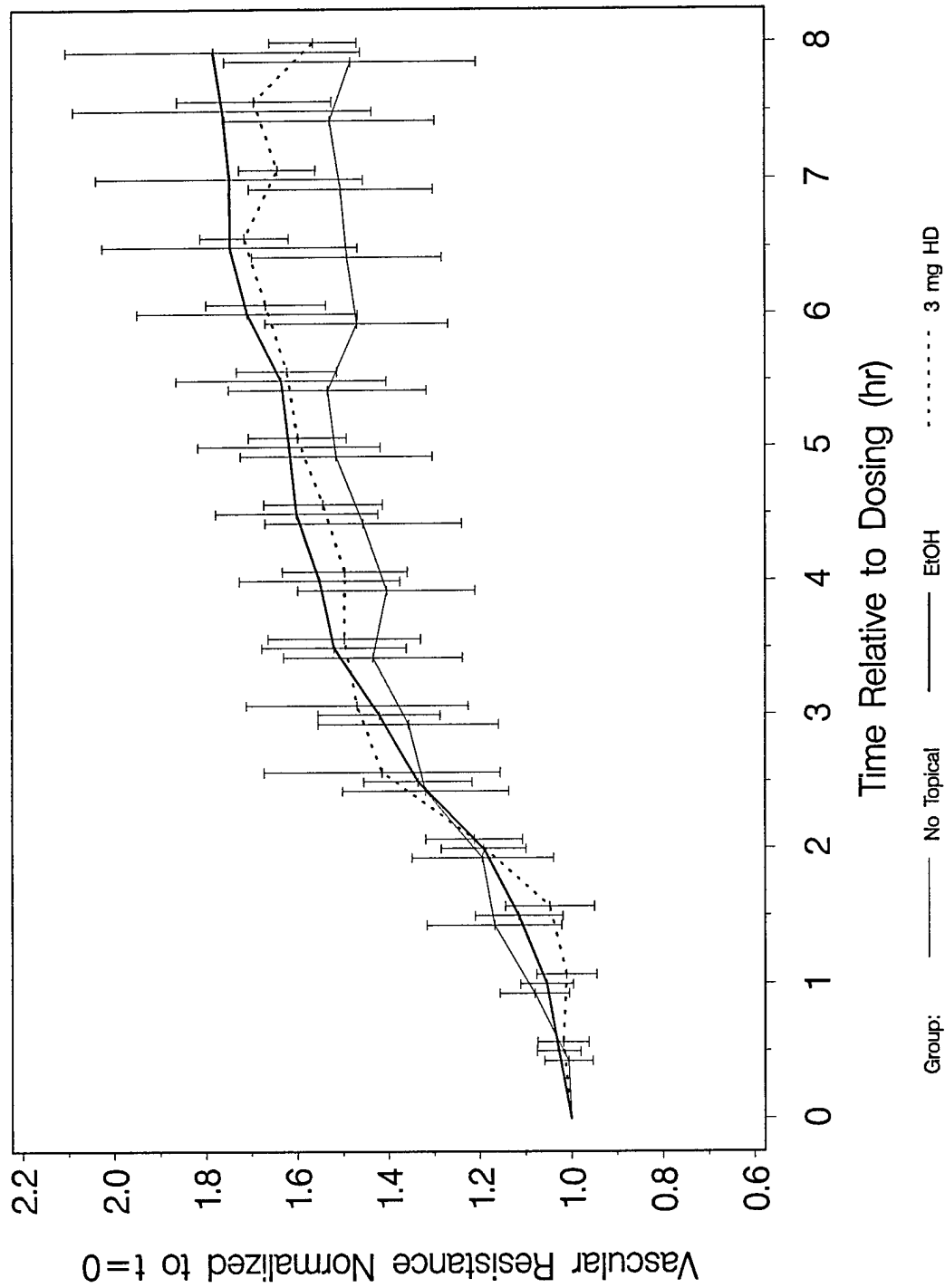


Figure 13. Glucose Utilization Averaged by Treatment Group for Flaps 2599 to 2640
(mean $\pm$ two standard errors)

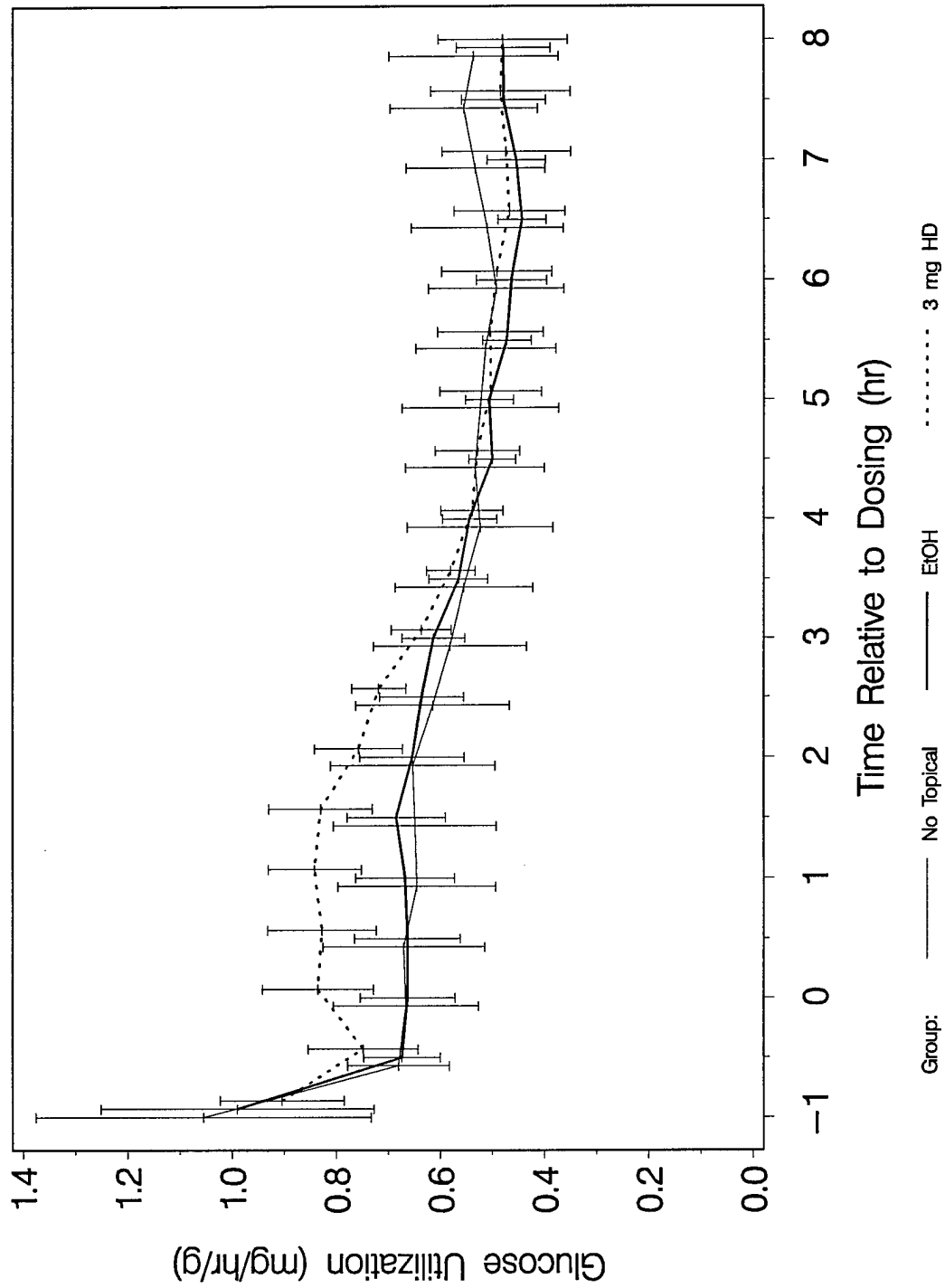
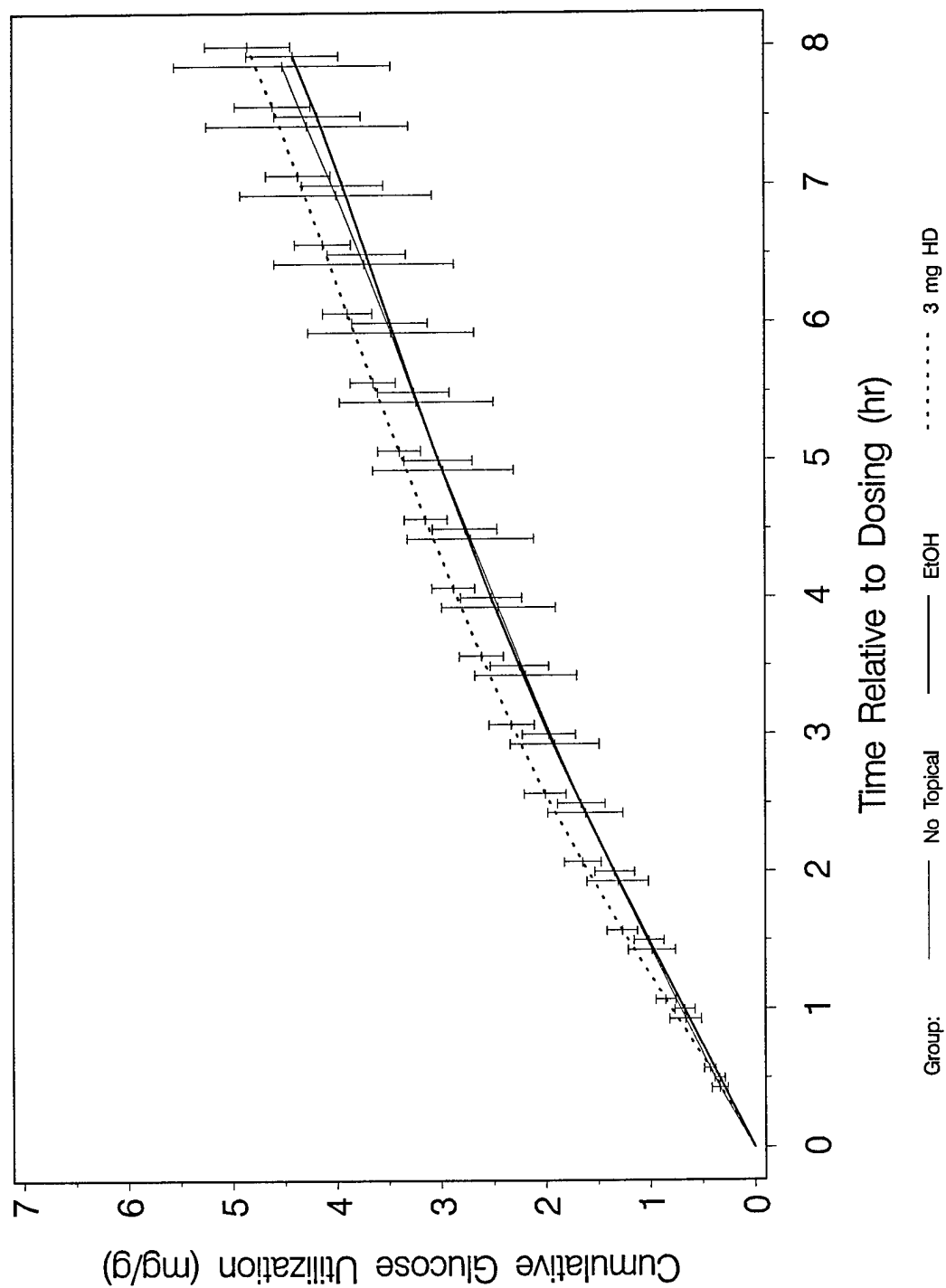


Figure 14. Cumulative Glucose Utilization Averaged by Treatment Group for Flaps 2599 to 2640
(mean $\pm$ two standard errors)



APPENDIX C
Summary Tables

**Table 1. Standard Operating Procedures (SOPs) and Methods
Used in MREF Task 92-31**

SOP No.	Method No.	Title
II-010		Standard Operating Procedure (SOP) For Application of Chemical Surety Materiel onto the Isolated Perfused Porcine Skin Flap
II-011		Standard Operating Procedure (SOP) For Cleaning the Isolated Perfused Porcine Skin Flap Apparatus
VII-023		Standard Operating Procedure (SOP) For the Surgical Preparation of the Isolated Perfused Porcine Skin Flap
	5/General	Method for pH Measurement Using the Fisher Accumet Model 955 Portable pH/mV Temperature Meter
	6/General	Method for Using the Hanna Instruments 8564 Thermo- hygrometer
	7/General	Method for Pumping Nutrient Media Through an Isolated Perfused Porcine Skin Flap with the Manostat Cassette® Pump
	8/General	Method for the Use of Matrix Quantiflex® VMC Small Animal Anesthesia Machine
	9/General	Method for the Use of the Propaq 106EL to Monitor Temperature and Invasive Pressure Within the Porcine Skin Flap Perfusion Chamber
	10/General	Method for the Preparation of Isolated Perfused Porcine Skin Flap (IPPSF) Media (2 Liters)
	11/General	Method for Operating and Maintaining the Isolated Perfused Porcine Skin Flap (IPPSF) Perfusion Chamber Heater Humidifier Unit
	13/General	Method for the Use of the Precision Systems Inc. μ - osmette™ Model 5004 Automatic Osmometer
	32/In Vitro	Preparations for Performing an Experiment with an Isolated Perfused Porcine Skin Flap

Table 2. IPPSF Perfusion Media

Component	Amount Added	Units
Cell culture water	2.00	L
NaCl	13.78	g
KCl	0.71	g
CaCl ₂	0.56	g
KH ₂ PO ₄	0.32	g
MgSO ₄ ·7H ₂ O	0.58	g
NaHCO ₃	5.5	g
Dextrose	2.4	g
Bovine Serum Albumin, Fraction V	90	g
Amikacin SO ₄	0.0625	g
The above mixture was adjusted to pH 7.4 with 0.5 N NaOH or 0.5 N HCl, filtered through glass wool, and stored in 400-mL aliquots at approximately -20 C. After thawing and mixing enough media to make a 2400-mL batch, the following components were added.		
Na Heparin	12,000	USP units
Penicillin G Sodium	30,000	USP units
The media pH was adjusted to 7.35 with 0.5 N NaOH or 0.5 N HCl.		

Table 3. List of IPPSFs Produced Under Task 92-31

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap	Stage 1 Surgery Date	Challenge Agent Dosed		
					Material Vehicle	Conc. (mg/mL)	Volume (µL) Route of Administration
2501	Shady Side	95-263-3	R	1/30/95	none	-	-
2502	Shady Side	95-263-3	L	1/30/95	none	-	-
2503	Shady Side	95-18-3	R	1/31/95	none	-	-
2504	Shady Side	95-18-3	L	1/31/95	none	-	-
2505	Shady Side	95-263-4	R	2/6/95	none	-	-
2506	Shady Side	95-263-4	L	2/6/95	none	-	-
2507	Shady Side	95-258-1	R	2/7/95	none	-	-
2508	Shady Side	95-258-1	L	2/7/95	none	-	-
2509	Shady Side	95-21-2	R	2/13/95	none	-	-
2510	Shady Side	95-21-2	L	2/13/95	none	-	-
2511	Shady Side	95-22-1	R	2/14/95	none	-	-
2512	Shady Side	95-22-1	L	2/14/95	none	-	-
2513	Shady Side	95-21-3	R	2/20/95	none	-	-
2514	Shady Side	95-21-3	L	2/20/95	none	-	-
2515	Shady Side	95-22-2	R	2/21/95	none	-	-
2516	Shady Side	95-22-2	L	2/21/95	none	-	-
2517	Shady Side	95-24-4	R	2/27/95	none	-	-
2518	Shady Side	95-24-4	L	2/27/95	none	-	-
2519	Shady Side	95-24-3		3/7/95			
2520	Shady Side	95-24-5		3/13/95			
2521	Shady Side	95-24-1	R	3/14/95	none	-	-

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed			
					Material	Vehicle	Conc. (mg/mL)	Volume (µL) Route of Administration
2522	Shady Side	95-24-1	L	3/14/95	none	-	-	-
2523	Shady Side	95-201-11	R	3/20/95	HD	Ethanol	10	300 topical
2524	Shady Side	95-201-11	L	3/20/95	HD	Ethanol	10	300 topical
2525	Shady Side	95-202-7	R	3/21/95	HD	Ethanol	10	300 topical
2526	Shady Side	95-202-7	L	3/21/95	none	Ethanol	-	300 topical
2527	Shady Side	95-206-6	R	3/27/95	HD	Ethanol	10	300 topical
2528	Shady Side	95-206-6	L	3/27/95	none	-	-	-
2529	Shady Side	95-205-6	R	3/28/95	HD	Ethanol	10	300 topical
2530	Shady Side	95-205-6	L	3/29/95	none	Ethanol	-	300 topical
2531	Shady Side	95-22-4	R	4/4/95	none	Ethanol	-	300 topical
2532	Shady Side	95-22-4	L	4/4/95	none	Ethanol	-	300 topical
2533	Shady Side	95-207-6	R	4/5/95	none	Ethanol	-	300 topical
2534	Shady Side	95-207-6	L	4/5/95	HD	Ethanol	10	300 topical
2535	Shady Side	95-1-4	R	4/11/95	none	-	-	-
2536	Shady Side	95-1-4	L	4/11/95	HD	Ethanol	50	300 topical
2537	Shady Side	95-205-7	R	4/12/95	HD	Ethanol	50	300 topical
2538	Shady Side	95-205-7	L	4/12/95	none	Ethanol	-	300 topical
2539	Shady Side	95-208-5	R	4/18/95	-	-	-	-
2540	Shady Side	95-208-5	L	4/18/95	-	Ethanol	-	300 topical
2541	Shady Side	95-212-7	R	4/19/95	HD	Ethanol	50	300 topical
2542	Shady Side	95-212-7	L	4/19/95	HD	Ethanol	50	300 topical
2543	Shady Side	95-214-11	R	4/25/95	HD	Ethanol	50	300 topical
2544	Shady Side	95-214-11	L	4/25/95	HD	Ethanol	50	300 topical

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed			
					Material Vehicle	Conc. (mg/mL)	Volume (µL)	Route of Administration
2545	Shady Side	95-209-4	R	4/26/95	-	Ethanol	300	topical
2546	Shady Side	95-209-4	L	4/26/95	-	Ethanol	300	topical
2547	Shady Side	95-223-9	R	5/2/95	none	-	-	-
2548	Shady Side	95-223-9	L	5/2/95	-	Ethanol	300	topical
2549	Shady Side	95-221-5	R	5/3/95	none	-	-	-
2550	Shady Side	95-221-5	L	5/3/95	-	Ethanol	300	topical
2551	Shady Side	95-220-7	R	5/9/95				
2552	Shady Side	95-220-7	L	5/9/95				
2553	Shady Side	95-225-6	R	5/10/95	none	-	-	-
2554	Shady Side	95-225-6	L	5/10/95	-	Ethanol	300	topical
2555	Isler Genetics	95-65-11	R	8/29/95	-	-	-	-
2556	Isler Genetics	95-65-11	L	8/29/95	-	-	-	-
2557	Isler Genetics	95-65-10	R	8/30/95	-	-	-	-
2558	Isler Genetics	95-65-10	L	8/30/95	-	-	-	-
2559	Isler Genetics	95-65-9	R	9/6/95	-	-	-	-
2560	Isler Genetics	95-65-9	L	9/6/95	-	-	-	-
2561	Isler Genetics	95-64-5	R	9/14/95	-	-	-	-
2562	Isler Genetics	95-64-5	L	9/14/95	-	-	-	-
2563	Isler Genetics	95-3-16	R	9/19/95	-	-	-	-
2564	Isler Genetics	95-3-16	L	9/19/95	-	-	-	-
2565	Isler Genetics	95-3-12	R	9/20/95				
2566	Isler Genetics	95-3-12	L	9/20/95	-	-	-	-
2567	Isler Genetics	95-11-6	R	9/26/95	-	Ethanol	300	topical

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed				
					Material	Vehicle	Conc. (mg/mL)	Volume (µL)	Route of Administration
2568	Isler Genetics	95-11-6	L	9/26/95	-	-	-	-	-
2569	Isler Genetics	95-6-7	R	9/27/95	HD	Ethanol	10	300	topical
2570	Isler Genetics	95-6-7	L	9/27/95	HD	Ethanol	10	300	topical
2571	Isler Genetics	95-15-4	R	10/3/95	-	Ethanol	-	300	topical
2572	Isler Genetics	95-15-4	L	10/3/95	HD	Ethanol	10	300	topical
2573	Isler Genetics	95-19-11	R	10/10/95	-	Ethanol	-	300	topical
2574	Isler Genetics	95-19-11	L	10/10/95	HD	Ethanol	10	300	topical
2575	Isler Genetics	95-19-13	R	10/11/95	HD	Ethanol	10	300	topical
2576	Isler Genetics	95-19-13	L	10/11/95	-	Ethanol	-	300	topical
2577	Isler Genetics	95-19-12	R	10/17/95	-	Ethanol	-	300	topical
2578	Isler Genetics	95-19-12	L	10/17/95	HD	Ethanol	10	300	topical
2579	Isler Genetics	95-21-5	R	10/18/95	HD	Ethanol	10	300	topical
2580	Isler Genetics	95-21-5	L	10/18/95	-	Ethanol	-	300	topical
2581	Isler Genetics	95-22-5	R	10/24/95	HD	Ethanol	10	300	topical
2582	Isler Genetics	95-22-5	L	10/24/95	-	Ethanol	-	300	topical
2583	Isler Genetics	95-23-4	R	10/25/95	HD	Ethanol	10	300	topical
2584	Isler Genetics	95-23-4	L	10/25/95	HD	Ethanol	10	300	topical
2585	Isler Genetics	95-23-5	R	10/31/95	HD	Ethanol	10	300	topical
2586	Isler Genetics	95-23-5	L	10/31/95	HD	Ethanol	10	300	topical
2587	Isler Genetics	95-23-7	R	11/1/95	HD	Ethanol	10	300	topical
2588	Isler Genetics	95-23-7	L	11/1/95	HD	Ethanol	10	300	topical
2589	Isler Genetics	95-26-11	R	11/7/95	-	Ethanol	-	300	topical
2590	Isler Genetics	95-26-11	L	11/7/95	HD	Ethanol	10	300	topical

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed		
					Material	Vehicle (mg/mL)	Conc. Volume (µL) Route of Administration
2591	Isler Genetics	95-26-10	R	11/8/95	HD	Ethanol	10 300 topical
2592	Isler Genetics	95-26-10	L	11/8/95	-	Ethanol	- 300 topical
2593	Isler Genetics	95-108-4	R	11/14/95	HD	Ethanol	10 300 topical
2594	Isler Genetics	95-108-4	L	11/14/95	-	Ethanol	- 300 topical
2595	Isler Genetics	95-108-6	R	11/15/95	-	Ethanol	- 300 topical
2596	Isler Genetics	95-108-6	L	11/15/95	-	-	- - topical
2597	Isler Genetics	95-36-9	R	11/21/95	-	-	- - topical
2598	Isler Genetics	95-36-9	L	11/21/95	-	Ethanol	- 300 topical
2599	Isler Genetics	95-34-12	R	11/28/95	-	-	- - topical
2600	Isler Genetics	95-34-12	L	11/28/95	-	Ethanol	- 300 topical
2601	Isler Genetics	95-34-9	R	11/29/95	-	-	- - topical
2602	Isler Genetics	95-34-9	L	11/29/95	-	Ethanol	- 300 topical
2603	Isler Genetics	95-39-15	R	12/5/95	-	-	- - topical
2604	Isler Genetics	95-39-15	L	12/5/95	-	Ethanol	- 300 topical
2605	Isler Genetics	95-39-13	R	12/6/95	-	Ethanol	- 300 topical
2606	Isler Genetics	95-39-13	L	12/6/95	-	-	- - topical
2607	Isler Genetics	95-39-14	R	12/12/95	-	-	- - topical
2608	Isler Genetics	95-39-14	L	12/12/95	-	Ethanol	- 300 topical
2609	Isler Genetics	95-35-5	R	12/13/95	-	-	- - topical
2610	Isler Genetics	95-35-5	L	12/13/95	-	Ethanol	- 300 topical
2611	Isler Genetics	96-45-6	R	1/10/96	-	-	- - topical
2612	Isler Genetics	96-45-6	L	1/10/96	-	Ethanol	- 300 topical
2613	Isler Genetics	96-45-7	R	1/16/96	-	Ethanol	- 300 topical

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed				
					Material	Vehicle	Conc. (mg/mL)	Volume (μL)	Route of Administration
2614	Isler Genetics	96-45-7	L	1/16/96	-	-	-	-	-
2615	Isler Genetics	96-47-7	R	1/17/96	-	-	-	-	-
2616	Isler Genetics	96-47-7	L	1/17/96	-	Ethanol	-	300	topical
2617	Isler Genetics	96-50-10	R	1/23/96	-	-	-	-	-
2618	Isler Genetics	96-50-10	L	1/23/96	-	Ethanol	-	300	topical
2619	Isler Genetics	96-49-12	R	1/24/96	-	Ethanol	-	300	topical
2620	Isler Genetics	96-49-12	L	1/24/96	-	-	-	-	-
2621	Isler Genetics	96-46-8	R	1/30/96	-	-	-	-	-
2622	Isler Genetics	96-46-8	L	1/30/96	-	Ethanol	-	300	topical
2623	Isler Genetics	96-51-5	R	1/31/96	-	-	-	-	-
2624	Isler Genetics	96-51-5	L	1/31/96	-	Ethanol	-	300	topical
2625	Isler Genetics	96-128-5	R	2/6/96	-	Ethanol	-	300	topical
2626	Isler Genetics	96-128-5	L	2/6/96	HD	Ethanol	10	300	topical
2627	Isler Genetics	96-128-4	R	2/7/96	HD	Ethanol	10	300	topical
2628	Isler Genetics	96-128-4	L	2/7/96	-	Ethanol	-	300	topical
2629	Isler Genetics	96-56-5	R	2/13/96	HD	Ethanol	10	300	topical
2630	Isler Genetics	96-56-5	L	2/13/96	-	Ethanol	-	300	topical
2631	Isler Genetics	96-56-4	R	2/14/96	-	-	-	-	-
2632	Isler Genetics	96-56-4	L	2/14/96	HD	Ethanol	10	300	topical
2633	Isler Genetics	96-66-11	R	2/20/96	HD	Ethanol	10	300	topical
2634	Isler Genetics	96-66-11	L	2/20/96	-	Ethanol	-	300	topical
2635	Isler Genetics	96-67-5	R	2/21/96	-	Ethanol	-	300	topical
2636	Isler Genetics	96-67-5	L	2/21/96	HD	Ethanol	10	300	topical

Table 3. List of IPPSFs Produced Under Task 92-31 (Continued)

Flap Number	Animal Supplier	Animal Number	Animal Side of Flap Origin	Stage 1 Surgery Date	Challenge Agent Dosed			
					Material	Vehicle	Conc. (mg/mL)	Volume (µL) Route of Administration
2637	Isler Genetics	96-69-11	R	3/5/96	HD	Ethanol	10	300 topical
2638	Isler Genetics	96-69-11	L	3/5/96	HD	Ethanol	10	300 topical
2639	Isler Genetics	96-69-10	R	3/6/96	HD	Ethanol	10	300 topical
2640	Isler Genetics	96-69-10	L	3/6/96	HD	Ethanol	10	300 topical

Table 4. Descriptive Statistics for Four Physiologic Parameters Used to Monitor Skin Flaps 2501 - 2554 Shady Side Swine; Media Made with Sigma BSA

Endpoint	Treatment Group	N	Time After Dosing (hr)				
			0	1	2	4	8
Vascular Resistance (mmHg·min/mL)	Untreated	5	Mean (S.D.)	Mean (S.D.)	Mean (S.D.)	Mean (S.D.)	Mean (S.D.)
	EtOH	8	52.0 (22.6)	48.6 (22.5)	52.4 (17.7)	50.8 (24.2)	57.1 (29.4)
	3 mg HD	4	44.5 (10.1)	43.9 (8.6)	48.0 (12.3)	55.8 (17.6)	54.2 (14.3)
	15 mg HD	5	49.0 (16.6)	43.7 (11.0)	48.6 (16.4)	58.5 (16.6)	53.2 (15.4)
Vascular Resistance Normalized to t=0	Untreated	5	45.2 (15.3)	44.5 (15.8)	53.2 (31.8)	57.9 (39.9)	46.4 (21.4)
	EtOH	8	1.00 (-)	0.94 (0.12)	1.08 (0.43)	0.98 (0.19)	1.14 (0.18)
	3 mg HD	4	1.00 (-)	1.00 (0.11)	1.09 (0.17)	1.26 (0.30)	1.23 (0.24)
	15 mg HD	5	1.00 (-)	0.92 (0.18)	1.00 (0.09)	1.25 (0.41)	1.14 (0.40)
Glucose Utilization (mg/hr/g)	Untreated	5	1.00 (-)	0.98 (0.06)	1.13 (0.27)	1.20 (0.38)	1.03 (0.24)
	EtOH	8	0.88 (0.22)	1.00 (0.18)	0.73 (0.16)	0.69 (0.27)	0.24 (0.24)
	3 mg HD	4	0.87 (0.15)	0.95 (0.19)	0.91 (0.14)	0.69 (0.18)	0.41 (0.12)
	15 mg HD	5	0.88 (0.26)	0.90 (0.26)	0.92 (0.14)	0.65 (0.15)	0.33 (0.13)
Cumulative Glucose Utilization (mg/g)	Untreated	5	0.65 (0.25)	0.64 (0.31)	0.63 ^{a, b} (0.26)	0.49 (0.27)	0.39 (0.21)
	EtOH	8	0.00 (-)	0.99 (0.17)	1.78 (0.12)	3.31 (0.47)	4.36 (1.25)
	3 mg HD	4	0.00 (-)	0.96 (0.19)	1.89 (0.34)	3.43 (0.55)	5.40 (0.92)
	15 mg HD	5	0.00 (-)	0.92 (0.24)	1.85 (0.39)	3.36 (0.59)	5.25 (1.22)

^a Mean is significantly less than that observed for the EtOH group ($p < 0.05$).

^b Mean is significantly less than that observed for the 3 mg HD group ($p < 0.05$).

Table 5. Descriptive Statistics for Four Physiologic Parameters Used to Monitor Skin Flaps 2555 - 2598
Isler Genetics Swine; Media Made with Sigma BSA

Endpoint	Treatment Group	N	Time After Dosing (hr)				
			0	1	2	4	8
Vascular Resistance (mmHg•min/mL)	Untreated	12	Mean (S.D.) 39.1 (9.7)	Mean (S.D.) 40.1 (9.3)	Mean (S.D.) 42.0 (11.3)	Mean (S.D.) 47.8 (15.7)	Mean (S.D.) 50.6 (20.2)
	EtOH	11	47.0 (24.2)	40.7 (13.7)	39.6 (7.0)	43.7 (8.9)	46.6 (16.2)
	3 mg HD	16	36.7 (13.2)	34.5 (13.3)	35.2 (11.7)	43.1 (11.7)	42.6 (14.5)
Vascular Resistance Normalized to t=0	Untreated	12	1.00 (-)	1.03 (0.08)	1.08 (0.19)	1.27 (0.44)	1.35 (0.54)
	EtOH	11	1.00 (-)	0.90 ^c (0.10)	0.92 ^c (0.19)	1.02 (0.25)	1.10 (0.41)
	3 mg HD	16	1.00 (-)	0.94 ^c (0.08)	0.97 (0.09)	1.24 (0.40)	1.23 (0.56)
Glucose Utilization (mg/hr/g)	Untreated	12	0.70 (0.23)	0.67 (0.24)	0.67 (0.23)	0.51 (0.18)	0.40 (0.08)
	EtOH	11	0.60 (0.13)	0.61 (0.16)	0.59 (0.17)	0.43 (0.14)	0.36 (0.11)
	3 mg HD	16	0.57 (0.19)	0.63 (0.11)	0.62 (0.14)	0.49 (0.15)	0.35 (0.09)
Cumulative Glucose Utilization (mg/g)	Untreated	12	0.00 (-)	0.68 (0.23)	1.33 (0.45)	2.48 (0.85)	4.21 (1.23)
	EtOH	11	0.00 (-)	0.61 (0.15)	1.21 (0.33)	2.20 (0.60)	3.77 (0.92)
	3 mg HD	16	0.00 (-)	0.64 (0.11)	1.28 (0.23)	2.38 (0.49)	3.86 (0.78)

^c Mean is significantly less than that observed for the untreated group (p < 0.05).

Table 6. Descriptive Statistics for Four Physiologic Parameters Used to Monitor Skin Flaps 2599 - 2640
Isler Genetics Swine; Media Made with Mallinckrodt BSA

Endpoint	Treatment Group	N	Time After Dosing (hr)				
			0	1	2	4	8
Vascular Resistance (mmHg•min/mL)	Untreated	11	Mean (S.D.) 43.0 (13.5)	Mean (S.D.) 45.8 (11.6)	Mean (S.D.) 50.0 (13.0)	Mean (S.D.) 58.5 (15.4)	Mean (S.D.) 61.2 (15.5)
	EtOH	17	Mean (S.D.) 38.1 (11.3)	Mean (S.D.) 40.2 (13.0)	Mean (S.D.) 44.8 (12.4)	Mean (S.D.) 57.9 (17.3)	Mean (S.D.) 63.9 (16.7)
	3 mg HD	10	Mean (S.D.) 37.0 (9.2)	Mean (S.D.) 37.1 (8.3)	Mean (S.D.) 44.3 (9.5)	Mean (S.D.) 54.3 (10.9)	Mean (S.D.) 57.3 (12.2)
Vascular Resistance Normalized to t=0	Untreated	11	Mean (S.D.) 1.00 (-)	Mean (S.D.) 1.08 (0.13)	Mean (S.D.) 1.19 (0.26)	Mean (S.D.) 1.40 (0.32)	Mean (S.D.) 1.48 (0.41)
	EtOH	17	Mean (S.D.) 1.00 (-)	Mean (S.D.) 1.05 (0.12)	Mean (S.D.) 1.19 (0.19)	Mean (S.D.) 1.55 (0.36)	Mean (S.D.) 1.78 (0.66)
	3 mg HD	10	Mean (S.D.) 1.00 (-)	Mean (S.D.) 1.01 (0.10)	Mean (S.D.) 1.21 (0.17)	Mean (S.D.) 1.50 (0.22)	Mean (S.D.) 1.56 (0.15)
Glucose Utilization (mg/hr/g)	Untreated	11	Mean (S.D.) 0.67 (0.23)	Mean (S.D.) 0.65 (0.25)	Mean (S.D.) 0.65 (0.26)	Mean (S.D.) 0.52 (0.23)	Mean (S.D.) 0.54 (0.26)
	EtOH	17	Mean (S.D.) 0.66 (0.19)	Mean (S.D.) 0.67 (0.20)	Mean (S.D.) 0.65 (0.21)	Mean (S.D.) 0.54 (0.11)	Mean (S.D.) 0.48 (0.19)
	3 mg HD	10	Mean (S.D.) 0.84 (0.17)	Mean (S.D.) 0.84 (0.14)	Mean (S.D.) 0.76 (0.13)	Mean (S.D.) 0.54 (0.10)	Mean (S.D.) 0.48 (0.20)
Cumulative Glucose Utilization (mg/g)	Untreated	11	Mean (S.D.) 0.00 (-)	Mean (S.D.) 0.66 (0.25)	Mean (S.D.) 1.31 (0.49)	Mean (S.D.) 2.45 (0.91)	Mean (S.D.) 4.51 (1.72)
	EtOH	17	Mean (S.D.) 0.00 (-)	Mean (S.D.) 0.67 (0.20)	Mean (S.D.) 1.34 (0.39)	Mean (S.D.) 2.52 (0.61)	Mean (S.D.) 4.41 (0.91)
	3 mg HD	10	Mean (S.D.) 0.00 (-)	Mean (S.D.) 0.85 (0.16)	Mean (S.D.) 1.64 (0.28)	Mean (S.D.) 2.88 (0.33)	Mean (S.D.) 4.85 (0.65)

Table 7. Incidence Rates of Histopathologic Endpoints for Flaps Perfused with Media Made with Bovine Serum Albumin from Two Sources

Tissue Type	Treatment	Epidermal- Dermal Separation	Intracellular Edema	Intercellular Edema	Dark Basal Cells	Sample Size
Media Made with Sigma BSA						
Pig Skin at Stage 1 Surgery	None	0.00	0.00	0.00	0.00	22
Flap	Untreated	0.80	0.90	0.20	0.10	10
Flap	Ethanol, 300 µL	0.29	0.86	0.29	0.00	7
Flap	XHD, 3 mg	0.29	0.86	0.29	0.14	14
Media Made with Mallinckrodt BSA						
Pig Skin at Stage 1 Surgery	None	0.00	0.00	0.00	0.00	15
Flap	Untreated	0.58	0.67	0.08	0.08	12
Flap	Ethanol, 300 µL	0.61	0.83	0.17	0.33	18
Flap	XHD, 3 mg	0.71	0.75	0.13	0.50	8*

*Epidermal-dermal separation was scored as a "2" for one specimen in this treatment group.

**Table 8. Comparison of Incidence Rates of Histopathological Endpoints
Between Selected Pairs of Treatment Groups**

Pair of Treatment Groups Compared	Source of BSA Used in Perfusion Media	Histopathological Endpoint	Incidence Rate, Group 1	Incidence Rate, Group 2	Fisher's Exact Test Comparing Groups (p-value)
Group 1: Stage 1-Sampled Normal Pig Skin Group 2: Untreated Flaps	Sigma	Epidermal-dermal Separation	0/22	8/10	<0.001
		Intracellular Edema	0/22	9/10	<0.001
		Intercellular Edema	0/22	2/10	0.091
		Dark Basal Cells	0/22	1/10	0.312
	Mallinckrodt	Epidermal-dermal Separation	0/15	7/12	<0.001
		Intracellular Edema	0/15	8/12	<0.001
		Intercellular Edema	0/15	1/12	0.444
		Dark Basal Cells	0/15	1/12	0.444
Group 1: Untreated Flaps Group 2: Ethanol, 300 µL	Sigma	Epidermal-dermal Separation	8/10	2/7	0.058
		Intracellular Edema	9/10	6/7	1.000
		Intercellular Edema	2/10	2/7	1.000
		Dark Basal Cells	1/10	0/7	1.000
	Mallinckrodt	Epidermal-dermal Separation	7/12	11/18	1.000
		Intracellular Edema	8/12	15/18	0.392
		Intercellular Edema	1/12	3/18	0.632
		Dark Basal Cells	1/12	6/18	0.193
Group 1: Ethanol, 300 µL Group 2: HD, 3 mg	Sigma	Epidermal-dermal Separation	2/7	4/14	1.000
		Intracellular Edema	6/7	12/14	1.000
		Intercellular Edema	2/7	4/14	1.000
		Dark Basal Cells	0/7	2/14	0.533
	Mallinckrodt	Epidermal-dermal Separation	11/18	5/7	1.000
		Intracellular Edema	15/18	6/8	0.628
		Intercellular Edema	3/18	1/8	1.000
		Dark Basal Cells	6/18	4/8	0.664

Epidermal-dermal separation was scored as a "2" for one specimen in this treatment group.

Table 9. Comparison of Incidence Rates of Frank Blisters on Flaps from Three Sets of Experiments

Pair of Treatment Groups Compared	Flap Set	Source of Swine	Source of BSA Used in Perfusion Media	Incidence Rate, Group 1	Incidence Rate, Group 2	Fisher's Exact Test Comparing Groups (p-value)
Group 1: Untreated Flaps	2501 to 2554	Shady Side Farms	Sigma	0/5	0/9	1.000
	2555 to 2598	Isler Genetics	Sigma	0/14	2/12	0.203
	2599 to 2640	Isler Genetics	Mallinckrodt	5/14	7/18	1.000
Group 1: Ethanol, 300 μ L	2501 to 2554	Shady Side Farms	Sigma	0/9	0/4	1.000
	2555 to 2598	Isler Genetics	Sigma	2/12	0/17	0.163
	2599 to 2640	Isler Genetics	Mallinckrodt	7/18	3/10	0.703
Group 1: Ethanol, 300 μ L	2501 to 2554	Shady Side Farms	Sigma	0/9	0/5	1.000
	2555 to 2598	Isler Genetics	Sigma	NA	NA	NA
	2599 to 2640	Isler Genetics	Mallinckrodt	NA	NA	NA

NA = not available; 15 mg doses of HD were administered to the first set of flaps only.

Note: when blister rates were compared for the effect of the type of BSA used in the media, the incidence for Mallinckrodt BSA was significantly greater than for Sigma BSA in untreated flaps (5/14 versus 0/14, respectively, $p = 0.041$) and in 3 mg of HD-treated flaps (3/10 versus 0/17, respectively, $p = 0.041$), but not for ethanol-treated flaps (7/18 versus 2/12, respectively, $p = 0.249$).

APPENDIX D
NCSU-CPTC Report

Report on Phase I and Phase II of Battelle IPPSF Perfusion

August 4, 1995

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Report on Phase I and Phase II of Battelle IPPSF Perfusion

Selection Process:

We eliminated IPPSF #'s 2501, 02 because there were no pressure readings. Figure 1 shows vascular resistance profiles for 44 Battelle IPPSFs. The plots in red are skin flaps run before March 14, 1995, when Jim Brooks visited MREF, and those in green are after March 14, 1995. We selected only skin flaps run after this visit since several suggestions were made that would have influenced the "art" of IPPSF perfusion. We eliminated IPPSFs 2503 through 2518 on this basis--the importance of attaining a low pressure was not fully realized. About 25% (12 of 44) of the skin flaps were eliminated from analysis due to the presence of RBC's in the histology samples. We hypothesize that the RBC's are present due to incomplete perfusion of the skin flaps--possibly a result of using a more viscous flushing solution (i.e. Dulbecco's medium) or due to cannulation of a smaller artery. The IPPSFs that were eliminated due to RBC's are 2513, 14, 15, 17, 23, 26, 28, 29, 32, 37, 38, and 54. Table 1 lists the 22 Battelle IPPSFs that were selected for comparison against the CPTC IPPSFs. All CPTC skin flaps that fit the "normal" protocol were used for comparison--that is, 8 hour perfusion, 1 ml/min flow rate, 120 mg/dl glucose concentration. All treated groups and controls were then compared.

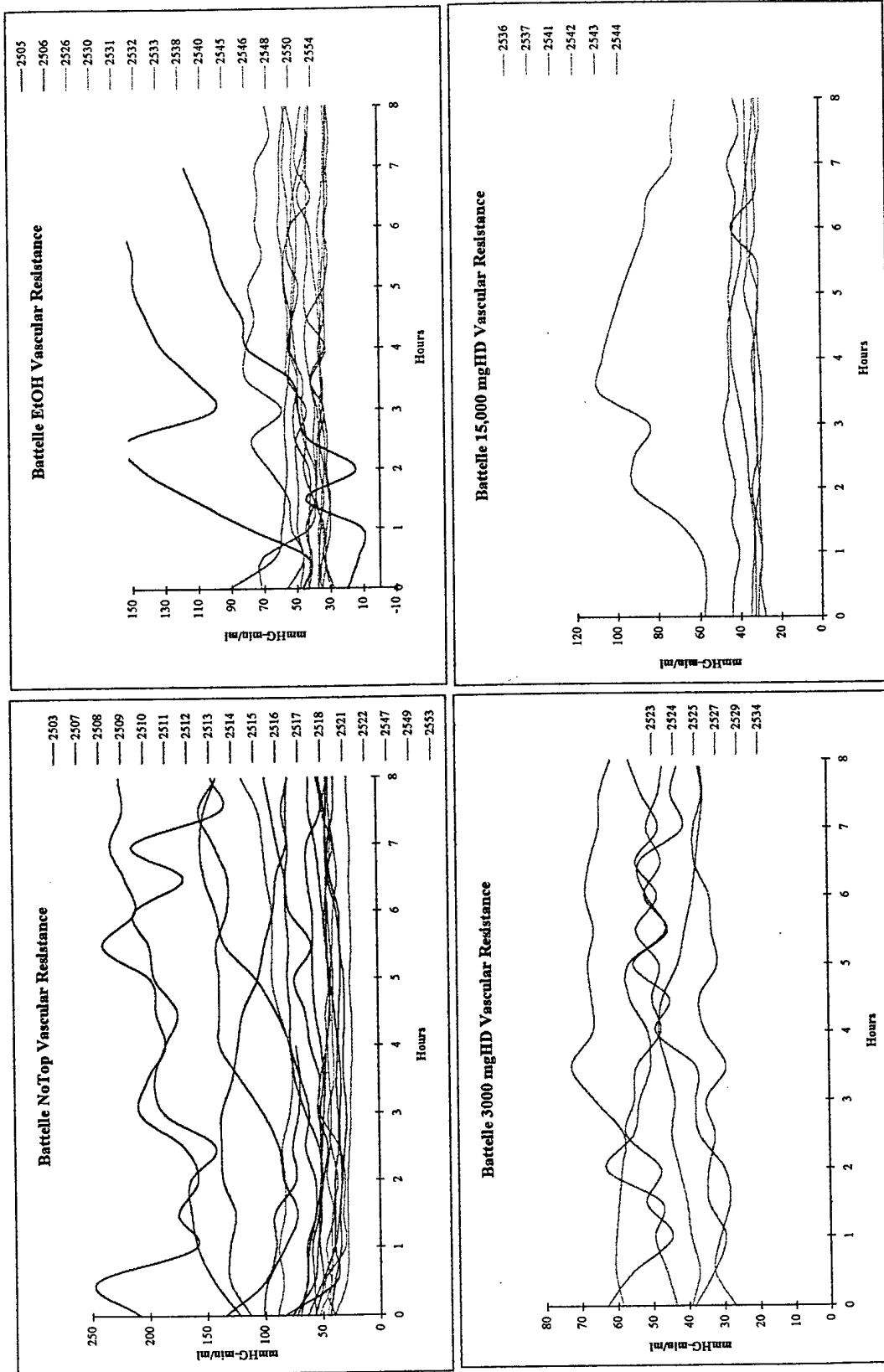


Figure 1

Battelle Vascular Resistance Before and After 3/14/95

BEFORE MARCH 14, 1995

AFTER MARCH 14, 1995

Table 1

Selection Process for Battelle IPPSF's

Date	IPPSF#	Dose	Selection
1-Feb	2501	NoTop	No pressure readings
1-Feb	2502	NoTop	No pressure readings
2-Feb	2503	NoTop	High pressure readings prior to 3/14/95
2-Feb	2504	aborted	Aborted--poor artery integrity
8-Feb	2505	EtOH	High pressure readings prior to 3/14/95
8-Feb	2506	EtOH	High pressure readings prior to 3/14/95
9-Feb	2507	NoTop	High pressure readings prior to 3/14/95--GU=0.
9-Feb	2508	NoTop	High pressure readings prior to 3/14/95
15-Feb	2509	NoTop	High pressure readings prior to 3/14/95
15-Feb	2510	NoTop	High pressure readings prior to 3/14/95--pH=7.66 at 15 min.
16-Feb	2511	NoTop	High pressure readings prior to 3/14/95
16-Feb	2512	NoTop	Prior to 3/14/95
22-Feb	2513	NoTop	RBC's seen in histology samples
22-Feb	2514	NoTop	RBC's seen in histology samples--GU=0.
23-Feb	2515	NoTop	RBC's seen in histology samples
23-Feb	2516	NoTop	Prior to 3/14/95--pH=7.18 at 15 min.
1-Mar	2517	NoTop	RBC's seen in histology samples
1-Mar	2518	NoTop	Prior to 3/14/95--pH=7.21 at 3 hr.
7-Mar	2519	aborted	Pig died
8-Mar	2520	aborted	Pig died
16-Mar	2521	NoTop	SELECTED
16-Mar	2522	NoTop	SELECTED
22-Mar	2523	3000 ug HD	RBC's seen in histology samples
22-Mar	2524	3000 ug HD	SELECTED
23-Mar	2525	3000 ug HD	SELECTED
23-Mar	2526	EtOH	RBC's seen in histology samples
29-Mar	2527	3000 ug HD	SELECTED
29-Mar	2528	NoTop	Catheter came out--RBC's seen in histology samples
30-Mar	2529	3000 ug HD	RBC's seen in histology samples
30-Mar	2530	EtOH	SELECTED
5-Apr	2531	EtOH	SELECTED
5-Apr	2532	EtOH	RBC's seen in histology samples
6-Apr	2533	EtOH	SELECTED
6-Apr	2534	3000 ug HD	SELECTED
12-Apr	2535	NoTop	Perfusion stopped--low glucose, high pressure
12-Apr	2536	15000 ug HD	SELECTED
13-Apr	2537	15000 ug HD	RBC's seen in histology samples
13-Apr	2538	EtOH	RBC's seen in histology samples
19-Apr	2539	NoTop	Perfusion stopped--low glucose, high pressure
19-Apr	2540	EtOH	SELECTED
20-Apr	2541	15000 ug HD	SELECTED
20-Apr	2542	15000 ug HD	SELECTED
26-Apr	2543	15000 ug HD	SELECTED
26-Apr	2544	15000 ug HD	SELECTED
27-Apr	2545	EtOH	SELECTED
27-Apr	2546	EtOH	SELECTED
3-May	2547	NoTop	SELECTED
3-May	2548	EtOH	SELECTED
4-May	2549	NoTop	SELECTED
4-May	2550	EtOH	SELECTED
10-May	2551	aborted	Aborted--poor artery integrity
10-May	2552	aborted	Aborted--poor artery integrity
11-May	2553	NoTop	SELECTED
11-May	2554	EtOH	RBC's seen in histology samples

Flow rates:

Figures 2 and 3 are CPTC flow rates for all treatments. Compare these to Figures 4 and 5 of the same data for Battelle. The primary impression is that independent of the magnitude of the flow rate, CPTC flow rates remain constant as evidenced by flatter and smoother flow profiles.

An analysis of variance (ANOVA) was performed on the Battelle vs CPTC flow rates. First we calculated the coefficient of variance ($CV = SEM/Mean \text{ flow rate}$) for each of the 22 Battelle and 36 CPTC IPPSFs. Then we ran an analysis of this variance for each dose group and another for just Battelle vs CPTC. The mean CV for each Battelle dose group is higher than each CPTC dose group ($P = 0.0779$), although not significantly different. The comparison of the CV of all the Battelle flow rates to the CV of all the CPTC flow rates is significantly different ($P = 0.0012$). We performed the ANOVA with Microsoft Excel and with SAS (SAS Institute, Cary NC). The results were the same. Table 2 lists the results of the ANOVA performed by Microsoft Excel. Appendix A(1) is a printout of the ANOVA performed by SAS on the flow rate CVs. Three Battelle IPPSFs (2534, 2542, and 2543) assumed a constant flow rate, which resulted in a CV of zero. These were not used in the ANOVA for flow rate. Column two (T-Grouping) of the ANOVA section of Table 2 is the results of T-Test (LSD) grouping. Groups with like letters are from the same population, those with differing letters are from different populations ($P = 0.05$). Note that the mean flow rate from Battelle no-topical-dose controls is different from all mean flow rates for CPTC. Mean CVs from all Battelle flow rates are significantly higher compared to all the mean flow rate CVs from CPTC ($P = 0.0012$)

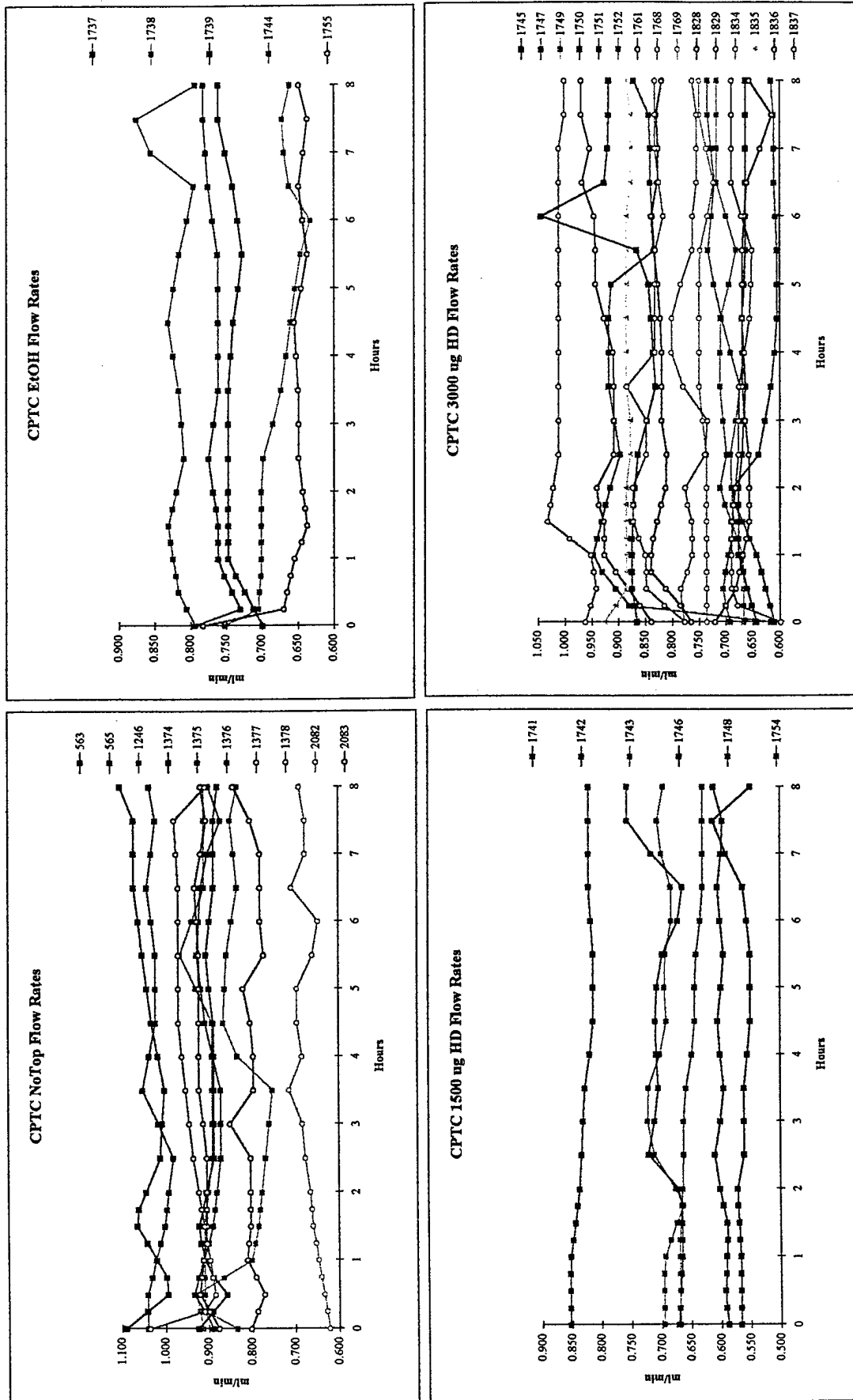


Figure 2
CPTC Individual Flow Rates

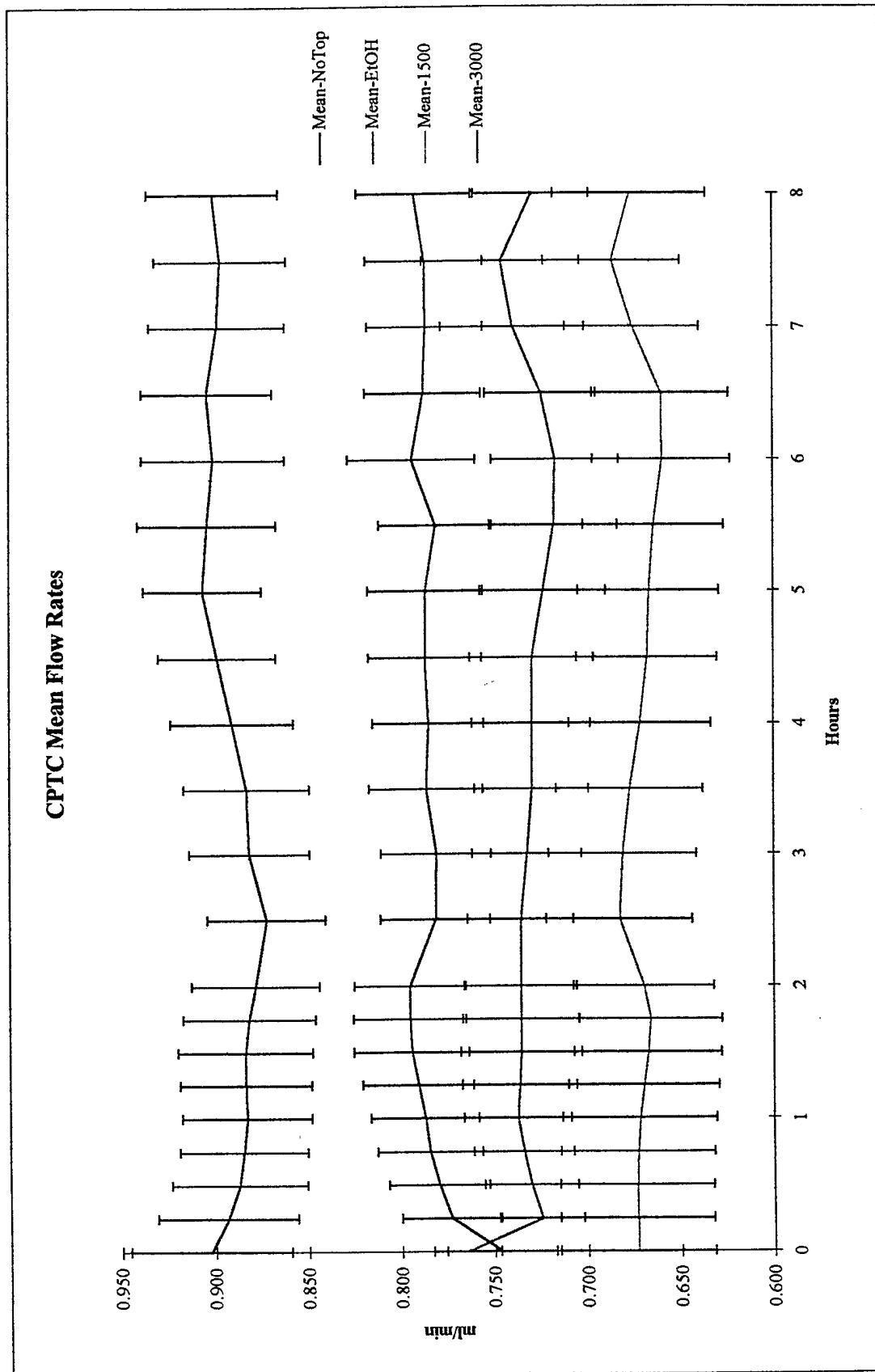


Figure 3
CPTC Mean Flow Rates

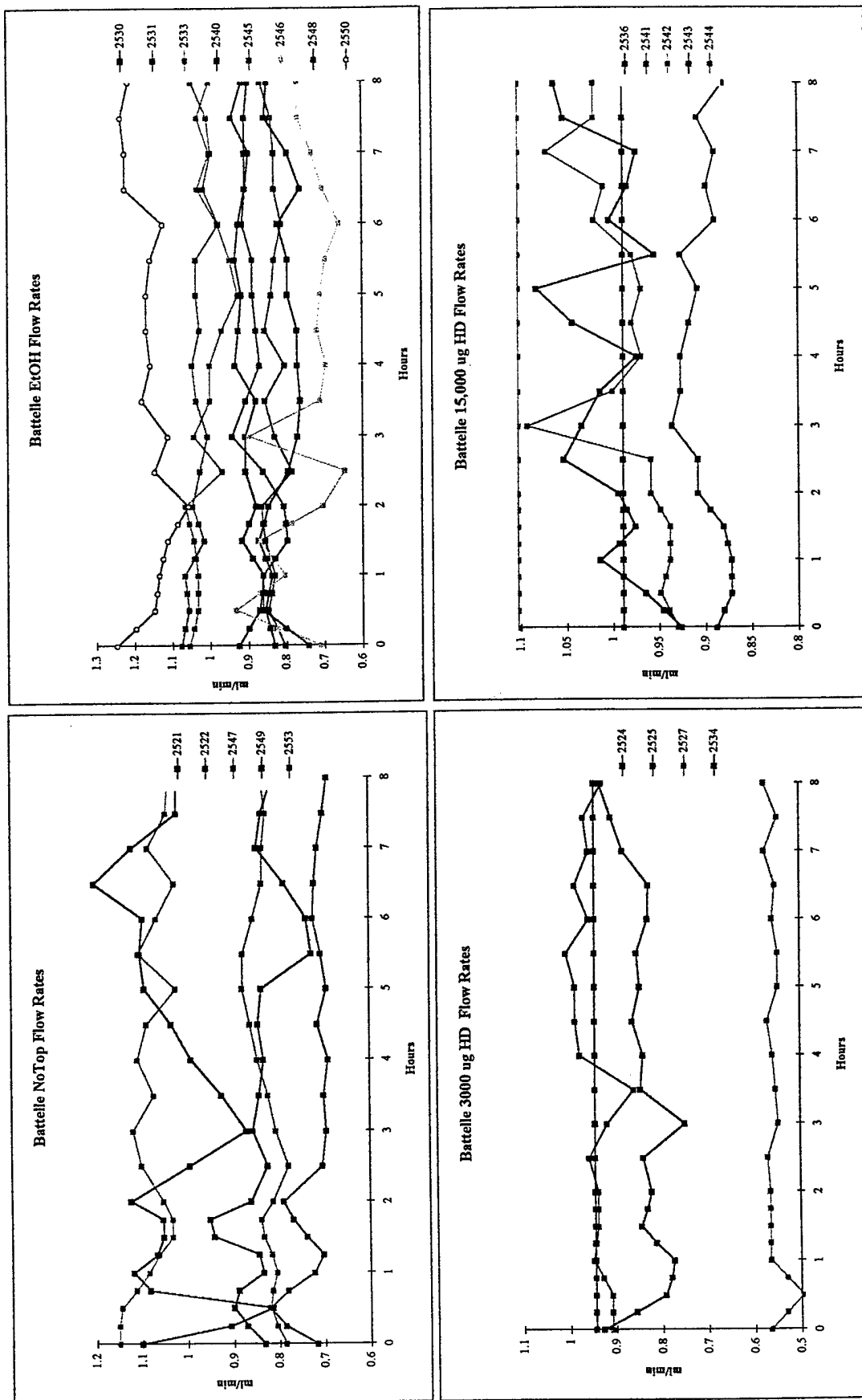


Figure 4
Battelle Individual Flow Rates

IPPSF 2534, 2542, and 2543 had estimated flow rates—problems with flowmeter calibration.

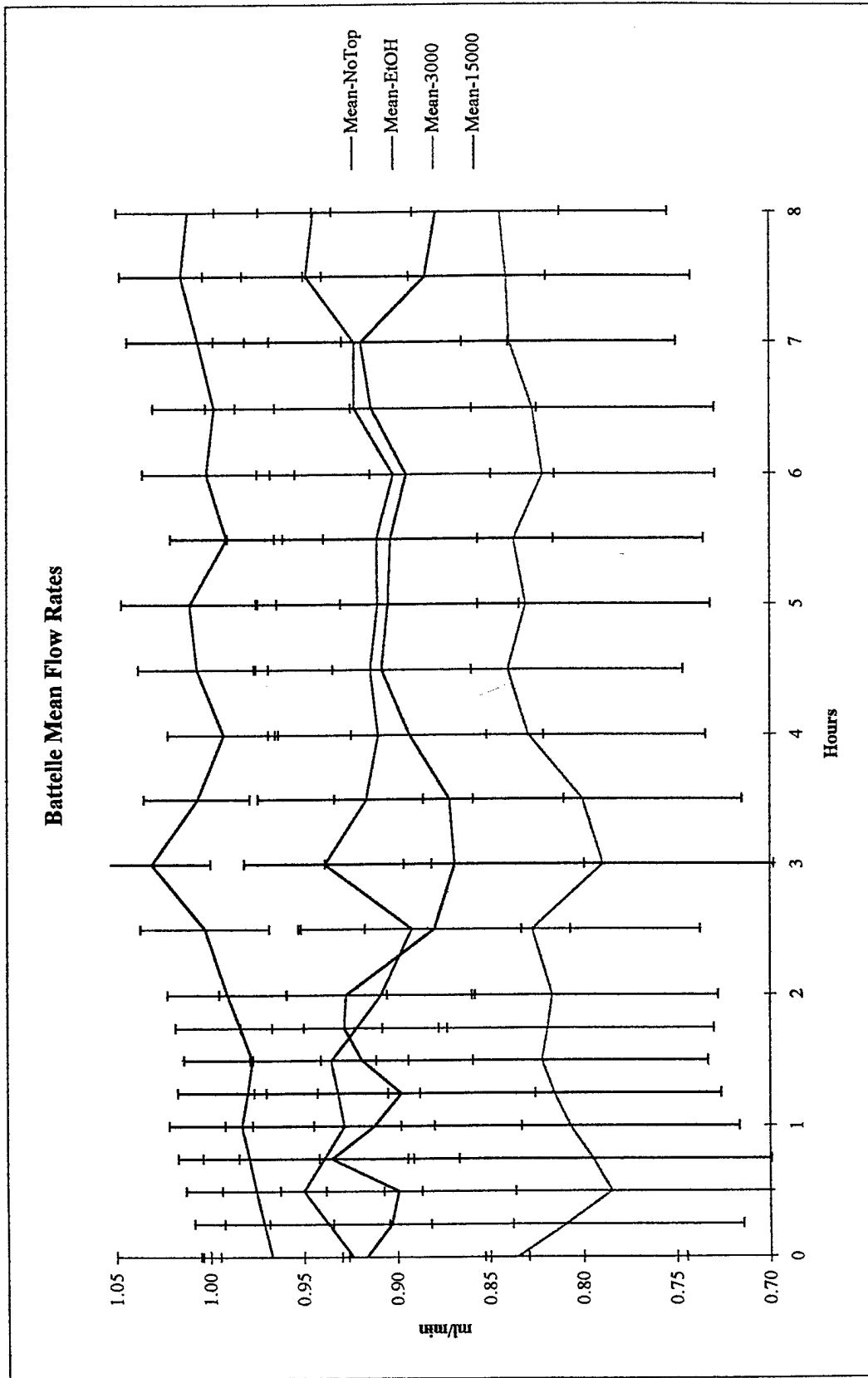


Figure 5
Battelle Mean Flow Rates

Table 2
FLOW RATE

CPTC vs Battelle Flow Rate Coefficient of Variance

CPTC

Battelle

IPPSF#	DOSE	C of V	IPPSF#	DOSE	C of V
2521	B-NoTop	0.0139	563	C-NoTop	0.0065
2522	B-NoTop	0.0115	565	C-NoTop	0.0039
2547	B-NoTop	0.0083	1246	C-NoTop	0.0137
2549	B-NoTop	0.0199	1374	C-NoTop	0.0038
2553	B-NoTop	0.0069	1375	C-NoTop	0.0048
			1376	C-NoTop	0.0057
			1377	C-NoTop	0.0029
			1378	C-NoTop	0.0088
			2082	C-NoTop	0.0084
			2083	C-NoTop	0.0054
MEAN		0.0121			0.0064
SEM		0.0023			0.0010
2530	B-EtOH	0.0099	1737	C-EtOH	0.0040
2531	B-EtOH	0.0056	1738	C-EtOH	0.0086
2533	B-EtOH	0.0082	1739	C-EtOH	0.0044
2540	B-EtOH	0.0053	1744	C-EtOH	0.0051
2545	B-EtOH	0.0053	1755	C-EtOH	0.0102
2546	B-EtOH	0.0232			
2548	B-EtOH	0.0132			
2550	B-EtOH	0.0095			
MEAN		0.0100			0.0065
SEM		0.0021			0.0012
2524	B3000	0.0121	1745	C3000	0.0115
2525	B3000	0.0079	1747	C3000	0.0090
2527	B3000	0.0073	1749	C3000	0.0061
2534	B3000	0	1750	C3000	0.0027
			1751	C3000	0.0176
			1752	C3000	0.0060
			1761	C3000	0.0068
			1768	C3000	0.0070
			1769	C3000	0.0023
			1828	C3000	0.0080
			1829	C3000	0.0062
			1834	C3000	0.0049
			1835	C3000	0.0026
			1836	C3000	0.0047
			1837	C3000	0.0063
MEAN		0.0091			0.0068
SEM		0.0029			0.0010
2536	B15000	0.0090	1741	C1500	0.0025
2541	B15000	0.0050	1742	C1500	0.0039
2542	B15000	0	1743	C1500	0.0045
2543	B15000	0	1746	C1500	0.0057
2544	B15000	0.0101	1748	C1500	0.0094
			1754	C1500	0.0053
MEAN		0.0080			0.0052
SEM		0.0016			0.0010

Note: IPPSFs 2534, 2542, and 2543 assumed linear flow rates. These were not used in the calculation of the means or the analysis of variance.

Analysis of Variance

All Groups

ANOVA: Single Factor						
SUMMARY	Groups	T-Grouping	Count	Sum	Average	Variance
	B-NoTop	A	5	0.0604	0.0121	0.000027
	B-EtOH	AB	8	0.0802	0.0100	0.000036
	B3000	AB	3	0.0274	0.0091	0.000007
	B15000	AB	3	0.0241	0.0080	0.000007
	C-NoTop	B	10	0.0640	0.0064	0.000010
	C-EtOH	B	5	0.0323	0.0065	0.000008
	C1500	B	6	0.0313	0.0052	0.000005
	C3000	B	15	0.1017	0.0068	0.000015
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.00022	7	0.00003	1.9805	0.0779	2.2118
Within Groups	0.00075	47	0.00002			
Total	0.0010	54				

CPTC vs Battelle

ANOVA: Single Factor

SUMMARY	Groups	T-Grouping	Count	Sum	Average	Variance
	Battelle	A	19	0.1921	0.0101	0.000023
	CPTC	B	36	0.2293	0.0064	0.000011
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.0002	1	0.00017	11.6488	0.0012	4.0230
Within Groups	0.0008	53	0.00001			
Total	0.0010	54				

Vascular Resistance:

Figure 6 and 7 demonstrate the analysis of CPTC vascular resistance (VR) profiles, demonstrating a previously documented dose response increase in VR with HD. Figures 8 and 9 represent the identical treatment of Battelle data. Note the individual variations, lack of a consistent within-treatment profile shape, and lack of a between-treatment dose response. This can be seen especially well in Figures 7b and 9b, where the treated Battelle IPPSF shapes do not differ from the controls. The normal analysis used by CPTC is to assess treatment changes in VR normalized by the initial value. However, this assumes similar shape profiles within a treatment and just improves the statistical power of the study. This analysis worsened the Battelle data and thus for clarity, we elected to use the raw data to illustrate protocol and technique defects. Note the overall higher VR (2X) in Battelle vs CPTC no-topical-dose controls. Also, unlike CPTC, the variance of the VR (see error bars) increases over the course of the experiment in these control flaps. This is a serious concern since it suggests the control preparation is not "normal" and thus would not be expected to biologically respond to treatments in a normal behavior. Unfortunately, this is what happened.

Table 3a lists the VR CV and the results of ANOVA. Note that the CPTC vascular resistance is significantly higher ($P = 0.0001$) than the Battelle VR CV. This result is confirmed by SAS ANOVA (see Appendix A(2a)). This is due to the increase in VR over time for CPTC flaps, and the lack of this increase in Battelle flaps. Table 3b lists the VR regression R^2 measures and the ANOVA results. The means of the R^2 for CPTC is significantly closer to 1 than is the Battelle R^2 , suggesting a better fit to the linear regression analysis for CPTC flaps. This emphasizes the inconsistency of the flow rates seen in the Battelle data, which makes its use as a parameter of toxicologic effect problematic.

There is one consistent hypothesis that may explain the abnormal VR profiles seen in the control Battelle IPPSFs (and thus the treated ones). We know that there is a certain amount of time required for VR to reach an equilibrium which is associated with a concomitant swelling of the flap. We have had problems in the past when the Stomahesive templates were applied *prior* to this swelling since constriction results. This is a deviation from the CPTC protocol and may be a significant problem.

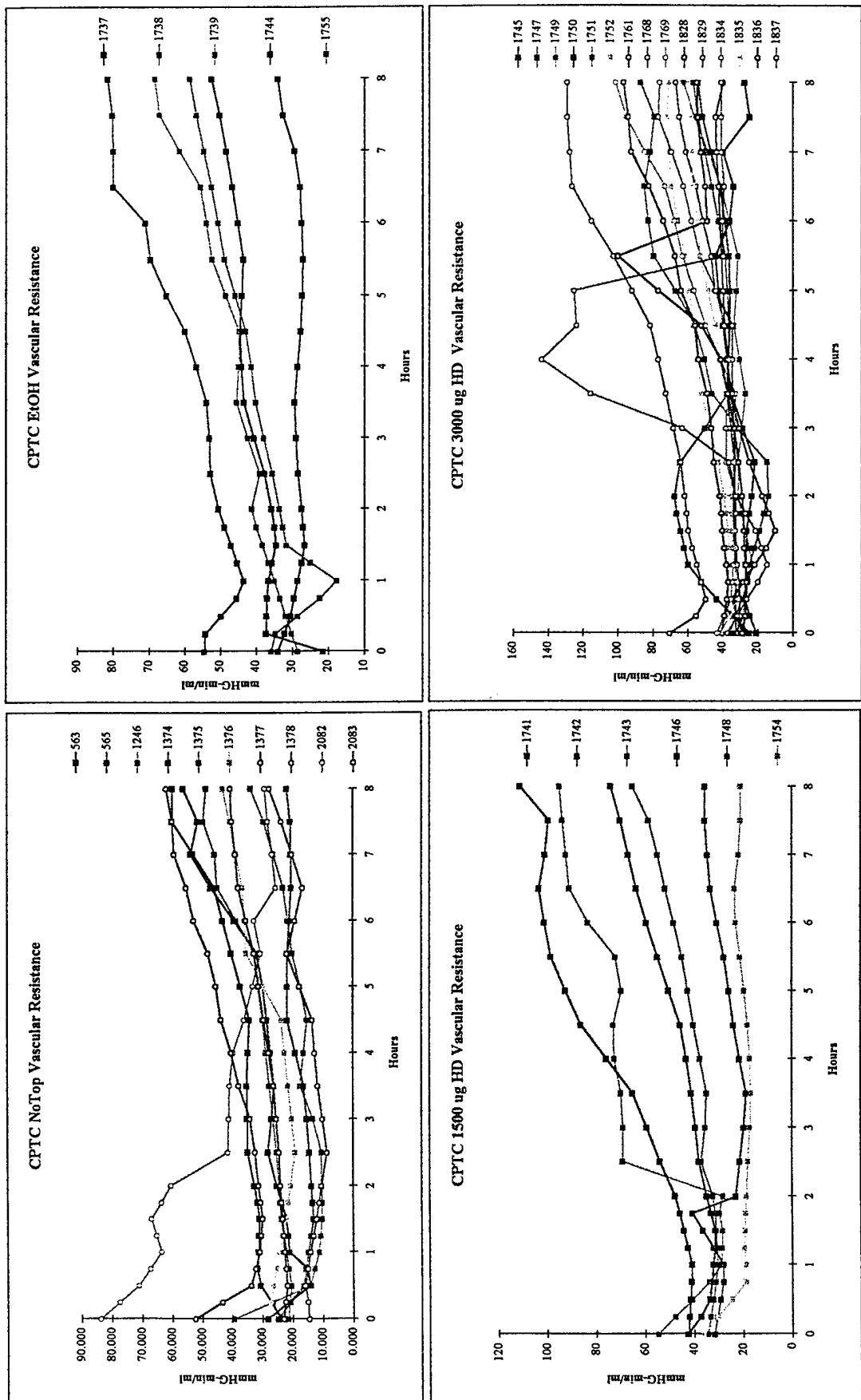


Figure 6
 CPTC Individual Vascular Resistance
 Adjustments were made in the catheter position in IPPSFs 1836 and 1837 to allow a drop in pressure

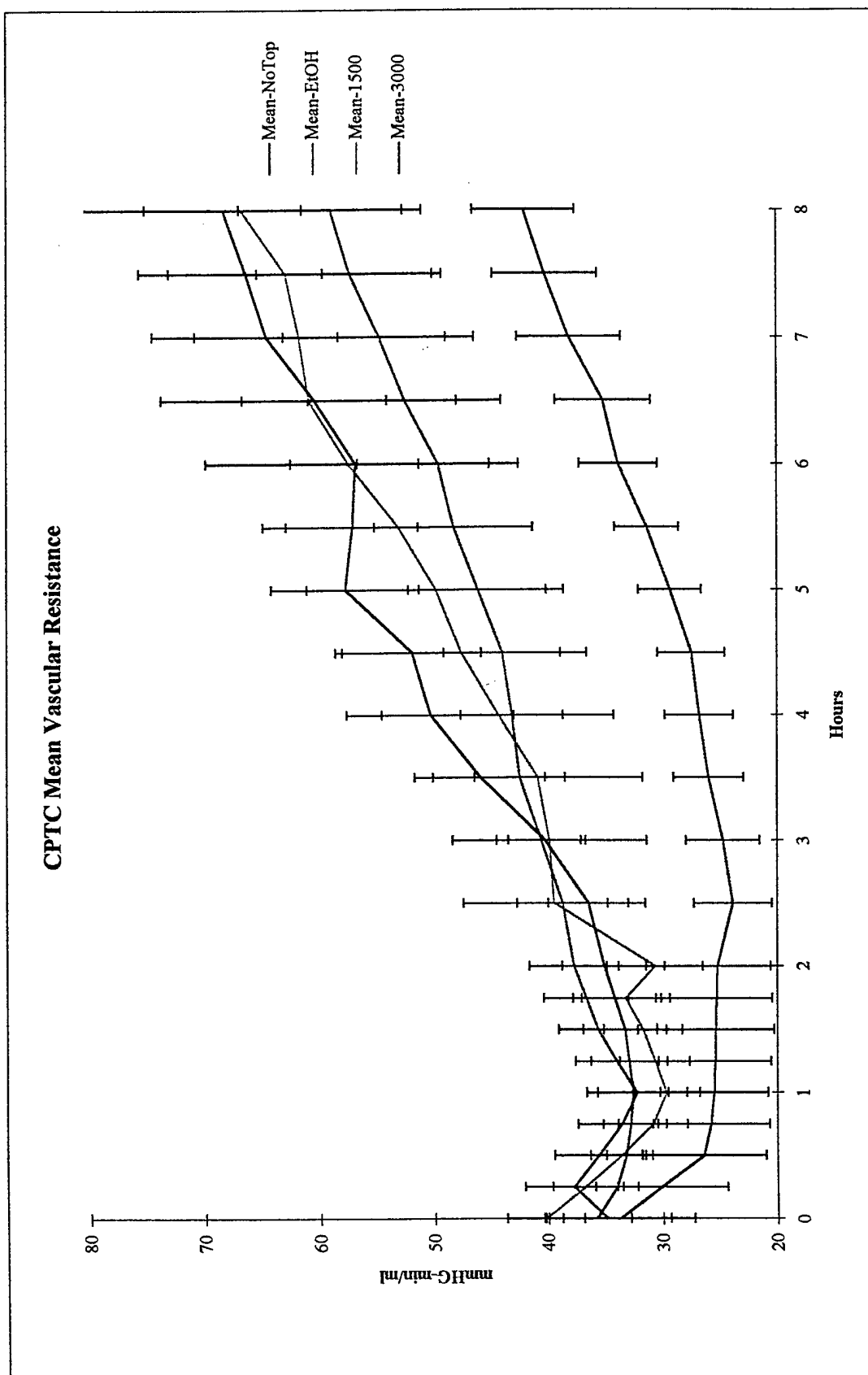


Figure 7a
CPTC Mean Vascular Resistance

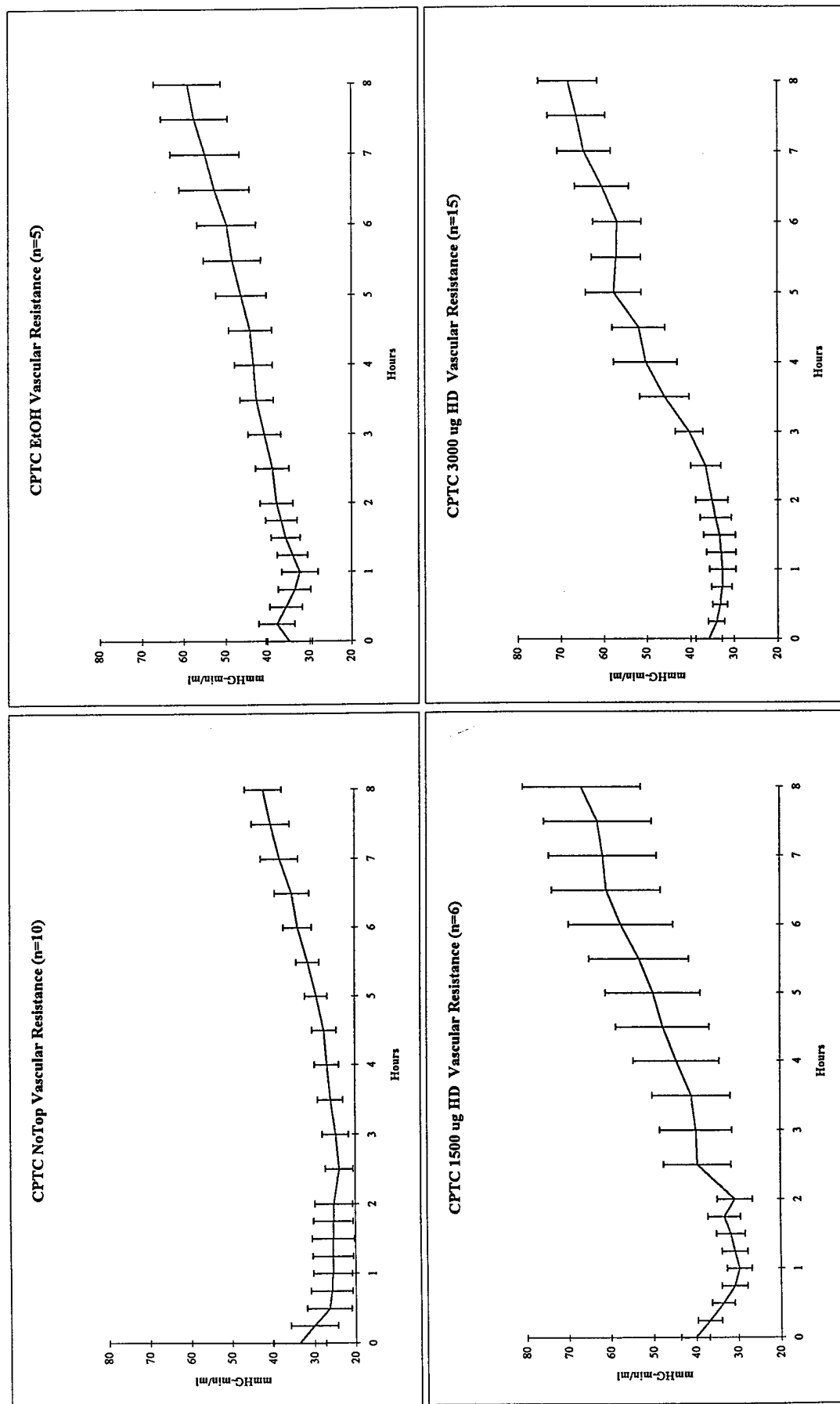


Figure 7b
CPTC Mean Vascular Resistance

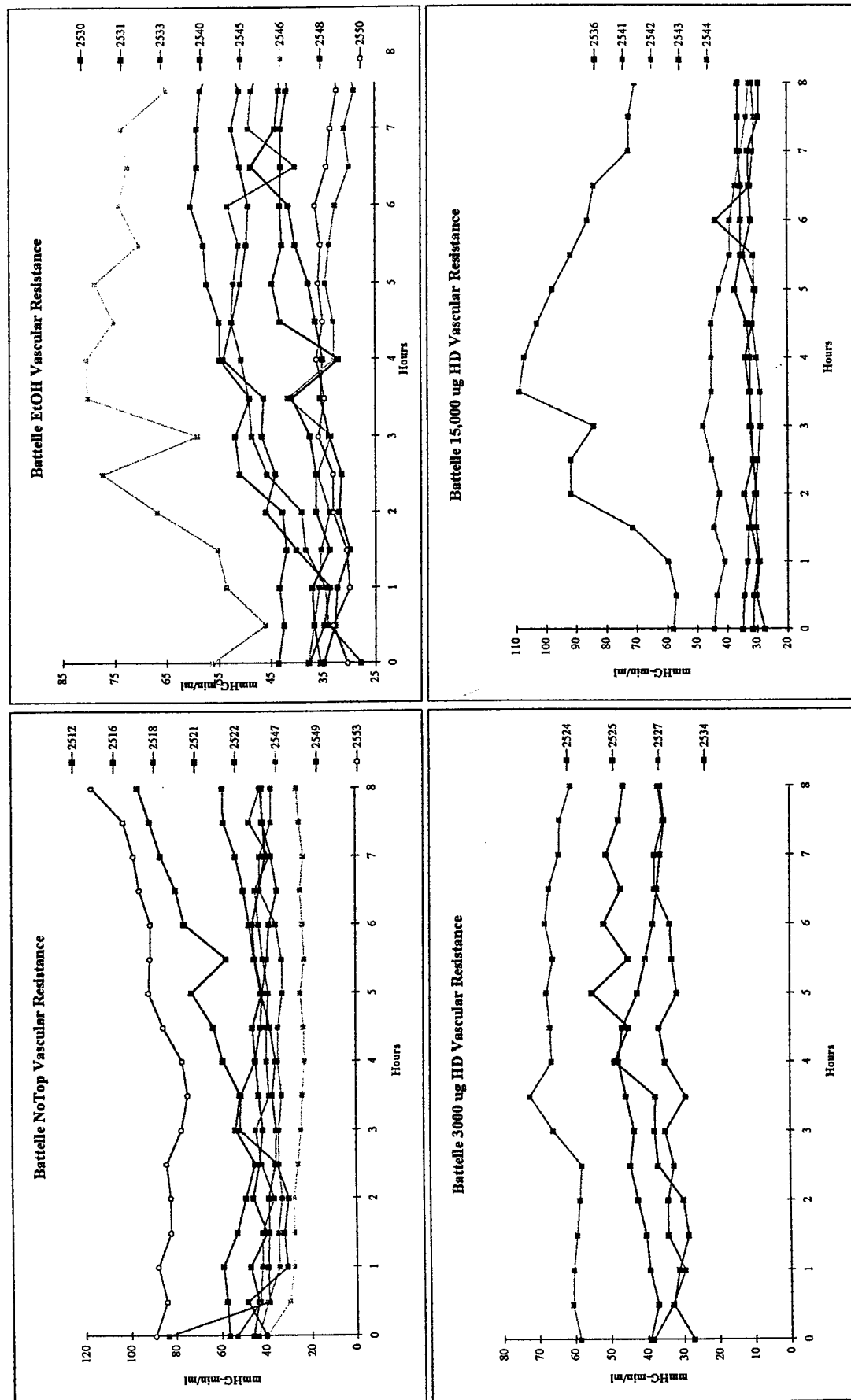


Figure 8
Battelle Individual Vascular Resistance

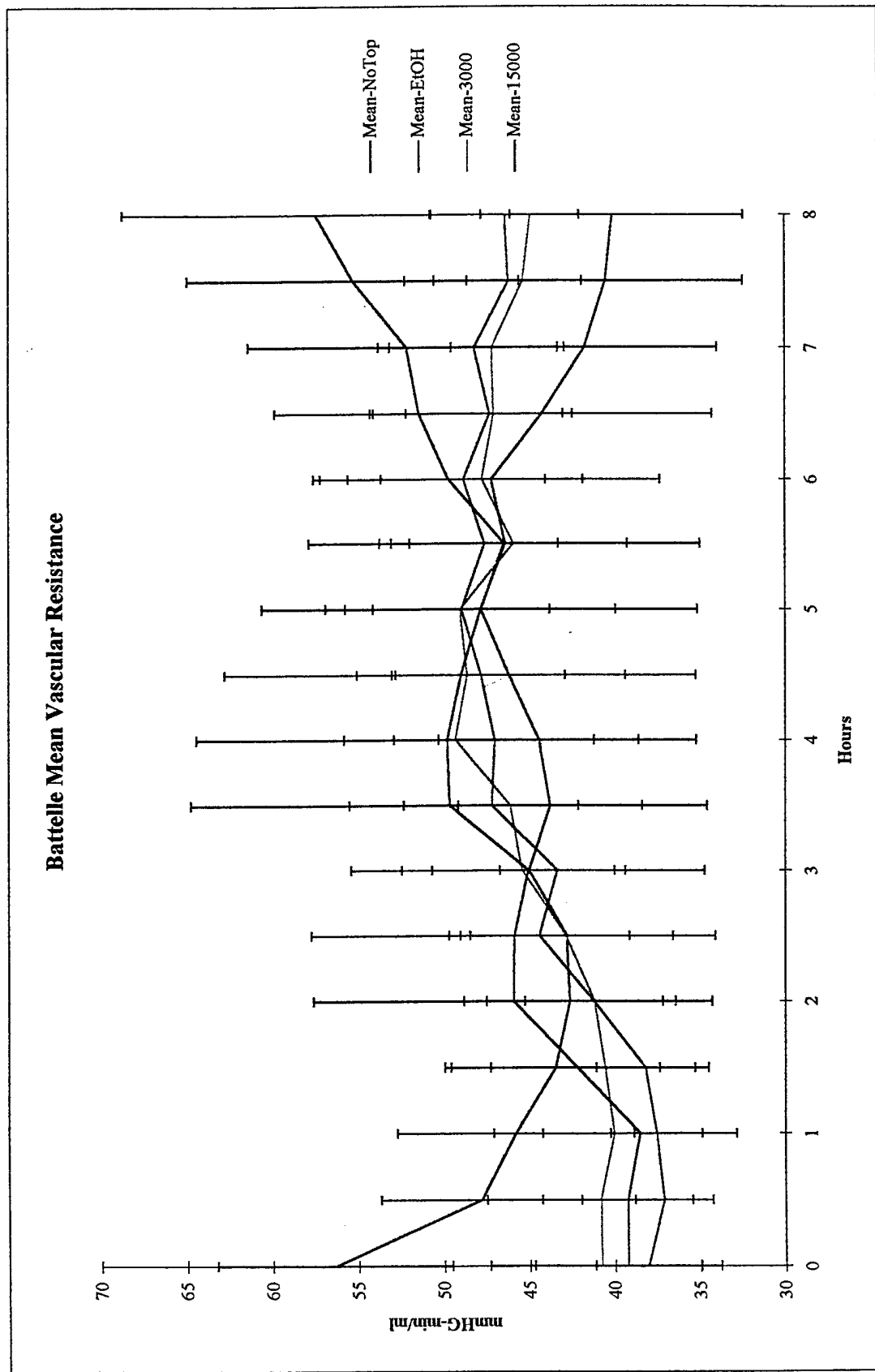


Figure 9a
Battelle Mean Vascular Resistance

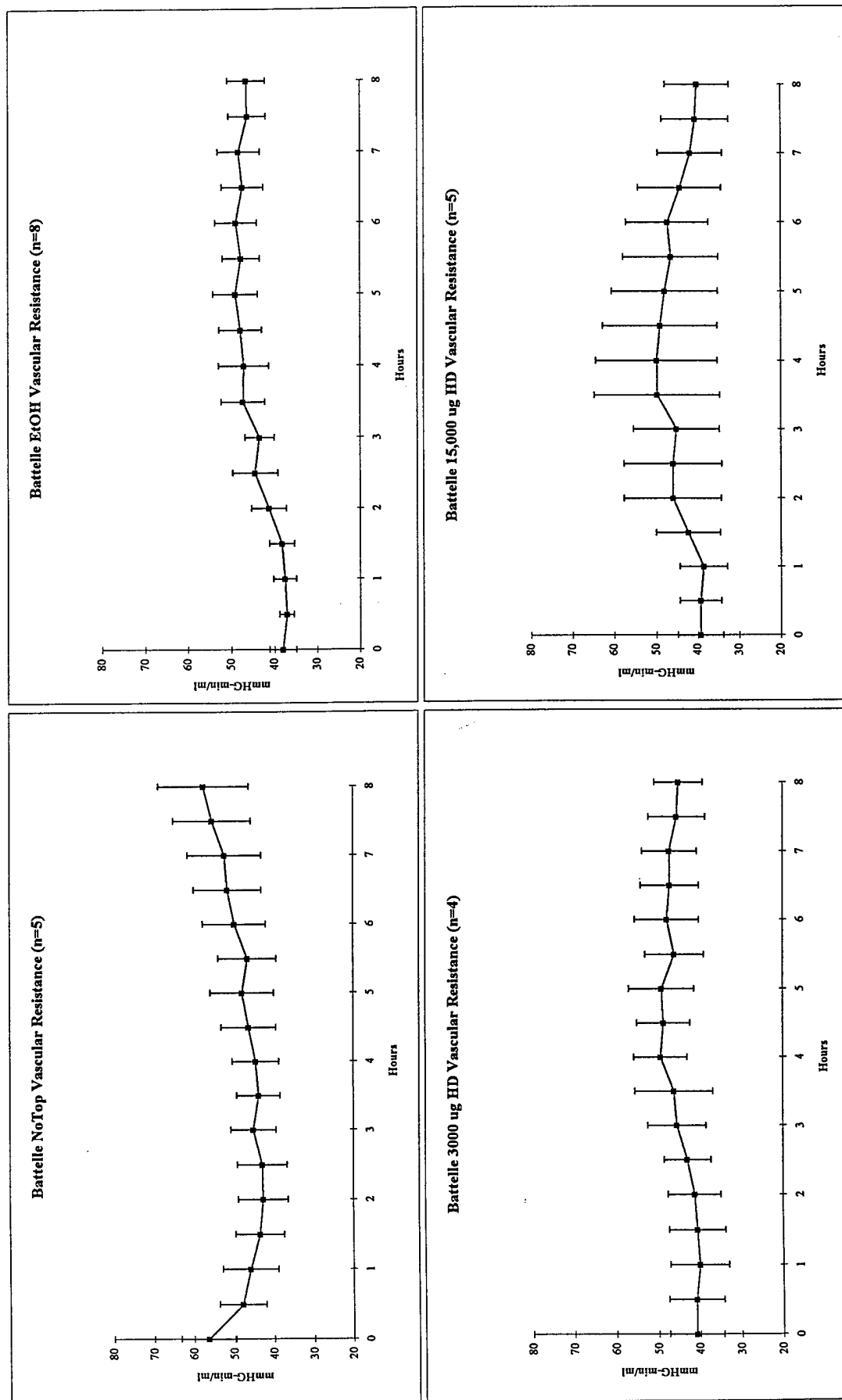


Figure 9b
Battelle Mean Vascular Resistance

Table 3a
VASCULAR RESISTANCE

CPTC vs Battelle Vascular Resistance Coefficient of Variance

CPTC

Battelle

IPPSF#	DOSE	CoV	IPPSF#	DOSE	CoV
2521	B-NoTop	0.0125	563	C-NoTop	0.0639
2522	B-NoTop	0.0227	565	C-NoTop	0.0466
2547	B-NoTop	0.0390	1246	C-NoTop	0.0621
2549	B-NoTop	0.0394	1374	C-NoTop	0.0911
2553	B-NoTop	0.0287	1375	C-NoTop	0.0752
			1376	C-NoTop	0.0678
			1377	C-NoTop	0.0546
			1378	C-NoTop	0.0800
			2082	C-NoTop	0.0100
			2083	C-NoTop	0.0245
MEAN		0.0285			0.0576
SEM		0.0051			0.0079
2531	B-EOH	0.0348	1737	C-EOH	0.0427
2533	B-EOH	0.0315	1738	C-EOH	0.0508
2540	B-EOH	0.0238	1739	C-EOH	0.0596
2545	B-EOH	0.0412	1744	C-EOH	0.0195
2546	B-EOH	0.0373	1755	C-EOH	0.0638
2548	B-EOH	0.0340			
2550	B-EOH	0.0149			
MEAN		0.0300			0.0473
SEM		0.0031			0.0078
2524	B3000	0.0529	1745	C3000	0.0580
2525	B3000	0.0190	1747	C3000	0.0618
2527	B3000	0.0159	1749	C3000	0.0734
2534	B3000	0.0235	1750	C3000	0.0424
			1751	C3000	0.1288
			1752	C3000	0.0602
			1761	C3000	0.0727
			1768	C3000	0.0798
			1769	C3000	0.1058
			1828	C3000	0.0847
			1829	C3000	0.0736
			1834	C3000	0.0861
			1835	C3000	0.0551
			1836	C3000	0.1062
			1837	C3000	0.1733
MEAN		0.0279			0.0841
SEM		0.0085			0.0086
2536	B15000	0.0121	1741	C1500	0.0702
2541	B15000	0.0257	1742	C1500	0.0522
2542	B15000	0.0268	1743	C1500	0.0835
2543	B15000	0.0216	1746	C1500	0.0851
2544	B15000	0.0490	1748	C1500	0.0608
			1754	C1500	0.0532
MEAN		0.0270			0.0675
SEM		0.0061			0.0059

Analysis of Variance

All Groups

ANOVA: Single Factor					
SUMMARY	Groups	T-Grouping	Count	Sum	Average
	B-NoTop	C	5	0.1423	0.0285
	B-EOH	C	8	0.2398	0.0300
	B3000	C	4	0.1114	0.0279
	B15000	C	5	0.1352	0.0270
	C-NoTop	B	10	0.5758	0.0576
	C-EOH	BC	5	0.2364	0.0473
	C1500	AB	6	0.4050	0.0675
	C3000	A	15	1.2618	0.0841
ANOVA					
Source of Variation	SS	df	MS	F	P-value
Between Groups	0.0293	7	0.0042	7.9945	0.0001
Within Groups	0.0262	50	0.0005		2.1992
Total	0.0555	57			

CPTC vs Battelle

ANOVA: Single Factor

SUMMARY	Groups	T-Grouping	Count	Sum	Average
	Battelle	B	22	0.6287	0.0286
	CPTC	A	36	2.4791	0.0689
ANOVA					
Source of Variation	SS	df	MS	F	P-value
Between Groups	0.0222	1	0.0222	37.2605	0.0001
Within Groups	0.0333	56	0.0006		4.0130
Total	0.0555	57			

Table 3b
VASCULAR RESISTANCE

CPTC vs Battelle Vascular Resistance Regression R² Measure

Analysis of Variance

Battelle			CPTC		
IPPSF#	DOSE	R ²	IPPSF#	DOSE	R ²
2521	B-NOTOP	0.1445	563	C-NoTop	0.8323
2522	B-NOTOP	0.0318	565	C-NoTop	0.2423
2547	B-NOTOP	0.4063	1246	C-NoTop	1.0000
2549	B-NOTOP	0.0033	1374	C-NoTop	0.7861
2553	B-NOTOP	0.4587	1375	C-NoTop	0.9050
			1376	C-NoTop	0.6511
			1377	C-NoTop	0.9442
			1378	C-NoTop	0.5381
			2082	C-NoTop	1.0000
			2083	C-NoTop	0.9999
MEAN		0.2089	MEAN		0.7899
SEM		0.0946	SEM		0.0784
2530	B-EtOH	0.7507	1737	C-EtOH	0.8147
2531	B-EtOH	0.8183	1738	C-EtOH	0.8723
2533	B-EtOH	0.5338	1739	C-EtOH	0.9538
2540	B-EtOH	0.5160	1744	C-EtOH	0.0067
2545	B-EtOH	0.4787	1755	C-EtOH	0.8714
2546	B-EtOH	0.3185			
2548	B-EtOH	0.7451			
2550	B-EtOH	0.2026			
MEAN		0.5455	MEAN		0.7038
SEM		0.0769	SEM		0.1757
2524	B3000	0.7377	1745	C3000	0.2369
2525	B3000	0.0911	1747	C3000	0.0003
2527	B3000	0.2371	1749	C3000	0.5783
2534	B3000	0.1105	1750	C3000	0.7384
			1751	C3000	0.8362
			1752	C3000	0.9528
			1761	C3000	0.5842
			1768	C3000	0.8899
			1769	C3000	0.7914
			1828	C3000	0.9188
			1829	C3000	0.8409
			1834	C3000	0.8663
			1835	C3000	0.8552
			1836	C3000	0.4370
			1837	C3000	0.0271
MEAN		0.2941	MEAN		0.6369
SEM		0.1514	SEM		0.0829
2536	B15000	0.0065	1741	C1500	0.8629
2541	B15000	0.0000	1742	C1500	0.1124
2542	B15000	0.5597	1743	C1500	0.7678
2543	B15000	0.8841	1746	C1500	0.9445
2544	B15000	0.0671	1748	C1500	0.8628
2545	B15000	0.0671	1754	C1500	0.0459
MEAN		0.3035	MEAN		0.5994
SEM		0.1787	SEM		0.1663

SUMMARY									
ANOVA: Single Factor									
Groups	T-Grouping	Count	Sum	Average	Variance				
B-NOTOP	C	5	1.0447	0.2089	0.0448				
B-ETOH	ABC	8	4.3636	0.5453	0.0473				
B3000	BC	4	1.1763	0.2941	0.0917				
B15000	BC	5	1.5174	0.3035	0.1597				
C-NoTop	A	10	7.8990	0.7899	0.0615				
C-ETOH	A	5	3.5188	0.7038	0.1543				
C1500	AB	6	3.5962	0.5994	0.1660				
C3000	AB	15	9.5536	0.6369	0.1030				
ANOVA									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	1.9590	7	0.2799	2.8750	0.0133	2.1992			
Within Groups	4.8672	50	0.0973						
Total	6.8262	57							

ANOVA: Single Factor						
SUMMARY						
Groups	T-Grouping	Count	Sum	Average	Variance	
Battelle	B	22	8.1021	0.3683	0.0879	
CPTC	A	36	24.568	0.6824	0.1038	
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.3477	1	1.3477	13.7757	0.0005	4.0130
Within Groups	5.4785	56	0.0978			
T-Total	6.8262	57				

Glucose Utilization:

Figures 10 and 11 depict glucose utilization (GU) for CPTC and Figures 12 and 13 for Battelle skin flaps. The most significant comparison is the decreasing GU in Battelle control and EtOH skin flaps. This is best compared by looking at individual flaps due to the inherent flap-to-flap variability. Control CPTC GU profiles usually peak at 1 hour and then remain flat. We previously attributed this initial burst to lactate washout which allows glycolysis to occur. With Battelle flaps, there is a uniform decrease at 3 hours in all treatments. Control flaps should remain flat. This is also seen in Figures 11b and 13b. Because of the difference in control profiles, it is very difficult to interpret treated flaps since one is essentially looking at two models. Consistent with the abnormal VR profiles and unstable flow rates of the control preparations, this pattern of decreasing GU suggests a loss of viability. This defect carries over all treatment groups.

Table 4 lists the GU CV and the results of ANOVA. In all cases, Battelle CV for GU is greater than CPTC indicating increased inter-individual variability, a finding seen with the other parameters.

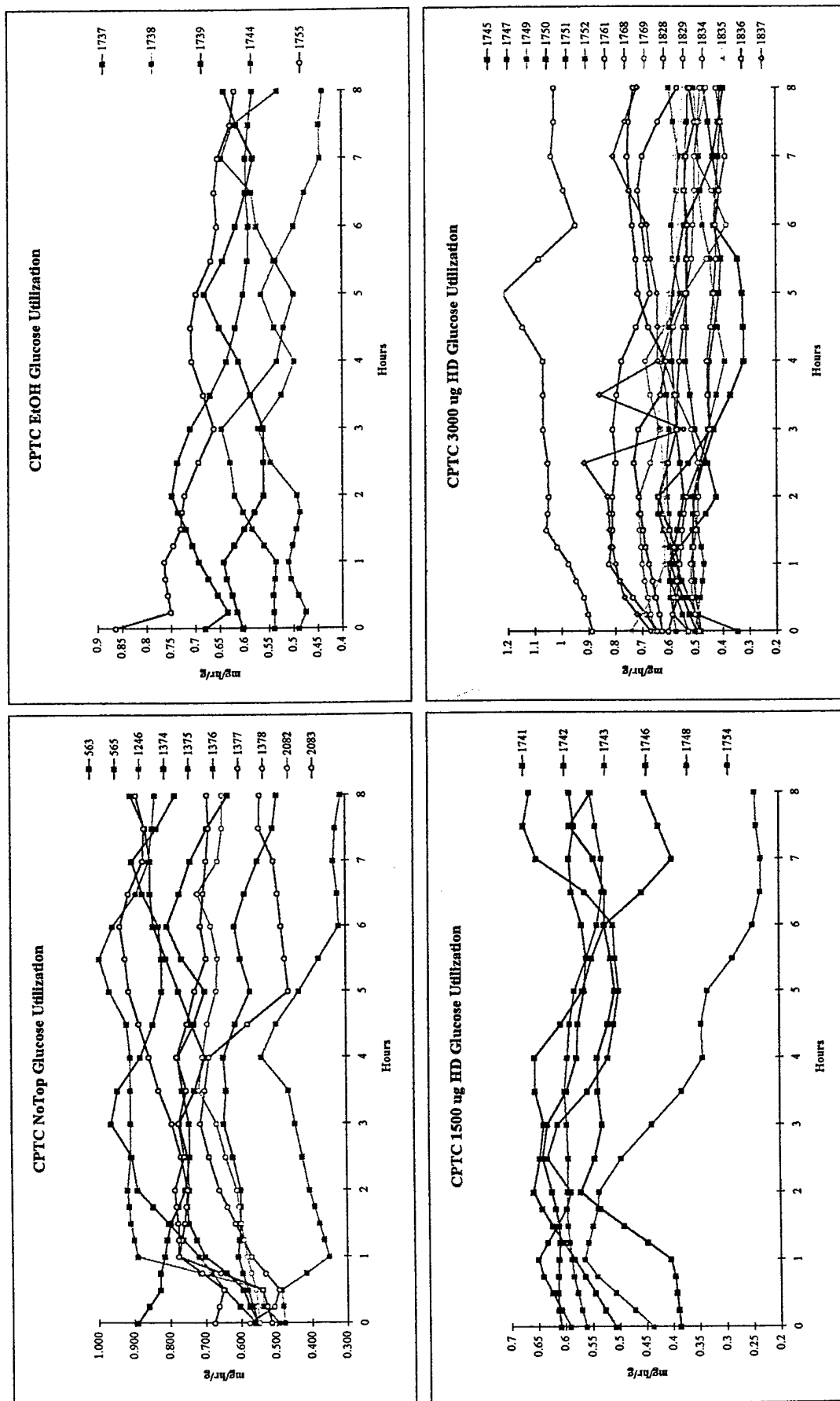


Figure 10
CPTC Glucose Utilization

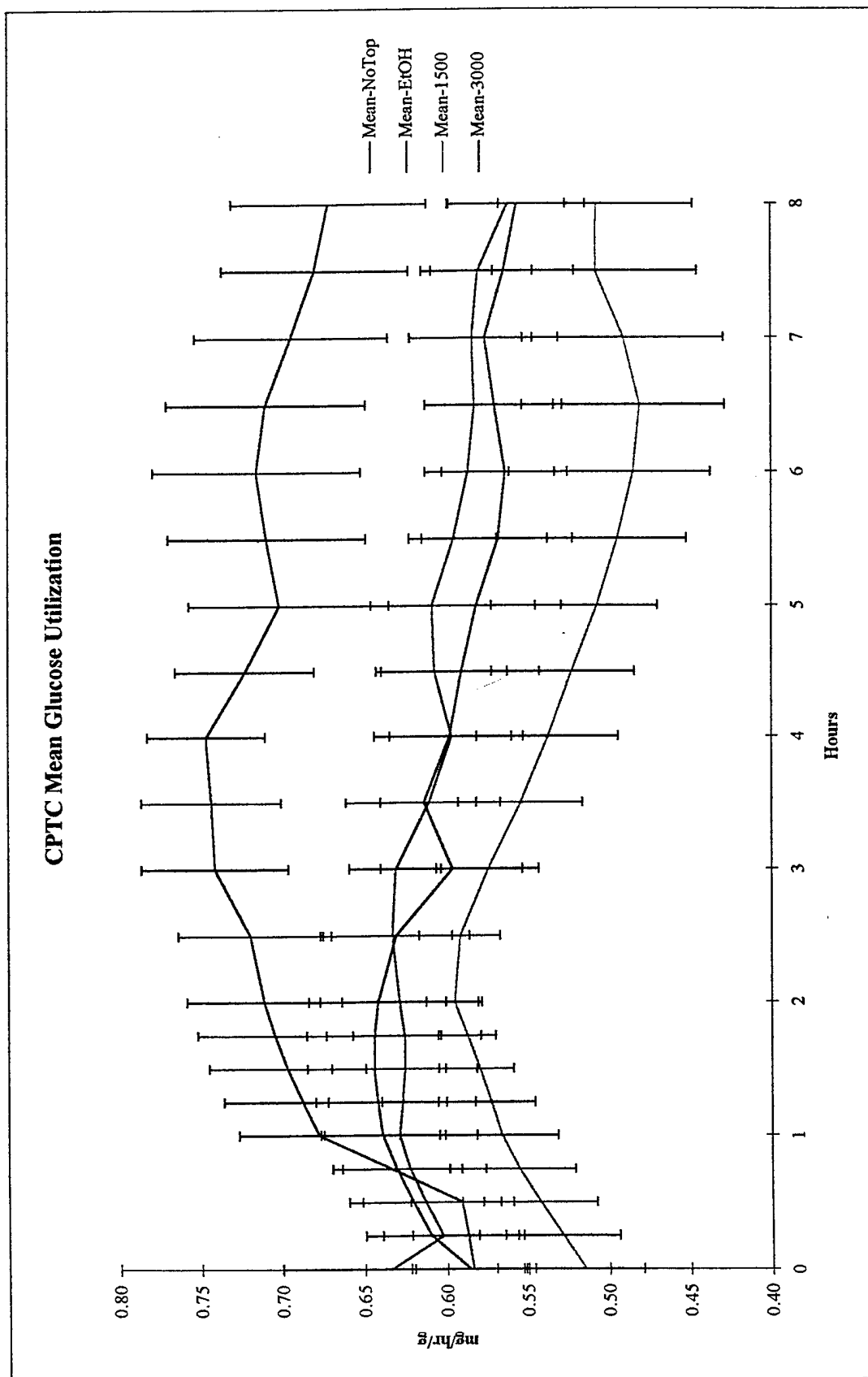


Figure 11a
CPTC Glucose Utilization

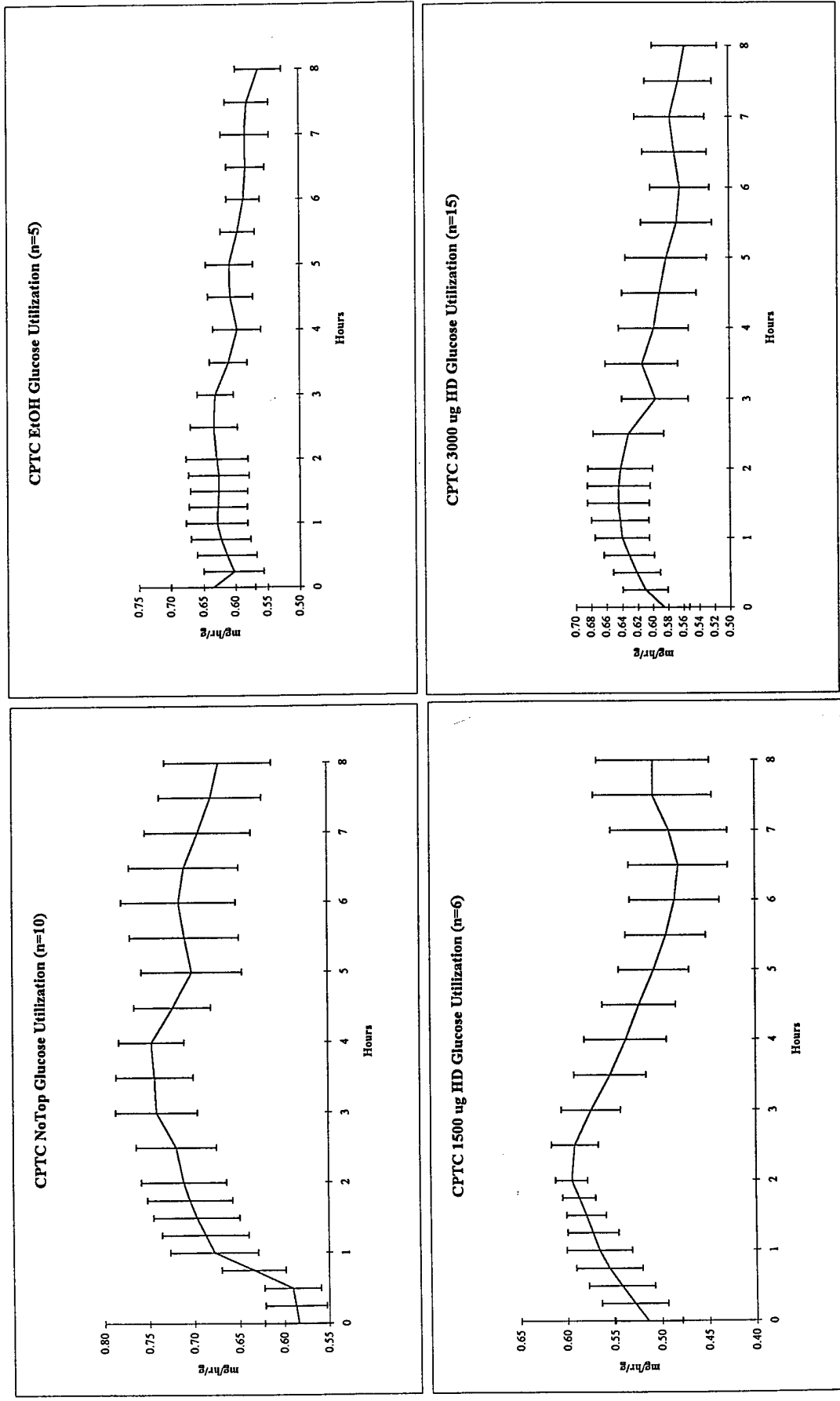


Figure 11b
CPTC Glucose Utilization

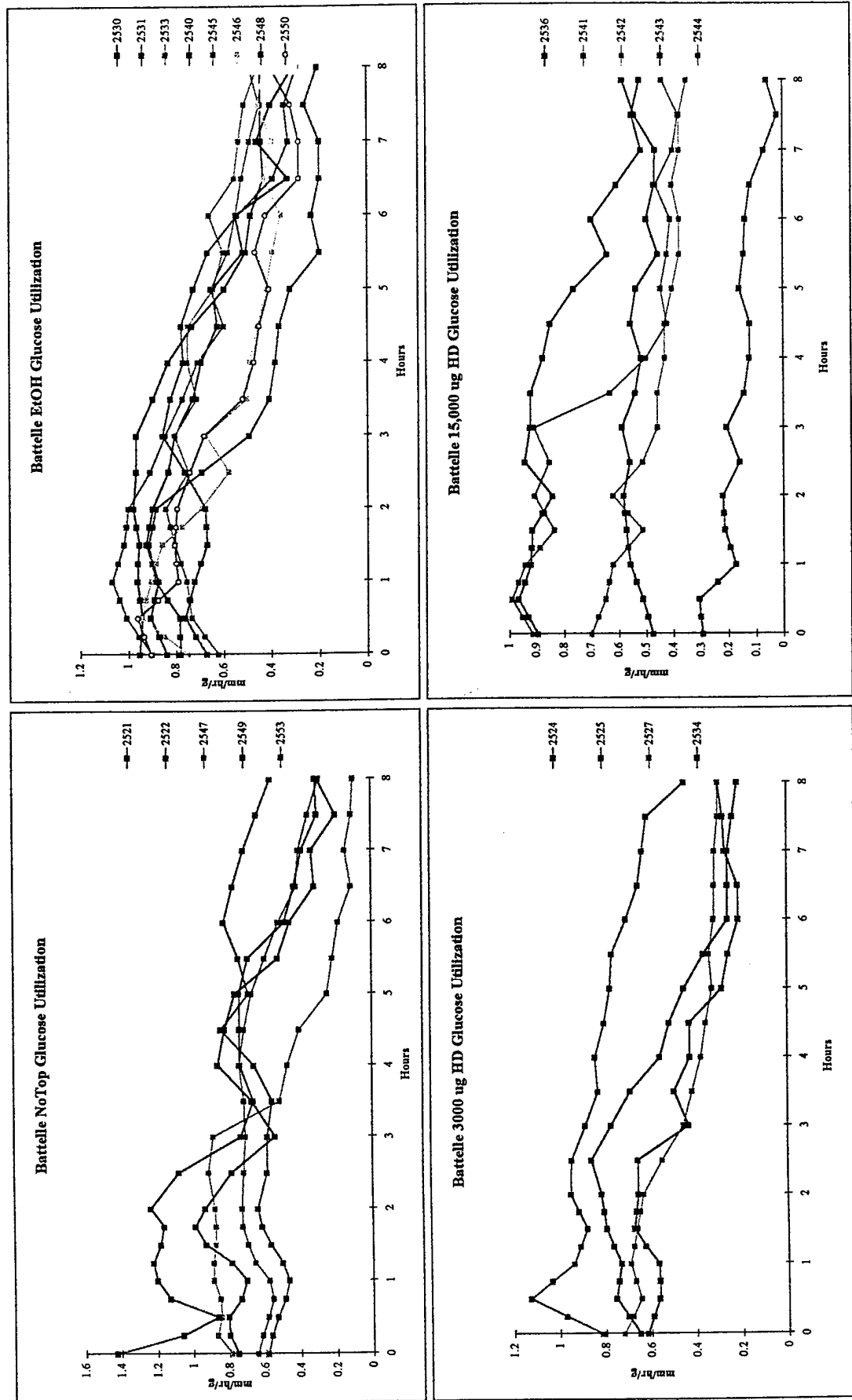


Figure 12
Battelle Individual Glucose Utilization

Battelle Mean Glucose Utilization

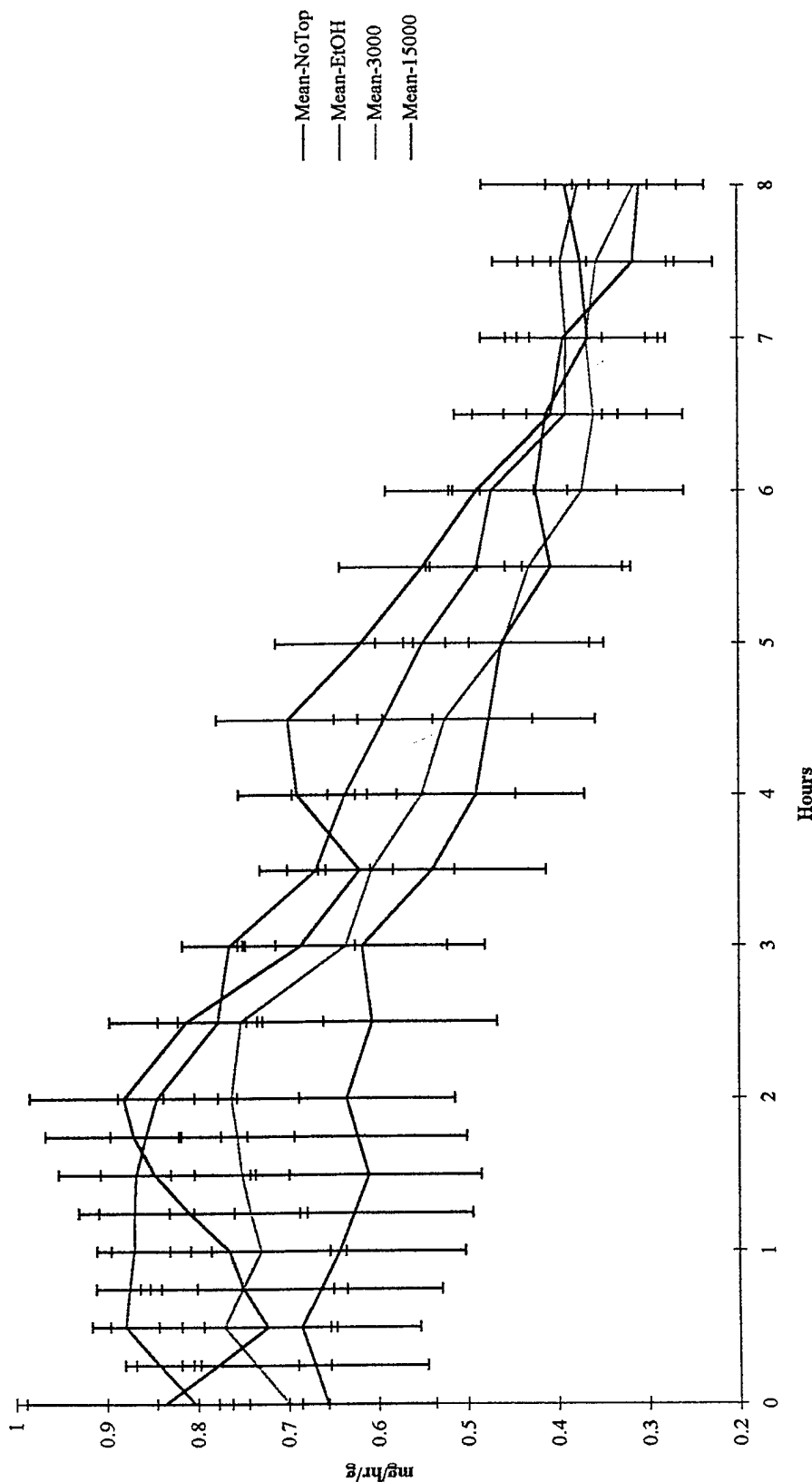


Figure 13a

Battelle Mean Glucose Utilization

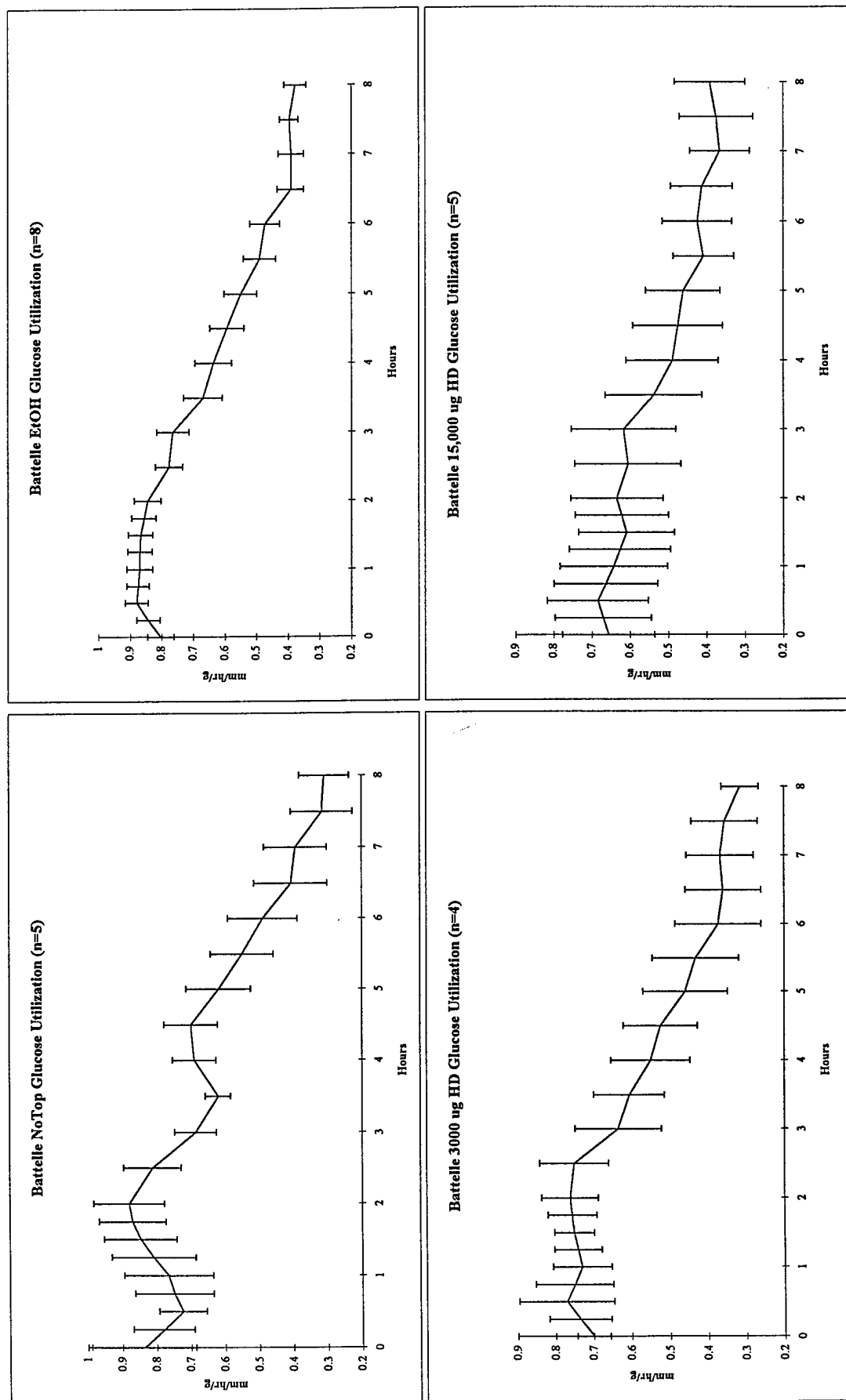


Figure 13b
Battelle Mean Glucose Utilization

Table 4
GLUCOSE UTILIZATION

CPTC vs Battelle Glucose Utilization Coefficient of Variance

Analysis of Variance

Battelle					CPTC				
IPPSF#	DOSE	C of V	IPPSF#	DOSE	C of V	IPPSF#	DOSE	C of V	
2521	B-NoTop	0.0760	563	C-NoTop	0.0279				
2522	B-NoTop	0.0368	565	C-NoTop	0.0295				
2547	B-NoTop	0.1273	1246	C-NoTop	0.0361				
2549	B-NoTop	0.0891	1374	C-NoTop	0.0168				
2553	B-NoTop	0.0489	1375	C-NoTop	0.0149				
			1376	C-NoTop	0.0375				
			1377	C-NoTop	0.0360				
			1378	C-NoTop	0.0310				
			2082	C-NoTop	0.0186				
			2083	C-NoTop	0.0133				
MEAN		0.0756			0.0262				
SEM		0.0159			0.0030				
2530	B-EtOH	0.0642	1737	C-EtOH	0.0188				
2531	B-EtOH	0.1146	1738	C-EtOH	0.0158				
2533	B-EtOH	0.0348	1739	C-EtOH	0.0115				
2540	B-EtOH	0.0639	1744	C-EtOH	0.0169				
2545	B-EtOH	0.0648	1755	C-EtOH	0.0175				
2546	B-EtOH	0.0731							
2548	B-EtOH	0.0566							
2550	B-EtOH	0.0813							
MEAN		0.0691			0.0161				
SEM		0.0081			0.0013				
2524	B3000	0.0783	1745	C3000	0.0351				
2525	B3000	0.0416	1747	C3000	0.0178				
2527	B3000	0.0727	1749	C3000	0.0153				
2534	B3000	0.0858	1750	C3000	0.0197				
			1751	C3000	0.0403				
			1752	C3000	0.0063				
			1761	C3000	0.0139				
			1768	C3000	0.0305				
			1769	C3000	0.0394				
			1828	C3000	0.0217				
			1829	C3000	0.0169				
			1834	C3000	0.0146				
			1835	C3000	0.0170				
			1836	C3000	0.0136				
			1837	C3000	0.0265				
MEAN		0.0696			0.0219				
SEM		0.0097			0.0026				
2536	B15000	0.0174	1741	C1500	0.0084				
2541	B15000	0.0982	1742	C1500	0.0313				
2542	B15000	0.0498	1743	C1500	0.0670				
2543	B15000	0.0417	1746	C1500	0.0287				
2544	B15000	0.0766	1748	C1500	0.0209				
			1754	C1500	0.0091				
MEAN		0.0567			0.0276				
SEM		0.0140			0.0088				

All Groups									
Anova: Single Factor									
SUMMARY									
Groups	T-Grouping	Count	Sum	Average	Variance				
B-NoTop	A	5	3.782	0.756	0.00127				
B-EtOH	A	8	0.5531	0.0691	0.00052				
B3000	A	4	0.2784	0.0696	0.00038				
B15000	A	5	0.2837	0.0567	0.00098				
C-NoTop	B	10	0.2616	0.0262	0.00009				
C-EtOH	B	5	0.0805	0.0161	0.00001				
C1500	B	6	0.1654	0.0276	0.00046				
C3000	B	15	0.3287	0.0219	0.00010				
ANOVA									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	0.0287	7	0.0041	11.1403	0.0001	2.1992			
Within Groups	0.0184	50	0.0004						
Total	0.0470	57							

CPTC vs Battelle									
Anova: Single Factor									
SUMMARY									
Groups	T-Grouping	Count	Sum	Average	Variance				
Battelle	A	22	1.4934	0.0679	0.00070				
CPTC	B	36	0.8362	0.0232	0.00015				
ANOVA									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	0.0272	1	0.0272	77.0152	0.0001	4.0130			
Within Groups	0.0198	56	0.0004						
Total	0.0470	57							

Cumulative Glucose Utilization:

Figure 14 gives the clearest indication of the differences between CPTC and Battelle flaps. The majority of our published analyses utilize cumulative glucose utilization (CGU) as a biomarker of toxicity. In all of our previous work, CGU is linear and thus can be compared by slopes. In Figure 14, all of Battelle CGUs are not linear after about 3-3.5 hours where they plateau. This is clearly seen in Table 5 where the slopes from 0-3.5 and 4-8 hours are compared. This should not occur in control flaps. What is particularly significant is that this shape also carries over onto treatments, suggesting that the flaps are losing viability after 3 hours making interpretation of compound effect impossible. In short, after 3 hours the flaps become "flops".

CPTC vs Battelle Cumulative Glucose Utilization

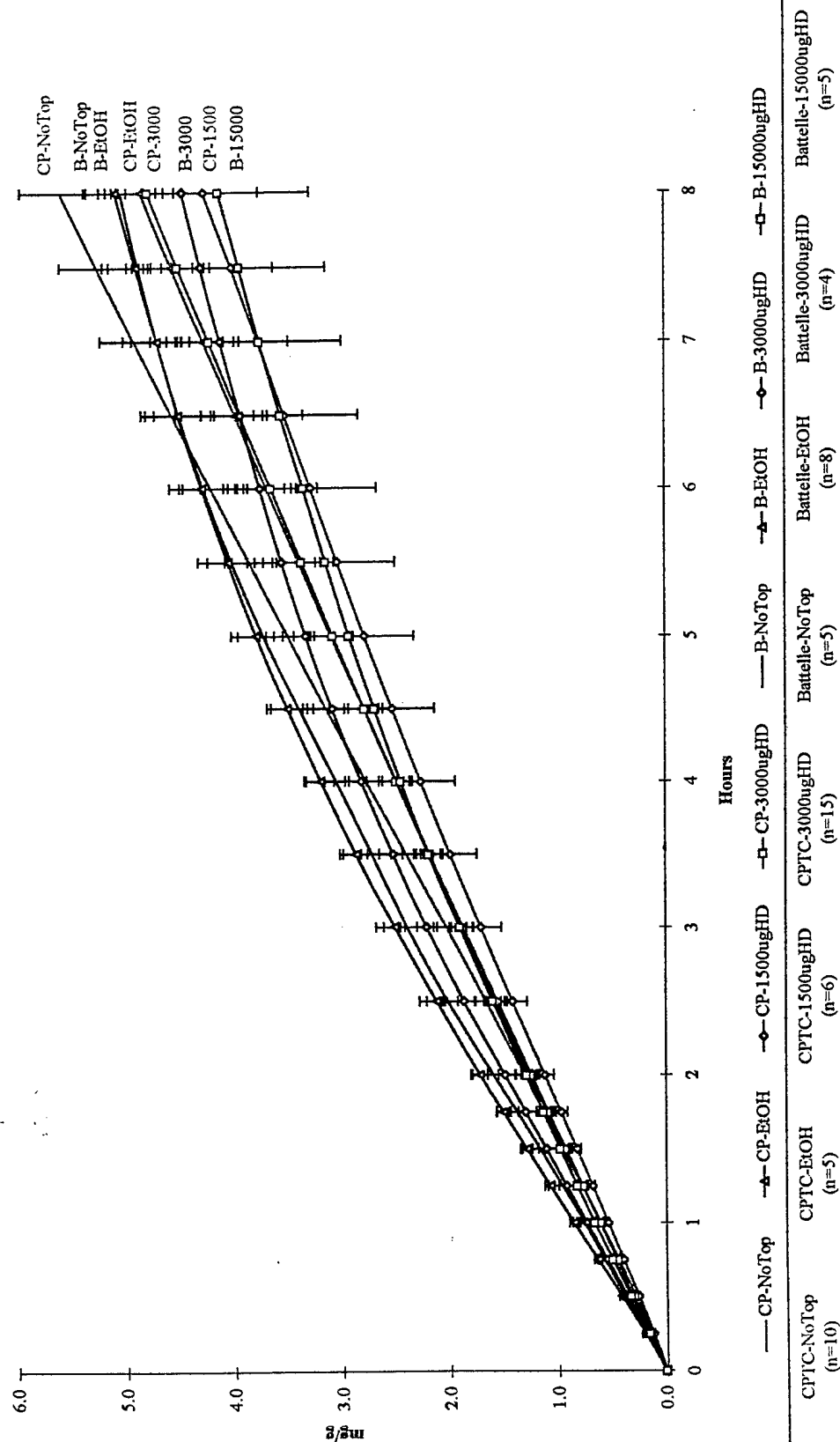


Figure 14
CPTC vs Battelle Cumulative Glucose Utilization

Table 5

CPTC vs Battelle Cumulative Glucose Utilization Slopes (0-3.5 hours vs 4-8 hours)

Hours	CP-NoTop	CP-EtOH	CP-1500ugHD	CP-3000ugHD	B-NoTop	B-EtOH	B-3000ugHD	B-1500ugHD
0	0.010	0.011	0.009	0.010	0.014	0.013	0.012	0.011
0.25	0.146	0.155	0.130	0.149	0.202	0.206	0.179	0.166
0.5	0.294	0.307	0.264	0.303	0.390	0.421	0.368	0.335
0.75	0.447	0.461	0.402	0.460	0.573	0.640	0.558	0.504
1	0.611	0.618	0.542	0.619	0.763	0.858	0.743	0.667
1.25	0.781	0.775	0.684	0.779	0.959	1.075	0.927	0.826
1.5	0.954	0.931	0.828	0.940	1.166	1.292	1.113	0.980
1.75	1.129	1.088	0.974	1.101	1.380	1.508	1.301	1.134
2	1.306	1.245	1.122	1.261	1.599	1.720	1.491	1.292
2.5	1.664	1.560	1.419	1.580	2.022	2.126	1.869	1.602
3	2.029	1.876	1.710	1.887	2.396	2.511	2.216	1.907
3.5	2.400	2.186	1.992	2.189	2.722	2.869	2.526	2.196
Slope	0.688	0.625	0.573	0.629	0.792	0.829	0.731	0.627
intercept	-0.051	-0.003	-0.019	-0.004	-0.005	0.026	0.012	0.028
4	2.773	2.488	2.265	2.492	3.049	3.195	2.815	2.453
4.5	3.140	2.789	2.530	2.789	3.396	3.502	3.084	2.695
5	3.496	3.093	2.788	3.082	3.725	3.787	3.329	2.929
5.5	3.849	3.394	3.038	3.370	4.016	4.047	3.552	3.146
6	4.205	3.690	3.283	3.653	4.276	4.287	3.753	3.354
6.5	4.561	3.982	3.525	3.936	4.500	4.503	3.936	3.563
7	4.912	4.274	3.768	4.223	4.699	4.698	4.117	3.758
7.5	5.256	4.565	4.017	4.508	4.876	4.894	4.298	3.942
8	5.593	4.850	4.271	4.788	5.033	5.087	4.465	4.133
Slope	0.706	0.591	0.498	0.573	0.494	0.467	0.407	0.418
intercept	-0.036	0.136	0.290	0.211	1.213	1.418	1.265	0.823

Table 6
Histology Scores

TASK PHASE	DATE	IPPSF#	ANIMAL #	FLAP ORIGIN	MICRO-VESICLES	HISTOLOGY DARK BASAL	RBCs in VESSELS	DERMAL INFLAM	GROSS BLISTERS	DOSE	SELECTION
I	1-Feb	2501	95-263-3	R	0	0	0	1	PRE-D	NoTop	no pressure
I	1-Feb	2502	95-263-3	L					NONE	NoTop	no pressure
I	2-Feb	2503	95-18-3	R	0	0	0	0	NONE	NoTop	hi pressure
I	2-Feb	2504	95-18-3	L						aborted	integrity
I	8-Feb	2505	95-263-4	R	0	0	0	0	PRE-D	EtOH	hi pressure
I	8-Feb	2506	95-263-4	L	0	0	0	1	NONE	EtOH	hi pressure
I	9-Feb	2507	95-258-1	R	0	0	0	0	POST-D	NoTop	hi pressure
I	9-Feb	2508	95-258-1	L	0	0	0	0	POST-D	NoTop	hi pressure
I	15-Feb	2509	95-21-2	R	1	0	0	0	POST-D	NoTop	hi pressure
I	15-Feb	2510	95-21-2	L	1	0	0	0	POST-D	NoTop	hi pressure
I	16-Feb	2511	95-22-1	R	0	0	0	0	NONE	NoTop	hi pressure
I	16-Feb	2512	95-22-1	L	0	0	0	0	NONE	NoTop	hi pressure
I	22-Feb	2513	95-21-3	R	1	0	1	1	NONE	NoTop	RBC's
I	22-Feb	2514	95-21-3	L	1	0	1	0	NONE	NoTop	RBC's
I	23-Feb	2515	95-22-2	R	0	0	1	1	NONE	NoTop	RBC's
I	23-Feb	2516	95-22-2	L	0	0	0	0	NONE	NoTop	hi pressure
I	1-Mar	2517	95-24-4	R	0	0	1	0	NONE	NoTop	hi pressure
I	1-Mar	2518	95-24-4	L	0	0	0	0	NONE	NoTop	hi pressure
I	7-Mar	2519	95-24-3							aborted	pig died
I	8-Mar	2520	95-24-5							aborted	pig died
I	16-Mar	2521	95-24-1	R	0	0	0	0	NONE	NoTop	SELECTED
I	16-Mar	2522	95-24-1	L	0	0	0	0	NONE	NoTop	SELECTED
II	22-Mar	2523	95-201-11	R	1	1	1	0	NONE	3000 ug HD	RBC's
II	22-Mar	2524	95-201-11	L	1	1	0	0	NONE	3000 ug HD	SELECTED
II	23-Mar	2525	95-202-7	R	1	1	0	0	NONE	3000 ug HD	SELECTED
II	23-Mar	2526	95-202-7	L	0	1	1	0	PRE-D	EtOH	RBC's
II	29-Mar	2527	95-206-6	R	1	1	0	1	NONE	3000 ug HD	SELECTED
II	29-Mar	2528	95-206-6	L	0	0	1	0		NoTop	catheter out
II	30-Mar	2529	95-205-6	R	1	1	1	0	POST-D	3000 ug HD	RBC's
II	30-Mar	2530	95-205-6	L	0	1	0	0	NONE	EtOH	SELECTED
II	5-Apr	2531	95-22-4	R	1	1	0	0	NONE	EtOH	SELECTED
II	5-Apr	2532	95-22-4	L	1	1	1	0	PRE-D	EtOH	RBC's
II	6-Apr	2533	95-207-6	R	0	0	0	0	NONE	EtOH	SELECTED
II	6-Apr	2534	95-207-6	L	0	0	0	0	PRE-D	3000 ug HD	SELECTED
II	12-Apr	2535	95-1-4	R						NoTop	stopped
II	12-Apr	2536	95-1-4	L	1	1	0	1	PRE-D	15000 ug HD	SELECTED
II	13-Apr	2537	95-205-7	R	0	1	1	1	NONE	15000 ug HD	RBC's
II	13-Apr	2538	95-205-7	L	4	0	1	0	PRE-D	EtOH	RBC's
II	19-Apr	2539	95-208-5	R					NONE	NoTop	stopped
II	19-Apr	2540	95-208-5	L	0	1	0	1	NONE	EtOH	SELECTED
II	20-Apr	2541	95-212-7	R	0	1	0	0	NONE	15000 ug HD	SELECTED
II	20-Apr	2542	95-212-7	L	0	1	0	0	NONE	15000 ug HD	SELECTED
II	26-Apr	2543	95-214-11	R	0	0	0	0	NONE	15000 ug HD	SELECTED
II	26-Apr	2544	95-214-11	L	0	0	0	0	NONE	15000 ug HD	SELECTED
II	27-Apr	2545	95-209-4	R	3	1	0	0	NONE	EtOH	SELECTED
II	27-Apr	2546	95-209-4	L	1	1	0	0	NONE	EtOH	SELECTED
II	3-May	2547	95-223-9	R	0	0.5	0	1	NONE	NoTop	SELECTED
II	3-May	2548	95-223-9	L	0	0	0	1	NONE	EtOH	SELECTED
II	4-May	2549	95-221-5	R	1	1	0	0	NONE	NoTop	SELECTED
II	4-May	2550	95-221-5	L	0	0	0	0	NONE	EtOH	SELECTED
II	10-May	2551	95-220-7	R					integrity	aborted	integrity
II	10-May	2552	95-220-7	L					integrity	aborted	integrity
II	11-May	2553	95-225-6	R	0	0	0	0	NONE	NoTop	SELECTED
II	11-May	2554	95-225-6	L	1	1	1	0	NONE	EtOH	RBC's

Table 6b
Histology Scores--Sorted by Selected IPPSFs

TASK PHASE	DATE	IPPSF#	ANIMAL #	FLAP ORIGIN	HISTOLOGY	MICRO-VESICLES	DARK BASAL	RBCs in VESSELS	DERMAL INFLAM	GROSS BLISTERS	DOSE	SELECTION
II	4-May	2549	95-221-5	R		1	1	0	0	NONE	NoTop	SELECTED
II	3-May	2547	95-223-9	R		0	0.5	0	1	NONE	NoTop	SELECTED
I	16-Mar	2521	95-24-1	R		0	0	0	0	NONE	NoTop	SELECTED
I	16-Mar	2522	95-24-1	L		0	0	0	0	NONE	NoTop	SELECTED
II	11-May	2553	95-225-6	R		0	0	0	0	NONE	NoTop	SELECTED
II	27-Apr	2545	95-209-4	R		3	1	0	0	NONE	EtOH	SELECTED
II	5-Apr	2531	95-22-4	R		1	1	0	0	NONE	EtOH	SELECTED
II	27-Apr	2546	95-209-4	L		1	1	0	0	NONE	EtOH	SELECTED
II	30-Mar	2530	95-205-6	L		0	1	0	0	NONE	EtOH	SELECTED
II	19-Apr	2540	95-208-5	L		0	1	0	1	NONE	EtOH	SELECTED
II	6-Apr	2533	95-207-6	R		0	0	0	0	NONE	EtOH	SELECTED
II	3-May	2548	95-223-9	L		0	0	0	1	NONE	EtOH	SELECTED
II	4-May	2550	95-221-5	L		0	0	0	0	NONE	EtOH	SELECTED
II	22-Mar	2524	95-201-11	L		1	1	0	0	NONE	3000 ug HD	SELECTED
II	23-Mar	2525	95-202-7	R		1	1	0	0	NONE	3000 ug HD	SELECTED
II	29-Mar	2527	95-206-6	R		1	1	0	1	NONE	3000 ug HD	SELECTED
II	6-Apr	2534	95-207-6	L		0	0	0	0	PRE-D	3000 ug HD	SELECTED
II	12-Apr	2536	95-1-4	L		1	1	0	1	PRE-D	15000 ug HD	SELECTED
II	20-Apr	2541	95-212-7	R		0	1	0	0	NONE	15000 ug HD	SELECTED
II	20-Apr	2542	95-212-7	L		0	1	0	0	NONE	15000 ug HD	SELECTED
II	26-Apr	2543	95-214-11	R		0	0	0	0	NONE	15000 ug HD	SELECTED
II	26-Apr	2544	95-214-11	L		0	0	0	0	NONE	15000 ug HD	SELECTED
I	22-Feb	2513	95-21-3	R		1	0	1	1	NONE	NoTop	RBC's
I	22-Feb	2514	95-21-3	L		1	0	1	0	NONE	NoTop	RBC's
I	23-Feb	2515	95-22-2	R		0	0	1	1	NONE	NoTop	RBC's
II	23-Mar	2526	95-202-7	L		0	1	1	0	PRE-D	EtOH	RBC's
II	5-Apr	2532	95-22-4	L		1	1	1	0	PRE-D	EtOH	RBC's
II	13-Apr	2538	95-205-7	L		4	0	1	0	PRE-D	EtOH	RBC's
II	11-May	2554	95-225-6	L		1	1	1	0	NONE	EtOH	RBC's
II	22-Mar	2523	95-201-11	R		1	1	1	0	NONE	3000 ug HD	RBC's
II	30-Mar	2529	95-205-6	R		1	1	1	0	POST-D	3000 ug HD	RBC's
II	13-Apr	2537	95-205-7	R		0	1	1	1	NONE	15000 ug HD	RBC's
II	29-Mar	2528	95-206-6	L		0	0	1	0		NoTop	catheter out
I	2-Feb	2503	95-18-3	R		0	0	0	0	NONE	NoTop	hi pressure
I	9-Feb	2507	95-258-1	R		0	0	0	0	POST-D	NoTop	hi pressure
I	9-Feb	2508	95-258-1	L		0	0	0	0	POST-D	NoTop	hi pressure
I	15-Feb	2509	95-21-2	R		1	0	0	0	POST-D	NoTop	hi pressure
I	15-Feb	2510	95-21-2	L		1	0	0	0	POST-D	NoTop	hi pressure
I	16-Feb	2511	95-22-1	R		0	0	0	0	NONE	NoTop	hi pressure
I	16-Feb	2512	95-22-1	L		0	0	0	0	NONE	NoTop	hi pressure
I	23-Feb	2516	95-22-2	L		0	0	0	0	NONE	NoTop	hi pressure
I	1-Mar	2517	95-24-4	R		0	0	0	1	NONE	NoTop	hi pressure
I	1-Mar	2518	95-24-4	L		0	0	0	0	NONE	NoTop	hi pressure
I	8-Feb	2505	95-263-4	R		0	0	0	0	PRE-D	EtOH	hi pressure
I	8-Feb	2506	95-263-4	L		0	0	0	1	NONE	EtOH	hi pressure
I	1-Feb	2501	95-263-3	R		0	0	0	1	PRE-D	NoTop	no pressure
I	1-Feb	2502	95-263-3	L						NONE	NoTop	no pressure
I	2-Feb	2504	95-18-3	L							aborted	integrity
II	10-May	2551	95-220-7	R						integrity	aborted	integrity
II	10-May	2552	95-220-7	L						integrity	aborted	integrity
I	7-Mar	2519	95-24-3								aborted	pig died
I	8-Mar	2520	95-24-5								aborted	pig died
II	12-Apr	2535	95-1-4	R							NoTop	stopped
II	19-Apr	2539	95-208-5	R						NONE	NoTop	stopped

Histology and Length of Surgery:

Table 6 is a list of the histology score for the IPPSF samples we received from Battelle. Table 6b has been sorted by selected flaps. The most visible discrepancy seen from CPTC histology slides was the presence of red blood cells. It is almost impossible to do any further interpretation at this level because based upon the previous data presented, all flaps were not viable and thus histological lesions are meaningless.

Table 7 is a list of the time the pigs were under halothane anesthesia. The average time for halothane exposure at CPTC for Stage I is 2.75 hours--on at about 9:00 AM, off at about 10:45. The average for Stage II is 0.75 hours for the left flap and 1.00 for the right flap--on at about 7:30 AM, off at about 8:15 and 8:30 AM, respectively. These times are significantly shorter than the Battelle surgery times. Numerous factors associated with prolonged surgery could be affecting these results. These include prolonged anesthesia, hypoxia and other subtle physiological changes that would affect flap viability.

The following is the average halothane times sorted by surgeon. We realize that this is not a fair representation; for example, if SB was training the other surgeons his times would naturally be longer.

<u>Surgeon</u>	<u>Stage I</u>	<u>Stage II</u>
CL	4.18 hr	1.21 hr
DLT	4.16 hr	0.89 hr
JT	3.96 hr	0.94 hr
LB	3.96 hr	1.00 hr
PHK	3.69 hr	0.73 hr
SB	3.87 hr	1.07 hr
THS	3.29 hr	1.57 hr

Appendix B:

Appendix B is plots of GU, VR, and flow rate for each individual IPPSF. Note the inconsistent flow rates, and the tendency for glucose utilization to drop after about 3 hours.

Table 7
Battelle Halothane Exposure Time

				Stage I Halothane				Stage II Halothane			
2506	95-263-4	L	2/6/95					8:35 AM	9:20 AM	0:45	0.75
2507	95-258-1	R	2/7/95	9:20 AM	12:45 PM	3:25	3.42	8:20 AM	9:35 AM	1:15	1.25
2508	95-258-1	L	2/7/95					8:20 AM	9:23 AM	1:03	1.05
2509	95-21-2	R	2/13/95	8:32 AM	12:47 PM	4:15	4.25	8:41 AM	10:18 AM	1:37	1.62
2510	95-21-2	L	2/13/95					8:41 AM	9:38 AM	0:57	0.95
2511	95-22-1	R	2/14/95	8:32 AM	12:17 PM	3:45	3.75	8:25 AM	9:54 AM	1:29	1.48
2512	95-22-1	L	2/14/95					8:25 AM	9:13 AM	0:48	0.8
2513	95-21-3	R	2/20/95	8:23 AM	1:14 PM	4:51	4.85	8:25 AM	9:40 AM	1:15	1.25
2514	95-21-3	L	2/20/95					8:25 AM	9:15 AM	0:50	0.83
2515	95-22-2	R	2/21/95	8:20 AM	12:24 PM	4:04	4.07	8:20 AM	9:42 AM	1:22	1.37
2516	95-22-2	L	2/21/95					8:20 AM	8:50 AM	0:30	0.5
2517	95-24-4	R	2/27/95	8:30 AM	12:07 PM	3:37	3.62	8:20 AM	9:21 AM	1:01	1.02
2518	95-24-4	L	2/27/95					8:20 AM	8:55 AM	0:35	0.58
2519	95-24-3		3/7/95	8:31 AM	pig died	pig died	pig died	pig died	pig died	pig died	pig died
2520	95-24-5		3/13/95	8:25 AM	pig died	pig died	pig died	pig died	pig died	pig died	pig died
2521	95-24-1	R	3/14/95	8:52 AM	1:54 PM	5:02	5.03	9:12 AM	10:27 AM	1:15	1.25
2522	95-24-1	L	3/14/95					9:12 AM	9:57 AM	0:45	0.75
2523	95-201-11	R	3/20/95	8:33 AM	1:24 PM	4:51	4.85	7:30 AM	8:13 AM	0:43	0.72
2524	95-201-11	L	3/20/95					7:30 AM	7:54 AM	0:24	0.4
2525	95-202-7	R	3/21/95	8:20 AM	12:56 PM	4:36	4.6	7:07 AM	9:15 AM	2:08	2.13
2526	95-202-7	L	3/21/95					7:07 AM	8:55 AM	1:48	1.8
2527	95-206-6	R	3/27/95	8:39 AM	1:07 PM	4:28	4.47	8:31 AM	9:31 AM	1:00	1
2528	95-206-6	L	3/27/95					8:31 AM	9:04 AM	0:33	0.55
2529	95-205-6	R	3/28/95	8:35 AM	12:29 PM	3:54	3.9	8:27 AM	9:42 AM	1:15	1.25
2530	95-205-6	L	3/28/95					8:27 AM	8:57 AM	0:30	0.5
2531	95-22-4	R	4/3/95	8:35 AM	11:14 AM	2:39	2.65	8:34 AM	10:10 AM	1:36	1.6
2532	95-22-4	L	4/3/95					8:34 AM	9:50 AM	1:16	1.27
2533	95-207-6	R	4/4/95	8:54 AM	1:11 PM	4:17	4.28	8:35 AM	9:40 AM	1:05	1.08
2534	95-207-6	L	4/4/95					8:35 AM	9:15 AM	0:40	0.67
2535	95-1-4	R	4/10/95	8:20 AM	12:44 PM	4:24	4.4	8:15 AM	9:14 AM	0:59	0.98
2536	95-1-4	L	4/10/95					8:15 AM	8:53 AM	0:38	0.63
2537	95-205-7	R	4/11/95	8:29 AM	12:59 PM	4:30	4.5	8:28 AM	9:35 AM	1:07	1.12
2538	95-205-7	L	4/11/95					8:28 AM	9:09 AM	0:41	0.68
2539	95-208-5	R	4/17/95	8:43 AM	1:34 PM	4:51	4.85	8:27 AM	9:44 AM	1:17	1.28
2540	95-208-5	L	4/17/95					8:27 AM	8:59 AM	0:32	0.53
2541	95-212-7	R	4/18/95	8:43 AM	11:59 AM	3:16	3.27	8:17 AM	9:15 AM	0:58	0.97
2542	95-212-7	L	4/18/95					8:17 AM	8:57 AM	0:40	0.67
2543	95-214-11	R	4/24/95	8:42 AM	12:00 PM	3:18	3.3	8:14 AM	9:27 AM	1:13	1.22
2544	95-214-11	L	4/24/95					8:14 AM	9:01 AM	0:47	0.78
2545	95-209-4	R	4/25/95	8:19 AM	10:50 AM	2:31	2.52	8:12 AM	9:14 AM	1:02	1.03
2546	95-209-4	L	4/25/95					8:12 AM	8:47 AM	0:35	0.58
2547	95-223-9	R	5/1/95	8:44 AM	11:54 AM	3:10	3.17	8:24 AM	9:25 AM	1:01	1.02
2548	95-223-9	L	5/1/95					8:24 AM	9:00 AM	0:36	0.6
2549	95-221-5	R	5/2/95	8:27 AM	11:36 AM	3:09	3.15	8:18 AM	9:06 AM	0:48	0.8
2550	95-221-5	L	5/2/95					8:18 AM	8:48 AM	0:30	0.5
2551	95-220-7	R	5/8/95	8:26 AM	11:40 AM	3:14	3.23	8:31 AM	pig died	pig died	pig died
2552	95-220-7	L	5/8/95					8:31 AM	pig died	pig died	pig died
2553	95-225-6	R	5/9/95	8:23 AM	11:44 AM	3:21	3.35	8:09 AM	9:39 AM	1:30	1.5
2554	95-225-6	L	5/9/95					8:09 AM	9:03 AM	0:54	0.9

Suggestions Upon Continuation:

Check the pump and flowmeter. The Monostat Cassette Pump may be delivering an inconsistent flow of perfusion. At CPTC, we calibrate our flowmeters over a period of about one hour for seven areas along the flowmeter. Perhaps a calibration over a single minute is not long enough. The Harvard Apparatus Model 1203 peristaltic pump is the pump used at CPTC. These retail for about \$2,850 (1991 price). CPTC charges \$1000 for each IPPSF experiment. If you must throw out 3 experiments due to an unreliable flowrate, you have paid for the pump. Surges in the perfusate flows may cause a loss of viability through shunting through other vessels to leave red blood cells and dead skin.

The problem may not be in the pump, but in the flowmeter. Vascular resistance is pressure divided by flow rate and glucose utilization is the arterial minus the venous glucose reading times the flow rate. If the inconsistency is in the flowmeter, this will have an impact on vascular resistance and glucose utilization. Since these are two important measures in determining HD affect, it is important to get consistent flowmeter readings, either through acquiring a different pump system or more careful study of the flowmeter.

The problem with inconsistent flow rates may also be with the power supply. At CPTC we recently discarded a UPS that produced an inconsistent power level. We did not notice the changes until we attached an electric fan. There was an audible variation in the flow rate of the fan--surges and slow-downs. Perhaps an in-line voltmeter between the outlet and the pump would confirm or eliminate this concern.

RBC's were seen in about 25% of the tissue samples sent to CPTC. This indicates incomplete perfusion of the skin flap. It is interesting that 11 of the 12 IPPSFs with RBC's were flushed with heparinized Dulbecco's PBS prior to perfusion, 1 of the 12 with heparinized saline. This may suggest that the viscosity of the Dulbecco's PBS may be too great for complete flushing of the capillaries in the IPPSF.

We at CPTC are concerned by the number of IPPSF surgeons at Battelle. We generally limit our number of surgeons to three. This ensures that each individual has the opportunity to develop the experience necessary for proper cannulation and tissue handling. The length of both Stage I and II surgeries are too long and could significantly affect flap viability. Too many cooks will spoil the stew.

Executive Summary:

The attached report is a sequential analysis of all of the isolated perfused porcine skin flap (IPPSF) data submitted by Battelle for comparison with NCSU results. We went through a methodical study of all flaps and selected those IPPSFs which we determined were the best that Battelle produced. The selection criteria is fully documented.

We then proceeded to analyze the primary parameters of IPPSF perfusion and markers of sulfur mustard action in both Battelle and CPTC flaps. These included perfusate flow rate, vascular resistance, normal and cumulative glucose utilization and histology. The conclusion from this analysis is that the control Battelle flaps are highly variable and apparently lose viability at three to four hours after the start of infusion.

We are not sure as to why this is occurring since in all of our experience, we have not seen similar IPPSF profiles. However, there are some indications of potential problems.

Potential Problems:

1.) Too many surgeons precludes any one surgical team from actually getting sufficient experience to master the IPPSF procedure. This is reflected in the prolonged surgery times. Long surgery is associated with numerous problems including longer exposure to anesthetic gases, hypoxia and numerous physiological adaptations. Additionally, inexperienced surgeons tend to produce more subtle tissue damage which is associated with release of cytokines and other inflammatory mediators. Cannulation is not optimal nor reproducible. It is possible that this inexperience coupled with the use of a viscous flushing solution, may have contributed to the abnormal histology seen on many of the earlier flaps. *We suggest that the number of surgeons be reduced so that sufficient experience is gained to decrease the length of surgery.*

2.) There are indications that a major source of variability is related to either maintenance of perfusate flow rate or measurement of flow rate. *The concerns outlined in the report should be investigated.*

3.) One hypothesis for the elevated vascular resistance seen with the flaps relates to when the dosing template is placed on the flap. We hypothesize that placing it on before flap swelling has reached an equilibrium may cause constriction and vascular abnormalities. We have had similar problems on some protocols before. *We suggest that surety regulations be modified such that they can be placed on prior to dosing rather than prior to perfusion.*

4.) *It is imperative that we have the ability to analyze control data before treatments begin. In order to accomplish this, we need physiological data and histology submitted as soon after the experiments as possible if we are to be of any help. Also, as with any organization, we require some turn around time to analyze this data.*

Suggestion for Action:

In an effort to aid Battelle in learning this technology, we suggest that you grant this contract a no-cost extension through June 30, 1996. We would reallocate our funding to be able to provide feedback for you through this time period. We suggest you identify your "best" surgeons, address the above problems and do control IPPSFs until their profiles match those of the CPTC. If this cannot be accomplished, then it is possible that subtle differences in perfusion chambers may be to blame. If this is the case, then we would suggest that you send your team back to NCSU and see what happens if you use our chambers and facilities. We hope that this analysis proves useful and look forward to continued cooperation and hope that the "art" of IPPSF perfusion can be mastered by your staff.

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APPENDIX A(1)
Flow Rate Coefficient of Variance

The SAS System
14:56 Wednesday, August 2, 1995

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
DOSE	8	B-ETOH B-NoTop B15000 B3000 C-ETOH C-NoTop C1500 C3000
FLOWCV	49	0.004 0.005 0.006 0.007 0.008 0.009 0.0023 0.0025 0.0026 0.0027 0.0029 0.0038 0.0039 0.0044 0.0045 0.0047 0.0048 0.0049 0.0051 0.0053 0.0054 0.0056 0.0057 0.0061 0.0062 0.0063 0.0065 0.0068 0.0069 0.0073 0.0079 0.0082 0.0083 0.0084 0.0086 0.0088 0.0094 0.0095 0.0099 0.0101 0.0102 0.0115 0.0121 0.0132 0.0137 0.0139 0.0176 0.0199 0.0232

Number of observations in data set = 55

Analysis of Variance Procedure

Dependent Variable: FLOWCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.00022072	0.00003153	1.99	0.0768
Error	47	0.00074548	0.00001586		
Corrected Total	54	0.00096619			

R-Square	C.V.	Root MSE	FLOWCV Mean
0.228440	51.99228	0.0039826	0.0076600

Source	DF	Anova SS	Mean Square	F Value	Pr > F
DOSE	7	0.00022072	0.00003153	1.99	0.0768

Analysis of Variance Procedure

Flow Rate Coefficient of Variance

T tests (LSD) for variable: FLOWCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 47 MSE= 0.000016
Critical Value of T= 2.01
Least Significant Difference= 0.0049
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 5.245902

Means with the same letter are not significantly different.

T Grouping		Mean	N	DOSE
	A	0.012100	5	B-NoTop
	A			
B	A	0.010025	8	B-EtOH
B	A			
B	A	0.009100	3	B3000
B	A			
B	A	0.008033	3	B15000
B				
B		0.006780	15	C3000
B				
B		0.006460	5	C-ETOH
B				
B		0.006390	10	C-NoTop
B				
B		0.005217	6	C1500

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: FLOWCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 47 MSE= 0.000016

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 5.245902

Number of Means	2	3	4	5	6	7	8
Critical Range	.004947	.005203	.005371	.005492	.005585	.005660	.005720

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	DOSE
	A	0.012100	5	B-NoTop
	A			
B	A	0.010025	8	B-EtOH
B	A			
B	A	0.009100	3	B3000
B	A			
B	A	0.008033	3	B15000
B	A			
B	A	0.006780	15	C3000
B				
B		0.006460	5	C-ETOH
B				
B		0.006390	10	C-NoTop
B				
B		0.005217	6	C1500

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: FLOWCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 47 MSE= 0.000016
Critical Value of Studentized Range= 4.485
Minimum Significant Difference= 0.0078
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 5.245902

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	DOSE
A	0.012100	5	B-NoTop
A			
A	0.010025	8	B-EtOH
A			
A	0.009100	3	B3000
A			
A	0.008033	3	B15000
A			
A	0.006780	15	C3000
A			
A	0.006460	5	C-ETOH
A			
A	0.006390	10	C-NoTop
A			
A	0.005217	6	C1500

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
SITE	2	Battelle CPTC
FLOWCV	49	0.004 0.005 0.006 0.007 0.008 0.009 0.0023 0.0025 0.0026 0.0027 0.0029 0.0038 0.0039 0.0044 0.0045 0.0047 0.0048 0.0049 0.0051 0.0053 0.0054 0.0056 0.0057 0.0061 0.0062 0.0063 0.0065 0.0068 0.0069 0.0073 0.0079 0.0082 0.0083 0.0084 0.0086 0.0088 0.0094 0.0095 0.0099 0.0101 0.0102 0.0115 0.0121 0.0132 0.0137 0.0139 0.0176 0.0199 0.0232

Number of observations in data set = 55

Analysis of Variance Procedure

Dependent Variable: FLOWCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.00017431	0.00017431	11.67	0.0012
Error	53	0.00079188	0.00001494		
Corrected Total	54	0.00096619			

R-Square C.V. Root MSE FLOWCV Mean

0.180414 50.46176 0.0038654 0.0076600

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SITE	1	0.00017431	0.00017431	11.67	0.0012

Analysis of Variance Procedure

T tests (LSD) for variable: FLOWCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 53 MSE= 0.000015
Critical Value of T= 2.01
Least Significant Difference= 0.0022
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 24.87273

Means with the same letter are not significantly different.

T Grouping	Mean	N	SITE
A	0.010111	19	Battelle
B	0.006367	36	CPTC

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: FLOWCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 53 MSE= 0.000015
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 24.87273

Number of Means 2
Critical Range .002198

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	SITE
A	0.010111	19	Battelle
B	0.006367	36	CPTC

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: FLOWCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 53 MSE= 0.000015
 Critical Value of Studentized Range= 2.837
 Minimum Significant Difference= 0.0022
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 24.87273

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	SITE
A	0.010111	19	Battelle
B	0.006367	36	CPTC

OBS	DOSE	SITE	IPPSF	FLOWCV
1	C-NoTop	CPTC	563	0.0065
2	C-NoTop	CPTC	565	0.0039
3	C-NoTop	CPTC	1246	0.0137
4	C-NoTop	CPTC	1374	0.0038
5	C-NoTop	CPTC	1375	0.0048
6	C-NoTop	CPTC	1376	0.0057
7	C-NoTop	CPTC	1377	0.0029
8	C-NoTop	CPTC	1378	0.0088
9	C-NoTop	CPTC	2082	0.0084
10	C-NoTop	CPTC	2083	0.0054
11	C-ETOH	CPTC	1737	0.0040
12	C-ETOH	CPTC	1738	0.0086
13	C-ETOH	CPTC	1739	0.0044
14	C-ETOH	CPTC	1744	0.0051
15	C-ETOH	CPTC	1755	0.0102
16	C3000	CPTC	1745	0.0115
17	C3000	CPTC	1747	0.0090
18	C3000	CPTC	1749	0.0061
19	C3000	CPTC	1750	0.0027
20	C3000	CPTC	1751	0.0176
21	C3000	CPTC	1752	0.0060
22	C3000	CPTC	1761	0.0068
23	C3000	CPTC	1768	0.0070
24	C3000	CPTC	1769	0.0023
25	C3000	CPTC	1828	0.0080
26	C3000	CPTC	1829	0.0062
27	C3000	CPTC	1834	0.0049
28	C3000	CPTC	1835	0.0026
29	C3000	CPTC	1836	0.0047
30	C3000	CPTC	1837	0.0063
31	C1500	CPTC	1741	0.0025
32	C1500	CPTC	1742	0.0039
33	C1500	CPTC	1743	0.0045
34	C1500	CPTC	1746	0.0057
35	C1500	CPTC	1748	0.0094
36	C1500	CPTC	1754	0.0053
37	B-NoTop	Battelle	2521	0.0139
38	B-NoTop	Battelle	2522	0.0115
39	B-NoTop	Battelle	2547	0.0083
40	B-NoTop	Battelle	2549	0.0199
41	B-NoTop	Battelle	2553	0.0069
42	B-EtOH	Battelle	2530	0.0099

43	B-EtOH	Battelle	2531	0.0056
44	B-EtOH	Battelle	2533	0.0082
45	B-EtOH	Battelle	2540	0.0053
46	B-EtOH	Battelle	2545	0.0053
47	B-EtOH	Battelle	2546	0.0232
48	B-EtOH	Battelle	2548	0.0132
49	B-EtOH	Battelle	2550	0.0095
50	B3000	Battelle	2524	0.0121
51	B3000	Battelle	2525	0.0079
52	B3000	Battelle	2527	0.0073
53	B15000	Battelle	2536	0.0090
54	B15000	Battelle	2541	0.0050
55	B15000	Battelle	2544	0.0101

APPENDIX A(2a)
Vascular Resistance Coefficient of Variance

The SAS System
15:19 Wednesday, August 2, 1995

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
DOSE	8	B-ETOH B-NoTop B15000 B3000 C-ETOH C-NoTop C1500 C3000
VRCV	58	0.01 0.08 0.019 0.034 0.039 0.049 0.058 0.0121 0.0125 0.0149 0.0159 0.0195 0.0216 0.0223 0.0227 0.0235 0.0238 0.0245 0.0257 0.0268 0.0287 0.0315 0.0348 0.0373 0.0394 0.0412 0.0424 0.0427 0.0466 0.0508 0.0522 0.0529 0.0532 0.0546 0.0551 0.0596 0.0602 0.0608 0.0618 0.0621 0.0638 0.0639 0.0678 0.0702 0.0727 0.0734 0.0736 0.0752 0.0798 0.0835 0.0847 0.0851 0.0861 0.0911 0.1058 0.1062 0.1288 0.1733

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: VRCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.02930531	0.00418647	8.00	0.0001
Error	50	0.02616552	0.00052331		
Corrected Total	57	0.05547083			

R-Square	C.V.	Root MSE	VRCV Mean
0.528301	42.69417	0.0228760	0.0535810

Source	DF	Anova SS	Mean Square	F Value	Pr > F
DOSE	7	0.02930531	0.00418647	8.00	0.0001

Analysis of Variance Procedure

Vascular Resistance Coefficient of Variance

T tests (LSD) for variable: VRCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 50 MSE= 0.000523
Critical Value of T= 2.01
Least Significant Difference= 0.0263
WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

T Grouping		Mean	N	DOSE
	A	0.08413	15	C3000
	A			
B	A	0.06750	6	C1500
B				
B		0.05758	10	C-NoTop
B				
B	C	0.04728	5	C-ETOH
	C			
	C	0.02998	8	B-EtOH
	C			
	C	0.02846	5	B-NoTop
	C			
	C	0.02783	4	B3000
	C			
	C	0.02704	5	B15000

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: VRCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 50 MSE= 0.000523

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 6.11465

Number of Means	2	3	4	5	6	7	8
Critical Range	.02628	.02764	.02853	.02918	.02968	.03008	.03040

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	DOSE
	A	0.08413	15	C3000
	A			
B	A	0.06750	6	C1500
B	A			
B	A	0.05758	10	C-NoTop
B	C			
B	C	0.04728	5	C-ETOH
	D			
	D	0.02998	8	B-EtOH
	D			
	D	0.02846	5	B-NoTop
	D			
	D	0.02783	4	B3000
	D			
	D	0.02704	5	B15000

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: VRCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 50 MSE= 0.000523
 Critical Value of Studentized Range= 4.473
 Minimum Significant Difference= 0.0414
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

Tukey Grouping		Mean	N	DOSE
	A	0.08413	15	C3000
	A			
B	A	0.06750	6	C1500
B	A			
B	A	0.05758	10	C-NoTop
B	A			
B	A	0.04728	5	C-ETOH
B				
B		0.02998	8	B-ETOH
B				
B		0.02846	5	B-NoTop
B				
B		0.02783	4	B3000
B				
B		0.02704	5	B15000

Analysis of Variance Procedure
 Class Level Information

Class	Levels	Values
SITE	2	Battelle CPTC
VRCV	58	0.01 0.08 0.019 0.034 0.039 0.049 0.058 0.0121 0.0125 0.0149 0.0159 0.0195 0.0216 0.0223 0.0227 0.0235 0.0238 0.0245 0.0257 0.0268 0.0287 0.0315 0.0348 0.0373 0.0394 0.0412 0.0424 0.0427 0.0466 0.0508 0.0522 0.0529 0.0532 0.0546 0.0551 0.0596 0.0602 0.0608 0.0618 0.0621 0.0638 0.0639 0.0678 0.0702 0.0727 0.0734 0.0736 0.0752 0.0798 0.0835 0.0847 0.0851 0.0861 0.0911 0.1058 0.1062 0.1288 0.1733

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: VRCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02216750	0.02216750	37.27	0.0001
Error	56	0.03330333	0.00059470		

Corrected Total	57	0.05547083		
	R-Square	C.V.	Root MSE	VRCV Mean
	0.399625	45.51334	0.0243865	0.0535810

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SITE	1	0.02216750	0.02216750	37.27	0.0001

Analysis of Variance Procedure

T tests (LSD) for variable: VRCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 56 MSE= 0.000595
Critical Value of T= 2.00
Least Significant Difference= 0.0132
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

T Grouping	Mean	N	SITE
A	0.068864	36	CPTC
B	0.028573	22	Battelle

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: VRCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 56 MSE= 0.000595
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 27.31034

Number of Means 2
Critical Range .01322

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	SITE
A	0.068864	36	CPTC
B	0.028573	22	Battelle

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: VRCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 56 MSE= 0.000595
 Critical Value of Studentized Range= 2.833
 Minimum Significant Difference= 0.0132
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	SITE
A	0.068864	36	CPTC
B	0.028573	22	Battelle

OBS	DOSE	SITE	IPPSF	VRCV
1	C-NoTop	CPTC	563	0.0639
2	C-NoTop	CPTC	565	0.0466
3	C-NoTop	CPTC	1246	0.0621
4	C-NoTop	CPTC	1374	0.0911
5	C-NoTop	CPTC	1375	0.0752
6	C-NoTop	CPTC	1376	0.0678
7	C-NoTop	CPTC	1377	0.0546
8	C-NoTop	CPTC	1378	0.0800
9	C-NoTop	CPTC	2082	0.0100
10	C-NoTop	CPTC	2083	0.0245
11	C-ETOH	CPTC	1737	0.0427
12	C-ETOH	CPTC	1738	0.0508
13	C-ETOH	CPTC	1739	0.0596
14	C-ETOH	CPTC	1744	0.0195
15	C-ETOH	CPTC	1755	0.0638
16	C3000	CPTC	1745	0.0580
17	C3000	CPTC	1747	0.0618
18	C3000	CPTC	1749	0.0734
19	C3000	CPTC	1750	0.0424
20	C3000	CPTC	1751	0.1288
21	C3000	CPTC	1752	0.0602
22	C3000	CPTC	1761	0.0727
23	C3000	CPTC	1768	0.0798
24	C3000	CPTC	1769	0.1058
25	C3000	CPTC	1828	0.0847
26	C3000	CPTC	1829	0.0736
27	C3000	CPTC	1834	0.0861
28	C3000	CPTC	1835	0.0551
29	C3000	CPTC	1836	0.1062
30	C3000	CPTC	1837	0.1733
31	C1500	CPTC	1741	0.0702
32	C1500	CPTC	1742	0.0522
33	C1500	CPTC	1743	0.0835
34	C1500	CPTC	1746	0.0851
35	C1500	CPTC	1748	0.0608
36	C1500	CPTC	1754	0.0532
37	B-NoTop	Battelle	2521	0.0125
38	B-NoTop	Battelle	2522	0.0227

39	B-NoTop	Battelle	2547	0.0390
40	B-NoTop	Battelle	2549	0.0394
41	B-NoTop	Battelle	2553	0.0287
42	B-EtOH	Battelle	2530	0.0348
43	B-EtOH	Battelle	2531	0.0315
44	B-EtOH	Battelle	2533	0.0223
45	B-EtOH	Battelle	2540	0.0238
46	B-EtOH	Battelle	2545	0.0412
47	B-EtOH	Battelle	2546	0.0373
48	B-EtOH	Battelle	2548	0.0340
49	B-EtOH	Battelle	2550	0.0149
50	B3000	Battelle	2524	0.0529
51	B3000	Battelle	2525	0.0190
52	B3000	Battelle	2527	0.0159
53	B3000	Battelle	2534	0.0235
54	B15000	Battelle	2536	0.0121
55	B15000	Battelle	2541	0.0257
56	B15000	Battelle	2542	0.0268
57	B15000	Battelle	2543	0.0216
58	B15000	Battelle	2544	0.0490

APPENDIX A(2b)
Vascular Resistance Regression R-Square Measure

The SAS System
13:23 Thursday, August 3, 1995

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
DOSE	8	B-ETOH B-NOTOP B15000 B3000 C-ETOH C-NoTop C1500 C3000
VRR2	52	0 1 0.11 0.56 0.89 0.003 0.006 0.007 0.027 0.032 0.046 0.067 0.091 0.112 0.144 0.203 0.237 0.242 0.319 0.406 0.437 0.459 0.479 0.516 0.534 0.538 0.578 0.584 0.651 0.738 0.745 0.751 0.768 0.786 0.791 0.815 0.818 0.832 0.836 0.841 0.855 0.863 0.866 0.871 0.872 0.884 0.905 0.919 0.944 0.945 0.953 0.954

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: VRR2

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.95930045	0.27990006	2.87	0.0133
Error	50	4.86857618	0.09737152		
Corrected Total	57	6.82787662			
	R-Square	C.V.	Root MSE		VRR2 Mean
	0.286956	55.40149	0.3120441		0.5632414

Source	DF	Anova SS	Mean Square	F Value	Pr > F
DOSE	7	1.95930045	0.27990006	2.87	0.0133

Analysis of Variance Procedure

Vascular Resistance Regression R-Square Measure

T tests (LSD) for variable: VRR2

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 50 MSE= 0.097372
Critical Value of T= 2.01
Least Significant Difference= 0.3585
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

T Grouping			Mean	N	DOSE
	A		0.7898	10	C-NoTop
	A				
	A		0.7038	5	C-ETOH
	A				
B	A		0.6368	15	C3000
B	A				
B	A		0.5995	6	C1500
B	A				
B	A	C	0.5456	8	B-EtOH
B		C			
B		C	0.3034	5	B15000
B		C			
B		C	0.2940	4	B3000
		C			
		C	0.2088	5	B-NOTOP

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: VRR2

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 50 MSE= 0.097372

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 6.11465

Number of Means	2	3	4	5	6	7	8
Critical Range	.3585	.3770	.3892	.3981	.4048	.4103	.4147

Means with the same letter are not significantly different.

Duncan Grouping			Mean	N	DOSE
	A		0.7898	10	C-NoTop
	A				
	A		0.7038	5	C-ETOH
	A				
B	A		0.6368	15	C3000
B	A				
B	A	C	0.5995	6	C1500
B	A	C			
B	A	C	0.5456	8	B-EtOH
B		C			
B		C	0.3034	5	B15000
B		C			
B		C	0.2940	4	B3000
		C			
		C	0.2088	5	B-NOTOP

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: VRR2

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 50 MSE= 0.097372
 Critical Value of Studentized Range= 4.473
 Minimum Significant Difference= 0.5644
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

Tukey Grouping		Mean	N	DOSE
	A	0.7898	10	C-NoTop
	A			
B	A	0.7038	5	C-ETOH
B	A			
B	A	0.6368	15	C3000
B	A			
B	A	0.5995	6	C1500
B	A			
B	A	0.5456	8	B-ETOH
B	A			
B	A	0.3034	5	B15000
B	A			
B	A	0.2940	4	B3000
B				
B		0.2088	5	B-NOTOP

Analysis of Variance Procedure Class Level Information

Class	Levels	Values
SITE	2	Battelle CPTC
VRR2	52	0 1 0.11 0.56 0.89 0.003 0.006 0.007 0.027 0.032 0.046 0.067 0.091 0.112 0.144 0.203 0.237 0.242 0.319 0.406 0.437 0.459 0.479 0.516 0.534 0.538 0.578 0.584 0.651 0.738 0.745 0.751 0.768 0.786 0.791 0.815 0.818 0.832 0.836 0.841 0.855 0.863 0.866 0.871 0.872 0.884 0.905 0.919 0.944 0.945 0.953 0.954

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: VRR2

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.34734170	1.34734170	13.77	0.0005
Error	56	5.48053492	0.09786669		
Corrected Total	57	6.82787662			

R-Square

C.V.

Root MSE

VRR2 Mean

0.197330

55.54218

0.3128365

0.5632414

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SITE	1	1.34734170	1.34734170	13.77	0.0005

Analysis of Variance Procedure

T tests (LSD) for variable: VRR2

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 56 MSE= 0.097867
 Critical Value of T= 2.00
 Least Significant Difference= 0.1696
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

T Grouping	Mean	N	SITE
A	0.68239	36	CPTC
B	0.36827	22	Battelle

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: VRR2

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 56 MSE= 0.097867
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Number of Means 2
 Critical Range .1696

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	SITE
A	0.68239	36	CPTC
B	0.36827	22	Battelle

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: VRR2

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 56 MSE= 0.097867
 Critical Value of Studentized Range= 2.833
 Minimum Significant Difference= 0.1696
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	SITE
A	0.68239	36	CPTC
B	0.36827	22	Battelle

OBS	DOSE	SITE	IPPSF	VRR2
1	C-NoTop	CPTC	563	0.832
2	C-NoTop	CPTC	565	0.242
3	C-NoTop	CPTC	1246	1.000
4	C-NoTop	CPTC	1374	0.786
5	C-NoTop	CPTC	1375	0.905
6	C-NoTop	CPTC	1376	0.651
7	C-NoTop	CPTC	1377	0.944
8	C-NoTop	CPTC	1378	0.538
9	C-NoTop	CPTC	2082	1.000
10	C-NoTop	CPTC	2083	1.000
11	C-ETOH	CPTC	1737	0.815
12	C-ETOH	CPTC	1738	0.872
13	C-ETOH	CPTC	1739	0.954
14	C-ETOH	CPTC	1744	0.007
15	C-ETOH	CPTC	1755	0.871
16	C1500	CPTC	1741	0.863
17	C1500	CPTC	1742	0.112
18	C1500	CPTC	1743	0.768
19	C1500	CPTC	1746	0.945
20	C1500	CPTC	1748	0.863
21	C1500	CPTC	1754	0.046
22	C3000	CPTC	1745	0.237
23	C3000	CPTC	1747	0.000
24	C3000	CPTC	1749	0.578
25	C3000	CPTC	1750	0.738
26	C3000	CPTC	1751	0.836
27	C3000	CPTC	1752	0.953
28	C3000	CPTC	1761	0.584
29	C3000	CPTC	1768	0.890
30	C3000	CPTC	1769	0.791
31	C3000	CPTC	1828	0.919
32	C3000	CPTC	1829	0.841
33	C3000	CPTC	1834	0.866
34	C3000	CPTC	1835	0.855
35	C3000	CPTC	1836	0.437
36	C3000	CPTC	1837	0.027
37	B-NOTOP	Battelle	2521	0.144
38	B-NOTOP	Battelle	2522	0.032
39	B-NOTOP	Battelle	2547	0.406
40	B-NOTOP	Battelle	2549	0.003
41	B-NOTOP	Battelle	2553	0.459
42	B-ETOH	Battelle	2530	0.751

43	B-EtOH	Battelle	2531	0.818
44	B-EtOH	Battelle	2533	0.534
45	B-EtOH	Battelle	2540	0.516
46	B-EtOH	Battelle	2545	0.479
47	B-EtOH	Battelle	2546	0.319
48	B-EtOH	Battelle	2548	0.745
49	B-EtOH	Battelle	2550	0.203
50	B3000	Battelle	2524	0.738
51	B3000	Battelle	2525	0.091
52	B3000	Battelle	2527	0.237
53	B3000	Battelle	2534	0.110
54	B15000	Battelle	2536	0.006
55	B15000	Battelle	2541	0.000
56	B15000	Battelle	2542	0.560
57	B15000	Battelle	2543	0.884
58	B15000	Battelle	2544	0.067

APPENDIX A(3)
Glucose Utilization Coefficient of Variance

The SAS System
15:22 Wednesday, August 2, 1995

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
DOSE	8	B-ETOH B-NoTop B15000 B3000 C-ETOH C-NoTop C1500 C3000
GUCV	57	0.017 0.031 0.036 0.067 0.076 0.0063 0.0084 0.0091 0.0115 0.0133 0.0136 0.0139 0.0146 0.0149 0.0153 0.0158 0.0168 0.0169 0.0174 0.0175 0.0178 0.0186 0.0188 0.0197 0.0209 0.0217 0.0265 0.0279 0.0287 0.0295 0.0305 0.0313 0.0348 0.0351 0.0361 0.0368 0.0375 0.0394 0.0403 0.0416 0.0417 0.0489 0.0498 0.0566 0.0639 0.0642 0.0648 0.0727 0.0731 0.0766 0.0783 0.0813 0.0858 0.0891 0.0982 0.1146 0.1273

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: GUCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.02866129	0.00409447	11.13	0.0001
Error	50	0.01838897	0.00036778		
Corrected Total	57	0.04705025			

R-Square	C.V.	Root MSE	GUCV Mean
0.609163	47.74636	0.0191776	0.0401655

Source	DF	Anova SS	Mean Square	F Value	Pr > F
DOSE	7	0.02866129	0.00409447	11.13	0.0001

Analysis of Variance Procedure

Glucose Utilization Coefficient of Variance

T tests (LSD) for variable: GUCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 50 MSE= 0.000368
Critical Value of T= 2.01
Least Significant Difference= 0.022
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

T Grouping	Mean	N	DOSE
A	0.07562	5	B-NoTop
A			
A	0.06960	4	B3000
A			
A	0.06916	8	B-ETOH
A			
A	0.05674	5	B15000
B			
B	0.02757	6	C1500
B			
B	0.02616	10	C-NoTop
B			
B	0.02191	15	C3000
B			
B	0.01610	5	C-ETOH

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: GUCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 50 MSE= 0.000368

WARNING: Cell sizes are not equal.

Harmonic Mean of cell sizes= 6.11465

Number of Means	2	3	4	5	6	7	8
Critical Range	.02203	.02317	.02392	.02446	.02488	.02521	.02549

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	DOSE
A	0.07562	5	B-NoTop
A			
A	0.06960	4	B3000
A			
A	0.06916	8	B-ETOH
A			
A	0.05674	5	B15000
B			
B	0.02757	6	C1500
B			
B	0.02616	10	C-NoTop
B			
B	0.02191	15	C3000
B			
B	0.01610	5	C-ETOH

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: GUCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 50 MSE= 0.000368
 Critical Value of Studentized Range= 4.473
 Minimum Significant Difference= 0.0347
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 6.11465

Means with the same letter are not significantly different.

Tukey Grouping		Mean	N	DOSE
	A	0.07562	5	B-NoTop
	A			
	A	0.06960	4	B3000
	A			
	A	0.06916	8	B-ETOH
	A			
B	A	0.05674	5	B15000
B				
B	C	0.02757	6	C1500
B	C			
B	C	0.02616	10	C-NoTop
	C			
	C	0.02191	15	C3000
	C			
	C	0.01610	5	C-ETOH

Analysis of Variance Procedure Class Level Information

Class	Levels	Values
SITE	2	Battelle CPTC
GUCV	57	0.017 0.031 0.036 0.067 0.076 0.0063 0.0084 0.0091 0.0115 0.0133 0.0136 0.0139 0.0146 0.0149 0.0153 0.0158 0.0168 0.0169 0.0174 0.0175 0.0178 0.0186 0.0188 0.0197 0.0209 0.0217 0.0265 0.0279 0.0287 0.0295 0.0305 0.0313 0.0348 0.0351 0.0361 0.0368 0.0375 0.0394 0.0403 0.0416 0.0417 0.0489 0.0498 0.0566 0.0639 0.0642 0.0648 0.0727 0.0731 0.0766 0.0783 0.0813 0.0858 0.0891 0.0982 0.1146 0.1273

Number of observations in data set = 58

Analysis of Variance Procedure

Dependent Variable: GUCV

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02723712	0.02723712	76.98	0.0001
Error	56	0.01981313	0.00035381		
Corrected Total	57	0.04705025			

R-Square C.V. Root MSE GUCV Mean

0.578894 46.83054 0.0188097 0.0401655

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SITE	1	0.02723712	0.02723712	76.98	0.0001

Analysis of Variance Procedure

T tests (LSD) for variable: GUCV

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 56 MSE= 0.000354
 Critical Value of T= 2.00
 Least Significant Difference= 0.0102
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

T Grouping	Mean	N	SITE
A	0.067886	22	Battelle
B	0.023225	36	CPTC

Analysis of Variance Procedure

Duncan's Multiple Range Test for variable: GUCV

NOTE: This test controls the type I comparisonwise error rate, not the experimentwise error rate

Alpha= 0.05 df= 56 MSE= 0.000354
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Number of Means 2
 Critical Range .01020

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	SITE
A	0.067886	22	Battelle
B	0.023225	36	CPTC

Analysis of Variance Procedure

Tukey's Studentized Range (HSD) Test for variable: GUCV

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 56 MSE= 0.000354
 Critical Value of Studentized Range= 2.833
 Minimum Significant Difference= 0.0102
 WARNING: Cell sizes are not equal.
 Harmonic Mean of cell sizes= 27.31034

Means with the same letter are not significantly different.

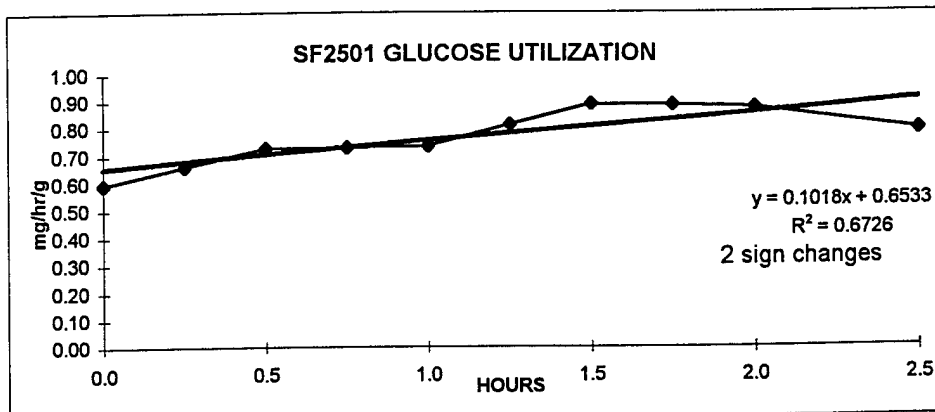
Tukey Grouping	Mean	N	SITE
A	0.067886	22	Battelle
B	0.023225	36	CPTC

OBS	DOSE	SITE	IPPSF	GUCV
1	C-NoTop	CPTC	563	0.0279
2	C-NoTop	CPTC	565	0.0295
3	C-NoTop	CPTC	1246	0.0361
4	C-NoTop	CPTC	1374	0.0168
5	C-NoTop	CPTC	1375	0.0149
6	C-NoTop	CPTC	1376	0.0375
7	C-NoTop	CPTC	1377	0.0360
8	C-NoTop	CPTC	1378	0.0310
9	C-NoTop	CPTC	2082	0.0186
10	C-NoTop	CPTC	2083	0.0133
11	C-ETOH	CPTC	1737	0.0188
12	C-ETOH	CPTC	1738	0.0158
13	C-ETOH	CPTC	1739	0.0115
14	C-ETOH	CPTC	1744	0.0169
15	C-ETOH	CPTC	1755	0.0175
16	C3000	CPTC	1745	0.0351
17	C3000	CPTC	1747	0.0178
18	C3000	CPTC	1749	0.0153
19	C3000	CPTC	1750	0.0197
20	C3000	CPTC	1751	0.0403
21	C3000	CPTC	1752	0.0063
22	C3000	CPTC	1761	0.0139
23	C3000	CPTC	1768	0.0305
24	C3000	CPTC	1769	0.0394
25	C3000	CPTC	1828	0.0217
26	C3000	CPTC	1829	0.0169
27	C3000	CPTC	1834	0.0146
28	C3000	CPTC	1835	0.0170
29	C3000	CPTC	1836	0.0136
30	C3000	CPTC	1837	0.0265
31	C1500	CPTC	1741	0.0084
32	C1500	CPTC	1742	0.0313
33	C1500	CPTC	1743	0.0670
34	C1500	CPTC	1746	0.0287
35	C1500	CPTC	1748	0.0209
36	C1500	CPTC	1754	0.0091
37	B-NoTop	Battelle	2521	0.0760
38	B-NoTop	Battelle	2522	0.0368
39	B-NoTop	Battelle	2547	0.1273
40	B-NoTop	Battelle	2549	0.0891
41	B-NoTop	Battelle	2553	0.0489
42	B-ETOH	Battelle	2530	0.0642

43	B-ETOH	Battelle	2531	0.1146
44	B-ETOH	Battelle	2533	0.0348
45	B-ETOH	Battelle	2540	0.0639
46	B-ETOH	Battelle	2545	0.0648
47	B-ETOH	Battelle	2546	0.0731
48	B-ETOH	Battelle	2548	0.0566
49	B-ETOH	Battelle	2550	0.0813
50	B3000	Battelle	2524	0.0783
51	B3000	Battelle	2525	0.0416
52	B3000	Battelle	2527	0.0727
53	B3000	Battelle	2534	0.0858
54	B15000	Battelle	2536	0.0174
55	B15000	Battelle	2541	0.0982
56	B15000	Battelle	2542	0.0498
57	B15000	Battelle	2543	0.0417
58	B15000	Battelle	2544	0.0766

2501 GLUCOSE UTILIZATION

0.00	0.5943
0.25	0.6606
0.50	0.7266
0.75	0.7305
1.00	0.7345
1.25	0.8118
1.50	0.8898
1.75	0.8854
2.00	0.8776
2.50	0.7934

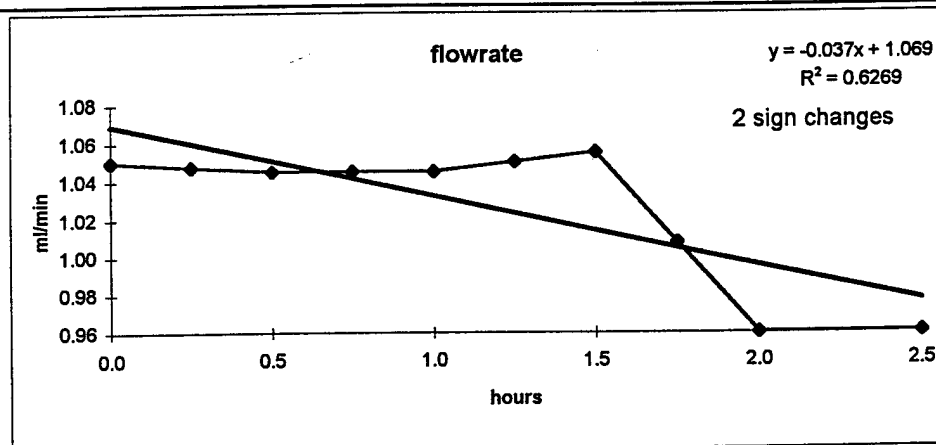


2501 VASCULAR RESISTANCE
NO PRESSURE READINGS
AVAILABLE

NO PRESSURE READINGS

2501 flowrate

0.00	1.05
0.25	1.05
0.50	1.05
0.75	1.05
1.00	1.05
1.25	1.05
1.50	1.06
1.75	1.01
2.00	0.96
2.50	0.96



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 1

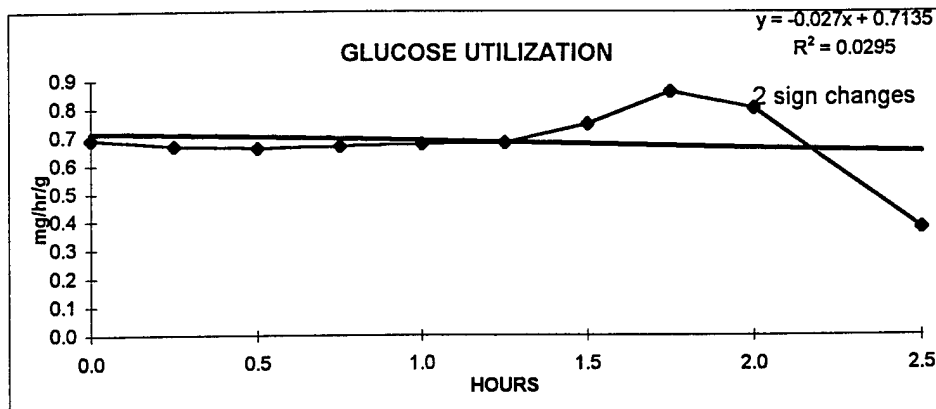
NO TEMPLATE

BLISTERED, BRUISED, TURGID, FLAP CONSTRICTED BY BANDAGE

2502PLOT.XLS
NO DOSE

2502 GLUCOSE UTILIZATION

0.00	0.6907
0.25	0.6680
0.50	0.6610
0.75	0.6674
1.00	0.6736
1.25	0.6794
1.50	0.7441
1.75	0.8599
2.00	0.8016
2.50	0.3790

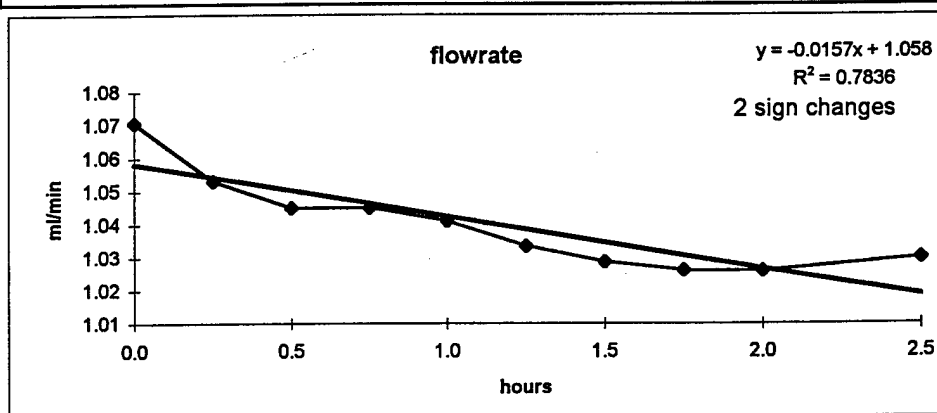


2502 VASCULAR RESISTANCE
NO PRESSURE READINGS
AVAILABLE

NO PRESSURE READINGS

2502 FLOWRATE

0.00	1.07
0.25	1.05
0.50	1.05
0.75	1.05
1.00	1.04
1.25	1.03
1.50	1.03
1.75	1.03
2.00	1.03
2.50	1.03



NO HISTOLOGY DATA

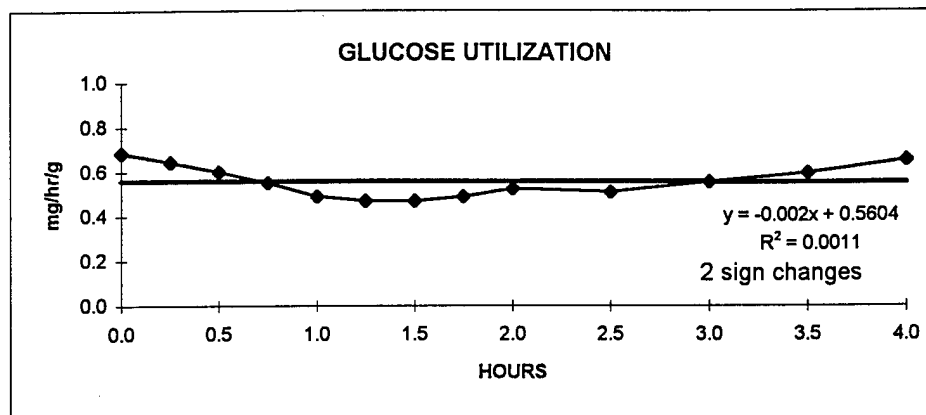
NO TEMPLATE

FLAP RED, CONSTRICTED BY BANDAGE

2503PLOT.XLS
NO DOSE

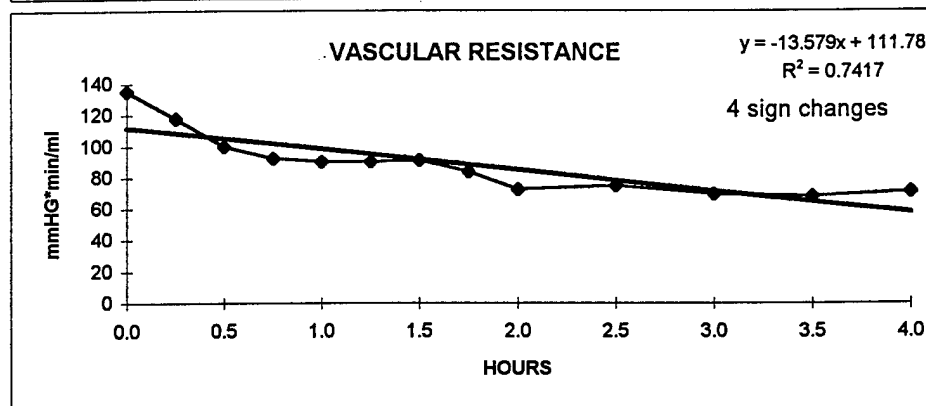
2503 GLUCOSE UTILIZATION

0.00	0.6847
0.25	0.6424
0.50	0.6013
0.75	0.5506
1.00	0.4911
1.25	0.4697
1.50	0.4685
1.75	0.4903
2.00	0.5246
2.50	0.5105
3.00	0.5556
3.50	0.5967
4.00	0.6561



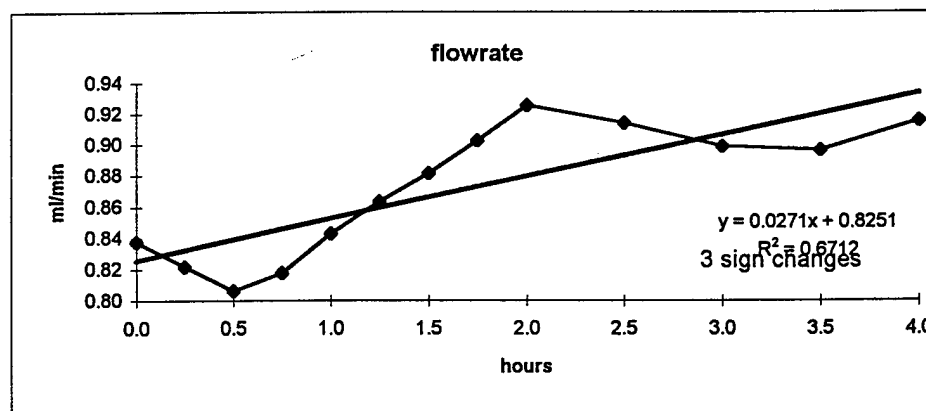
2503 VASCULAR RESISTANCE

0.00	134.95
0.25	117.70
0.50	99.77
0.75	92.14
1.00	90.00
1.25	89.99
1.50	90.96
1.75	83.47
2.00	72.23
2.50	74.59
3.00	69.36
3.50	68.04
4.00	71.19



2503 FLOWRATE

0.00	0.84
0.25	0.82
0.50	0.81
0.75	0.82
1.00	0.84
1.25	0.86
1.50	0.88
1.75	0.90
2.00	0.93
2.50	0.91
3.00	0.90
3.50	0.90
4.00	0.92



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

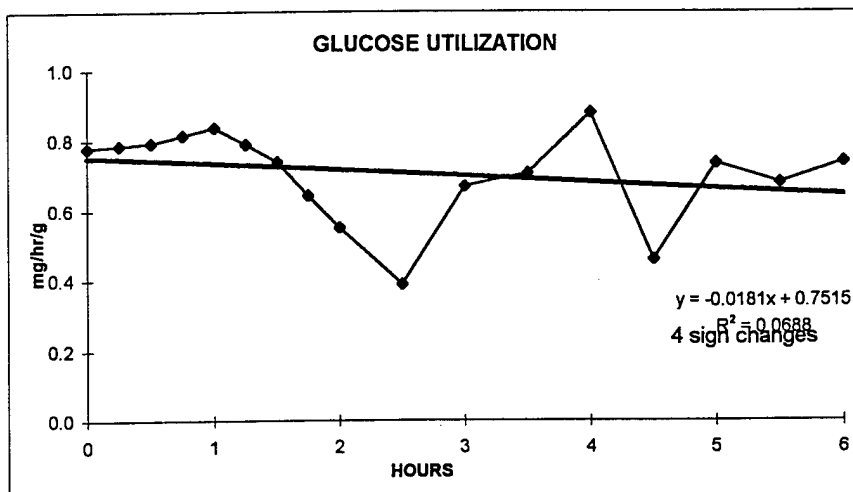
NO TEMPLATE

FLACCID, NO ALTERATIONS

2505PLOT.XLS
DOSE = 300 UL ETOH

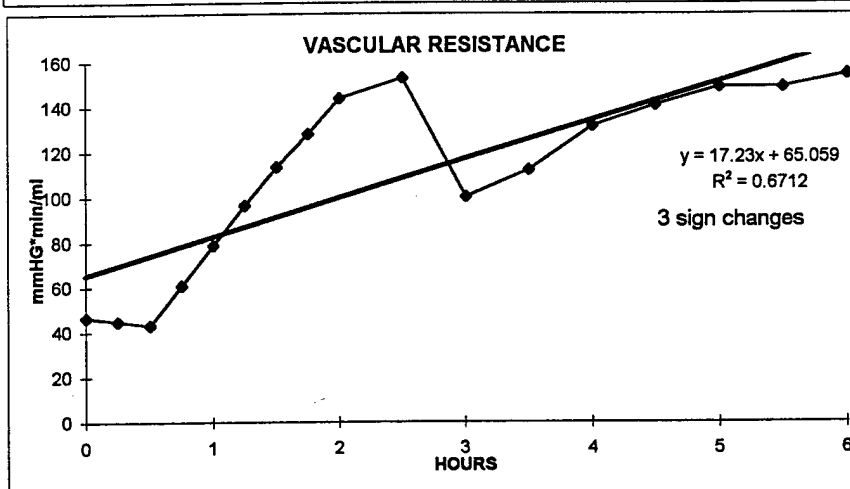
2505 GLUCOSE UTILIZATION

0.00	0.7787
0.25	0.7863
0.50	0.7939
0.75	0.8155
1.00	0.8369
1.25	0.7898
1.50	0.7399
1.75	0.6436
2.00	0.5513
2.50	0.3890
3.00	0.6695
3.50	0.7062
4.00	0.8793
4.50	0.4594
5.00	0.7371
5.50	0.6816
6.00	0.7406



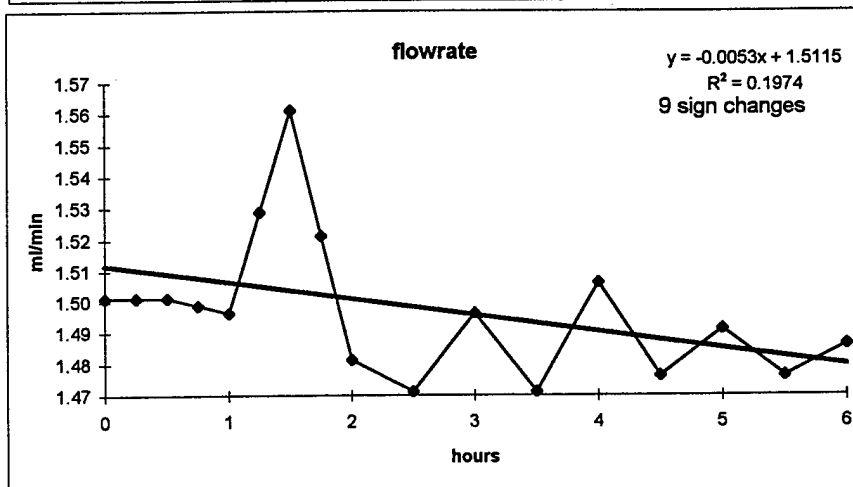
2505 VASCULAR RESISTANCE

0.00	46.63
0.25	44.96
0.50	43.30
0.75	61.05
1.00	78.86
1.25	96.48
1.50	113.36
1.75	128.18
2.00	143.79
2.50	152.93
3.00	100.25
3.50	112.15
4.00	131.45
4.50	140.89
5.00	148.86
5.50	149.02
6.00	154.75



2505 FLOWRATE

0.00	1.50
0.25	1.50
0.50	1.50
0.75	1.50
1.00	1.50
1.25	1.53
1.50	1.56
1.75	1.52
2.00	1.48
2.50	1.47
3.00	1.50
3.50	1.47
4.00	1.51
4.50	1.48
5.00	1.49
5.50	1.48
6.00	1.49



MICRO DARK RBCs in DERMAL
Vessels BASAL VESSELS INFLAM
0 0 0 0

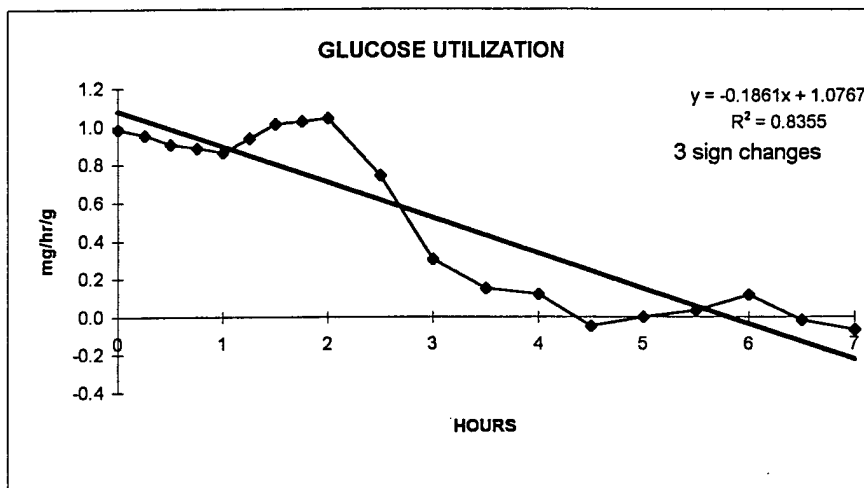
TEMPLATE

FLAP TURGID/FLACCID WITH BLISTERING, HIGH PRESSURE

2506PLOT.XLS
DOSE = 300 UL ETOH

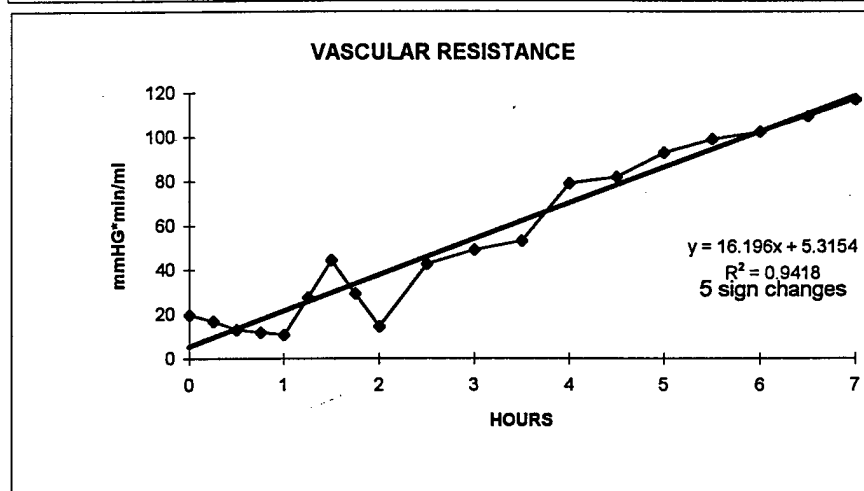
2506 GLUCOSE UTILIZATION

0.00	0.9838
0.25	0.9532
0.50	0.9053
0.75	0.8845
1.00	0.8639
1.25	0.9383
1.50	1.0125
1.75	1.0273
2.00	1.0422
2.50	0.7435
3.00	0.3042
3.50	0.1501
4.00	0.1179
4.50	-0.0474
5.00	0.0000
5.50	0.0321
6.00	0.1139
6.50	-0.0167
7.00	-0.0676



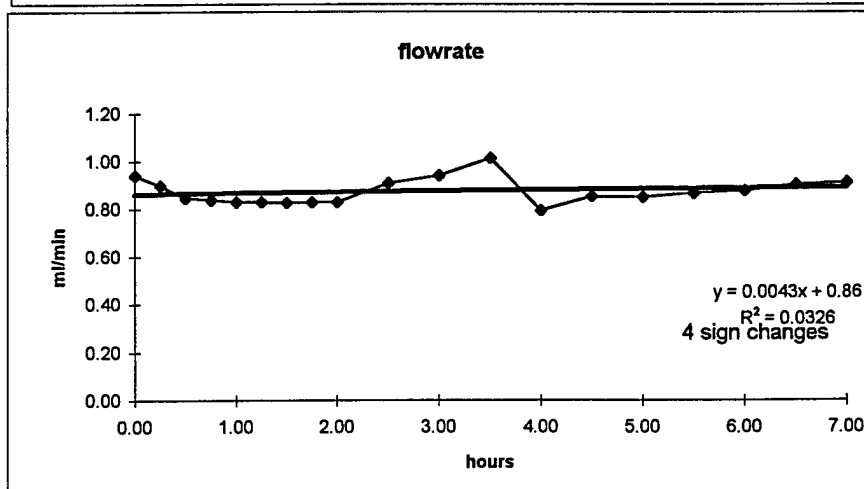
2506 VASCULAR RESISTANCE

0.00	19.88
0.25	16.89
0.50	13.03
0.75	11.94
1.00	10.84
1.25	27.64
1.50	44.49
1.75	29.45
2.00	14.46
2.50	42.75
3.00	49.00
3.50	53.30
4.00	79.18
4.50	82.07
5.00	92.93
5.50	99.16
6.00	102.42
6.50	109.46
7.00	117.19



2506 FLOWRATE

0.00	0.94
0.25	0.90
0.50	0.84
0.75	0.84
1.00	0.83
1.25	0.83
1.50	0.83
1.75	0.83
2.00	0.83
2.50	0.91
3.00	0.94
3.50	1.01
4.00	0.80
4.50	0.85
5.00	0.85
5.50	0.87
6.00	0.88
6.50	0.90
7.00	0.91



Micro Vessels	Dark Basal	RBCs in Vessels	Dermal Inflam
0	0	0	1

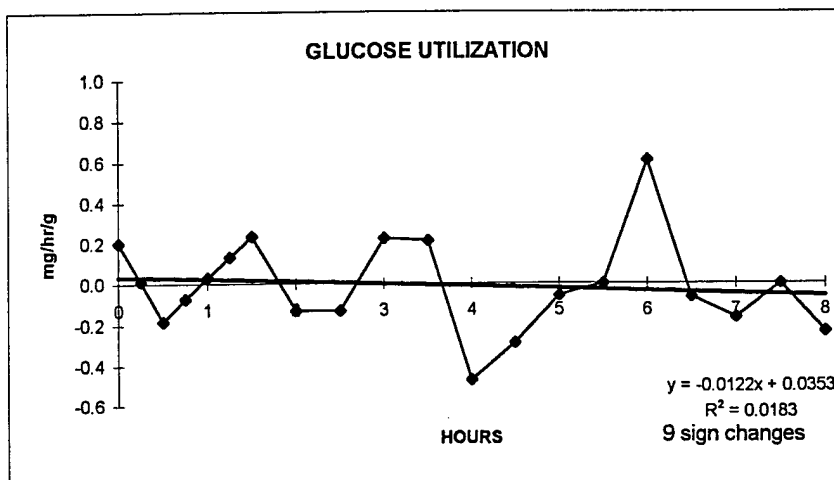
TEMPLATE

FLAP FLACCID, NO ALTERATIONS, 8 HIGH PH READINGS

2507PLOT.XLS
NO DOSE

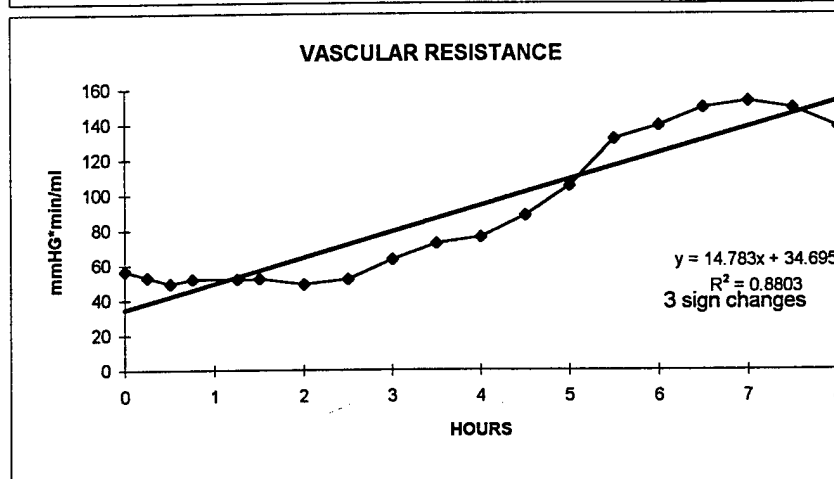
2507 GLUCOSE UTILIZATION

0.00	0.20
0.25	0.01
0.50	-0.18
0.75	-0.07
1.00	0.03
1.25	0.13
1.50	0.23
2.00	-0.13
2.50	-0.13
3.00	0.22
3.50	0.21
4.00	-0.47
4.50	-0.29
5.00	-0.06
5.50	0.00
6.00	0.61
6.50	-0.06
7.00	-0.17
7.50	0.00
8.00	-0.24



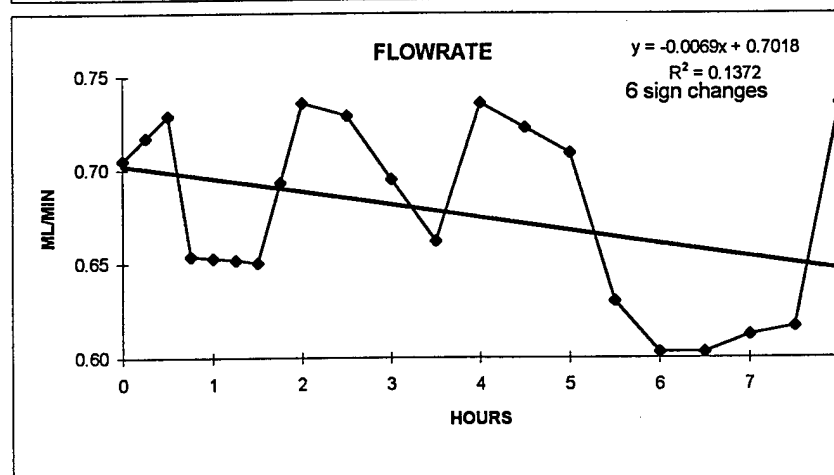
2507 VASCULAR RESISTANCE

0.00	56.7296
0.25	52.9971
0.50	49.3866
0.75	51.9874
1.25	52.1685
1.50	52.2596
2.00	48.9293
2.50	52.1303
3.00	63.3203
3.50	72.3218
4.00	76.1123
4.50	88.2156
5.00	105.2717
5.50	131.7124
6.00	139.3242
6.50	149.2759
7.00	152.9505
7.50	149.2209
8.00	138.6331



2507 FLOWRATE

0.00	0.71
0.25	0.72
0.50	0.73
0.75	0.65
1.00	0.65
1.25	0.65
1.50	0.65
1.75	0.69
2.00	0.74
2.50	0.73
3.00	0.69
3.50	0.66
4.00	0.74
4.50	0.72
5.00	0.71
5.50	0.63
6.00	0.60
6.50	0.60
7.00	0.61
7.50	0.62
8.00	0.74



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

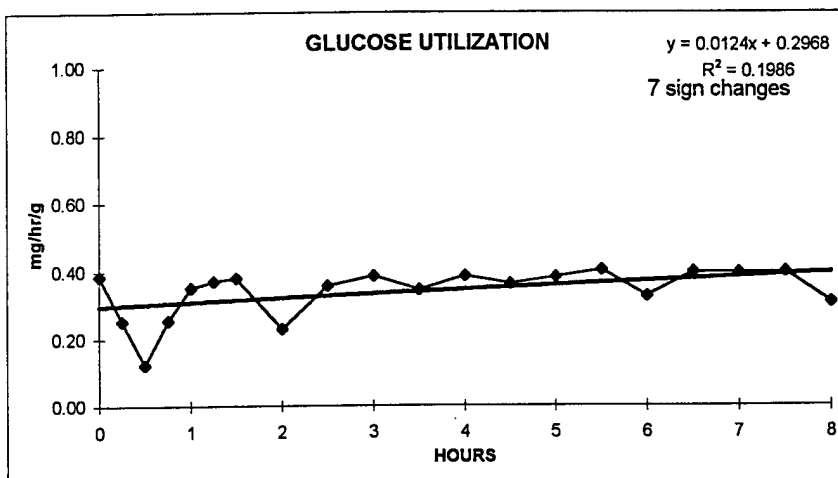
NO TEMPLATE

FLACCID, NO ALTERATIONS, 10 HIGH AND 6 LOW PH READINGS.

2508PLOT.XLS
NO DOSE

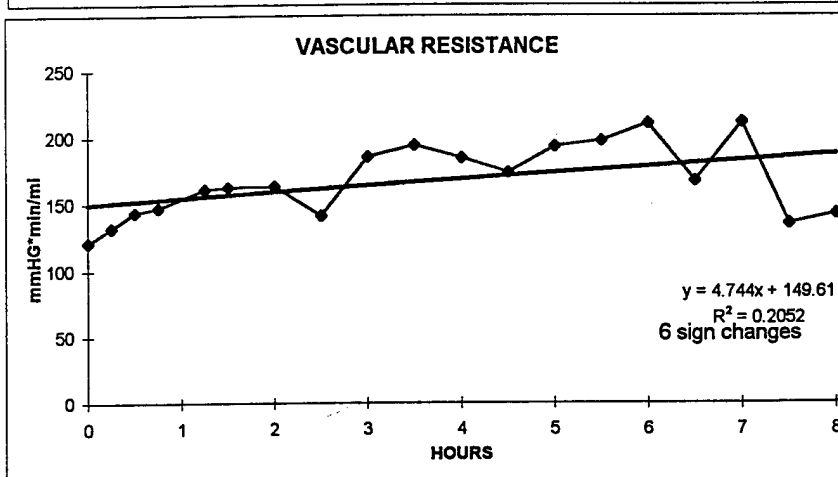
2508 GLUCOSE UTILIZATION

0.00	0.3854
0.25	0.2543
0.50	0.1239
0.75	0.2558
1.00	0.3520
1.25	0.3702
1.50	0.3796
2.00	0.2315
2.50	0.3585
3.00	0.3862
3.50	0.3463
4.00	0.3869
4.50	0.3635
5.00	0.3821
5.50	0.4027
6.00	0.3270
6.50	0.3986
7.00	0.3957
7.50	0.3972
8.00	0.3077



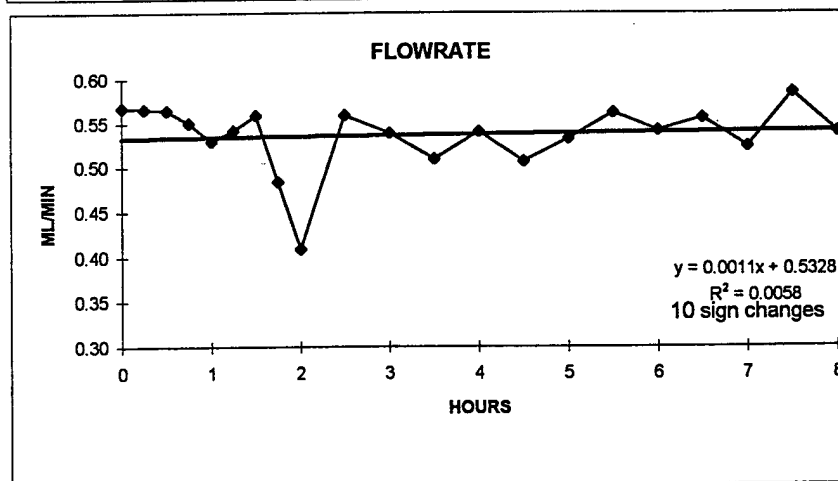
2508 VASCULAR RESISTANCE

0.00	121.60
0.25	132.65
0.50	143.76
0.75	147.47
1.25	161.03
1.50	162.85
2.00	163.81
2.50	141.37
3.00	185.65
3.50	194.18
4.00	184.96
4.50	173.59
5.00	193.29
5.50	197.62
6.00	210.52
6.50	167.29
7.00	211.74
7.50	135.11
8.00	142.68



2508 FLOWRATE

0.00	0.57
0.25	0.57
0.50	0.56
0.75	0.55
1.00	0.53
1.25	0.54
1.50	0.56
1.75	0.48
2.00	0.41
2.50	0.56
3.00	0.54
3.50	0.51
4.00	0.54
4.50	0.51
5.00	0.53
5.50	0.56
6.00	0.54
6.50	0.56
7.00	0.52
7.50	0.58
8.00	0.54



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

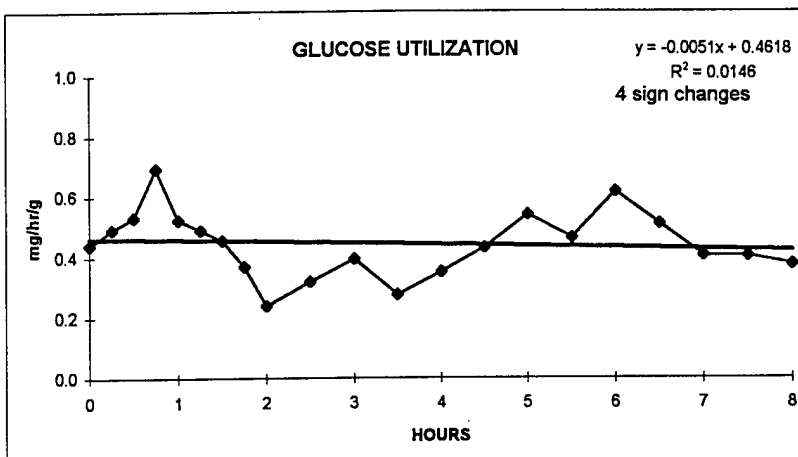
NO TEMPLATE

POSTDOSING BLISTERS

2509PLOT.XLS
NO DOSE

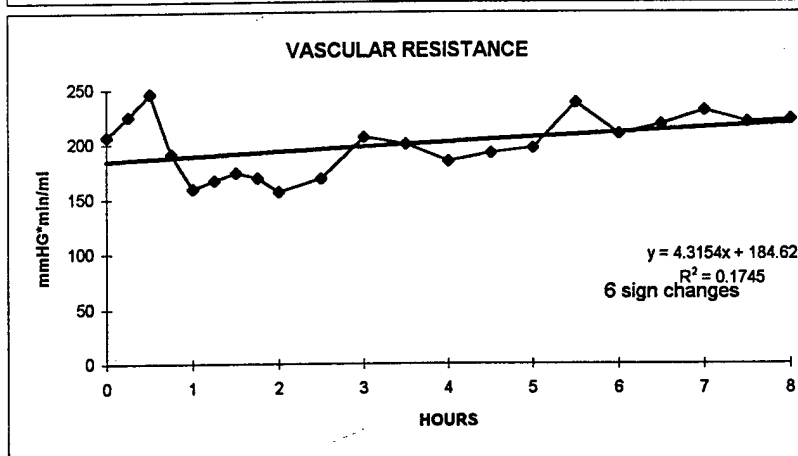
2509 GLUCOSE UTILIZATION

0.00	0.4398
0.25	0.4909
0.50	0.5320
0.75	0.6952
1.00	0.5238
1.25	0.4893
1.50	0.4553
1.75	0.3690
2.00	0.2412
2.50	0.3203
3.00	0.3952
3.50	0.2783
4.00	0.3524
4.50	0.4326
5.00	0.5404
5.50	0.4628
6.00	0.6175
6.50	0.5112
7.00	0.4054
7.50	0.4042
8.00	0.3759



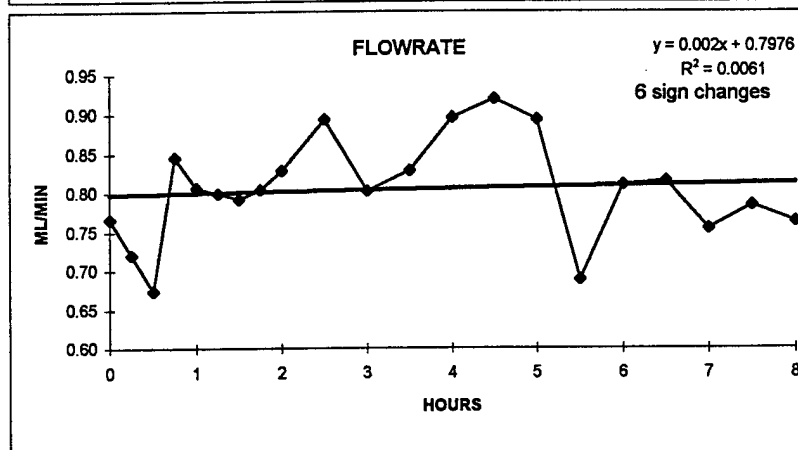
2509 VASCULAR RESISTANCE

0.00	207.43
0.25	225.62
0.50	246.31
0.75	191.48
1.00	159.89
1.25	167.07
1.50	174.39
1.75	169.45
2.00	156.89
2.50	168.90
3.00	206.87
3.50	200.33
4.00	184.33
4.50	192.35
5.00	196.86
5.50	238.01
6.00	209.57
6.50	218.26
7.00	230.62
7.50	220.38
8.00	222.75



2509 FLOWRATE

0.00	0.77
0.25	0.72
0.50	0.67
0.75	0.85
1.00	0.81
1.25	0.80
1.50	0.79
1.75	0.80
2.00	0.83
2.50	0.89
3.00	0.80
3.50	0.83
4.00	0.90
4.50	0.92
5.00	0.89
5.50	0.69
6.00	0.81
6.50	0.82
7.00	0.75
7.50	0.79
8.00	0.76



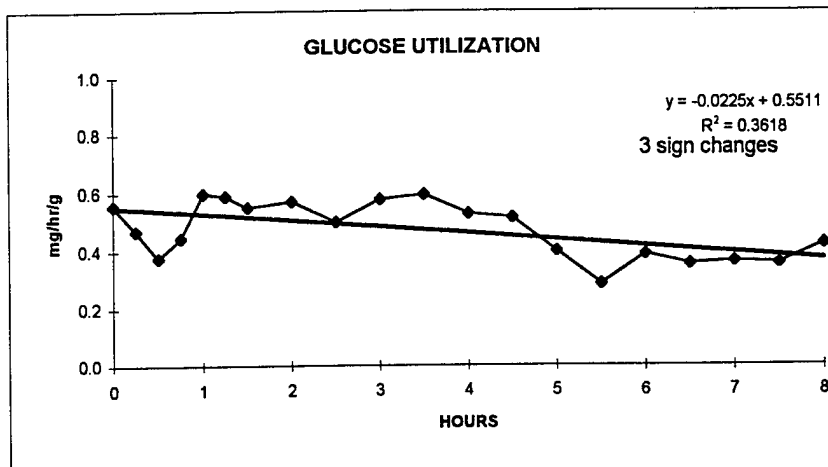
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 0 0 0

NO TEMPLATE

2511PLOT.XLS
NO DOSE

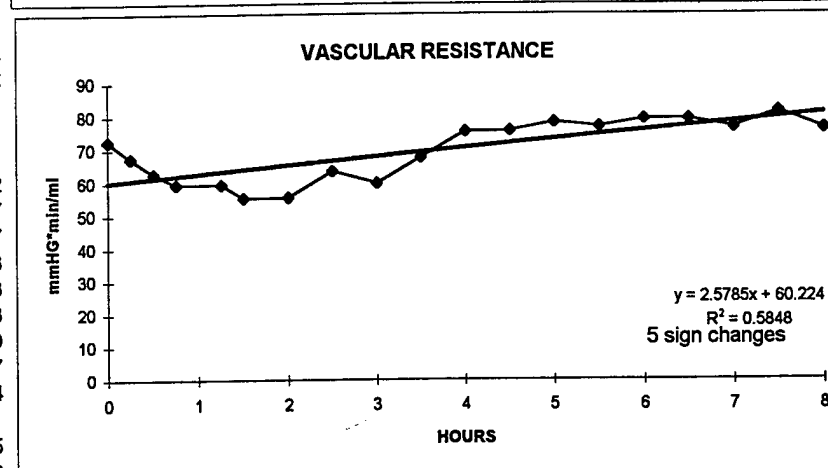
2511 GLUCOSE UTILIZATION

0.00	0.5565
0.25	0.4698
0.50	0.3762
0.75	0.4444
1.00	0.5970
1.25	0.5896
1.50	0.5494
2.00	0.5712
2.50	0.4995
3.00	0.5775
3.50	0.5938
4.00	0.5274
4.50	0.5134
5.00	0.4001
5.50	0.2865
6.00	0.3890
6.50	0.3549
7.00	0.3628
7.50	0.3572
8.00	0.4232



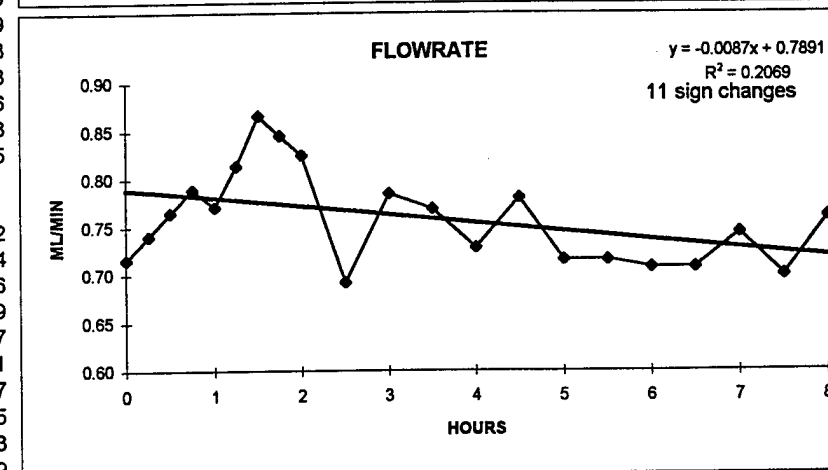
2511 VASCULAR RESISTANCE

0.00	72.61
0.25	67.52
0.50	62.77
0.75	59.57
1.25	59.63
1.50	55.43
2.00	55.73
2.50	63.59
3.00	59.87
3.50	67.64
4.00	75.51
4.50	75.55
5.00	78.19
5.50	76.79
6.00	79.08
6.50	79.08
7.00	76.56
7.50	81.43
8.00	76.25



2511 FLOWRATE

0.00	0.72
0.25	0.74
0.50	0.76
0.75	0.79
1.00	0.77
1.25	0.81
1.50	0.87
1.75	0.85
2.00	0.83
2.50	0.69
3.00	0.78
3.50	0.77
4.00	0.73
4.50	0.78
5.00	0.72
5.50	0.72
6.00	0.71
6.50	0.71
7.00	0.74
7.50	0.70
8.00	0.76



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

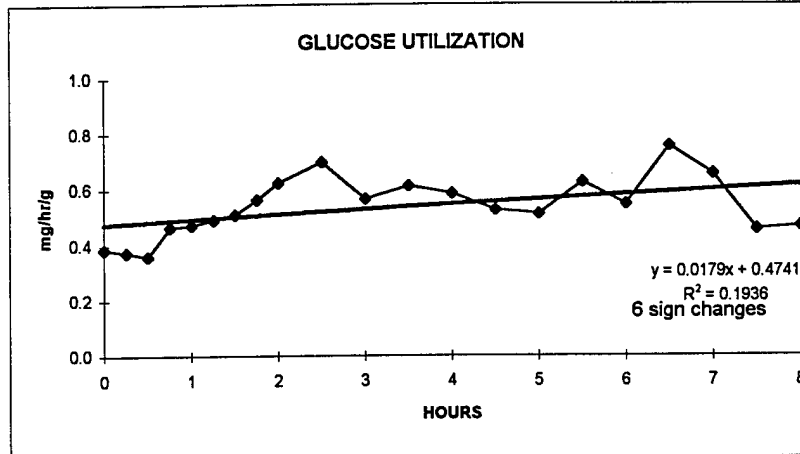
NO TEMPLATE

FLAP FLACCID, NO ALTERATIONS. NO PH READINGS TAKEN.

2512PLOT.XLS
NO DOSE

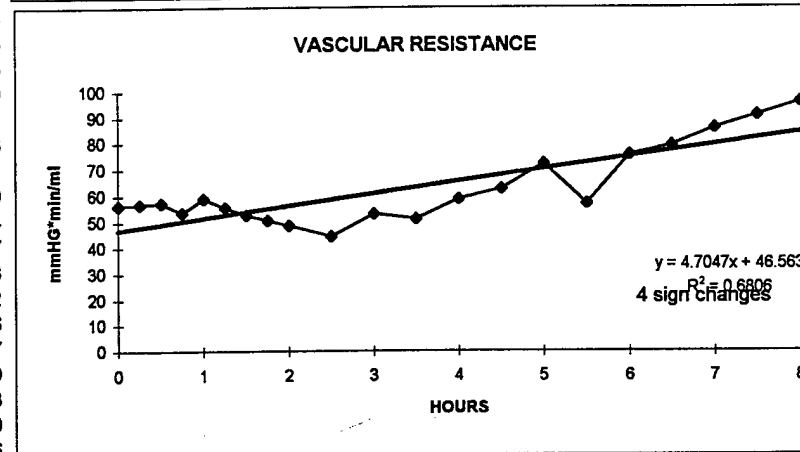
2512 GLUCOSE UTILIZATION

0.00	0.3863
0.25	0.3733
0.50	0.3597
0.75	0.4642
1.00	0.4717
1.25	0.4912
1.50	0.5086
1.75	0.5634
2.00	0.6233
2.50	0.6978
3.00	0.5661
3.50	0.6111
4.00	0.5831
4.50	0.5265
5.00	0.5111
5.50	0.6257
6.00	0.5454
6.50	0.7558
7.00	0.6558
7.50	0.4555
8.00	0.4669



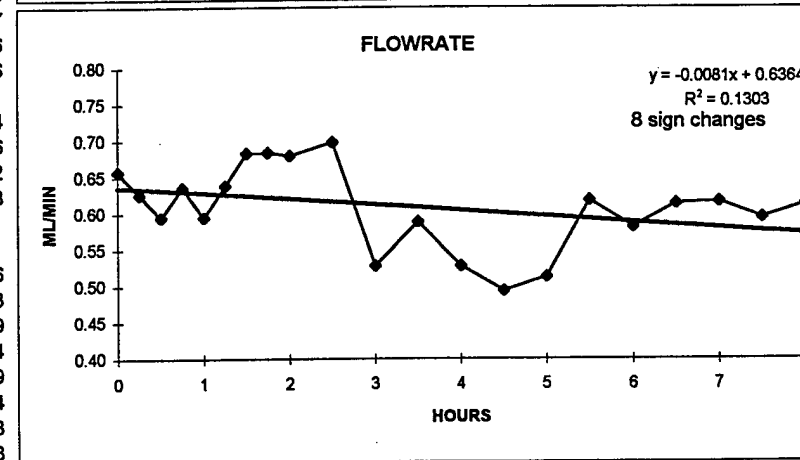
2512 VASCULAR RESISTANCE

0.00	56.28
0.25	56.71
0.50	57.19
0.75	53.44
1.00	58.87
1.25	55.53
1.50	52.62
1.75	50.56
2.00	48.57
2.50	44.39
3.00	52.98
3.50	51.00
4.00	58.66
4.50	62.77
5.00	72.16
5.50	57.06
6.00	75.61
6.50	79.24
7.00	85.96
7.50	90.82
8.00	96.18



2512 FLOWRATE

0.00	0.66
0.25	0.63
0.50	0.59
0.75	0.64
1.00	0.59
1.25	0.64
1.50	0.68
1.75	0.68
2.00	0.68
2.50	0.70
3.00	0.53
3.50	0.59
4.00	0.53
4.50	0.49
5.00	0.51
5.50	0.62
6.00	0.58
6.50	0.61
7.00	0.62
7.50	0.59
8.00	0.61



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

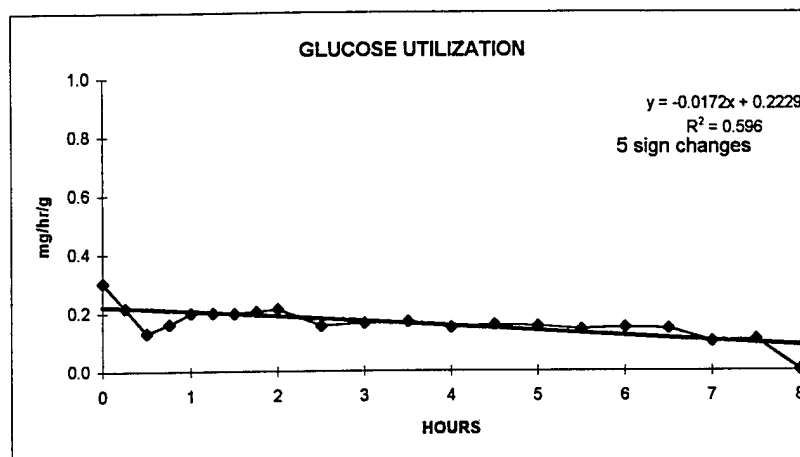
NO TEMPLATE

FLAP FLACCID, NO ALTERATIONS

2513PLOT.XLS
NO DOSE

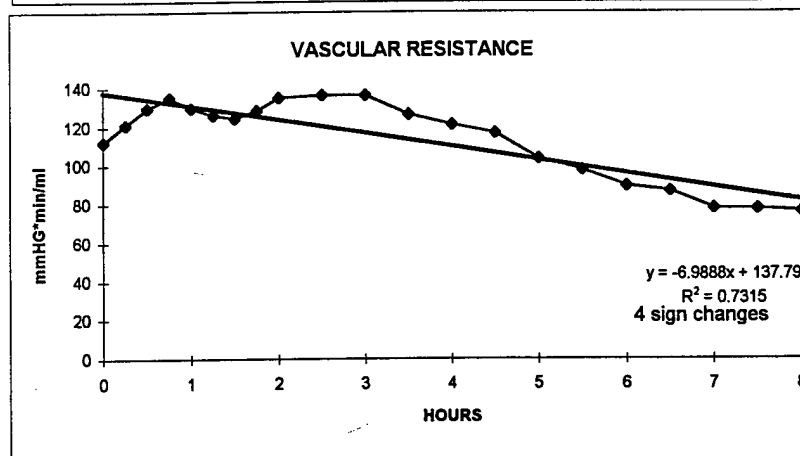
2513 GLUCOSE UTILIZATION

0.00	0.3038
0.25	0.2190
0.50	0.1326
0.75	0.1637
1.00	0.1996
1.25	0.2004
1.50	0.1984
1.75	0.2054
2.00	0.2137
2.50	0.1574
3.00	0.1643
3.50	0.1702
4.00	0.1503
4.50	0.1579
5.00	0.1553
5.50	0.1439
6.00	0.1498
6.50	0.1443
7.00	0.1016
7.50	0.1089
8.00	0.0033



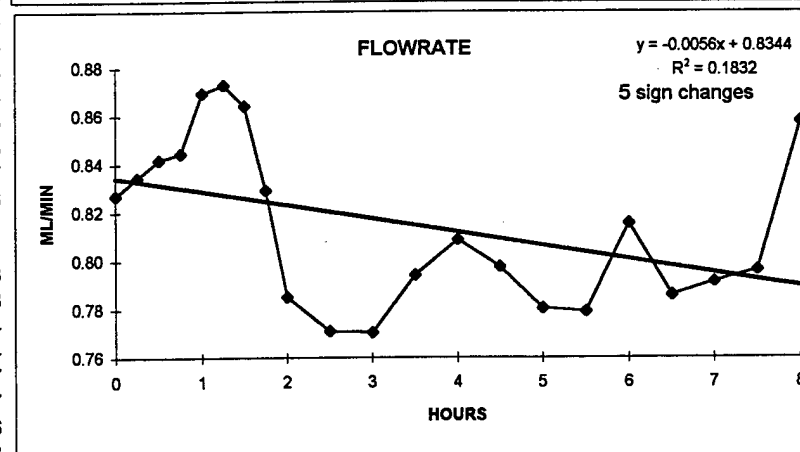
2513 VASCULAR RESISTANCE

0.00	112.44
0.25	121.19
0.50	129.79
0.75	134.99
1.00	129.81
1.25	126.20
1.50	124.58
1.75	128.53
2.00	135.10
2.50	136.26
3.00	136.27
3.50	126.54
4.00	121.34
4.50	117.03
5.00	103.63
5.50	97.88
6.00	89.73
6.50	86.95
7.00	77.93
7.50	77.77
8.00	76.38



2513 FLOWRATE

0.00	0.83
0.25	0.83
0.50	0.84
0.75	0.84
1.00	0.87
1.25	0.87
1.50	0.86
1.75	0.83
2.00	0.79
2.50	0.77
3.00	0.77
3.50	0.79
4.00	0.81
4.50	0.80
5.00	0.78
5.50	0.78
6.00	0.82
6.50	0.79
7.00	0.79
7.50	0.80
8.00	0.86



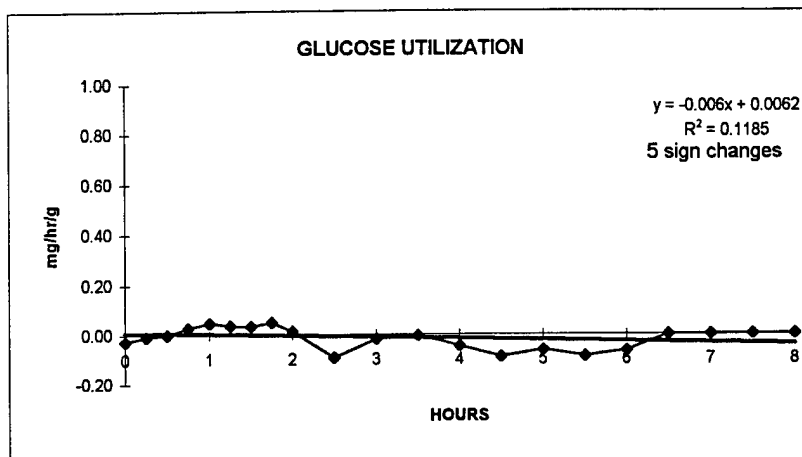
MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
1	0	1	1

NO TEMPLATE

2514PLOT.XLS
NO DOSE

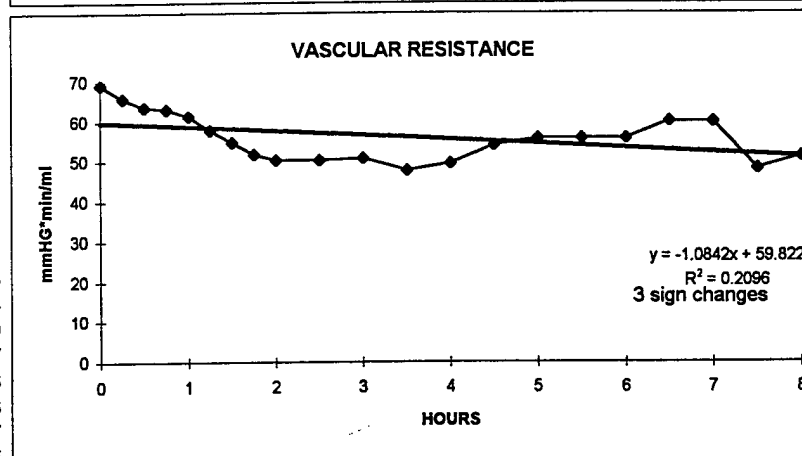
2514 GLUCOSE UTILIZATION

0.00	-0.0275
0.25	-0.0086
0.50	0.0000
0.75	0.0289
1.00	0.0472
1.25	0.0349
1.50	0.0345
1.75	0.0480
2.00	0.0136
2.50	-0.0929
3.00	-0.0194
3.50	-0.0058
4.00	-0.0464
4.50	-0.0906
5.00	-0.0637
5.50	-0.0879
6.00	-0.0647
6.50	0.0000
7.00	0.0000
7.50	0.0000
8.00	0.0000



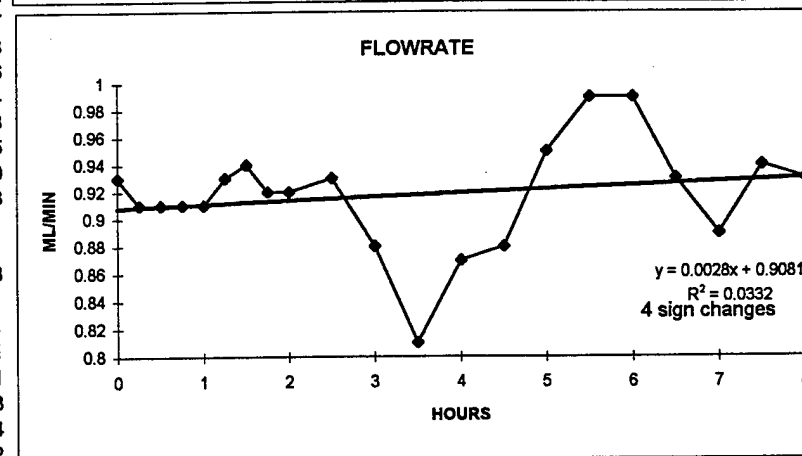
2514 VASCULAR RESISTANCE

0.00	69.18
0.25	65.88
0.50	63.61
0.75	63.11
1.00	61.32
1.25	57.93
1.50	54.84
1.75	51.89
2.00	50.37
2.50	50.43
3.00	50.88
3.50	47.87
4.00	49.65
4.50	54.07
5.00	55.78
5.50	55.76
6.00	55.84
6.50	60.18
7.00	59.95
7.50	48.30
8.00	51.38



2514 FLOWRATE

0	0.93
0.25	0.91
0.5	0.91
0.75	0.91
1	0.91
1.25	0.93
1.5	0.94
1.75	0.92
2	0.92
2.5	0.93
3	0.88
3.5	0.81
4	0.87
4.5	0.88
5	0.95
5.5	0.99
6	0.99
6.5	0.93
7	0.89
7.5	0.94
8	0.93



MICRO DARK RBCs in DERMAL
vesicles BASAL VESELS INFLAM
1 0 1 0

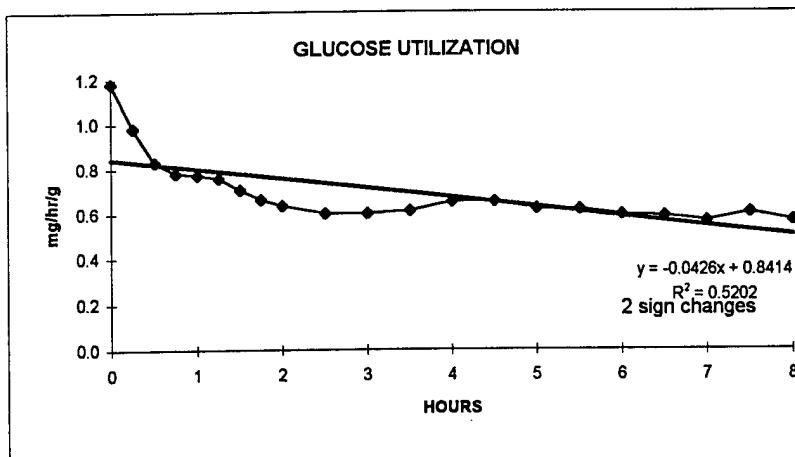
NO TEMPLATE

FLAP FLACCID, SMALL AMOUNT OF SUBCUTANEOUS EXPOSURE.

2515PLOT.XLS
NO DOSE

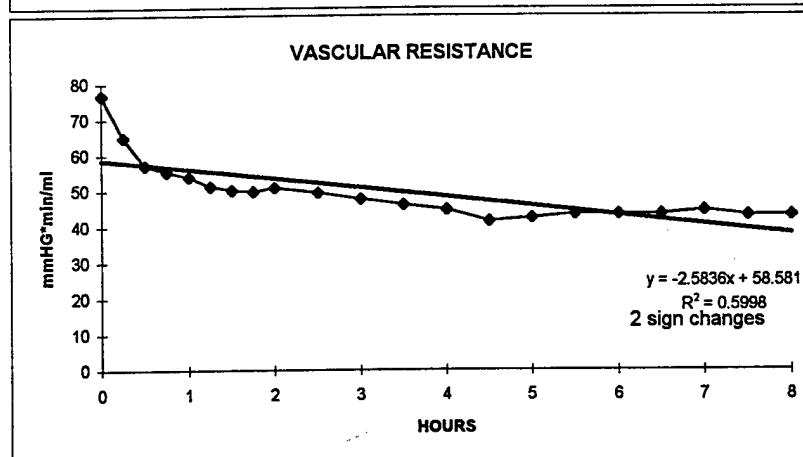
2515 GLUCOSE UTILIZATION

0.00	1.1838
0.25	0.9824
0.50	0.8292
0.75	0.7808
1.00	0.7726
1.25	0.7587
1.50	0.7064
1.75	0.6645
2.00	0.6371
2.50	0.6020
3.00	0.6000
3.50	0.6118
4.00	0.6539
4.50	0.6541
5.00	0.6211
5.50	0.6192
6.00	0.5961
6.50	0.5899
7.00	0.5658
7.50	0.6032
8.00	0.5665



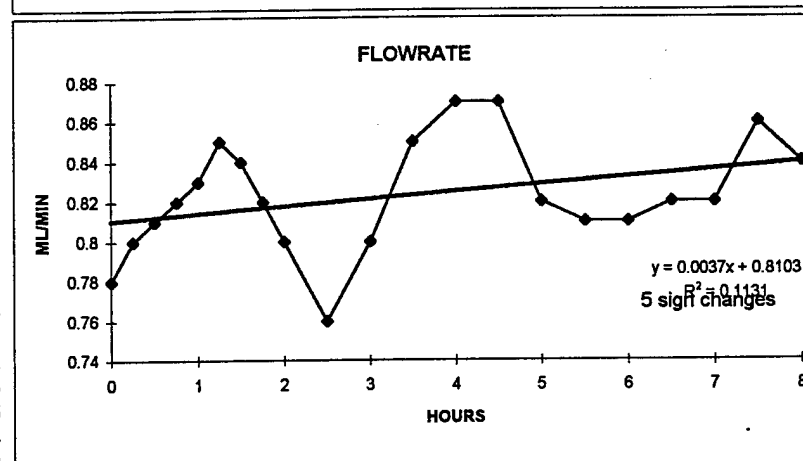
2515 VASCULAR RESISTANCE

0.00	76.79
0.25	65.08
0.50	57.18
0.75	55.44
1.00	53.97
1.25	51.37
1.50	50.24
1.75	49.95
2.00	50.99
2.50	49.50
3.00	47.67
3.50	46.13
4.00	44.76
4.50	41.51
5.00	42.47
5.50	43.46
6.00	43.39
6.50	43.47
7.00	44.54
7.50	43.12
8.00	43.13



2515 FLOWRATE

0	0.78
0.25	0.8
0.5	0.81
0.75	0.82
1	0.83
1.25	0.85
1.5	0.84
1.75	0.82
2	0.8
2.5	0.76
3	0.8
3.5	0.85
4	0.87
4.5	0.87
5	0.82
5.5	0.81
6	0.82
7	0.82
7.5	0.86
8	0.84



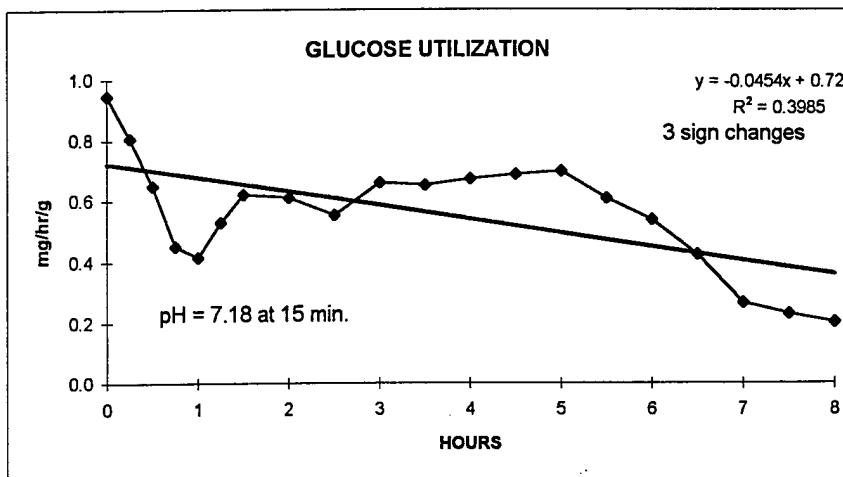
MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
0	0	1	1

NO TEMPLATE

2516PLOT.XLS
NO DOSE

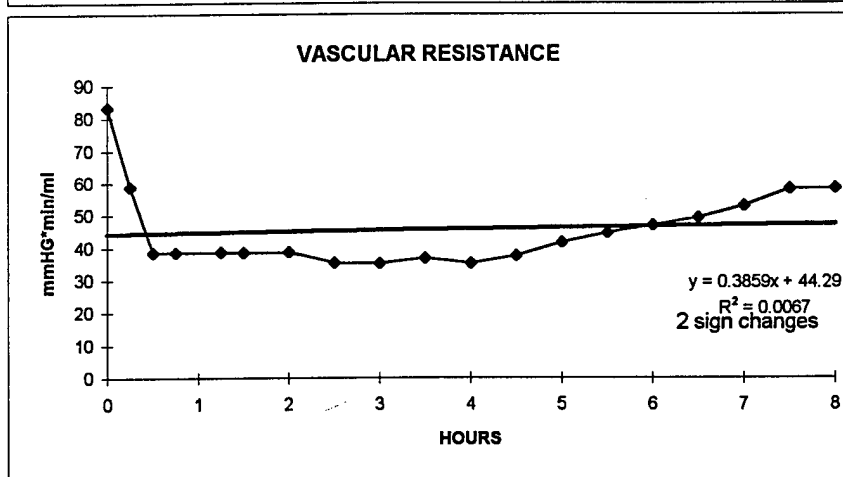
2516 GLUCOSE UTILIZATION

0.00	0.9475
0.25	0.8076
0.50	0.6498
0.75	0.4519
1.00	0.4170
1.25	0.5309
1.50	0.6226
2.00	0.6116
2.50	0.5539
3.00	0.6597
3.50	0.6510
4.00	0.6724
4.50	0.6889
5.00	0.6992
5.50	0.6087
6.00	0.5400
6.50	0.4256
7.00	0.2647
7.50	0.2298
8.00	0.2023



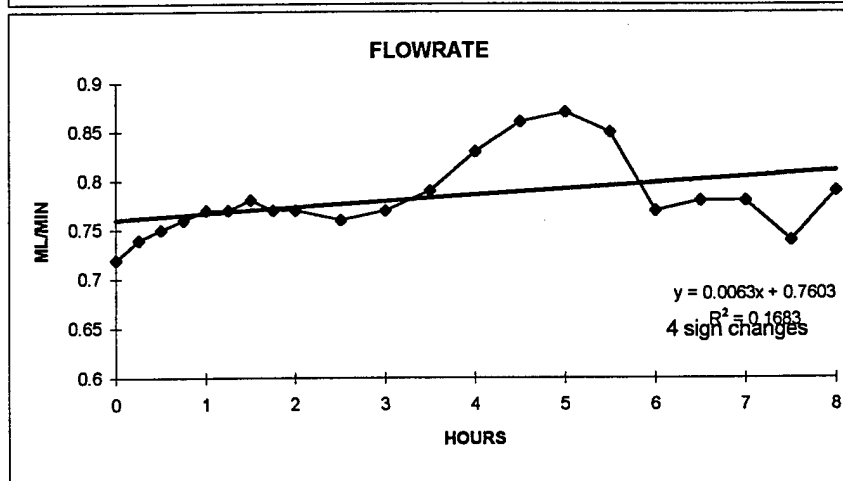
2516 VASCULAR RESISTANCE

0.00	83.41
0.25	58.93
0.50	38.58
0.75	38.55
1.25	38.75
1.50	38.55
2.00	38.68
2.50	35.51
3.00	35.22
3.50	36.83
4.00	35.31
4.50	37.69
5.00	41.67
5.50	44.67
6.00	46.93
6.50	49.37
7.00	52.92
7.50	58.20
8.00	58.46



2516 FLOWRATE

0	0.72
0.25	0.74
0.5	0.75
0.75	0.76
1	0.77
1.25	0.77
1.5	0.78
1.75	0.77
2	0.77
2.5	0.76
3	0.77
3.5	0.79
4	0.83
4.5	0.86
5	0.87
5.5	0.85
6	0.77
6.5	0.78
7	0.78
7.5	0.74
8	0.79



MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
0	0	0	0

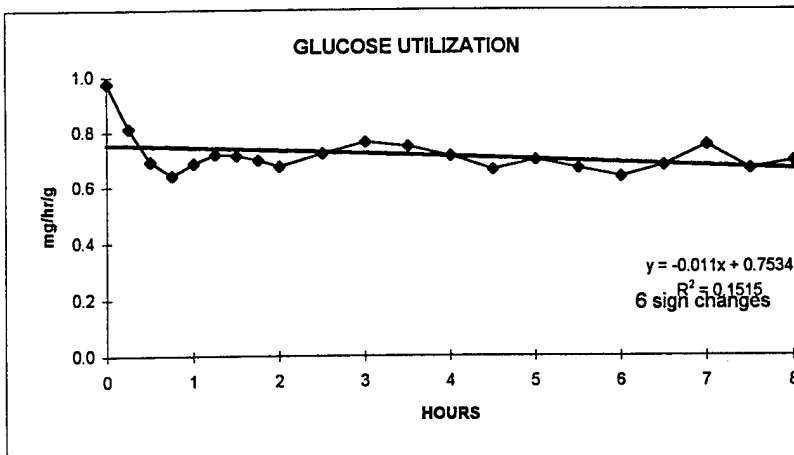
NO TEMPLATE

FLAP FLACCID, NO ALTERATIONS.

2517PLOT.XLS
NO DOSE

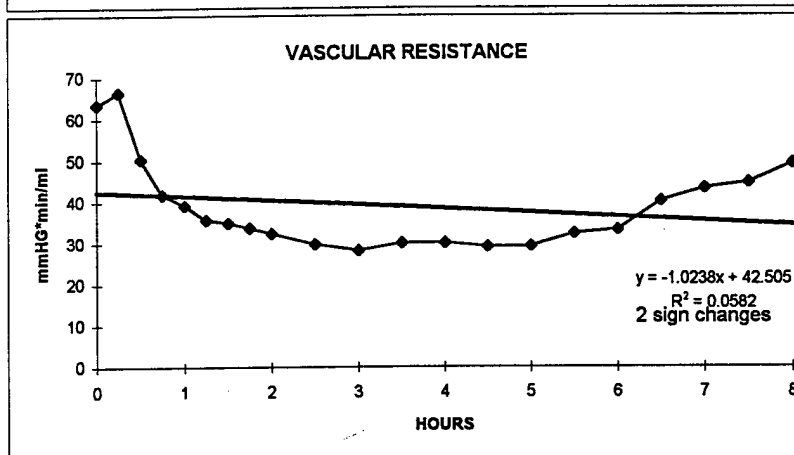
2517 GLUCOSE UTILIZATION

0.00	0.9764
0.25	0.8135
0.50	0.6935
0.75	0.6430
1.00	0.6868
1.25	0.7183
1.50	0.7136
1.75	0.6976
2.00	0.6749
2.50	0.7211
3.00	0.7642
3.50	0.7468
4.00	0.7126
4.50	0.6637
5.00	0.6993
5.50	0.6687
6.00	0.6382
6.50	0.6799
7.00	0.7531
7.50	0.6674
8.00	0.6951



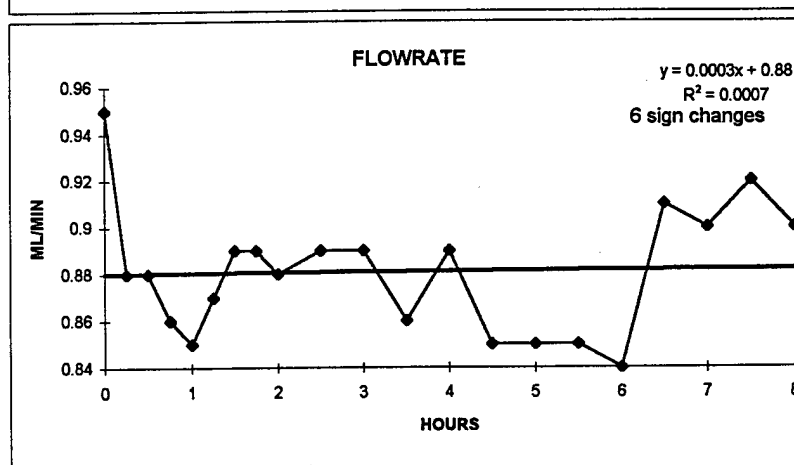
2517 VASCULAR RESISTANCE

0.00	63.49
0.25	66.52
0.50	50.44
0.75	41.91
1.00	39.25
1.25	35.76
1.50	34.94
1.75	33.77
2.00	32.34
2.50	29.82
3.00	28.20
3.50	30.16
4.00	30.15
4.50	29.09
5.00	29.30
5.50	32.37
6.00	33.26
6.50	40.45
7.00	43.43
7.50	44.84
8.00	49.39



2517 FLOWRATE

0	0.95
0.25	0.88
0.5	0.88
0.75	0.86
1	0.85
1.25	0.87
1.5	0.89
1.75	0.89
2	0.88
2.5	0.89
3	0.89
3.5	0.86
4	0.89
4.5	0.85
5	0.85
5.5	0.85
6	0.84
6.5	0.91
7	0.9
7.5	0.92
8	0.9



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 1 0

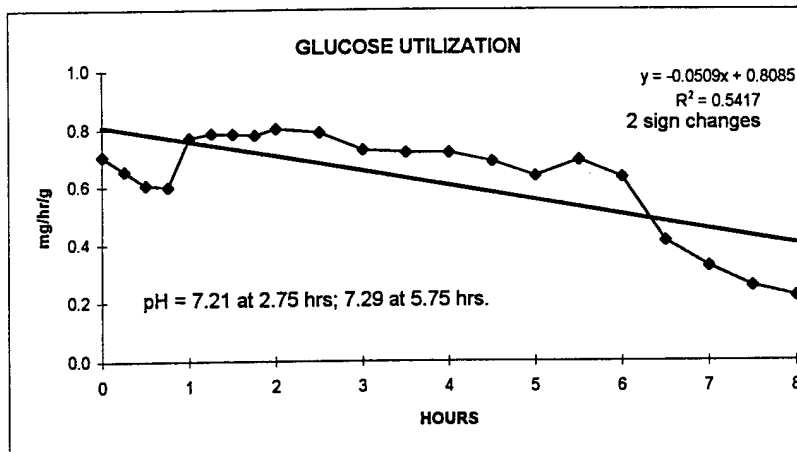
NO TEMPLATE

FLAP FLACCID, NO ALTERATIONS.

2518PLOT.XLS
NO DOSE

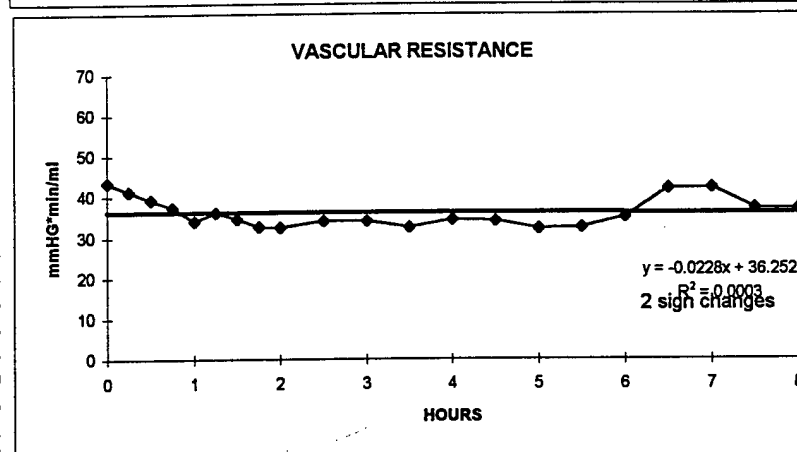
2518 GLUCOSE UTILIZATION

0.00	0.7066
0.25	0.6560
0.50	0.6066
0.75	0.6002
1.00	0.7704
1.25	0.7868
1.50	0.7840
1.75	0.7802
2.00	0.8004
2.50	0.7880
3.00	0.7285
3.50	0.7198
4.00	0.7187
4.50	0.6877
5.00	0.6387
5.50	0.6932
6.00	0.6343
6.50	0.4117
7.00	0.3244
7.50	0.2570
8.00	0.2206



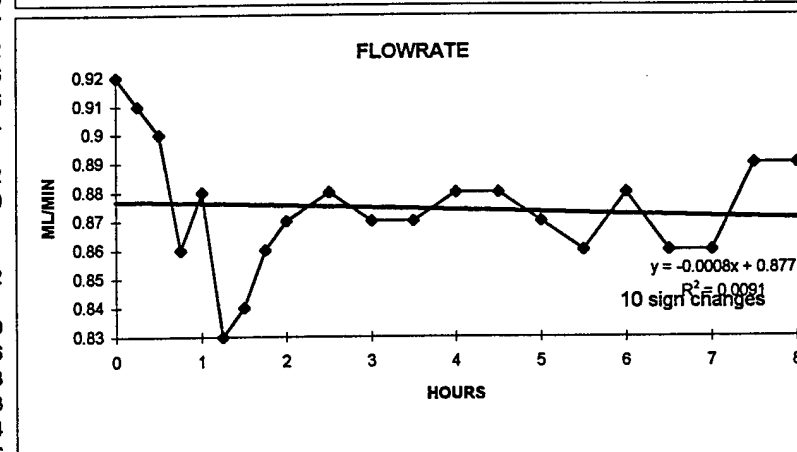
2518 VASCULAR RESISTANCE

0.00	43.45
0.25	41.38
0.50	39.27
0.75	37.35
1.00	34.08
1.25	36.18
1.50	34.55
1.75	32.68
2.00	32.64
2.50	34.10
3.00	34.08
3.50	32.62
4.00	34.49
4.50	34.17
5.00	32.22
5.50	32.56
6.00	35.16
6.50	42.14
7.00	42.21
7.50	37.22
8.00	37.10



2518 FLOWRATE

0	0.92
0.25	0.91
0.5	0.9
0.75	0.86
1	0.88
1.25	0.83
1.5	0.84
1.75	0.86
2	0.87
2.5	0.88
3	0.87
3.5	0.87
4	0.88
4.5	0.88
5	0.87
5.5	0.86
6	0.88
6.5	0.87
7	0.86
7.5	0.89
8	0.89



MICRO DARK RBSs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

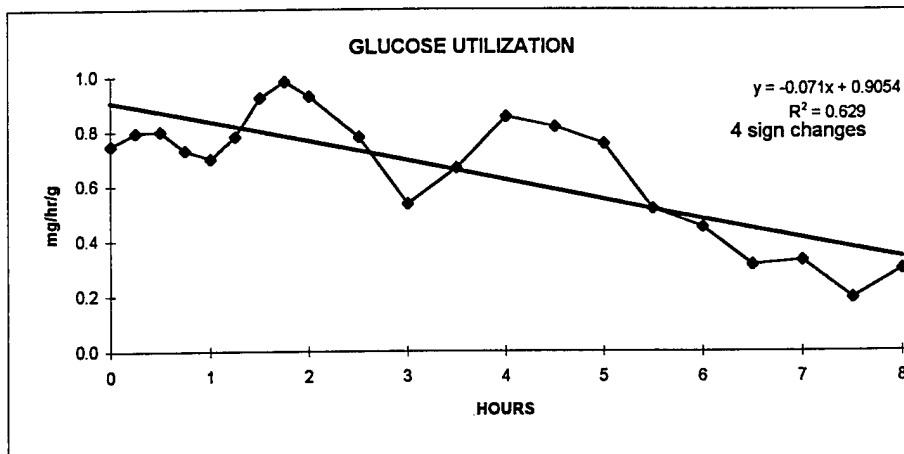
NO TEMPLATE

FLAP FLACCID, BRUISED TIP.

2521PLOT.XLS

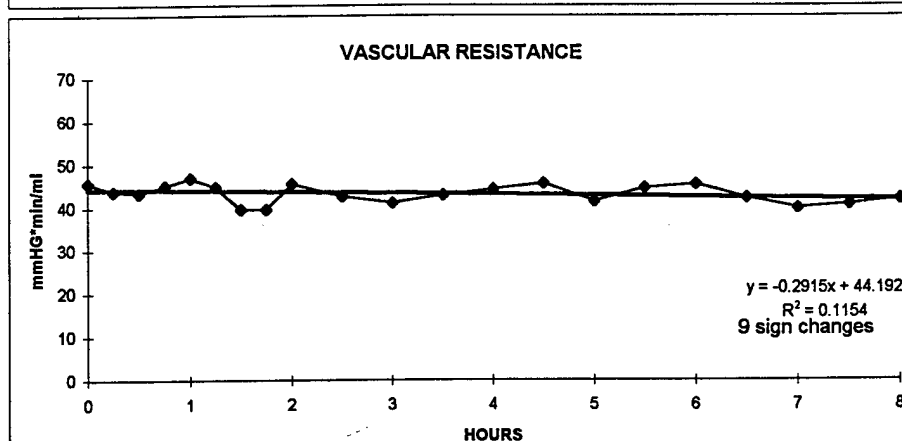
2521 GLUCOSE UTILIZATION

0.00	0.7478
0.25	0.7958
0.50	0.8001
0.75	0.7291
1.00	0.6986
1.25	0.7809
1.50	0.9256
1.75	0.9843
2.00	0.9292
2.50	0.7790
3.00	0.5358
3.50	0.6666
4.00	0.8552
4.50	0.8159
5.00	0.7570
5.50	0.5177
6.00	0.4510
6.50	0.3119
7.00	0.3284
7.50	0.1932
8.00	0.2953



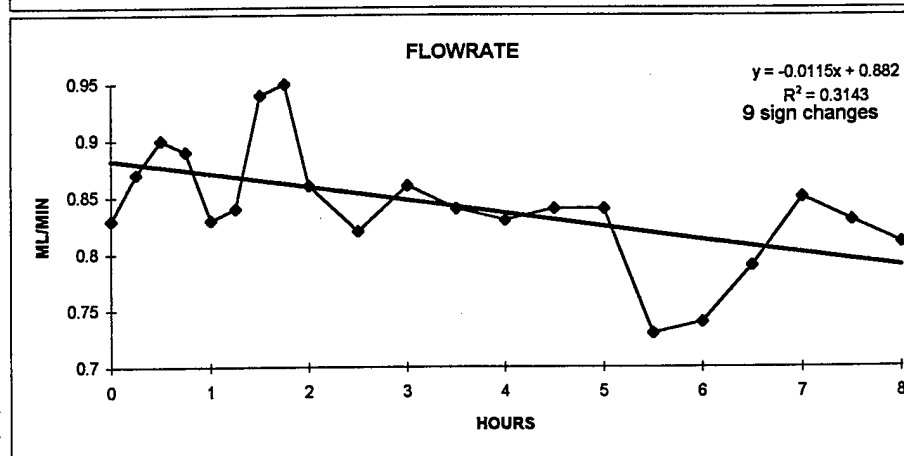
2521 VASCULAR RESISTANCE

0.00	45.73
0.25	43.70
0.50	43.35
0.75	45.07
1.00	46.89
1.25	44.83
1.50	39.64
1.75	39.66
2.00	45.52
2.50	42.63
3.00	41.11
3.50	42.82
4.00	44.17
4.50	45.60
5.00	41.42
5.50	44.49
6.00	45.44
6.50	42.34
7.00	39.89
7.50	40.76
8.00	41.98



2521 FLOWRATE

0	0.83
0.25	0.87
0.5	0.9
0.75	0.89
1	0.83
1.25	0.84
1.5	0.94
1.75	0.95
2	0.86
2.5	0.82
3	0.86
3.5	0.84
4	0.83
4.5	0.84
5	0.84
5.5	0.73
6	0.74
6.5	0.79
7	0.85
7.5	0.83
8	0.81



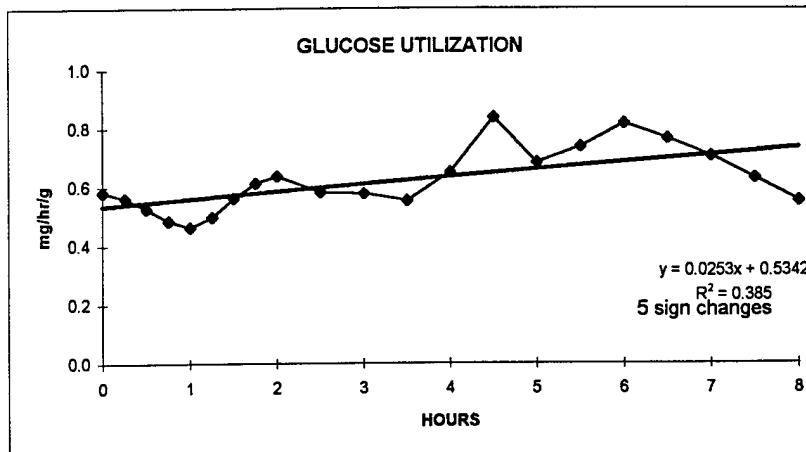
MICRO DARK RBCs in DERMAL
 vesicles BASAL VESSELS INFLAM
 0 0 0 0

NO TEMPLATE

2522PLOT.XLS
NO DOSE

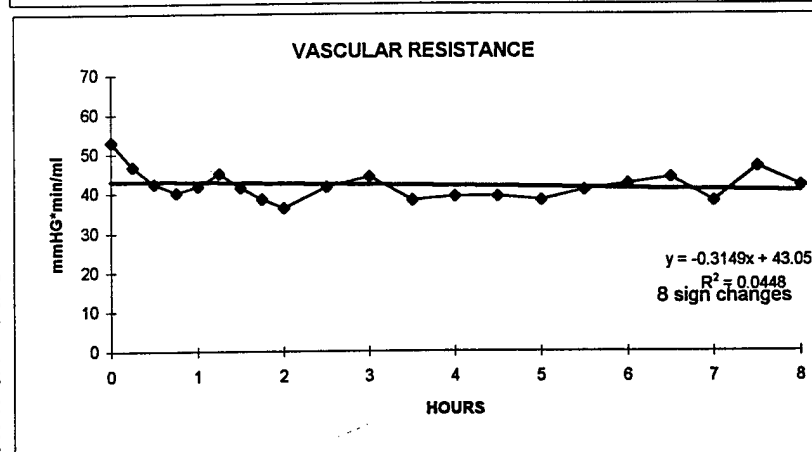
2522 GLUCOSE UTILIZATION

0.00	0.5829
0.25	0.5622
0.50	0.5283
0.75	0.4852
1.00	0.4642
1.25	0.4999
1.50	0.5629
1.75	0.6121
2.00	0.6364
2.50	0.5824
3.00	0.5790
3.50	0.5533
4.00	0.6512
4.50	0.8367
5.00	0.6828
5.50	0.7378
6.00	0.8174
6.50	0.7674
7.00	0.7077
7.50	0.6330
8.00	0.5544



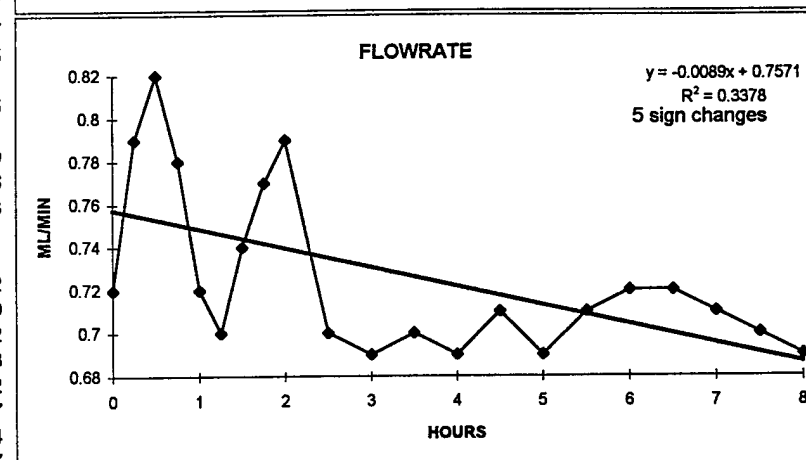
2522 VASCULAR RESISTANCE

0.00	53.03
0.25	46.86
0.50	42.55
0.75	40.28
1.00	41.81
1.25	45.00
1.50	41.46
1.75	38.57
2.00	36.32
2.50	41.75
3.00	44.22
3.50	38.32
4.00	39.27
4.50	39.27
5.00	38.35
5.50	40.81
6.00	42.55
6.50	44.11
7.00	38.09
7.50	46.76
8.00	42.03



2522 FLOWRATE

0	0.72
0.25	0.79
0.5	0.82
0.75	0.78
1	0.72
1.25	0.7
1.5	0.74
1.75	0.77
2	0.79
2.5	0.7
3	0.69
3.5	0.7
4	0.69
4.5	0.71
5	0.69
5.5	0.71
6	0.72
6.5	0.72
7	0.71
7.5	0.7
8	0.69



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

NO TEMPLATE

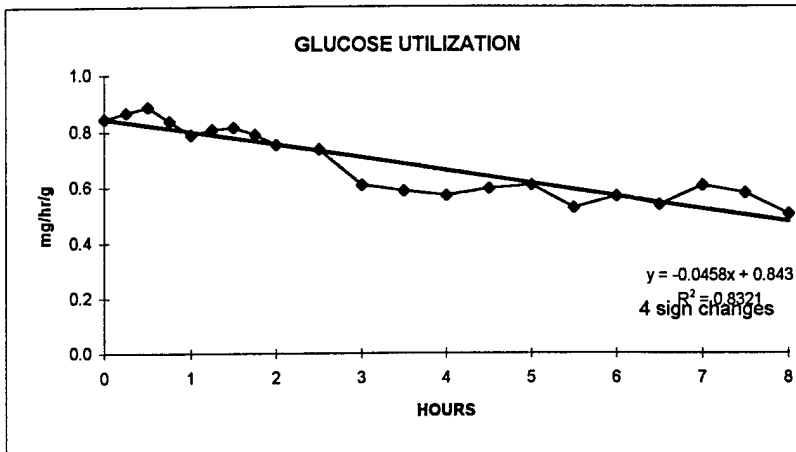
FLAP SLIGHTLY TURGID, BRUISED AT TIP.

2523PLOT.XLS

DOSE = (1.0 mg/ml)(300 ul) = 3000 ug HD in ETOH

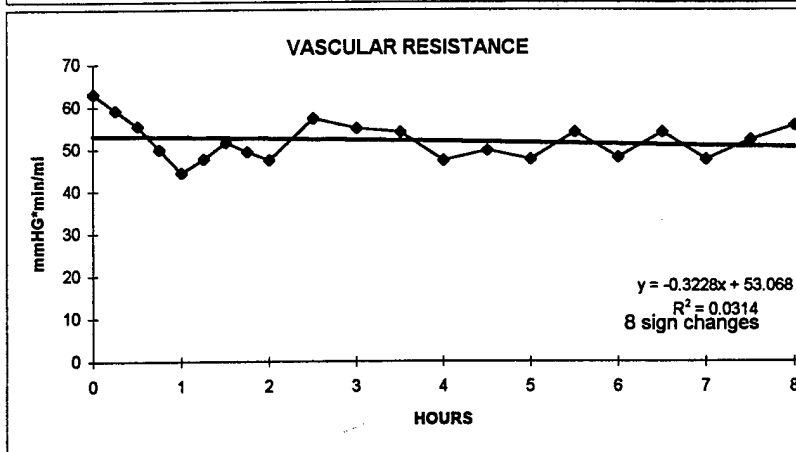
2523 GLUCOSE UTILIZATION

0.00	0.8463
0.25	0.8660
0.50	0.8860
0.75	0.8364
1.00	0.7873
1.25	0.8060
1.50	0.8138
1.75	0.7871
2.00	0.7497
2.50	0.7345
3.00	0.6065
3.50	0.5869
4.00	0.5713
4.50	0.5953
5.00	0.6073
5.50	0.5269
6.00	0.5675
6.50	0.5385
7.00	0.6073
7.50	0.5800
8.00	0.5024



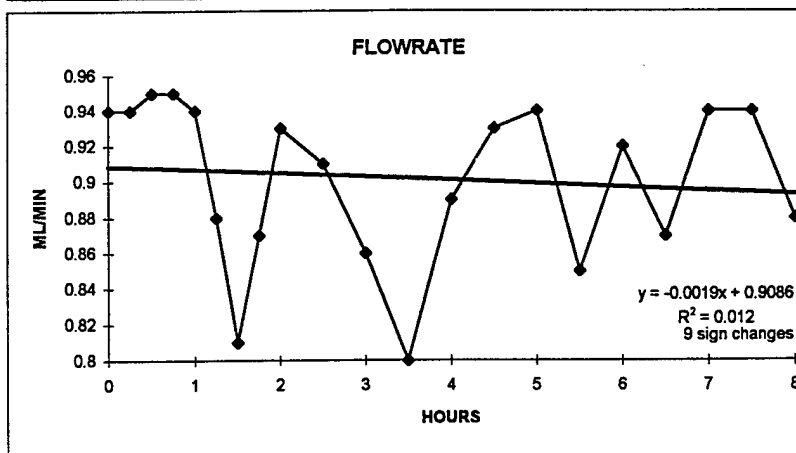
2523 VASCULAR RESISTANCE

0.00	63.07
0.25	59.27
0.50	55.55
0.75	50.03
1.00	44.46
1.25	47.77
1.50	51.61
1.75	49.43
2.00	47.51
2.50	57.31
3.00	54.87
3.50	54.08
4.00	47.26
4.50	49.67
5.00	47.63
5.50	54.04
6.00	48.00
6.50	54.03
7.00	47.63
7.50	52.23
8.00	55.73



2523 FLOWRATE

0	0.94
0.25	0.94
0.5	0.95
0.75	0.95
1	0.94
1.25	0.88
1.5	0.81
1.75	0.87
2	0.93
2.5	0.91
3	0.86
3.5	0.8
4	0.89
4.5	0.93
5	0.94
5.5	0.85
6	0.92
6.5	0.87
7	0.94
7.5	0.94
8	0.88



MICRO vesicles	DARK BASAL	RBCs in VESSELS	DERMAL INFLAM
1	1	1	0

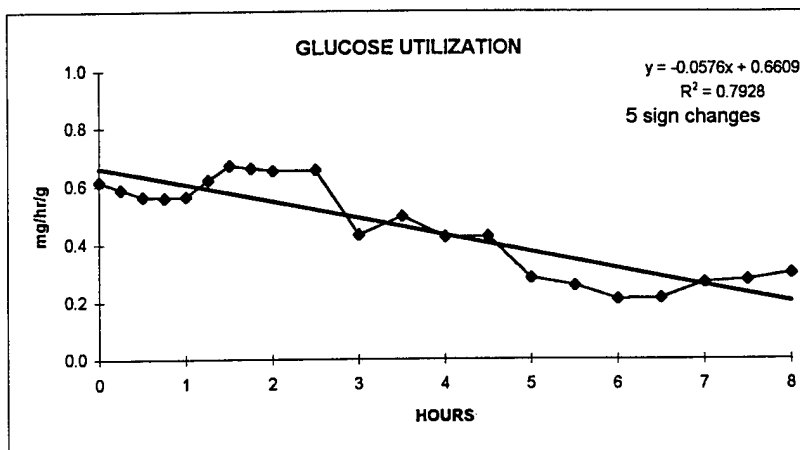
TEMPLATE

FLAP FLACCID, NO ALTERATIONS.

2524PLOT.XLS
DOSE = (10 MG/ML)(300 UL) = 3000 UG HD IN ETOH

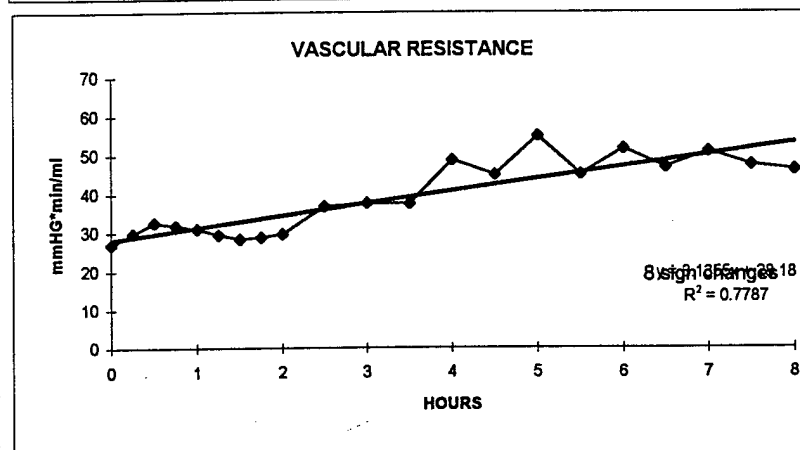
2524 GLUCOSE UTILIZATION

0.00	0.6149
0.25	0.5887
0.50	0.5629
0.75	0.5603
1.00	0.5651
1.25	0.6209
1.50	0.6701
1.75	0.6598
2.00	0.6523
2.50	0.6537
3.00	0.4311
3.50	0.4949
4.00	0.4251
4.50	0.4270
5.00	0.2840
5.50	0.2564
6.00	0.2098
6.50	0.2133
7.00	0.2682
7.50	0.2763
8.00	0.2991



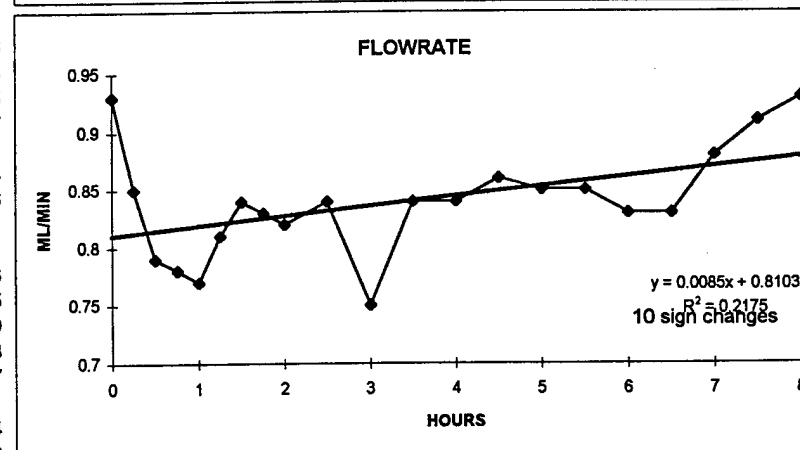
2524 VASCULAR RESISTANCE

0.00	27.10
0.25	29.92
0.50	32.67
0.75	31.93
1.00	31.06
1.25	29.57
1.50	28.45
1.75	28.89
2.00	29.80
2.50	36.74
3.00	37.67
3.50	37.49
4.00	48.67
4.50	44.81
5.00	54.86
5.50	44.98
6.00	51.55
6.50	46.87
7.00	50.91
7.50	47.44
8.00	46.16



2524 FLOWRATE

0	0.93
0.25	0.85
0.5	0.79
0.75	0.78
1	0.77
1.25	0.81
1.5	0.84
1.75	0.83
2	0.82
2.5	0.84
3	0.75
3.5	0.84
4	0.84
4.5	0.86
5	0.85
5.5	0.85
6	0.83
6.5	0.83
7	0.88
7.5	0.91
8	0.93



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 0 0

TEMPLATE

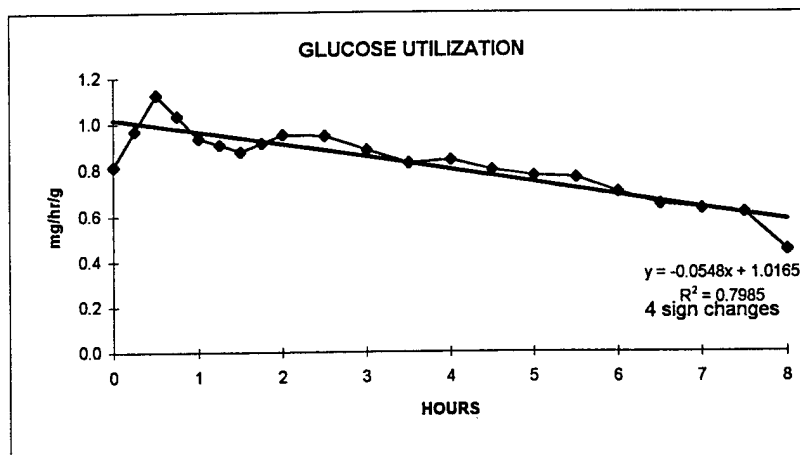
FLAP FLACCID, NO ALTERATIONS.

2525PLOT.XLS

DOSE = (10 mg/ml)(300 ul) = 3000 ug HD in ETOH

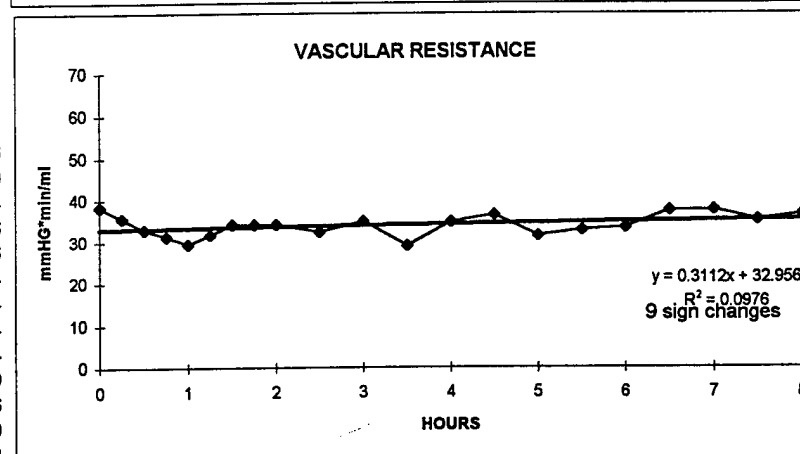
2525 GLUCOSE UTILIZATION

0.00	0.8151
0.25	0.9708
0.50	1.1265
0.75	1.0333
1.00	0.9352
1.25	0.9065
1.50	0.8781
1.75	0.9137
2.00	0.9493
2.50	0.9448
3.00	0.8830
3.50	0.8267
4.00	0.8405
4.50	0.7990
5.00	0.7740
5.50	0.7639
6.00	0.7026
6.50	0.6492
7.00	0.6299
7.50	0.6118
8.00	0.4462



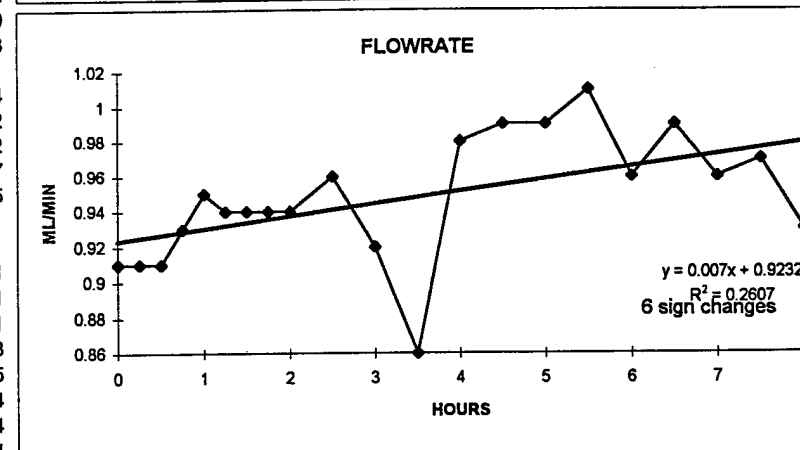
2525 VASCULAR RESISTANCE

0.00	38.36
0.25	35.70
0.50	33.04
0.75	31.26
1.00	29.56
1.25	31.84
1.50	34.14
1.75	34.14
2.00	34.14
2.50	32.39
3.00	34.86
3.50	29.09
4.00	34.82
4.50	36.50
5.00	31.43
5.50	32.81
6.00	33.44
6.50	37.52
7.00	37.62
7.50	35.17
8.00	36.65



2525FLOWRATE

0	0.91
0.25	0.91
0.5	0.91
0.75	0.93
1	0.95
1.25	0.94
1.5	0.94
1.75	0.94
2	0.94
2.5	0.96
3	0.92
3.5	0.86
4	0.98
4.5	0.99
5	0.99
5.5	1.01
6	0.96
6.5	0.99
7	0.96
7.5	0.97
8	0.93



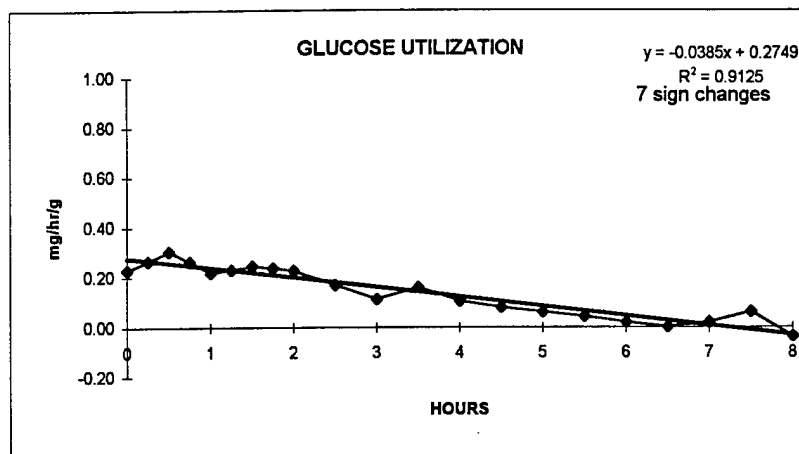
MICRO vesicles	DARK BASAL	RBCs in VESSELS	DERMAL INFLAM
1	1	0	0

TEMPLATE

2526PLOT.XLS
DOSE = 300 ul ETOH

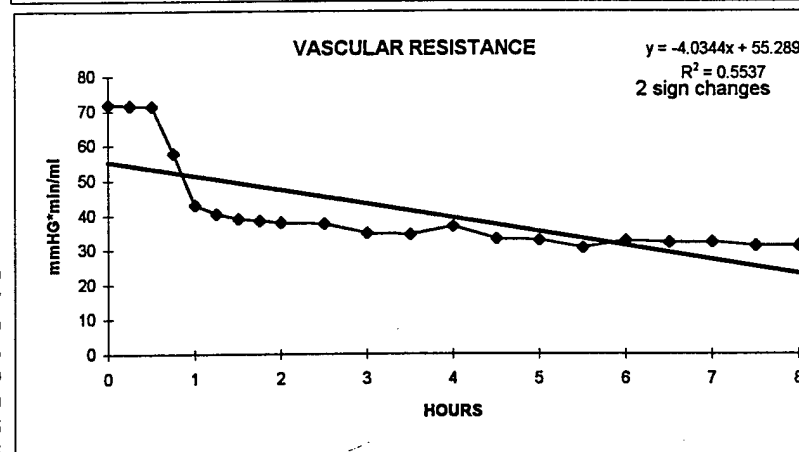
2526 GLUCOSE UTILIZATION

0.00	0.2279
0.25	0.2655
0.50	0.3022
0.75	0.2617
1.00	0.2173
1.25	0.2290
1.50	0.2451
1.75	0.2366
2.00	0.2264
2.50	0.1678
3.00	0.1111
3.50	0.1588
4.00	0.1046
4.50	0.0795
5.00	0.0603
5.50	0.0433
6.00	0.0206
6.50	0.0007
7.00	0.0189
7.50	0.0612
8.00	-0.0384



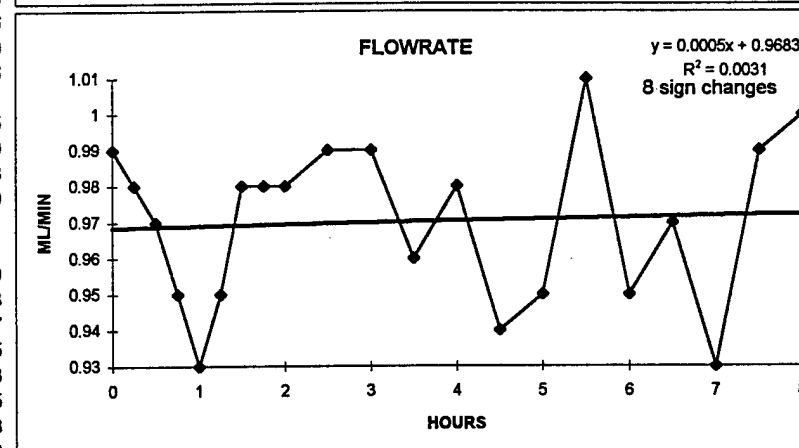
2526 VASCULAR RESISTANCE

0.00	71.91
0.25	71.61
0.50	71.32
0.75	57.92
1.00	43.01
1.25	40.50
1.50	38.97
1.75	38.39
2.00	37.88
2.50	37.49
3.00	34.80
3.50	34.45
4.00	36.75
4.50	33.16
5.00	32.70
5.50	30.56
6.00	32.61
6.50	32.05
7.00	32.29
7.50	31.13
8.00	31.09



2526 FLOWRATE

0	0.99
0.25	0.98
0.5	0.97
0.75	0.95
1	0.93
1.25	0.95
1.5	0.98
1.75	0.98
2	0.98
2.5	0.99
3	0.99
3.5	0.96
4	0.98
4.5	0.94
5	0.95
5.5	1.01
6	0.95
6.5	0.97
7	0.93
7.5	0.99
8	1.01



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 1 1 0

TEMPLATE

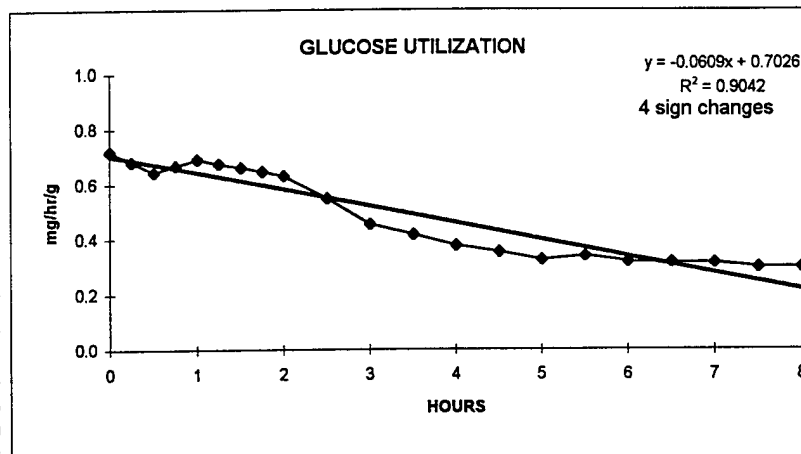
ONE BLISTER NOTED DURING VEHICLE DOSING.

2527PLOT.XLS

DOSE = (10 mg/ml)(300 ul) = 3000 ug HD in ETOH

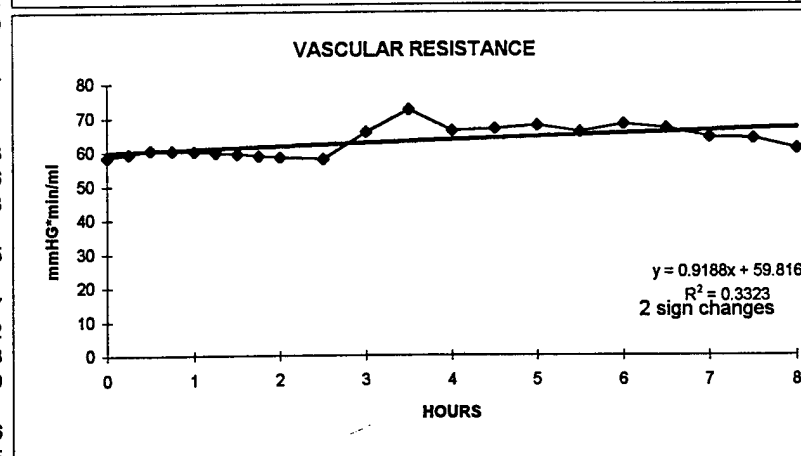
2527 GLUCOSE UTILIZATION

0.00	0.7182
0.25	0.6811
0.50	0.6431
0.75	0.6673
1.00	0.6889
1.25	0.6742
1.50	0.6596
1.75	0.6449
2.00	0.6302
2.50	0.5478
3.00	0.4547
3.50	0.4164
4.00	0.3772
4.50	0.3554
5.00	0.3268
5.50	0.3410
6.00	0.3192
6.50	0.3159
7.00	0.3141
7.50	0.2984
8.00	0.2991



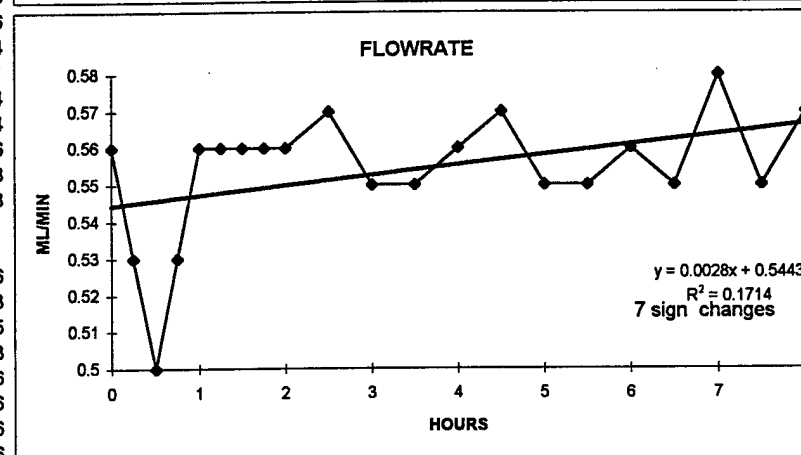
2527 VASCULAR RESISTANCE

0.00	58.48
0.25	59.46
0.50	60.58
0.75	60.41
1.00	60.25
1.25	59.81
1.50	59.37
1.75	58.92
2.00	58.48
2.50	57.89
3.00	65.81
3.50	72.36
4.00	66.25
4.50	66.66
5.00	67.64
5.50	65.81
6.00	68.04
6.50	66.94
7.00	64.26
7.50	63.98
8.00	60.88



2527 FLOWRATE

0	0.56
0.25	0.53
0.5	0.5
0.75	0.53
1	0.56
1.25	0.56
1.5	0.56
1.75	0.56
2	0.56
2.5	0.57
3	0.55
3.5	0.55
4	0.56
4.5	0.57
5	0.55
5.5	0.55
6	0.55
6.5	0.55
7	0.58
7.5	0.55
8	0.57



MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
1	1	0	1

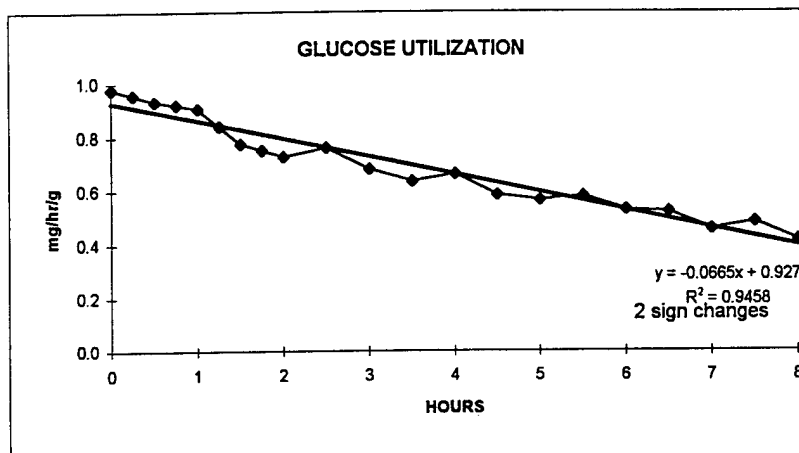
TEMPLATE

FINAL FLAP SLIGHTLY TURGID

2529PLOT.XLS
DOSE = (10 mg/ml)(300 ul) = 3000 ug HD in ETOH

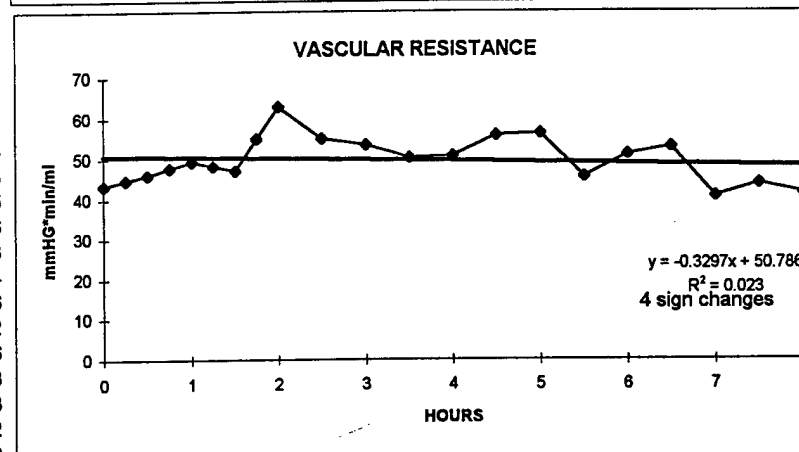
2529 GLUCOSE UTILIZATION

0.00	0.9792
0.25	0.9560
0.50	0.9331
0.75	0.9201
1.00	0.9072
1.25	0.8405
1.50	0.7759
1.75	0.7520
2.00	0.7285
2.50	0.7626
3.00	0.6821
3.50	0.6373
4.00	0.6625
4.50	0.5849
5.00	0.5670
5.50	0.5798
6.00	0.5293
6.50	0.5239
7.00	0.4584
7.50	0.4846
8.00	0.4168



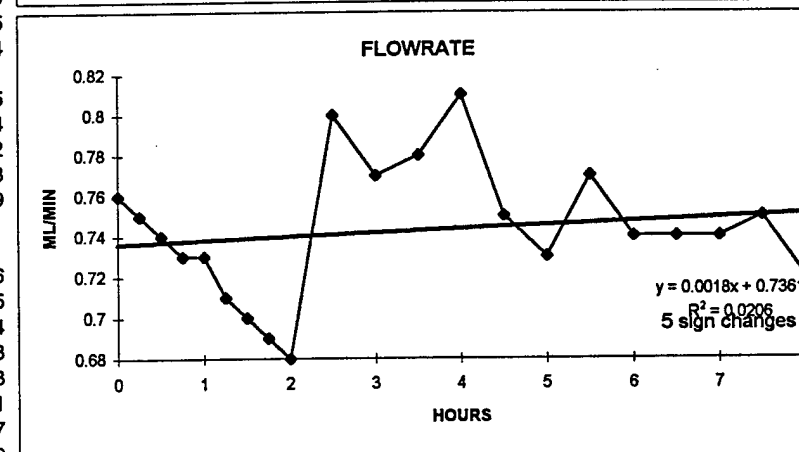
2529 VASCULAR RESISTANCE

0.00	43.44
0.25	44.78
0.50	46.15
0.75	47.76
1.00	49.38
1.25	48.34
1.50	47.26
1.75	55.02
2.00	62.96
2.50	55.13
3.00	53.43
3.50	50.32
4.00	50.89
4.50	55.85
5.00	56.24
5.50	45.61
6.00	51.05
6.50	52.94
7.00	40.72
7.50	43.88
8.00	41.59



2529 FLOWRATE

0	0.76
0.25	0.75
0.5	0.74
0.75	0.73
1	0.73
1.25	0.71
1.5	0.7
1.75	0.69
2	0.68
2.5	0.8
3	0.77
3.5	0.78
4	0.81
4.5	0.75
5	0.73
5.5	0.77
6	0.74
6.5	0.74
7	0.74
7.5	0.75
8	0.72



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 1 0

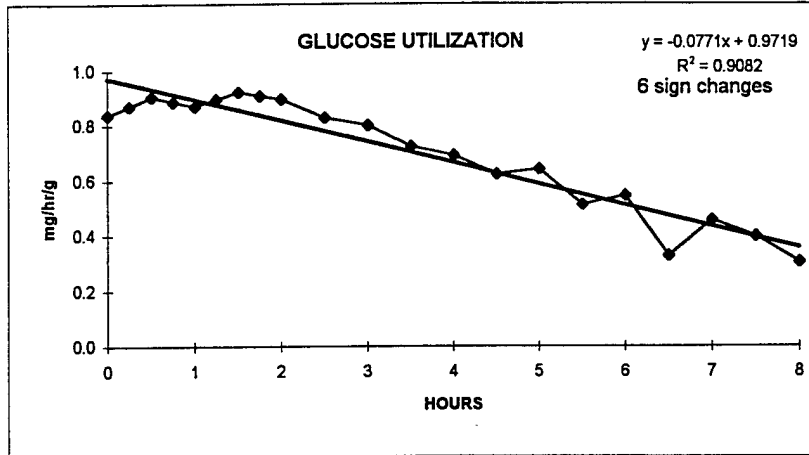
TEMPLATE

FINAL FLAP - FRANK BLISTER FORMATION.

2530PLOT.XLS
DOSE = 300 ul ETOH

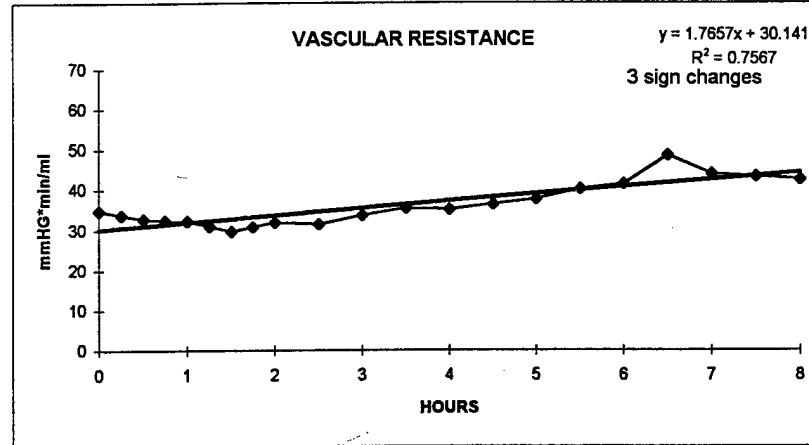
2530 GLUCOSE UTILIZATION

0.00	0.8380
0.25	0.8713
0.50	0.9052
0.75	0.8886
1.00	0.8722
1.25	0.8975
1.50	0.9231
1.75	0.9097
2.00	0.8962
2.50	0.8282
3.00	0.8017
3.50	0.7246
4.00	0.6912
4.50	0.6220
5.00	0.6425
5.50	0.5140
6.00	0.5452
6.50	0.3281
7.00	0.4569
7.50	0.3989
8.00	0.3038



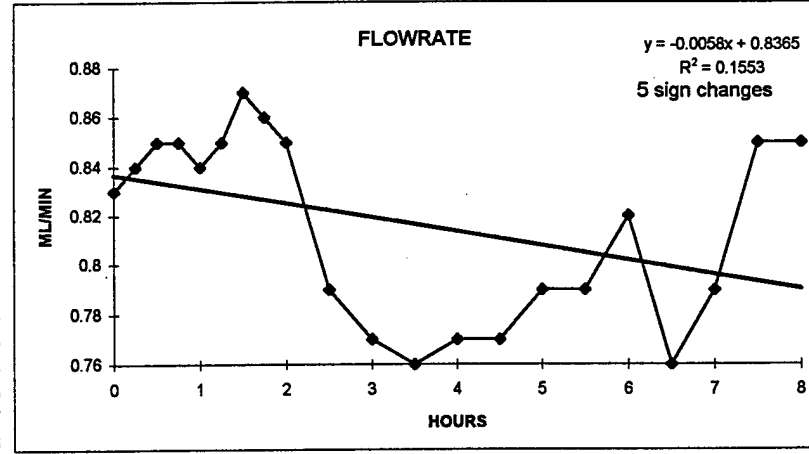
2530 VASCULAR RESISTANCE

0.00	34.85
0.25	33.80
0.50	32.79
0.75	32.52
1.00	32.25
1.25	31.03
1.50	29.85
1.75	30.88
2.00	31.93
2.50	31.45
3.00	33.79
3.50	35.48
4.00	35.09
4.50	36.39
5.00	37.74
5.50	40.26
6.00	41.45
6.50	48.62
7.00	44.03
7.50	43.32
8.00	42.57



2530FLOWRATE

0	0.83
0.25	0.84
0.5	0.85
0.75	0.85
1	0.84
1.25	0.85
1.5	0.87
1.75	0.86
2	0.85
2.5	0.79
3	0.77
3.5	0.76
4	0.77
4.5	0.77
5	0.79
5.5	0.79
6	0.82
6.5	0.76
7	0.79
7.5	0.85
8	0.85



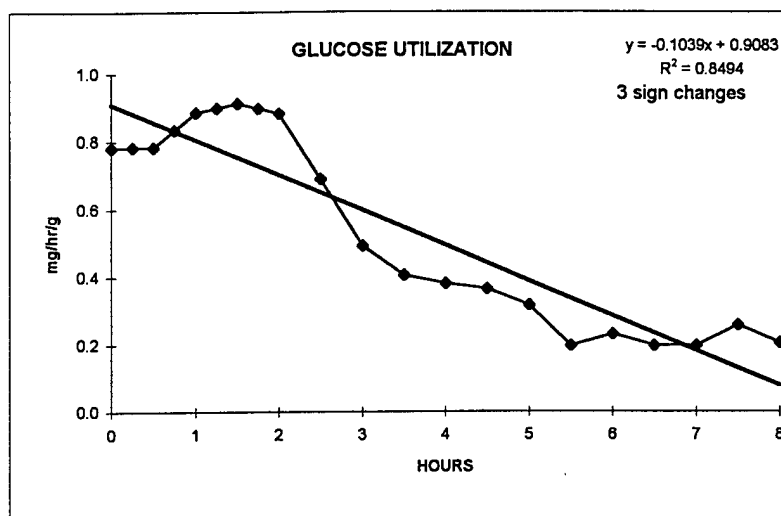
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 1 0 0

TEMPLATE

2531PLOT.XLS
DOSE = 300 UL ETOH

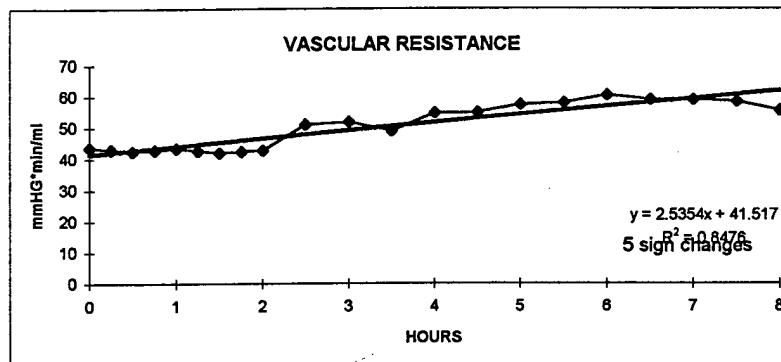
2531 GLUCOSE UTILIZATION

0.00	0.7809
0.25	0.7828
0.50	0.7836
0.75	0.8351
1.00	0.8854
1.25	0.8995
1.50	0.9136
1.75	0.8979
2.00	0.8820
2.50	0.6892
3.00	0.4919
3.50	0.4061
4.00	0.3809
4.50	0.3654
5.00	0.3181
5.50	0.1967
6.00	0.2311
6.50	0.1967
7.00	0.1967
7.50	0.2585
8.00	0.2051



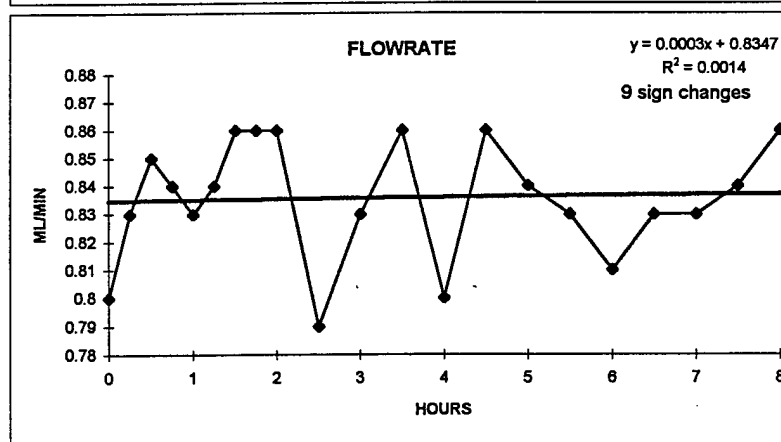
2531 VASCULAR RESISTANCE

0.00	43.58
0.25	43.02
0.50	42.49
0.75	42.94
1.00	43.39
1.25	42.71
1.50	42.05
1.75	42.42
2.00	42.78
2.50	50.92
3.00	51.83
3.50	49.06
4.00	54.79
4.50	54.90
5.00	57.25
5.50	57.86
6.00	60.35
6.50	59.06
7.00	59.06
7.50	58.44
8.00	55.50



2531 FLOWRATE

0	0.8
0.25	0.83
0.5	0.85
0.75	0.84
1	0.83
1.25	0.84
1.5	0.86
1.75	0.86
2	0.86
2.5	0.79
3	0.83
3.5	0.86
4	0.8
4.5	0.86
5	0.84
5.5	0.83
6	0.81
6.5	0.83
7	0.83
7.5	0.84
8	0.86



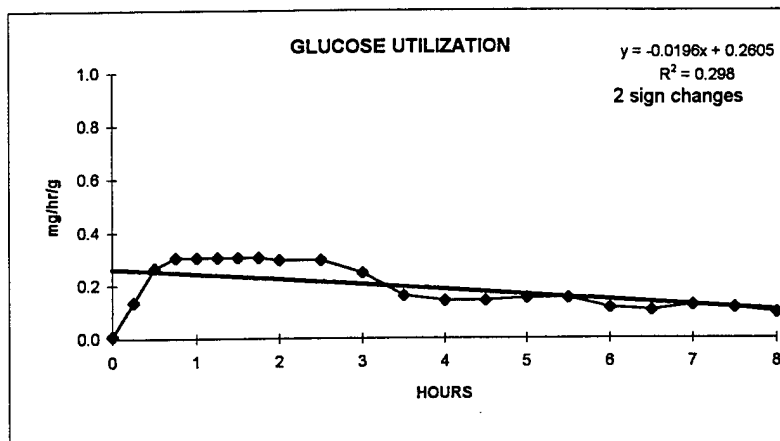
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 0 0

TEMPLATE

2532PLOT.XLS
DOSE = 300 ul ETOH

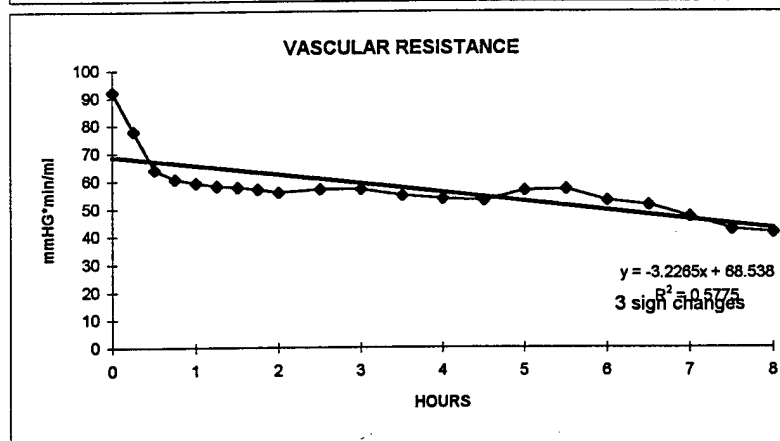
2532 GLUCOSE UTILIZATION

0.00	0.0086
0.25	0.1369
0.50	0.2653
0.75	0.3032
1.00	0.3032
1.25	0.3032
1.50	0.3032
1.75	0.3032
2.00	0.2937
2.50	0.2937
3.00	0.2463
3.50	0.1611
4.00	0.1421
4.50	0.1421
5.00	0.1516
5.50	0.1516
6.00	0.1137
6.50	0.1042
7.00	0.1232
7.50	0.1137
8.00	0.0947



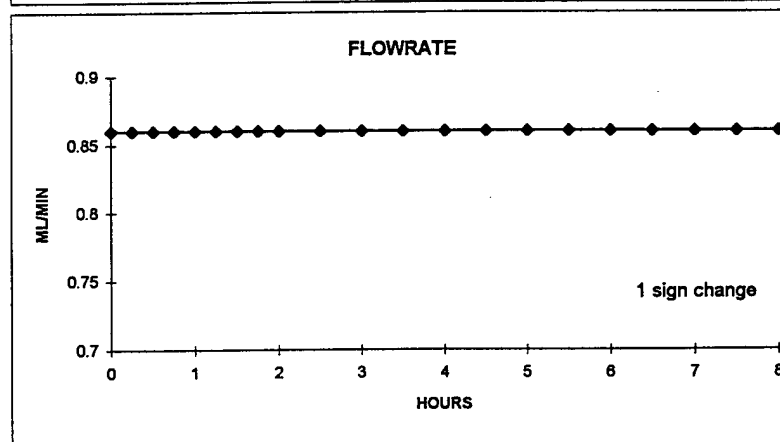
2532 VASCULAR RESISTANCE

0.00	92.19
0.25	78.11
0.50	64.03
0.75	60.54
1.00	59.37
1.25	58.21
1.50	57.63
1.75	57.04
2.00	55.88
2.50	57.04
3.00	57.04
3.50	54.72
4.00	53.55
4.50	52.97
5.00	56.46
5.50	57.04
6.00	52.97
6.50	51.22
7.00	47.15
7.50	42.49
8.00	41.33



2532 FLOWRATE

0	0.86
0.25	0.86
0.5	0.86
0.75	0.86
1	0.86
1.25	0.86
1.5	0.86
1.75	0.86
2	0.86
2.5	0.86
3	0.86
3.5	0.86
4	0.86
4.5	0.86
5	0.86
5.5	0.86
6	0.86
6.5	0.86
7	0.86
7.5	0.86
8	0.86



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION

MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
1	1	1	0

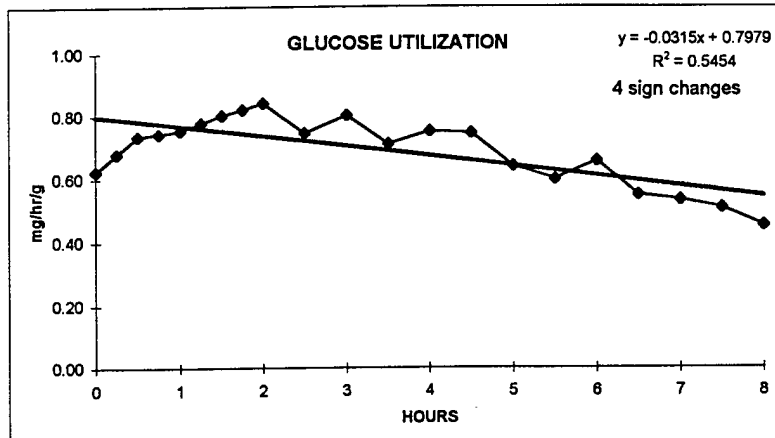
TEMPLATE

INITIAL GLUCOSE READINGS DUE TO PROBLEM WITH YSI GLUCOSE ANALYSER.

2533PLOT.XLS
Dose = 300 ul EtOH

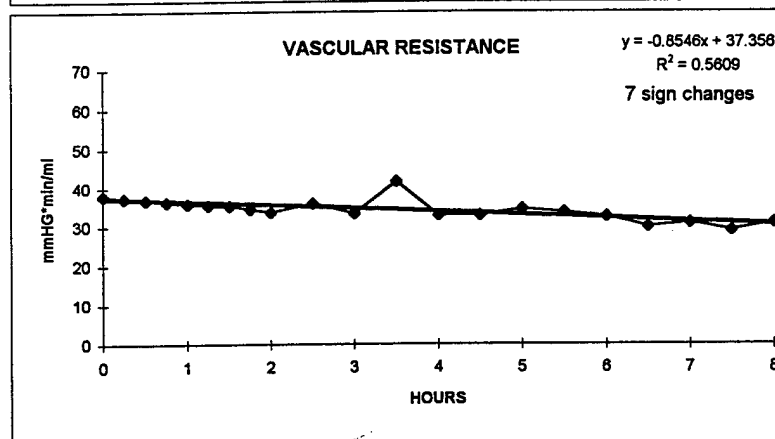
2533 GLUCOSE UTILIZATION

0.00	0.6244
0.25	0.6799
0.50	0.7341
0.75	0.7443
1.00	0.7545
1.25	0.7789
1.50	0.8035
1.75	0.8221
2.00	0.8409
2.50	0.7461
3.00	0.8035
3.50	0.7114
4.00	0.7509
4.50	0.7461
5.00	0.6401
5.50	0.5987
6.00	0.6576
6.50	0.5506
7.00	0.5335
7.50	0.5098
8.00	0.4545



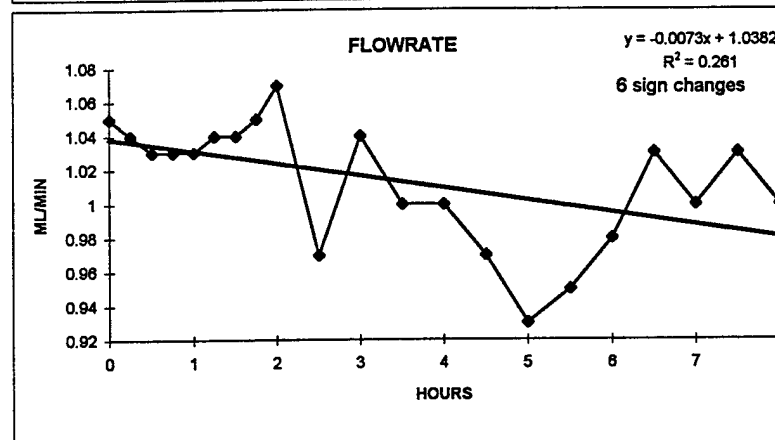
2533 VASCULAR RESISTANCE

0.00	37.93
0.25	37.36
0.50	36.78
0.75	36.30
1.00	35.81
1.25	35.63
1.50	35.45
1.75	34.61
2.00	33.80
2.50	36.11
3.00	33.53
3.50	41.75
4.00	32.96
4.50	33.01
5.00	34.53
5.50	33.76
6.00	32.66
6.50	30.00
7.00	30.96
7.50	29.04
8.00	30.96



2533 FLOWRATE

0	1.05
0.25	1.04
0.5	1.03
0.75	1.03
1	1.03
1.25	1.04
1.5	1.04
1.75	1.05
2	1.07
2.5	0.97
3	1.04
3.5	1
4	1
4.5	0.97
5	0.93
5.5	0.95
6	0.98
6.5	1.03
7	1
7.5	1.03
8	1



MICRO DARK RBCs in DERMAL
 vesicles BASAL VESSELS INFLAM
 0 0 0 0

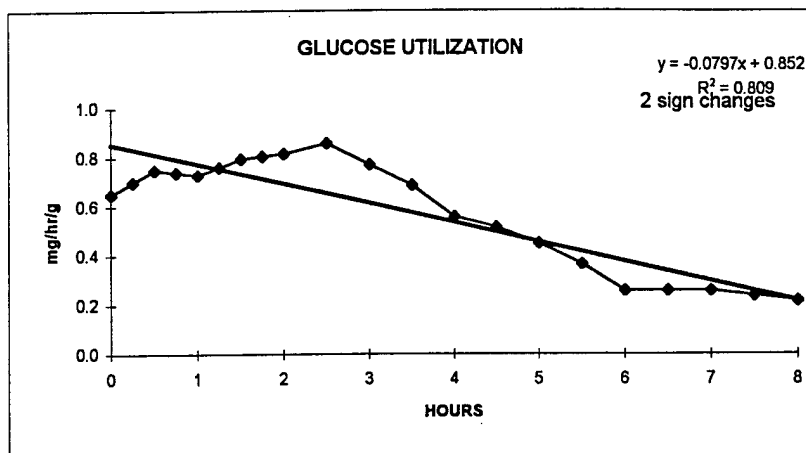
TEMPLATE

2534PLOT.XLS

DOSE = (10 mg/ml)(300 ul) = 3000 ug HD in ETOH

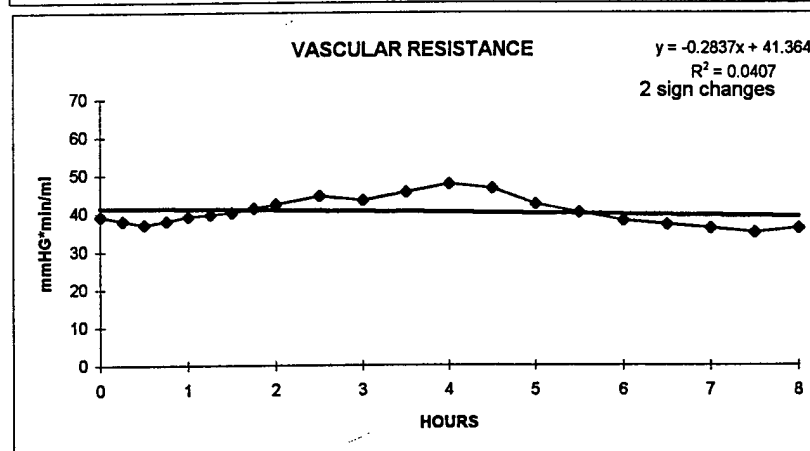
2534 GLUCOSE UTILIZATION

0.00	0.6506
0.25	0.7007
0.50	0.7507
0.75	0.7400
1.00	0.7293
1.25	0.7614
1.50	0.7936
1.75	0.8043
2.00	0.8151
2.50	0.8580
3.00	0.7722
3.50	0.6864
4.00	0.5577
4.50	0.5148
5.00	0.4504
5.50	0.3646
6.00	0.2574
6.50	0.2574
7.00	0.2574
7.50	0.2359
8.00	0.2145



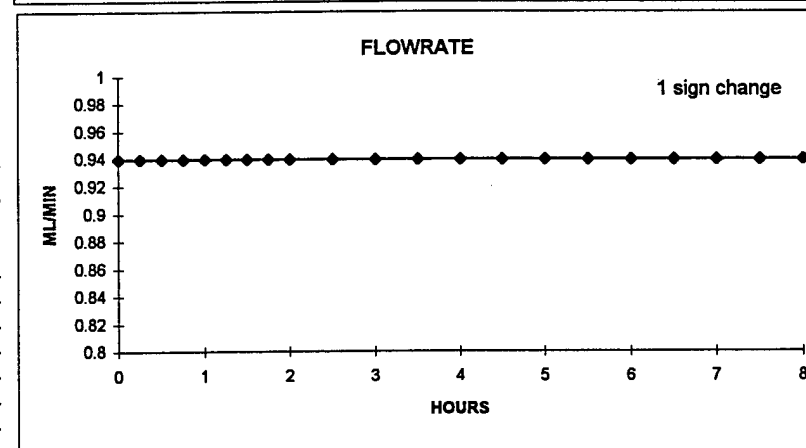
2534 VASCULAR RESISTANCE

0.00	39.21
0.25	38.15
0.50	37.09
0.75	38.15
1.00	39.21
1.25	39.74
1.50	40.26
1.75	41.32
2.00	42.38
2.50	44.50
3.00	43.44
3.50	45.56
4.00	47.68
4.50	46.62
5.00	42.38
5.50	40.26
6.00	38.15
6.50	37.09
7.00	36.03
7.50	34.97
8.00	36.03



2534 FLOWRATE

0	0.94
0.25	0.94
0.5	0.94
0.75	0.94
1	0.94
1.25	0.94
1.5	0.94
1.75	0.94
2	0.94
2.5	0.94
3	0.94
3.5	0.94
4	0.94
4.5	0.94
5	0.94
5.5	0.94
6	0.94
6.5	0.94
7	0.94
7.5	0.94
8	0.94



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION

MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
0	0	0	0

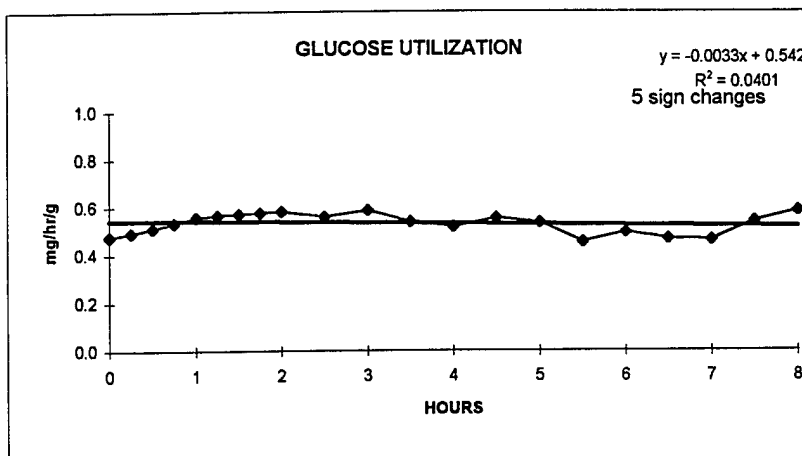
TEMPLATE

FINAL FLAP SLIGHTLY TURGID.

2536PLOT.XLS
DOSE = (50 ug/ml)(300 UL) = 15,000 ug HD = ETOH

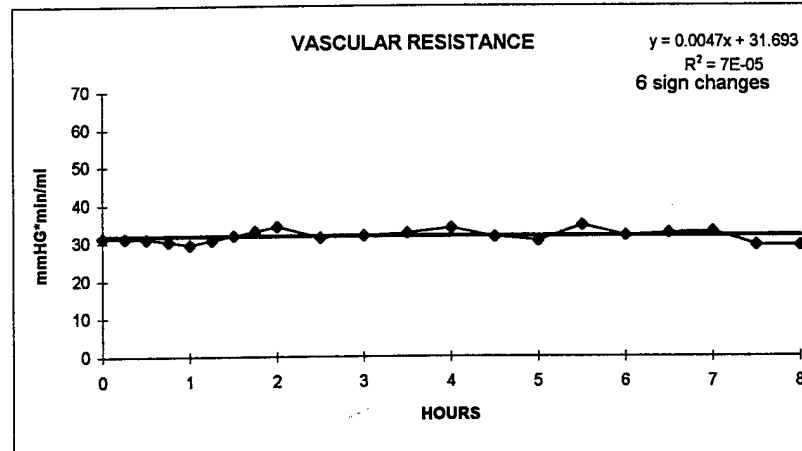
2536 GLUCOSE UTILIZATION

0.00	0.4750
0.25	0.4931
0.50	0.5116
0.75	0.5337
1.00	0.5563
1.25	0.5641
1.50	0.5710
1.75	0.5764
2.00	0.5818
2.50	0.5586
3.00	0.5860
3.50	0.5377
4.00	0.5168
4.50	0.5534
5.00	0.5347
5.50	0.4540
6.00	0.4958
6.50	0.4680
7.00	0.4634
7.50	0.5393
8.00	0.5833



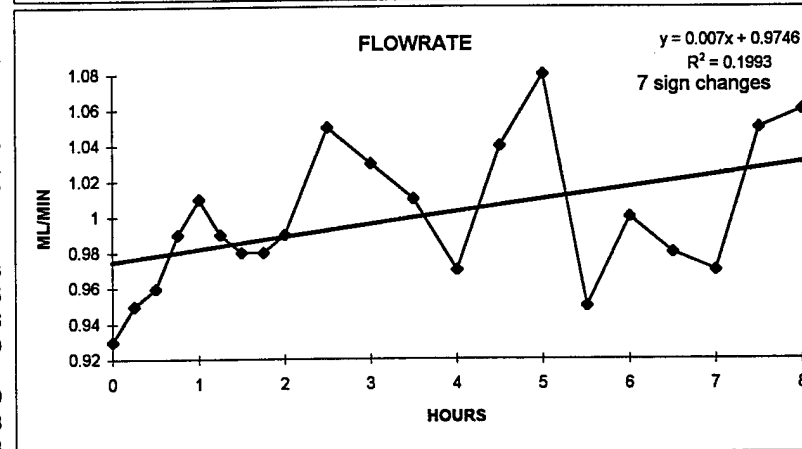
2536 VASCULAR RESISTANCE

0.00	31.34
0.25	31.22
0.50	31.11
0.75	30.33
1.00	29.60
1.25	30.77
1.50	31.97
1.75	33.10
2.00	34.21
2.50	31.34
3.00	31.94
3.50	32.56
4.00	33.87
4.50	31.64
5.00	30.48
5.50	34.57
6.00	31.88
6.50	32.52
7.00	32.85
7.50	29.44
8.00	29.17



2536 FLOWRATE

0	0.93
0.25	0.95
0.5	0.96
0.75	0.99
1	1.01
1.25	0.99
1.5	0.98
1.75	0.98
2	0.99
2.5	1.05
3	1.03
3.5	1.01
4	0.97
4.5	1.04
5	1.08
5.5	0.95
6	1.01
6.5	0.98
7	0.97
7.5	1.05
8	1.06



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 0 1

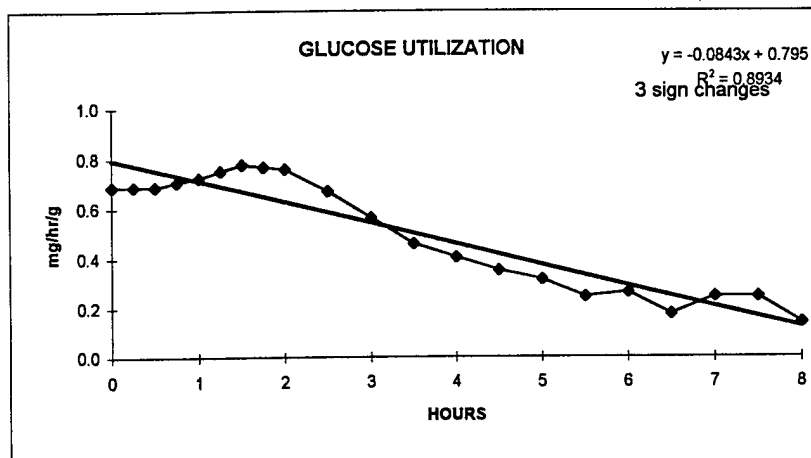
TEMPLATE

2537PLOT.XLS

DOSE = (50 mg/ml) = 15,000 ug HD in ETOH

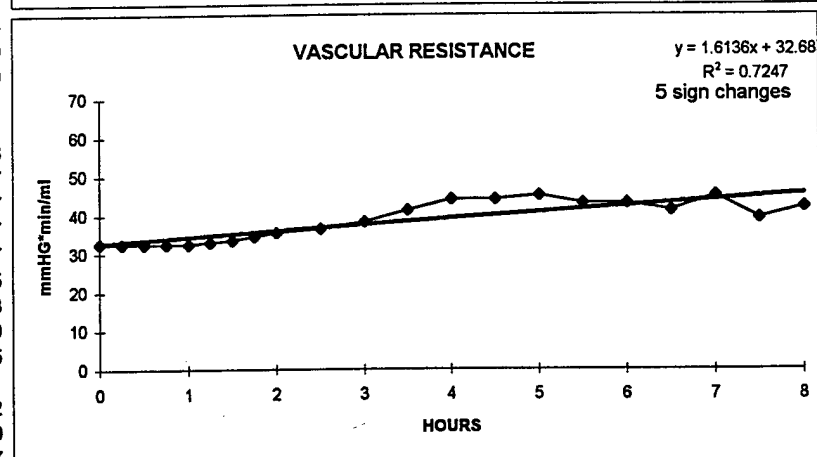
2537 GLUCOSE UTILIZATION

0.00	0.6880
0.25	0.6880
0.50	0.6880
0.75	0.7056
1.00	0.7233
1.25	0.7497
1.50	0.7762
1.75	0.7674
2.00	0.7586
2.50	0.6704
3.00	0.5645
3.50	0.4587
4.00	0.4057
4.50	0.3528
5.00	0.3175
5.50	0.2470
6.00	0.2646
6.50	0.1764
7.00	0.2470
7.50	0.2470
8.00	0.1411



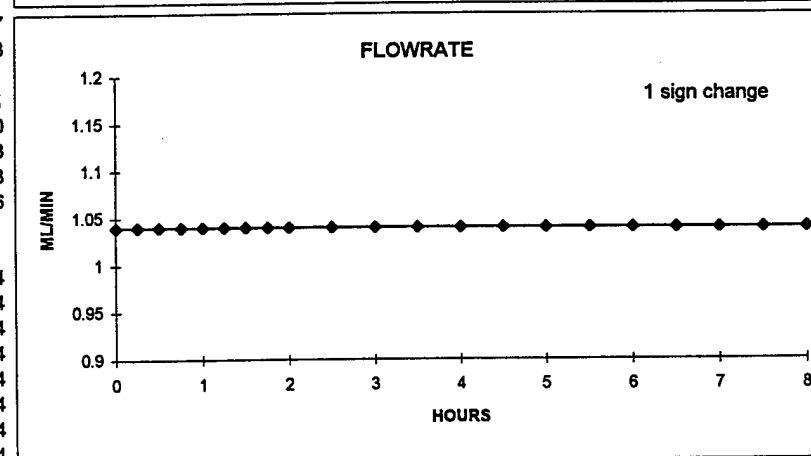
2537 VASCULAR RESISTANCE

0.00	32.63
0.25	32.57
0.50	32.57
0.75	32.57
1.00	32.57
1.25	33.05
1.50	33.53
1.75	34.49
2.00	35.45
2.50	36.41
3.00	38.32
3.50	41.20
4.00	44.07
4.50	44.07
5.00	45.03
5.50	43.11
6.00	43.11
6.50	41.20
7.00	45.03
7.50	39.28
8.00	42.16



2537 FLOWRATE

0	1.04
0.25	1.04
0.5	1.04
0.75	1.04
1	1.04
1.25	1.04
1.5	1.04
1.75	1.04
2	1.04
2.5	1.04
3	1.04
3.5	1.04
4	1.04
4.5	1.04
5	1.04
5.5	1.04
6	1.04
6.5	1.04
7	1.04
7.5	1.04
8	1.04



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION

MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
0	1	1	1

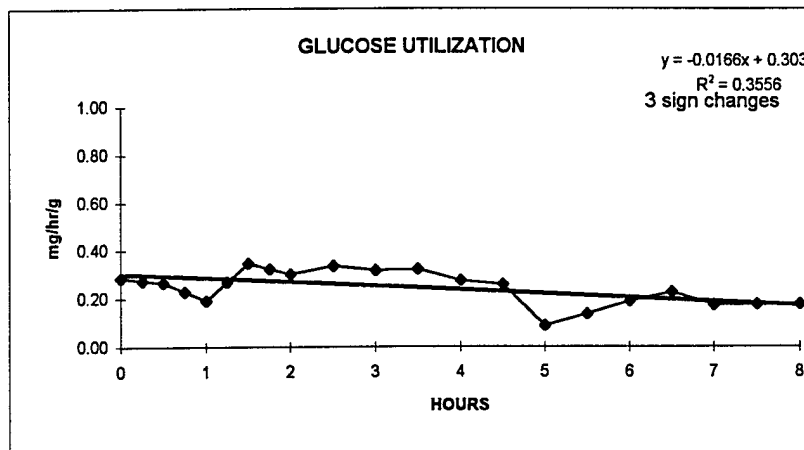
TEMPLATE

FLOW RATE OF 1.00 ML/MIN WAS ASSUMED DUE TO INOPERABLE FLOW METER.

2538PLOT.XLS
DOSE = 300 UL ETOH

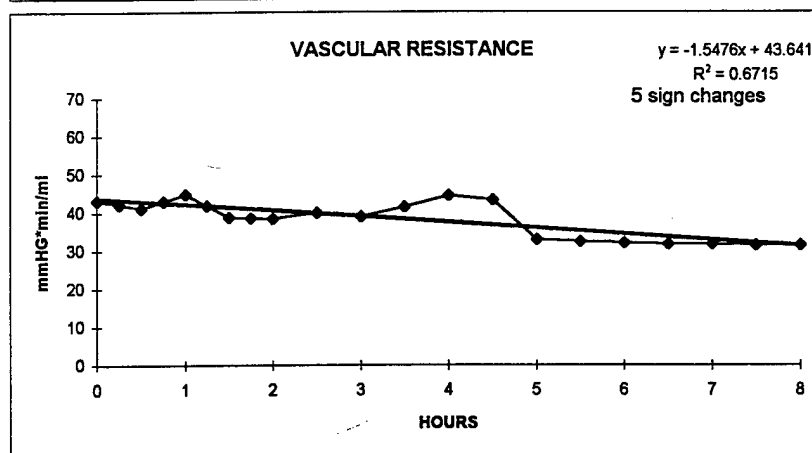
2538 GLUCOSE UTILIZATION

0.00	0.2849
0.25	0.2759
0.50	0.2670
0.75	0.2300
1.00	0.1925
1.25	0.2695
1.50	0.3466
1.75	0.3242
2.00	0.3022
2.50	0.3368
3.00	0.3180
3.50	0.3237
4.00	0.2761
4.50	0.2588
5.00	0.0872
5.50	0.1366
6.00	0.1898
6.50	0.2267
7.00	0.1744
7.50	0.1762
8.00	0.1762



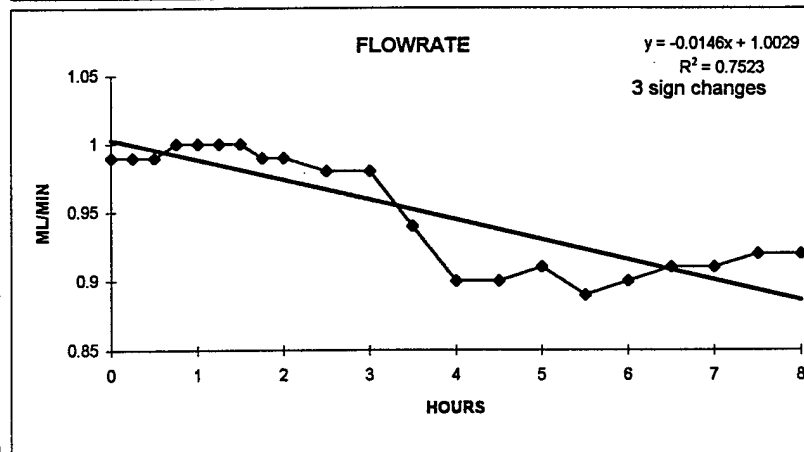
2538 VASCULAR RESISTANCE

0.00	43.09
0.25	42.15
0.50	41.21
0.75	43.02
1.00	44.80
1.25	41.82
1.50	38.83
1.75	38.70
2.00	38.56
2.50	39.96
3.00	38.94
3.50	41.58
4.00	44.44
4.50	43.33
5.00	32.98
5.50	32.56
6.00	32.22
6.50	31.88
7.00	31.88
7.50	31.55
8.00	31.55



2538 FLOWRATE

0	0.99
0.25	0.99
0.5	0.99
0.75	1
1	1
1.25	1
1.5	1
1.75	0.99
2	0.99
2.5	0.98
3	0.98
3.5	0.94
4	0.9
4.5	0.9
5	0.91
5.5	0.89
6	0.9
6.5	0.91
7	0.91
7.5	0.92
8	0.92



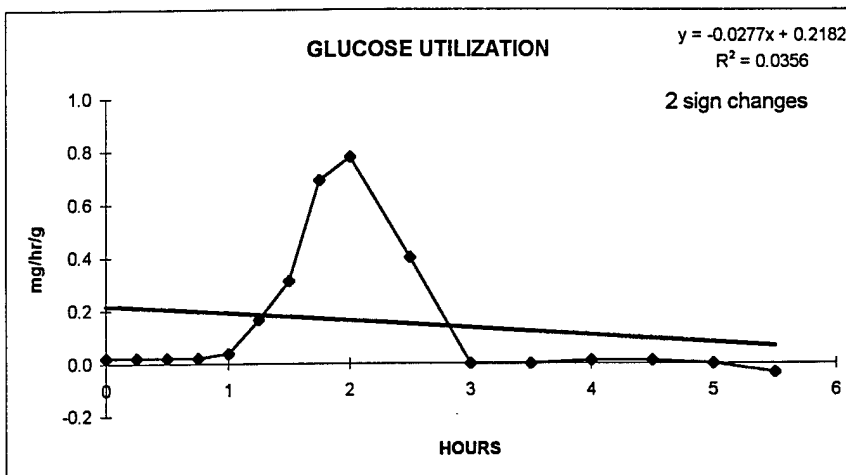
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
4 0 1 0

TEMPLATE

2539PLOT.XLS
NO DOSE

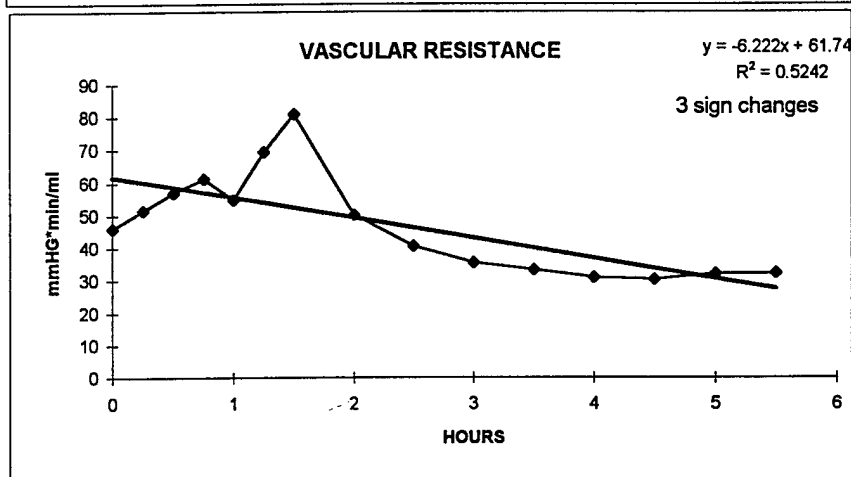
2539 GLUCOSE UTILIZATION

0	0.022
0.25	0.022
0.5	0.022
0.75	0.022
1	0.0391
1.25	0.1669
1.5	0.3128
1.75	0.6924
2	0.7783
2.5	0.4006
3	0
3.5	0
4	0.0117
4.5	0.0103
5	0
5.5	-0.0352



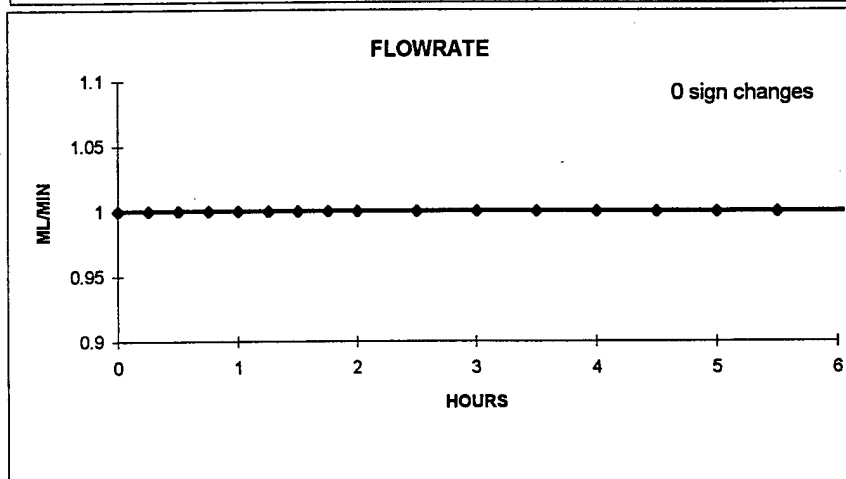
2539 VASCULAR RESISTANCE

0.00	46.00
0.25	51.45
0.50	56.91
0.75	61.36
1.00	54.94
1.25	69.45
1.50	81.07
2.00	50.27
2.50	40.60
3.00	35.53
3.50	33.33
4.00	31.00
4.50	30.47
5.00	32.13
5.50	32.40



2539 FLOWRATE

0	1
0.25	1
0.5	1
0.75	1
1	1
1.25	1
1.5	1
1.75	1
2	1
2.5	1
3	1
3.5	1
4	1
4.5	1
5	1
5.5	1



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION
FLAP ABORTED EARLY

NO HISTOLOGY

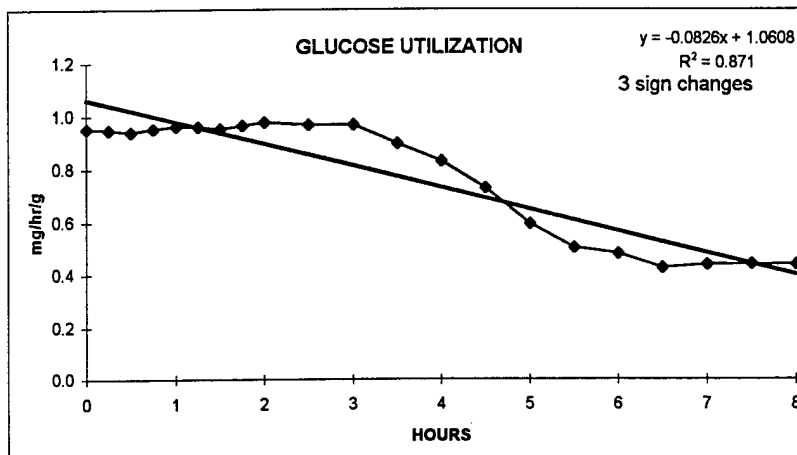
NO TEMPLATE

FLAP MODERATELY TURGID. PERFUSION STOPPED DUE TO LOW LACTATE LEVELS.

2540PLOT.XLS
DOSE = 300 UL ETOH

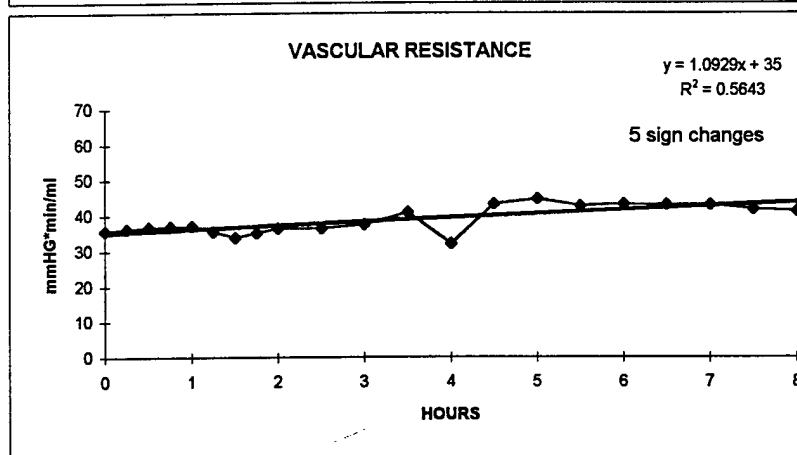
2540 GLUCOSE UTILIZATION

0.00	0.9533
0.25	0.9477
0.50	0.9406
0.75	0.9517
1.00	0.9627
1.25	0.9586
1.50	0.9523
1.75	0.9655
2.00	0.9772
2.50	0.9659
3.00	0.9659
3.50	0.8955
4.00	0.8303
4.50	0.7295
5.00	0.5944
5.50	0.5043
6.00	0.4821
6.50	0.4281
7.00	0.4387
7.50	0.4429
8.00	0.4405



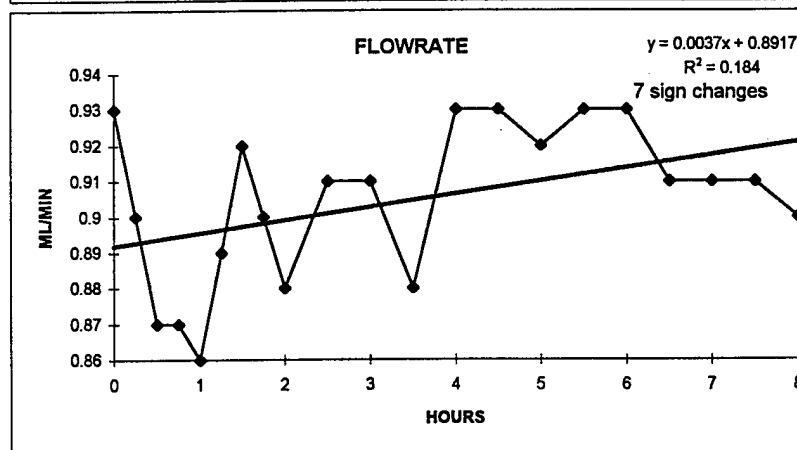
2540 VASCULAR RESISTANCE

0.00	35.66
0.25	36.21
0.50	36.79
0.75	36.98
1.00	37.18
1.25	35.46
1.50	33.84
1.75	35.09
2.00	36.40
2.50	36.39
3.00	37.49
3.50	40.95
4.00	32.10
4.50	43.23
5.00	44.75
5.50	42.80
6.00	43.23
6.50	43.01
7.00	43.01
7.50	41.90
8.00	41.22



2540 FLOWRATE

0	0.93
0.25	0.9
0.5	0.87
0.75	0.87
1	0.86
1.25	0.89
1.5	0.92
1.75	0.9
2	0.88
2.5	0.91
3	0.91
3.5	0.88
4	0.93
4.5	0.93
5	0.92
5.5	0.93
6	0.93
6.5	0.91
7	0.91
7.5	0.91
8	0.9



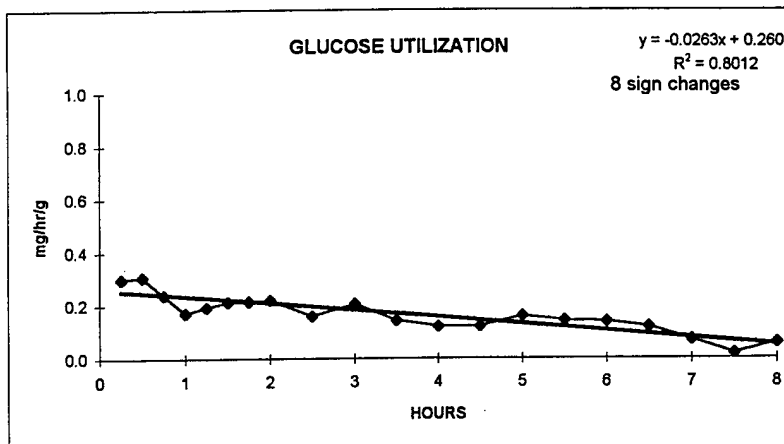
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 1 0 1

NO TEMPLATE

2541PLOT.XLS
DOSE = (50 MG/ML)(300 UL) = 15,000 UG HD IN ETOH

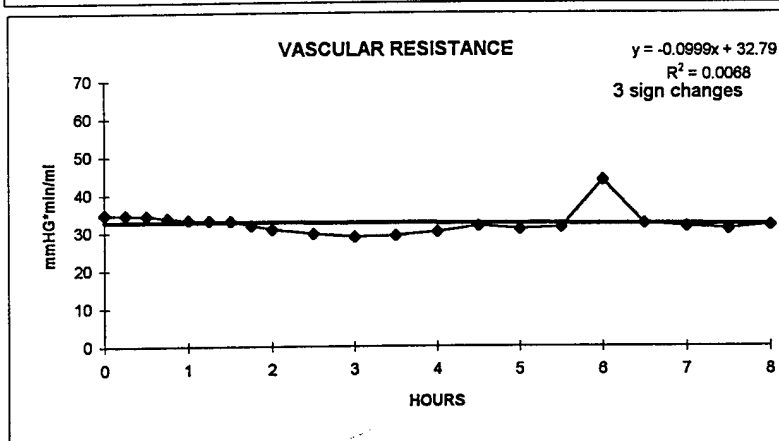
2541 GLUCOSE UTILIZATION

0.00	0.2946
0.25	0.3007
0.50	0.3065
0.75	0.2395
1.00	0.1724
1.25	0.1926
1.50	0.2129
1.75	0.2163
2.00	0.2196
2.50	0.1597
3.00	0.2057
3.50	0.1426
4.00	0.1222
4.50	0.121
5.00	0.1597
5.50	0.1426
6.00	0.1369
6.50	0.1186
7.00	0.0693
7.50	0.02
8.00	0.0581



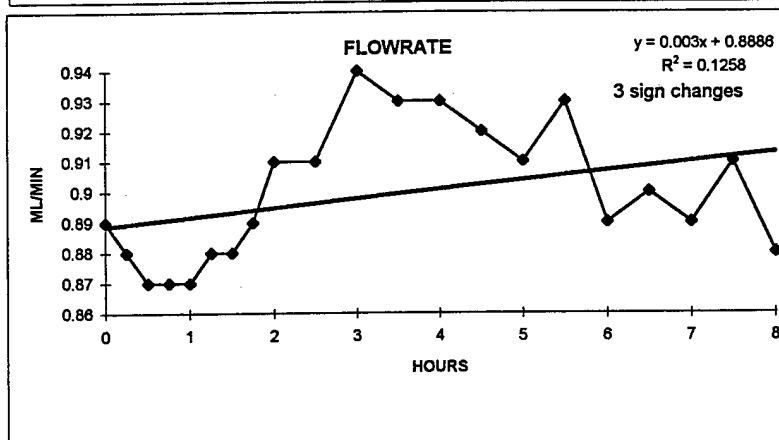
2541 VASCULAR RESISTANCE

0.00	34.79
0.25	34.61
0.50	34.42
0.75	33.84
1.00	33.27
1.25	33.10
1.50	32.92
1.75	31.86
2.00	30.82
2.50	29.72
3.00	28.85
3.50	29.14
4.00	30.21
4.50	31.61
5.00	30.82
5.50	31.29
6.00	43.82
6.50	32.25
7.00	31.46
7.50	30.82
8.00	31.79



2541 FLOWRATE

0	0.89
0.25	0.88
0.5	0.87
0.75	0.87
1	0.87
1.25	0.88
1.5	0.88
1.75	0.89
2	0.91
2.5	0.91
3	0.94
3.5	0.93
4	0.93
4.5	0.92
5	0.91
5.5	0.93
6	0.89
6.5	0.9
7	0.89
7.5	0.91
8	0.88



MICRO DARK RCBs in DERMAL
vesicles BASAL VESSELS INFLAM
0 1 0 0

TEMPLATE

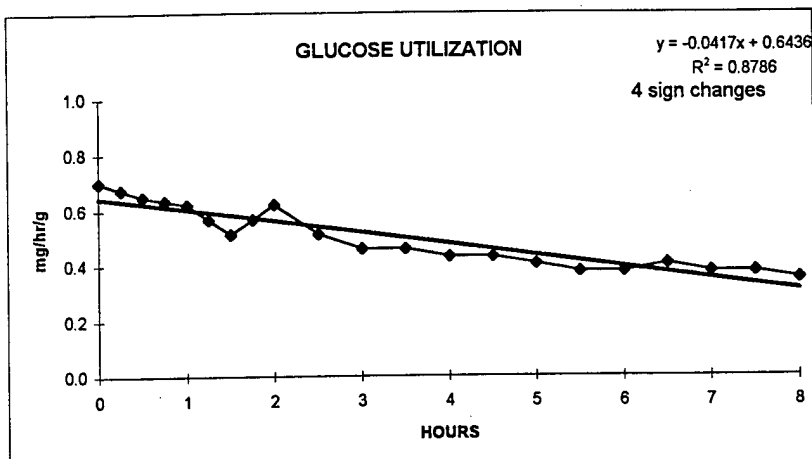
FINAL FLAP TURGID AT TIP.

2542PLOT.XLS

DOSE = (50 MG/ML)(300 UL) = 15,000 UG HD IN ETOH

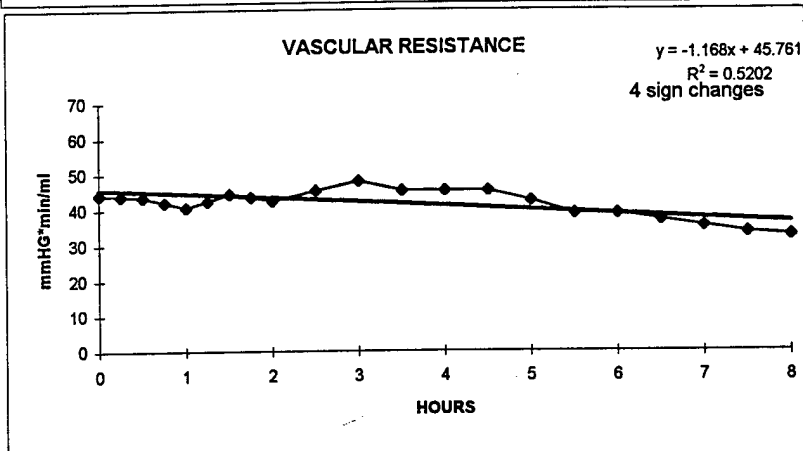
2542 GLUCOSE UTILIZATION

0.00	0.7004
0.25	0.6743
0.50	0.6481
0.75	0.6346
1.00	0.6211
1.25	0.5671
1.50	0.5131
1.75	0.5671
2.00	0.6211
2.50	0.5131
3.00	0.4591
3.50	0.4591
4.00	0.4321
4.50	0.4321
5.00	0.4051
5.50	0.3781
6.00	0.3781
6.50	0.4051
7.00	0.3781
7.50	0.3781
8.00	0.3511



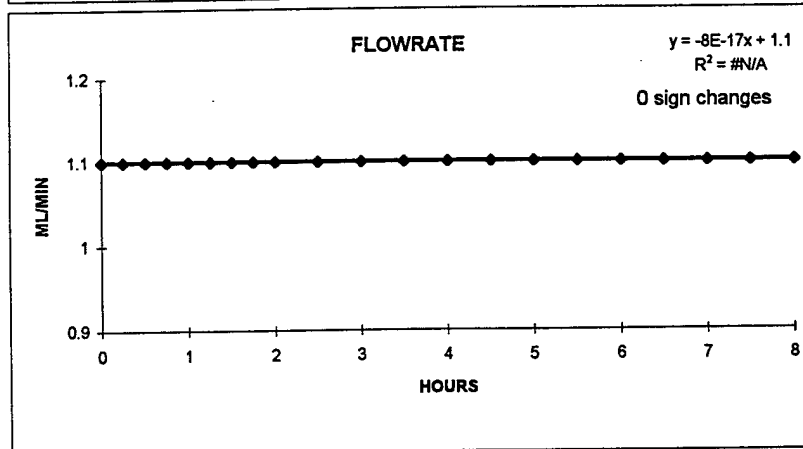
2542 VASCULAR RESISTANCE

0.00	44.41
0.25	43.97
0.50	43.53
0.75	42.17
1.00	40.81
1.25	42.62
1.50	44.44
1.75	43.53
2.00	42.62
2.50	45.34
3.00	48.06
3.50	45.34
4.00	45.34
4.50	45.34
5.00	42.62
5.50	38.99
6.00	38.99
6.50	37.18
7.00	35.37
7.50	33.55
8.00	32.65



2542 FLOWRATE

0	1.1
0.25	1.1
0.5	1.1
0.75	1.1
1	1.1
1.25	1.1
1.5	1.1
1.75	1.1
2	1.1
2.5	1.1
3	1.1
3.5	1.1
4	1.1
4.5	1.1
5	1.1
5.5	1.1
6	1.1
6.5	1.1
7	1.1
7.5	1.1
8	1.1



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION

MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
0	1	0	0

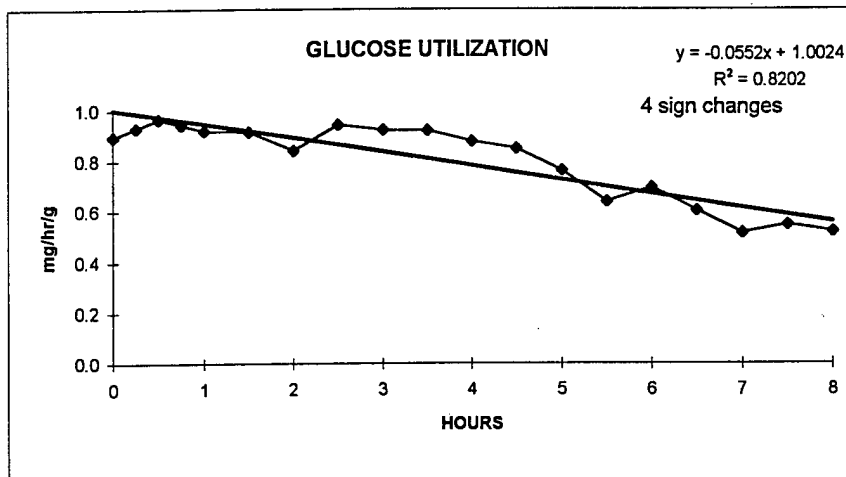
TEMPLATE

FLAP BRUISED AT TIP.

2543PLOT.XLS
(50 MG/ML)(300 UL) = 15,000 UG HD IN ETOH

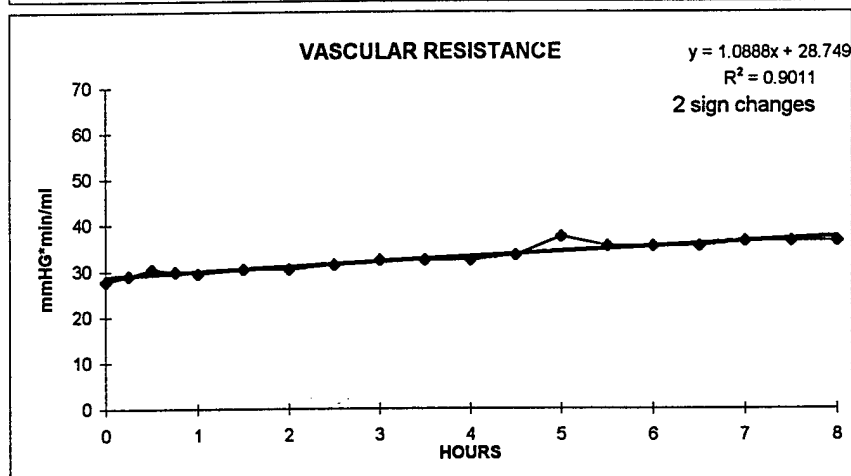
2543 GLUCOSE UTILIZATION

0.0	0.8966
0.3	0.9318
0.5	0.9670
0.8	0.9446
1.0	0.9221
1.5	0.9172
2.0	0.8424
2.5	0.9446
3.0	0.9246
3.5	0.9221
4.0	0.8773
4.5	0.8499
5.0	0.7626
5.5	0.6405
6.0	0.6978
6.5	0.6056
7.0	0.5159
7.5	0.5508
8.0	0.5209



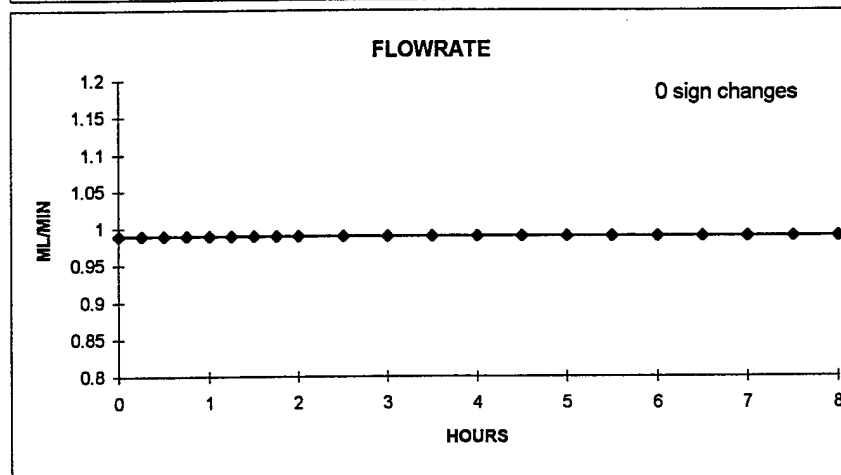
2543 VASCULAR RESISTANCE

0.0	27.66
0.3	28.99
0.5	30.33
0.8	29.83
1.0	29.32
1.5	30.33
2.0	30.33
2.5	31.34
3.0	32.36
3.5	32.36
4.0	32.36
4.5	33.37
5.0	37.41
5.5	35.39
6.0	35.39
6.5	35.39
7.0	36.40
7.5	36.40
8.0	36.40



2543 FLOWRATE

0	0.99
0.25	0.99
0.5	0.99
0.75	0.99
1	0.99
1.25	0.99
1.5	0.99
1.75	0.99
2	0.99
2.5	0.99
3	0.99
3.5	0.99
4	0.99
4.5	0.99
5	0.99
5.5	0.99
6	0.99
6.5	0.99
7	0.99
7.5	0.99
8	0.99



FLOW RATE ASSUMED DUE TO DELIVERY CALIBRATION

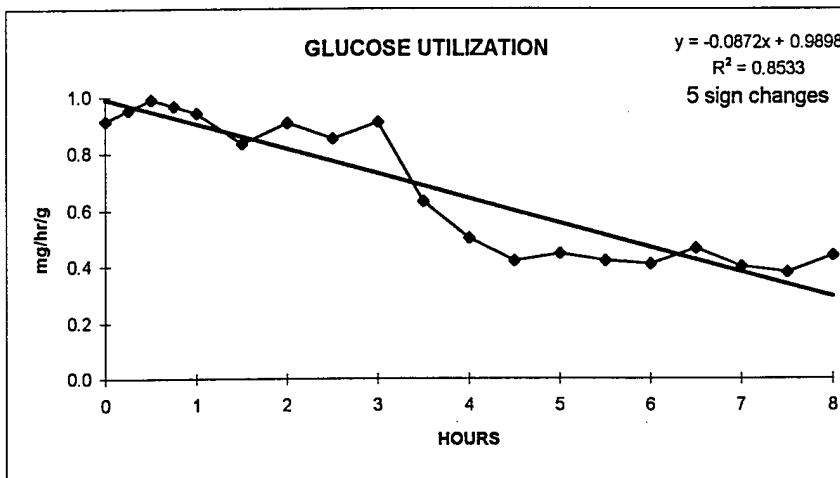
MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSLS	INFLAM
0	0	0	0

TEMPLATE

2544PLOT.XLS
(50 ug/ml)(300 ul)=15,000 ug HD in ETOH

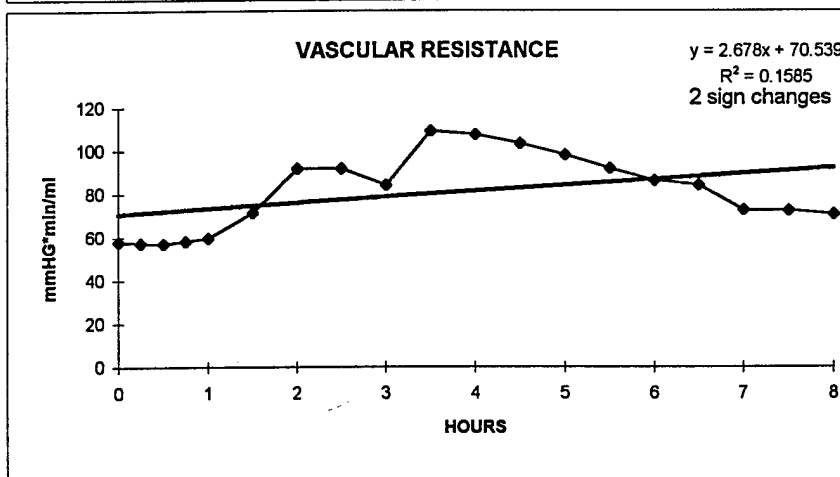
2544 GLUCOSE UTILIZATION

0.0	0.9156
0.3	0.9531
0.5	0.9912
0.8	0.9669
1.0	0.9427
1.5	0.8350
2.0	0.9084
2.5	0.8533
3.0	0.9099
3.5	0.6316
4.0	0.5008
4.5	0.4218
5.0	0.4452
5.5	0.4218
6.0	0.4102
6.5	0.4641
7.0	0.4002
7.5	0.3809
8.0	0.4395



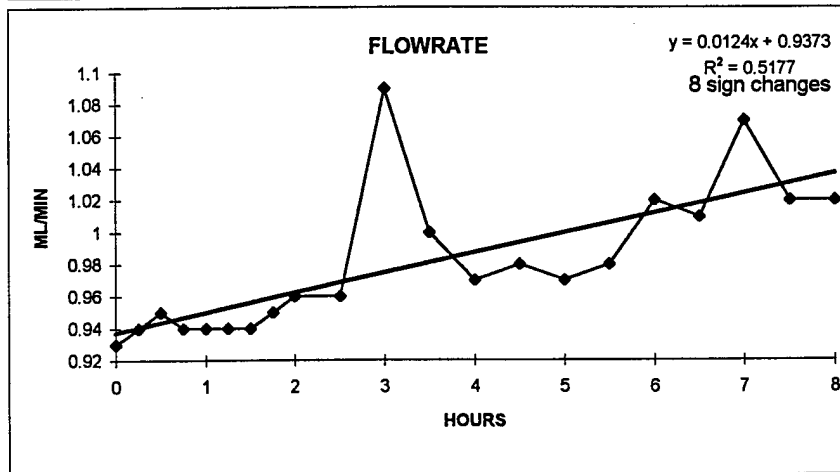
2544 VASCULAR RESISTANCE

0.0	58.04
0.3	57.48
0.5	56.93
0.8	58.30
1.0	59.69
1.5	71.41
2.0	91.78
2.5	91.78
3.0	84.18
3.5	108.99
4.0	107.31
4.5	103.12
5.0	98.02
5.5	91.89
6.0	86.21
6.5	84.12
7.0	72.74
7.5	72.50
8.0	70.54



2544 FLOWRATE

0	0.93
0.25	0.94
0.5	0.95
0.75	0.94
1	0.94
1.25	0.94
1.5	0.94
1.75	0.95
2	0.96
2.5	0.96
3	1.09
3.5	1
4	0.97
4.5	0.98
5	0.97
5.5	0.98
6	1.02
6.5	1.01
7	1.07
7.5	1.02
8	1.02



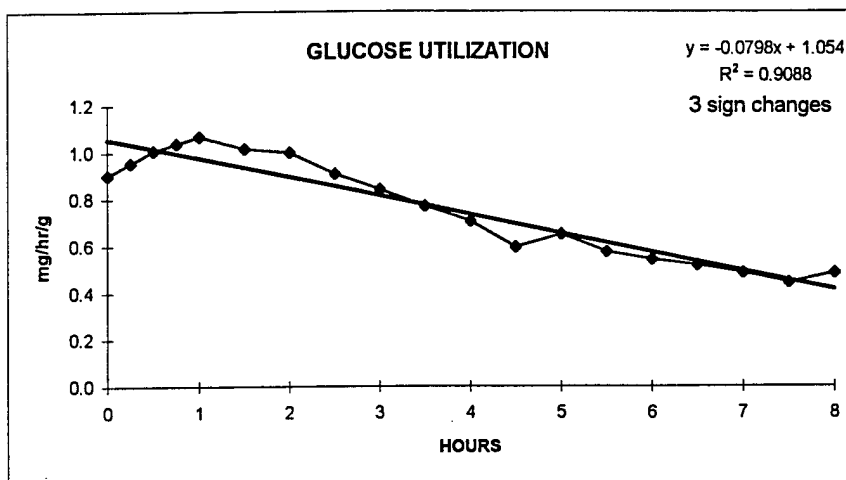
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

TEMPLATE

2545PLOT.XLS
300 UL ETOH

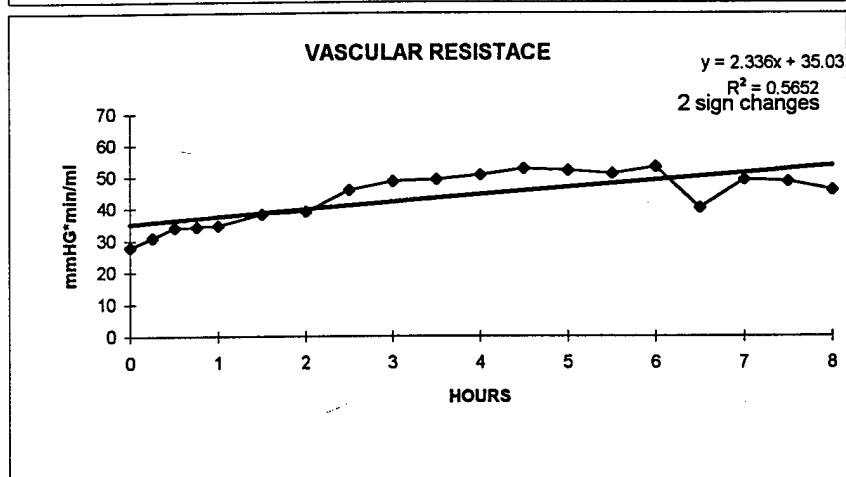
2545 GLUCOSE UTILIZATION

0.0	0.9017
0.3	0.9554
0.5	1.0078
0.8	1.0373
1.0	1.0670
1.5	1.0167
2.0	0.9982
2.5	0.9074
3.0	0.8428
3.5	0.7716
4.0	0.7060
4.5	0.5970
5.0	0.6510
5.5	0.5787
6.0	0.5450
6.5	0.5202
7.0	0.4867
7.5	0.4448
8.0	0.4869



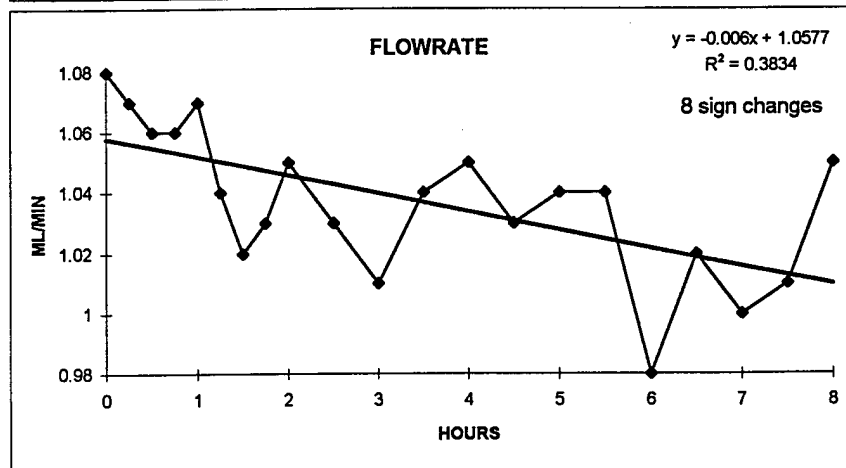
2545 VASCULAR RESISTANCE

0.0	27.85
0.3	30.93
0.5	34.06
0.8	34.37
1.0	34.68
1.5	38.36
2.0	39.16
2.5	45.78
3.0	48.68
3.5	49.19
4.0	50.63
4.5	52.59
5.0	52.08
5.5	51.12
6.0	53.26
6.5	40.33
7.0	49.17
7.5	48.68
8.0	45.85



2545 FLOWRATE

0	1.08
0.25	1.07
0.5	1.06
0.75	1.06
1	1.07
1.25	1.04
1.5	1.02
1.75	1.03
2	1.05
2.5	1.03
3	1.01
3.5	1.04
4	1.05
4.5	1.03
5	1.04
5.5	1.04
6	0.98
6.5	1.02
7	1
7.5	1.01
8	1.05



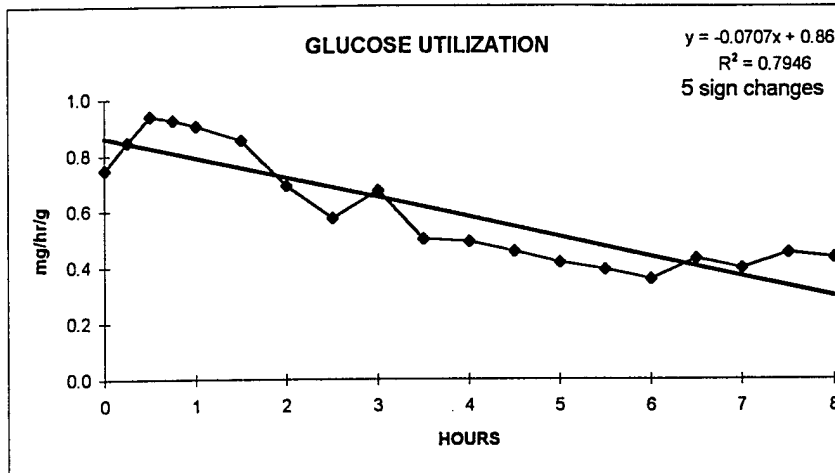
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
3 1 0 0

TEMPLATE

2546PLOT.XLS
300 UL ETOH

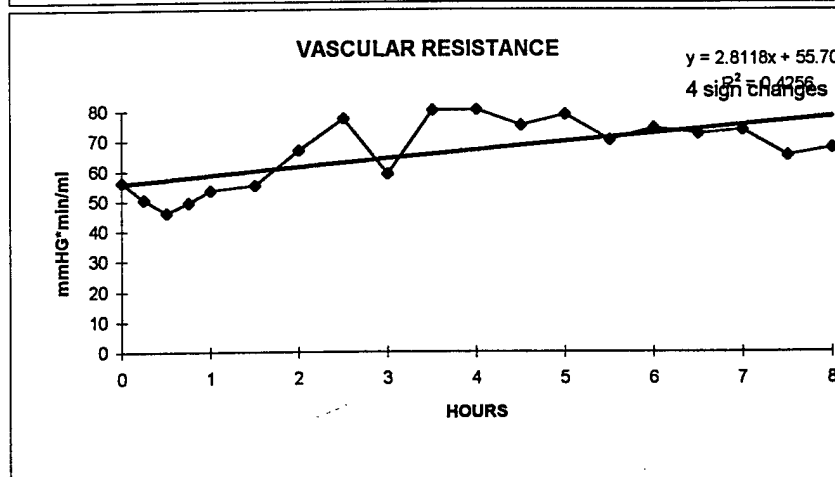
2546 GLUCOSE UTILIZATION

0.0	0.7497
0.3	0.8478
0.5	0.9406
0.8	0.9264
1.0	0.9046
1.5	0.8552
2.0	0.6926
2.5	0.5755
3.0	0.6731
3.5	0.4998
4.0	0.4897
4.5	0.4543
5.0	0.4165
5.5	0.3917
6.0	0.3561
6.5	0.4288
7.0	0.3948
7.5	0.4501
8.0	0.4321



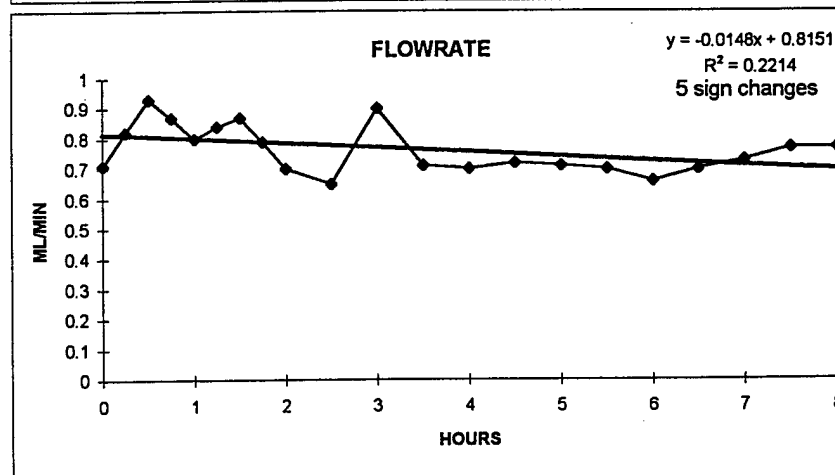
2546 VASCULAR RESISTANCE

0.0	56.28
0.3	50.48
0.5	46.07
0.8	49.50
1.0	53.47
1.5	55.25
2.0	66.80
2.5	77.38
3.0	59.06
3.5	80.19
4.0	80.41
4.5	75.21
5.0	78.79
5.5	70.36
6.0	74.18
6.5	72.48
7.0	73.74
7.5	65.09
8.0	67.69



2546 FLOWRATE

0	0.71
0.25	0.82
0.5	0.93
0.75	0.87
1	0.8
1.25	0.84
1.5	0.87
1.75	0.79
2	0.7
2.5	0.65
3	0.9
3.5	0.71
4	0.7
4.5	0.72
5	0.71
5.5	0.7
6	0.66
6.5	0.7
7	0.73
7.5	0.77
8	0.77



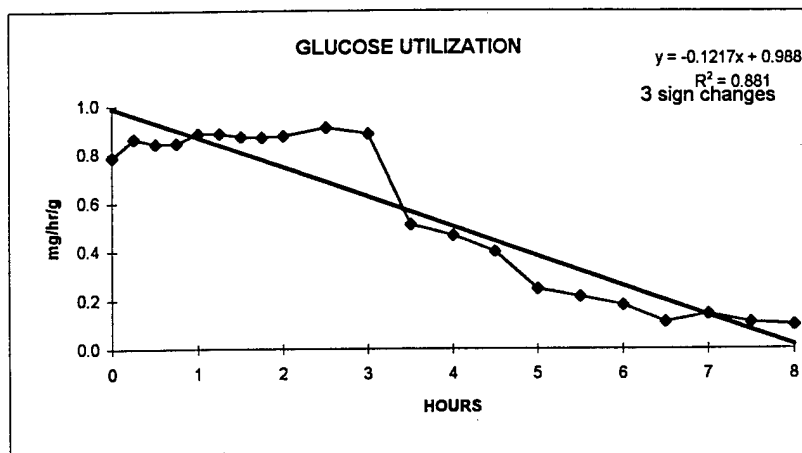
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 0 0

TEMPLATE

2547PLOT.XLS
NO DOSE

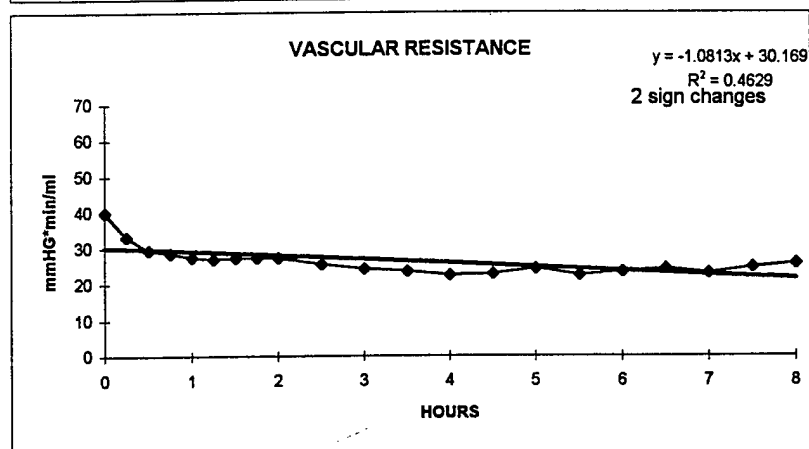
2547 GLUCOSE UTILIZATION

0.00	0.7878
0.25	0.8654
0.50	0.8431
0.75	0.8470
1.00	0.8855
1.25	0.8856
1.50	0.8727
1.75	0.8703
2.00	0.8747
2.50	0.9094
3.00	0.8821
3.50	0.5115
4.00	0.4659
4.50	0.4009
5.00	0.2467
5.50	0.2142
6.00	0.1813
6.50	0.1115
7.00	0.1434
7.50	0.1085
8.00	0.0981



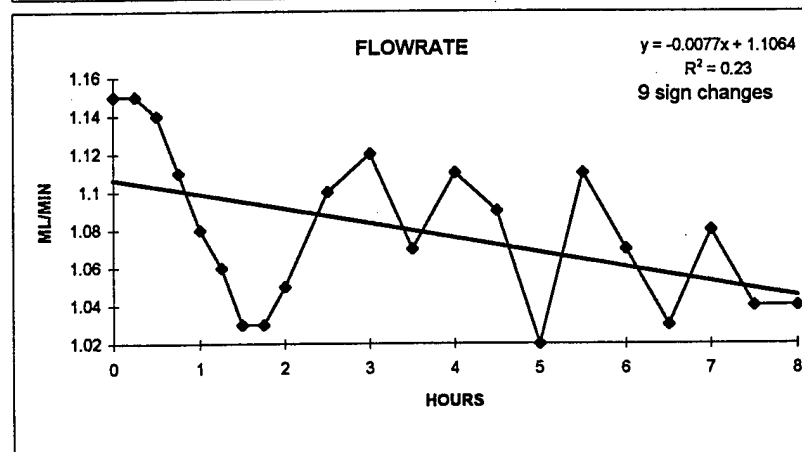
2547 VASCULAR RESISTANCE

0.00	40.00
0.25	33.17
0.50	29.55
0.75	28.67
1.00	27.54
1.25	27.02
1.50	27.33
1.75	27.42
2.00	27.38
2.50	25.64
3.00	24.33
3.50	23.69
4.00	22.56
4.50	22.98
5.00	24.41
5.50	22.60
6.00	23.45
6.50	24.37
7.00	23.06
7.50	24.71
8.00	25.82



2547 FLOWRATE

0	1.15
0.25	1.15
0.5	1.14
0.75	1.11
1	1.08
1.25	1.06
1.5	1.03
1.75	1.03
2	1.05
2.5	1.1
3	1.12
3.5	1.07
4	1.11
4.5	1.09
5	1.02
5.5	1.11
6	1.07
6.5	1.03
7	1.08
7.5	1.04
8	1.04



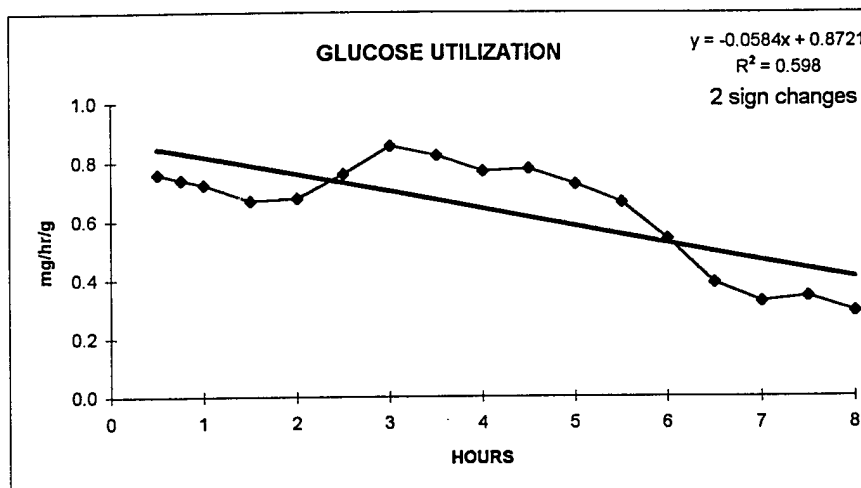
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0.5 0 1

NO TEMPLATE

2548PLOT.XLS
300 UL ETOH

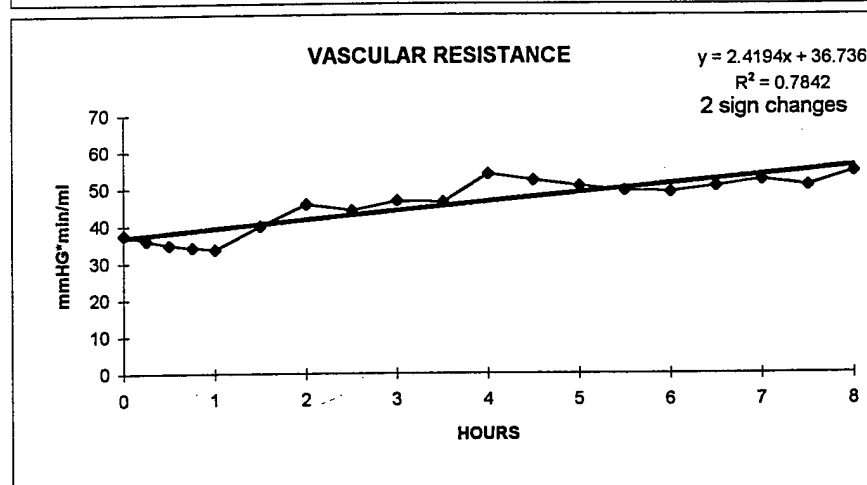
2548 GLUCOSE UTILIZATION

0.5	0.7596
0.8	0.7401
1.0	0.7207
1.5	0.6676
2.0	0.6751
2.5	0.7596
3.0	0.8529
3.5	0.8201
4.0	0.7676
4.5	0.7756
5.0	0.7233
5.5	0.6630
6.0	0.5384
6.5	0.3895
7.0	0.3248
7.5	0.3412
8.0	0.2899



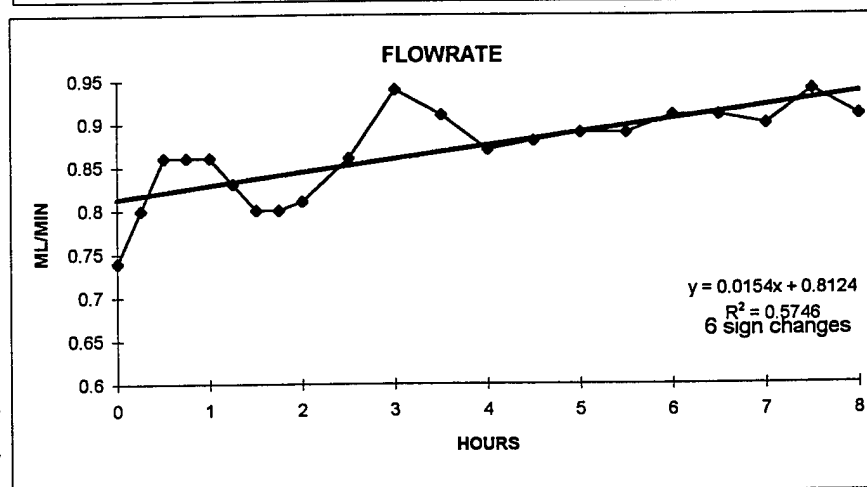
2548 VASCULAR RESISTANCE

0.0	37.71
0.3	36.19
0.5	34.87
0.8	34.29
1.0	33.71
1.5	40.16
2.0	45.91
2.5	44.17
3.0	46.72
3.5	46.38
4.0	54.07
4.5	52.37
5.0	50.71
5.5	49.58
6.0	49.20
6.5	50.80
7.0	52.43
7.5	50.97
8.0	54.67



2548 FLOWRATE

0	0.74
0.25	0.8
0.5	0.86
0.75	0.86
1	0.86
1.25	0.83
1.5	0.8
1.75	0.8
2	0.81
2.5	0.86
3	0.94
3.5	0.91
4	0.87
4.5	0.88
5	0.89
5.5	0.89
6	0.91
6.5	0.91
7	0.9
7.5	0.94
8	0.91



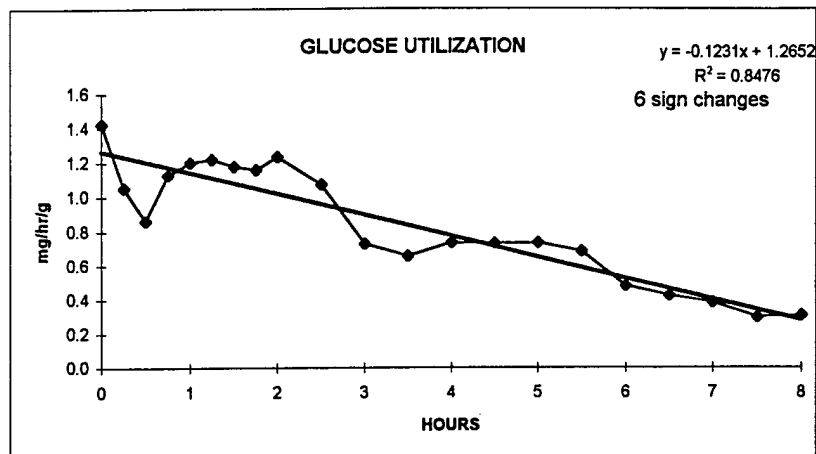
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 1

TEMPLATE

2549PLOT.XLS
NO DOSE

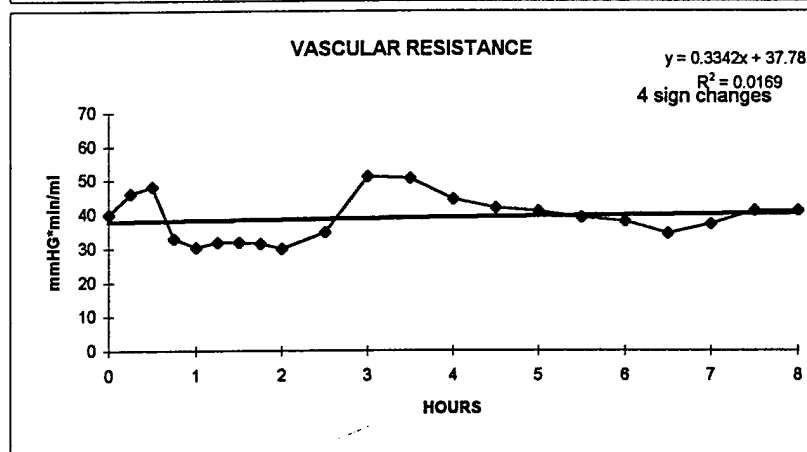
2549 GLUCOSE UTILIZATION

0.00	1.4251
0.25	1.0558
0.50	0.8610
0.75	1.1281
1.00	1.1996
1.25	1.2213
1.50	1.1790
1.75	1.1608
2.00	1.2363
2.50	1.0738
3.00	0.7266
3.50	0.6565
4.00	0.7334
4.50	0.7311
5.00	0.7353
5.50	0.6850
6.00	0.4805
6.50	0.4256
7.00	0.3827
7.50	0.2981
8.00	0.3079



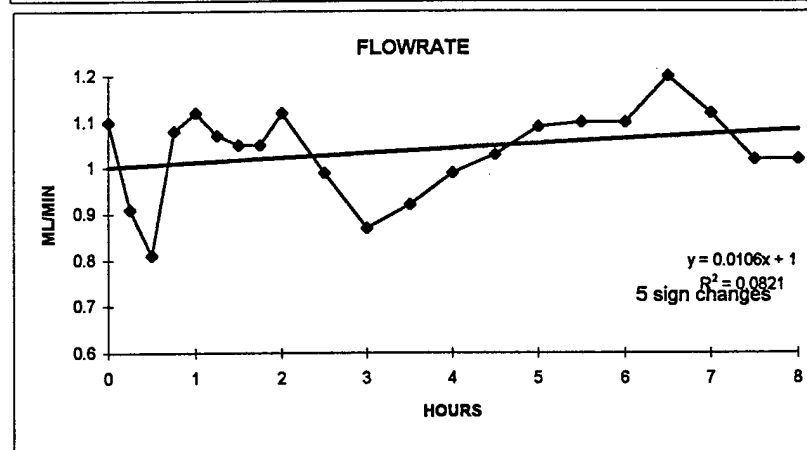
2549 VASCULAR RESISTANCE

0.00	40.00
0.25	46.13
0.50	48.16
0.75	32.90
1.00	30.41
1.25	31.77
1.50	31.75
1.75	31.40
2.00	29.89
2.50	34.81
3.00	51.26
3.50	50.65
4.00	44.44
4.50	41.97
5.00	41.03
5.50	39.02
6.00	37.96
6.50	34.44
7.00	37.14
7.50	41.18
8.00	41.18



2549 FLOWRATE

0	1.1
0.25	0.91
0.5	0.81
0.75	1.08
1	1.12
1.25	1.07
1.5	1.05
1.75	1.05
2	1.12
2.5	0.99
3	0.87
3.5	0.92
4	0.99
4.5	1.03
5	1.09
5.5	1.1
6	1.1
6.5	1.2
7	1.12
7.5	1.02
8	1.02



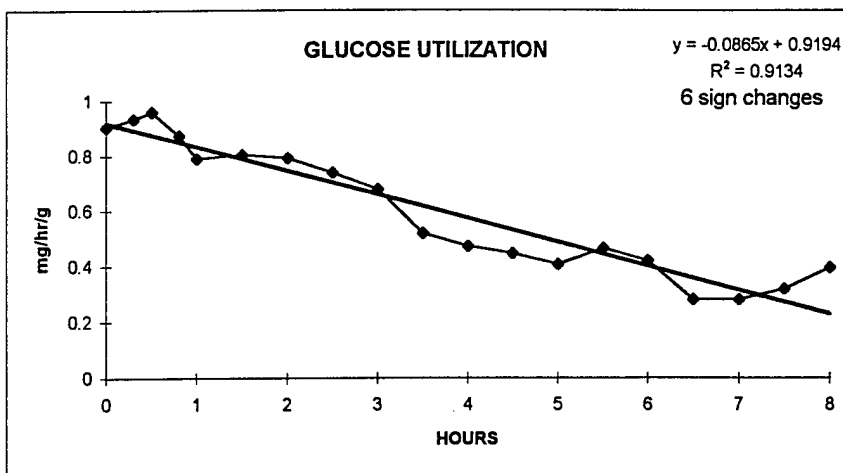
MICRO	DARK	RBCs in	DERMAL
vesicles	BASAL	VESSELS	INFLAM
1	1	0	0

NO TEMPLATE

2550PLOT.XLS
300 UL ETOH

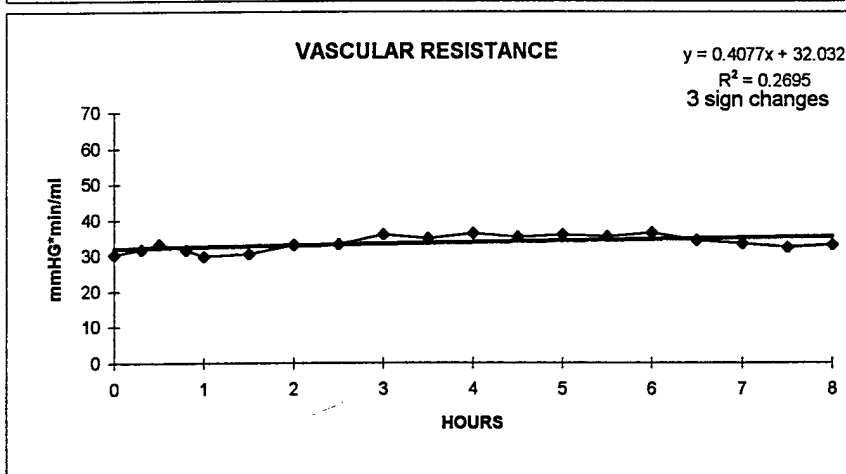
2550 GLUCOSE UTILIZATION

0	0.9048
0.3	0.9357
0.5	0.961
0.8	0.8754
1	0.7906
1.5	0.8049
2	0.7929
2.5	0.74
3	0.6797
3.5	0.5182
4	0.4712
4.5	0.4476
5	0.4069
5.5	0.465
6	0.4215
6.5	0.282
7	0.282
7.5	0.3177
8	0.3964



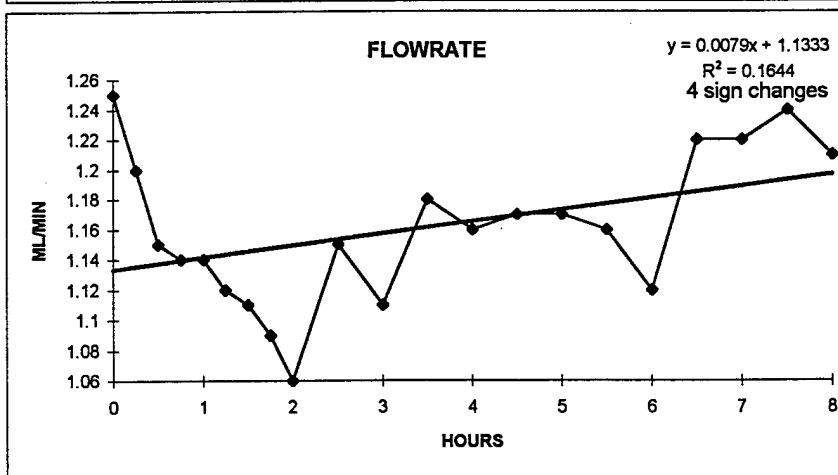
2550 VASCULAR RESISTANCE

0	30.49
0.3	31.76
0.5	33.15
0.8	31.56
1	29.95
1.5	30.55
2	33.1
2.5	33.15
3	35.94
3.5	34.76
4	36.29
4.5	35.09
5	35.94
5.5	35.42
6	36.48
6.5	34.31
7	33.49
7.5	32.38
8	32.97



2550 FLOWRATE

0	1.25
0.25	1.2
0.5	1.15
0.75	1.14
1	1.14
1.25	1.12
1.5	1.11
1.75	1.09
2	1.06
2.5	1.15
3	1.11
3.5	1.18
4	1.16
4.5	1.17
5	1.17
5.5	1.16
6	1.12
6.5	1.22
7	1.22
7.5	1.24
8	1.21



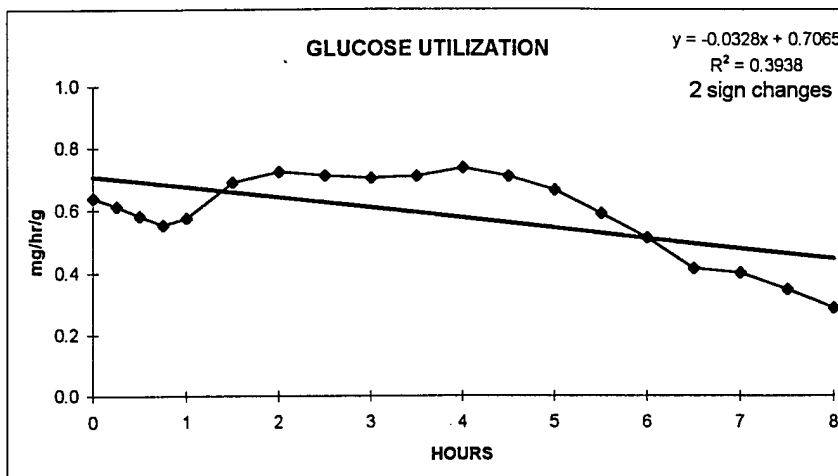
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

TEMPLATE

2553PLOT.XLS
NO DOSE

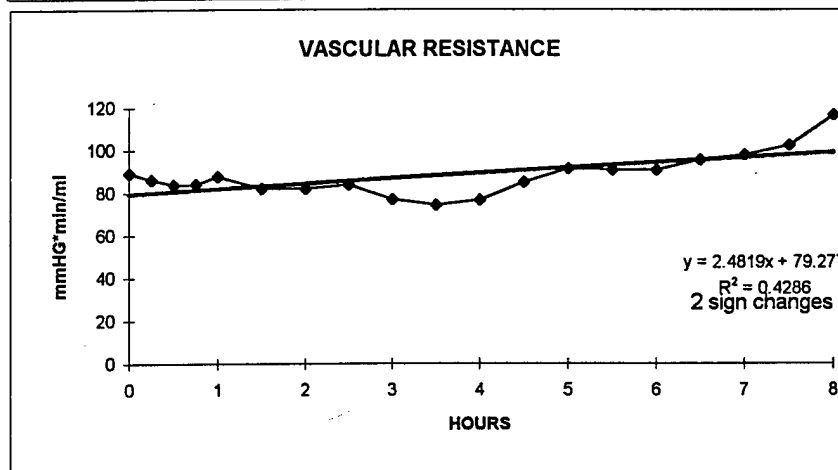
2553 GLUCOSE UTILIZATION

0.00	0.6398
0.25	0.6128
0.50	0.5812
0.75	0.5524
1.00	0.5754
1.50	0.6908
2.00	0.7232
2.50	0.7119
3.00	0.7022
3.50	0.7089
4.00	0.7364
4.50	0.7082
5.00	0.6653
5.50	0.5904
6.00	0.5130
6.50	0.4148
7.00	0.4011
7.50	0.3472
8.00	0.2866



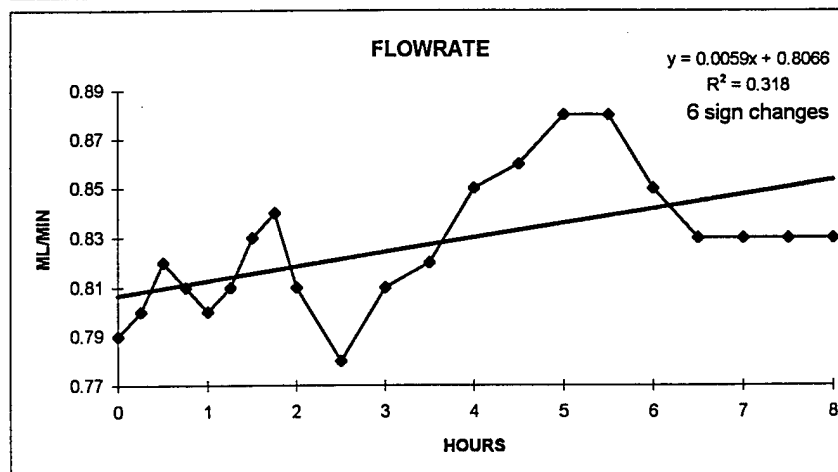
2553 VASCULAR RESISTANCE

0.00	89.16
0.25	86.29
0.50	83.94
0.75	84.16
1.00	87.70
1.50	81.99
2.00	82.05
2.50	83.73
3.00	77.08
3.50	74.21
4.00	76.63
4.50	85.17
5.00	91.40
5.50	90.75
6.00	90.65
6.50	95.42
7.00	98.04
7.50	102.46
8.00	116.66



2553 FLOWRATE

0	0.79
0.25	0.8
0.5	0.82
0.75	0.81
1	0.8
1.25	0.81
1.5	0.83
1.75	0.84
2	0.81
2.5	0.78
3	0.81
3.5	0.82
4	0.85
4.5	0.86
5	0.88
5.5	0.88
6	0.85
6.5	0.83
7	0.83
7.5	0.83
8	0.83



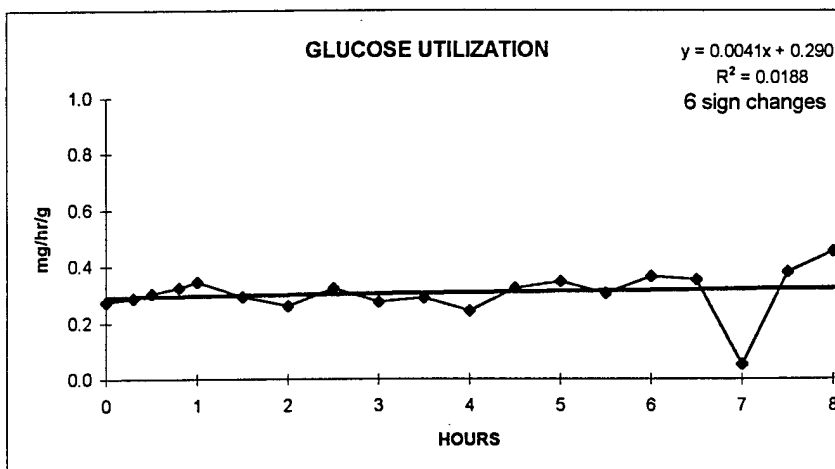
MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
0 0 0 0

TEMPLATE

2554PLOT.XLS
300 UL ETOH

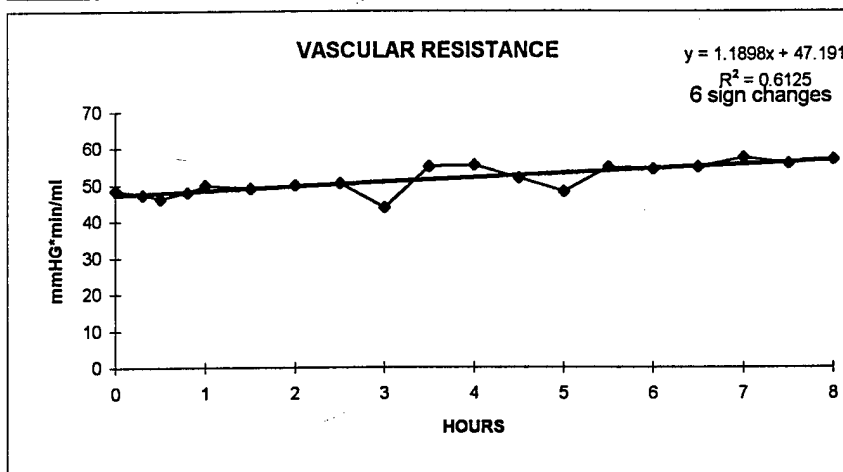
2554 GLUCOSE UTILIZATION

0	0.2742
0.3	0.2893
0.5	0.3045
0.8	0.3259
1	0.3463
1.5	0.293
2	0.2611
2.5	0.3227
3	0.2742
3.5	0.2872
4	0.2421
4.5	0.3217
5	0.3447
5.5	0.3045
6	0.3632
6.5	0.353
7	0.0527
7.5	0.3802
8	0.4528



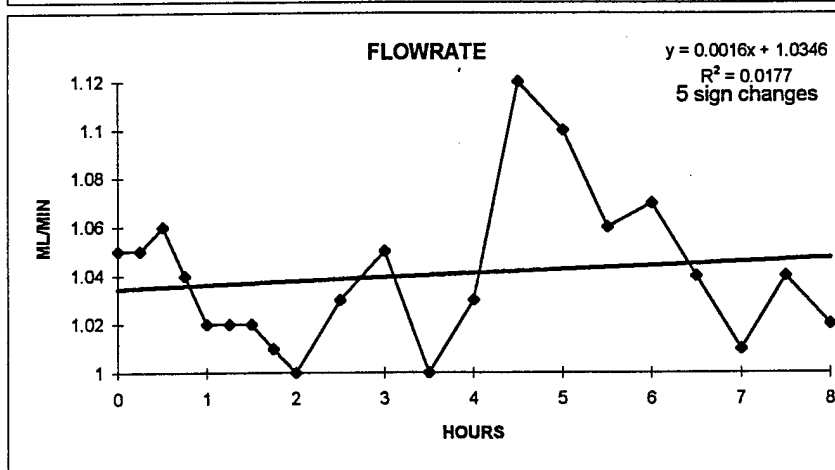
2554 VASCULAR RESISTANCE

0	48.63
0.3	47.45
0.5	46.28
0.8	48.13
1	50.06
1.5	49.08
2	50.06
2.5	50.55
3	43.86
3.5	55.07
4	55.41
4.5	51.85
5	48.24
5.5	54.78
6	54.27
6.5	54.87
7	57.49
7.5	55.84
8	56.93



2554 FLOWRATE

0	1.05
0.25	1.05
0.5	1.06
0.75	1.04
1	1.02
1.25	1.02
1.5	1.02
1.75	1.01
2	1
2.5	1.03
3	1.05
3.5	1
4	1.03
4.5	1.12
5	1.1
5.5	1.06
6	1.07
6.5	1.04
7	1.01
7.5	1.04
8	1.02



MICRO DARK RBCs in DERMAL
vesicles BASAL VESSELS INFLAM
1 1 1 0

TEMPLATE

APPENDIX E

Listings of Raw Data and Computed Variables

Preface to Data Tables: Explanation of Variable Names

In these tables, the listings of raw data and variables computed by SAS are related to variables explained in the text as follows:

Variable in Listings	Definition	Symbol Explained in the Text
FLAPNO	flap number consistent with NCSU-CPTC accounting	
DATE	date of flap harvest and perfusion	
ANIMAL/SIDE	the year, a number assigned to the swine by the supplier, and a letter representing the side of the swine from which the flap was harvested	
PHASE	Phase of the task (1 = technology transfer; 2 = validation)	
FLAPWT	weight (g) of the flap after flushing and before perfusion	W_{fi}
DOSETIME	time of dose application	$t = 0$
GROUP	flap treatment group	
MEDVOL	volume (mL) of media measured in the waste receptacle at the end of the experiment	V_w
NCSU	an acceptance variable for the flap; "1" denotes acceptance by NCSU-CPTC and "0" denotes non-acceptance	
TARGETIME	the time targeted for taking an observation of physiologic parameters	
ACTLTIME	the actual time an observation of physiologic parameters was taken	
RELTIME	time (hr) after dosing	t
AIRTEMP	perfusion chamber air temperature (C)	
HUMIDITY	perfusion chamber air humidity (relative percent)	
ARTMEDPH	pH of the arterial media	
BPMEAN	mean blood pressure integrated over 2 sec	

Preface to Data Tables: Explanation of Variable Names
(Continued)

Variable in Listings	Definition	Symbol Explained in the Text
MEDTEMP	temperature (C) of the media immediately before entering the flap	
MEANFLOW	average of the lower and upper limits of media flow observed during an observation (mL/min)	
LACTATEA	lactate concentration (g/L) in media sampled from the arterial side	L_a
DEXTROSA	glucose concentration (g/L) in media sampled from the arterial side	G_a
LACTATEV	lactate concentration (g/L) in media sampled from the venous, or used, side	L_u
DEXTROSV	glucose concentration (g/L) in media sampled from the venous, or used, side	G_u
LACTDEXT	ratio of lactate produce per unit glucose utilized (no units)	M_{An}
VRESIST	unadjusted vascular resistance (mmHg•min/mL)	
ADJFLOW	MEANFLOW multiplied by the ratio of the actual to the assumed volumes of media delivered during the experiment (mL/min)	F
ADJRESIS	VRESIST multiplied by the ratio of the actual to the assumed volumes of media delivered during the experiment (mL/min)	VR
GLUCUTIL	glucose utilization (mg glucose/hr/g flap tissue)	GU
CUMGLUC	cumulative glucose utilization (mg glucose/g flap tissue)	CGU

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2505 DATE=02/08/95 ANIMAL/SIDE=95-263-4-R PHASE=1 FLAPWT=29.5 DOSETIME=11:16 GROUP=EtoH MEDVOL=525 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:16	10:16	-1.00	37.3	44.3	7.4	104	35.1	1.50	-	-	-	-	-	69.3	1.52	68.5	-	0.01
10:31	10:31	-0.75	37.3	44.3	7.4	104	35.1	0.76	1.160	0.324	0.798	-	-	137.6	0.76	136.0	-	0.01
10:46	10:46	-0.50	37.5	44.5	7.4	104	35.1	0.76	1.180	0.301	0.861	-	-	136.8	0.77	135.3	-	0.01
11:01	11:01	-0.25	37.6	43.4	7.4	109	35.1	0.77	1.180	0.290	0.901	-	-	141.4	0.78	139.8	-	0.01
11:31	11:16	0.00	37.5	43.5	7.4	70	35.2	0.76	1.170	0.278	0.915	-	-	92.1	0.77	91.1	-	0.01
12:01	11:46	0.50	37.0	43.6	7.4	65	34.4	0.76	1.190	0.281	0.930	-	-	85.5	0.77	84.5	-	0.01
12:31	12:16	1.00	37.9	48.4	7.5	118	35.7	1.50	0.022	1.190	0.282	0.915	0.95	78.9	1.51	78.0	0.84	0.43
13:01	12:46	1.50	37.4	44.7	7.5	177	35.1	1.56	0.020	1.200	0.256	0.967	1.01	113.5	1.58	112.2	0.74	0.80
13:31	13:16	2.00	37.6	47.0	7.5	213	35.6	1.48	0.022	1.170	0.247	0.987	1.23	143.9	1.50	142.3	0.55	1.07
14:01	13:46	2.50	38.0	47.5	7.4	225	35.9	1.47	0.022	1.160	0.220	1.030	1.52	153.1	1.49	151.3	0.39	1.27
14:31	14:16	3.00	38.1	45.5	7.5	150	35.6	1.50	0.023	1.190	0.277	0.970	1.15	100.3	1.51	99.2	0.67	1.60
15:01	14:46	3.50	37.9	44.4	7.5	165	35.7	1.47	0.022	1.190	0.278	0.954	1.08	112.2	1.49	111.0	0.71	1.95
15:31	15:16	4.00	37.9	45.0	7.5	198	35.5	1.51	0.021	1.170	0.325	0.883	1.06	131.6	1.52	130.1	0.88	2.39
16:01	15:46	4.50	37.8	44.1	7.4	208	35.3	1.48	0.036	1.070	0.291	0.917	1.67	141.0	1.49	139.4	0.46	2.62
16:31	16:16	5.00	37.9	44.7	7.5	222	35.2	1.49	0.022	1.150	0.319	0.907	1.22	149.0	1.51	147.3	0.74	2.99
17:01	16:46	5.50	37.9	44.5	7.4	220	35.6	1.48	0.022	1.160	0.307	0.933	1.26	149.2	1.49	147.4	0.68	3.33
17:31	17:16	6.00	37.7	46.5	7.3	230	35.1	1.49	0.023	1.200	0.295	0.955	1.11	154.9	1.50	153.1	0.74	3.70

----- FLAPNO=2506 DATE=02/08/95 ANIMAL/SIDE=95-263-4-L PHASE=1 FLAPWT=32.4 DOSETIME=10:34 GROUP=EtoH MEDVOL=340 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:43	9:43	-0.85	36.6	32.8	20.0	36	1.5	-	-	-	-	-	-	-	-	-	-	0.01
9:58	10:02	-0.53	37.2	34.7	7.8	11	36.6	0.76	1.160	0.490	0.765	-	-	14.5	0.50	22.1	-	0.01
10:13	10:15	-0.32	37.2	31.3	7.5	13	36.7	0.76	1.140	0.661	0.662	-	-	17.1	0.50	26.1	-	0.01
10:28	10:34	0.00	38.6	27.9	7.6	19	37.6	1.65	0.022	1.180	0.749	0.610	1.28	11.5	1.08	17.6	1.74	0.56
10:58	11:03	0.48	37.1	29.9	7.6	11	36.6	1.48	0.021	1.160	0.832	0.581	1.40	7.5	0.97	11.4	1.58	1.33
11:28	11:33	0.98	37.2	30.6	7.5	9	36.7	1.45	0.021	1.150	0.889	0.588	1.54	6.2	0.95	9.5	1.51	2.08
11:58	12:03	1.48	37.1	32.4	7.6	10	36.8	1.45	0.020	1.200	1.020	0.539	1.51	6.9	0.95	10.6	1.77	2.96
12:28	12:33	1.98	37.3	31.4	7.4	12	36.8	1.45	0.020	1.100	1.220	0.422	1.77	8.3	0.95	12.6	1.82	3.88
12:58	13:10	2.60	37.3	30.5	7.4	45	34.8	1.62	0.020	1.120	0.734	0.732	1.84	27.9	1.06	42.5	1.16	4.59
13:28	13:33	2.98	37.3	31.8	7.5	46	34.8	1.64	0.020	1.110	0.385	0.935	2.09	28.0	1.07	42.8	0.53	4.79
13:58	14:03	3.48	37.0	33.8	7.6	54	34.7	1.77	0.019	1.080	0.273	1.000	3.17	30.5	1.16	46.6	0.26	4.93
14:28	14:33	3.98	37.5	33.6	7.0	63	35.3	1.39	0.021	1.120	0.223	1.040	2.52	45.3	0.91	69.2	0.21	5.03
14:58	15:03	4.48	37.3	34.2	7.6	70	34.9	1.49	0.019	1.030	0.196	1.060	-	47.0	0.98	71.7	0.00	5.03
15:28	15:33	4.98	37.3	33.2	8.0	79	35.1	1.49	0.020	1.080	0.179	1.080	-	53.2	0.97	81.2	0.00	5.03
15:58	16:03	5.48	37.2	34.7	7.2	86	34.9	1.52	0.020	1.100	0.180	1.080	8.00	56.8	0.99	86.7	0.06	5.06
16:28	16:33	5.98	37.2	36.5	7.9	90	33.7	1.54	0.020	1.170	0.177	1.100	2.24	58.6	1.01	89.5	0.20	5.16
16:58	17:03	6.48	37.4	34.6	8.1	99	35.1	1.58	0.020	1.100	0.166	1.110	-	62.7	1.04	95.6	0.00	5.16
17:28	17:33	6.98	36.0	35.4	7.6	107	35.1	1.60	0.020	1.080	0.170	1.120	-	67.1	1.04	102.4	0.00	5.16

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2507 DATE=02/09/95 ANIMAL/SIDE=95-258-1-R PHASE=1 FLAPWT=16.7 DOSETIME=10:50 GROUP=No Topical MEDVOL=335 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:05	10:05	-0.75	36.8	35.0	7.9	40	36.1	1.04	0.023	1.160	0.123	1.080	1.25	38.6	0.67	59.9	0.30	0.01
10:20	10:20	-0.50	36.7	32.2	6.4	36	35.9	1.07	0.019	1.020	0.145	1.090	-	33.6	0.69	52.1	0.00	0.01
10:35	10:35	-0.25	36.8	34.3	7.1	34	36.3	0.97	0.020	1.050	0.163	1.110	-	35.2	0.62	54.6	0.00	0.01
10:50	10:50	0.00	36.7	34.6	7.3	34	36.1	0.96	0.021	1.110	0.163	1.140	-	35.4	0.62	54.9	0.00	0.01
11:20	11:20	0.50	36.8	34.1	7.5	34	36.2	0.96	0.023	1.220	0.154	1.120	1.31	35.6	0.62	55.2	0.34	0.18
11:50	11:50	1.00	36.8	34.7	7.6	36	36.0	1.08	0.020	1.070	0.159	1.120	-	33.3	0.70	51.6	0.00	0.18
12:20	12:20	1.50	36.8	34.0	6.2	38	36.1	1.07	0.021	1.070	0.156	1.120	-	35.5	0.69	55.0	0.00	0.18
12:50	12:50	2.00	36.8	35.0	7.5	44	36.1	1.02	0.024	1.220	0.155	1.130	1.46	43.1	0.66	66.8	0.33	0.35
13:20	13:21	2.52	36.4	34.4	7.6	48	36.1	0.97	0.023	1.220	0.163	1.130	1.56	49.5	0.63	76.7	0.31	0.51
13:50	13:50	3.00	36.7	34.6	4.4	56	36.2	1.08	0.019	0.991	0.145	1.170	-	51.9	0.70	80.3	0.00	0.51
14:20	14:21	3.52	36.2	33.6	7.4	64	36.1	1.06	0.020	1.080	0.132	1.190	-	60.4	0.68	93.5	0.00	0.51
14:50	14:51	4.02	36.2	32.6	8.0	75	36.2	1.04	0.021	1.170	0.129	1.190	-	72.1	0.67	111.7	0.00	0.51
15:20	15:20	4.50	36.2	35.5	8.1	83	36.2	0.93	0.022	1.200	0.120	1.200	-	89.7	0.60	139.0	0.00	0.51
15:50	15:50	5.00	36.3	33.0	7.7	84	36.2	0.89	0.019	1.080	0.090	0.800	0.25	94.9	0.57	147.0	0.89	0.95
16:20	16:20	5.50	36.2	37.1	7.9	90	36.1	0.89	0.020	1.150	0.149	1.180	-	101.7	0.57	157.6	0.00	0.95
16:50	16:53	6.05	36.2	33.7	7.9	94	36.2	0.90	0.019	1.090	0.146	1.170	-	104.4	0.58	161.8	0.00	0.95
17:20	17:20	6.50	36.3	33.7	7.3	92	36.2	0.91	0.022	1.180	0.155	1.180	-	101.7	0.58	157.5	0.00	0.95
17:50	17:50	7.00	36.4	35.8	7.8	103	36.1	1.06	0.019	1.090	0.168	1.180	-	97.2	0.68	150.5	0.00	0.95
18:20	18:20	7.50	36.6	33.1	7.2	100	36.7	1.01	0.020	1.190	0.178	1.140	3.16	99.0	0.65	153.4	0.18	1.04
18:50	18:50	8.00	36.9	36.9	7.9	103	36.9	1.14	0.020	1.100	0.187	1.140	-	90.7	0.73	140.6	0.00	1.04

----- FLAPNO=2508 DATE=02/09/95 ANIMAL/SIDE=95-258-1-L PHASE=1 FLAPWT=15.9 DOSETIME=10:32 GROUP=No Topical MEDVOL=265 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0.78	38.3	43.1	7.6	69	35.8	0.99	0.023	1.200	0.076	1.020	0.29	70.1	0.50	137.2	0.67	0.01
10:00	10:02	-0.50	38.4	47.5	7.4	62	37.7	0.98	0.022	1.130	0.118	1.080	1.92	63.3	0.50	123.9	0.18	0.06
10:15	10:18	-0.23	37.5	45.1	7.5	81	36.6	0.95	0.024	1.180	0.192	1.040	1.20	85.3	0.49	167.0	0.50	0.20
10:30	10:32	0.00	38.1	44.8	7.5	84	38.0	0.92	0.023	1.180	0.252	0.998	1.26	91.8	0.47	179.8	0.63	0.34
11:00	11:00	0.47	38.1	45.0	7.5	91	37.7	0.97	0.024	1.190	0.259	1.010	1.31	93.8	0.50	183.7	0.66	0.65
11:30	11:30	0.97	38.7	44.9	7.5	67	37.9	0.71	0.023	1.180	0.257	1.030	1.56	94.4	0.36	184.8	0.40	0.85
12:00	12:00	1.47	38.1	46.1	7.4	79	37.7	0.97	0.023	1.200	0.254	1.030	1.36	81.4	0.50	159.5	0.62	1.16
12:30	12:30	1.97	38.1	44.1	7.5	100	37.4	0.94	0.023	1.230	0.247	1.040	1.18	107.0	0.48	209.5	0.67	1.50
13:00	13:00	2.47	38.1	45.7	7.6	99	37.6	0.89	0.024	1.220	0.244	1.040	1.22	111.9	0.45	219.1	0.60	1.80
13:30	13:31	2.98	38.4	45.7	7.5	100	37.7	0.94	0.023	1.210	0.257	1.020	1.23	106.4	0.48	208.4	0.67	2.15
14:00	14:00	3.47	38.1	44.0	7.7	88	37.7	0.88	0.023	1.220	0.267	1.030	1.28	100.0	0.45	195.8	0.63	2.45
14:30	14:30	3.97	38.1	45.7	7.5	103	37.6	0.93	0.023	1.210	0.252	1.020	1.21	111.4	0.47	218.1	0.66	2.78
15:00	15:00	4.47	38.0	45.0	7.6	111	37.6	0.98	0.024	1.240	0.254	1.050	1.21	113.8	0.50	223.0	0.70	3.13
15:30	15:30	4.97	38.2	44.2	7.4	114	38.0	0.94	0.023	1.210	0.255	1.050	1.45	121.3	0.48	237.5	0.57	3.42
16:00	16:00	5.47	38.1	44.2	7.5	93	37.9	0.97	0.023	1.230	0.268	1.040	1.29	96.4	0.49	188.7	0.69	3.76
16:30	16:30	5.97	38.2	46.5	7.6	111	38.0	0.91	0.023	1.240	0.267	1.040	1.22	122.0	0.46	238.9	0.69	4.11
17:00	17:00	6.47	38.2	45.5	7.5	79	38.0	1.02	0.022	1.220	0.267	1.040	1.36	77.8	0.52	152.4	0.69	4.45

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2508 DATE=02/09/95 ANIMAL/SIDE=95-258-1-L PHASE=1 FLAPWT=15.9 DOSETIME=10:32 GROUP=No Topical MEDVOL=265 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:30	17:31	6.98	38.4	44.5	7.5	77	37.9	0.94	0.023	1.240	0.227	1.090	1.36	82.4	0.48	161.3	0.53	4.72
18:00	18:00	7.47	38.2	46.0	7.6	66	38.0	0.99	0.023	1.240	0.207	1.110	1.42	67.0	0.50	131.2	0.48	4.96
18:30	18:30	7.97	38.2	45.0	7.3	76	37.8	0.94	0.023	1.230	0.208	1.110	1.54	80.9	0.48	158.3	0.43	5.17

----- FLAPNO=2509 DATE=02/15/95 ANIMAL/SIDE=95-21-2-R PHASE=1 FLAPWT=26.8 DOSETIME=11:30 GROUP=No Topical MEDVOL=360 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:45	10:00	-1.50	36.0	35.3	7.4	152	36.8	0.99	0.021	1.220	0.095	1.060	0.46	154.3	0.68	222.5	0.35	0.01
11:00	11:08	-0.37	36.1	35.0	7.4	168	36.2	0.75	0.023	1.300	0.204	0.922	0.48	225.5	0.52	325.1	0.63	0.72
11:15	11:15	-0.25	35.8	41.2	7.4	162	35.6	0.97	0.023	1.320	0.256	0.953	0.63	167.0	0.67	240.8	0.80	0.82
11:30	11:30	0.00	36.1	38.4	7.5	129	34.4	0.93	0.024	1.340	0.231	1.050	0.71	139.5	0.64	201.1	0.60	0.97
12:00	12:06	0.60	34.8	40.1	7.5	140	35.0	0.91	0.024	1.340	0.269	1.090	0.98	154.7	0.63	223.0	0.51	1.27
12:30	12:30	1.00	35.2	36.7	7.3	130	34.3	0.95	0.021	1.230	0.259	1.100	1.83	136.8	0.66	197.3	0.28	1.38
13:00	13:00	1.50	35.9	35.5	7.5	151	36.0	1.03	0.025	1.290	0.242	1.130	1.36	147.3	0.71	212.4	0.37	1.57
13:30	13:30	2.00	36.3	35.0	7.5	166	36.4	0.92	0.023	1.300	0.320	1.080	1.35	180.4	0.64	260.1	0.45	1.79
14:00	14:00	2.50	36.3	42.0	7.4	166	36.2	0.95	0.023	1.230	0.339	1.080	2.11	174.7	0.66	251.9	0.32	1.95
14:30	14:35	3.08	36.2	33.7	7.4	165	36.1	1.04	0.023	1.270	0.301	1.090	1.54	158.7	0.72	228.7	0.42	2.20
15:00	15:00	3.50	36.2	33.5	7.4	177	36.1	1.06	0.024	1.330	0.285	1.120	1.24	167.8	0.73	241.9	0.50	2.40
15:30	15:30	4.00	36.2	33.4	7.3	176	36.2	1.03	0.025	1.320	0.351	1.050	1.21	171.7	0.71	247.5	0.62	2.71
16:00	16:00	4.50	36.8	33.3	7.4	164	36.6	0.79	0.024	1.350	0.362	1.050	1.13	207.6	0.55	299.3	0.53	2.98
16:30	16:30	5.00	36.5	34.3	7.6	170	36.5	0.93	0.024	1.350	0.415	1.010	1.15	182.8	0.65	263.5	0.71	3.33
17:00	17:00	5.50	36.5	33.2	7.0	178	36.5	0.94	0.024	1.340	0.346	1.060	1.15	190.4	0.65	274.5	0.59	3.63
17:30	17:30	6.00	36.4	32.8	7.0	174	36.5	0.87	0.024	1.350	0.296	1.110	1.13	201.2	0.60	290.0	0.46	3.86
18:00	18:00	6.50	36.4	33.4	7.3	173	36.4	0.90	0.023	1.370	0.264	1.140	1.05	192.2	0.62	277.1	0.46	4.09
18:30	18:30	7.00	36.4	34.0	7.4	170	36.9	0.88	0.023	1.360	0.280	1.140	1.17	194.3	0.61	280.1	0.43	4.30

----- FLAPNO=2510 DATE=02/15/95 ANIMAL/SIDE=95-21-2-L PHASE=1 FLAPWT=27.7 DOSETIME=10:50 GROUP=No Topical MEDVOL=304 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:05	10:06	-0.73	37.7	37.1	7.7	69	37.2	1.00	0.024	1.250	0.297	0.829	0.65	69.3	0.58	118.4	0.91	0.01
10:20	10:22	-0.47	37.8	35.5	7.7	66	37.2	0.99	0.023	1.260	0.344	0.852	0.79	66.7	0.58	113.8	0.87	0.24
10:35	10:40	-0.17	37.9	35.4	7.4	59	37.3	0.93	0.023	1.250	0.403	0.852	0.95	63.8	0.54	108.9	0.80	0.48
10:50	10:50	0.00	37.9	35.5	7.4	61	37.3	1.08	0.023	1.260	0.427	0.848	0.98	56.5	0.63	96.4	0.96	0.64
11:20	11:20	0.50	37.9	35.7	7.5	55	37.2	1.13	0.023	1.330	0.417	0.894	0.90	48.7	0.66	83.1	1.07	1.18
11:50	11:50	1.00	38.0	35.2	7.6	54	37.3	0.96	0.023	1.300	0.432	0.904	1.03	56.5	0.56	96.5	0.82	1.59
12:20	12:20	1.50	38.0	34.8	7.4	62	37.1	1.05	0.022	1.270	0.427	0.925	1.17	59.3	0.61	101.3	0.78	1.98
12:50	12:50	2.00	38.0	35.5	7.3	73	37.3	1.07	0.023	1.320	0.370	0.974	1.00	68.5	0.62	117.0	0.80	2.38

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2510 DATE=02/15/95 ANIMAL/SIDE=95-21-2-L PHASE=1 FLAPWT=27.7 DOSETIME=10:50 GROUP=No Topical MEDVOL=304 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
13:20	13:20	2.50	38.0	36.1	7.5	83	37.3	1.02	0.022	1.290	0.307	1.060	1.24	81.8	0.59	139.6	0.51	2.63
13:50	13:50	3.00	38.0	35.5	7.4	88	37.3	0.97	0.023	1.270	0.220	1.140	1.52	91.2	0.57	155.7	0.27	2.76
14:20	14:20	3.50	38.0	35.0	7.5	93	37.3	0.99	0.023	1.310	0.184	1.190	1.34	93.9	0.58	160.4	0.26	2.89
14:50	14:52	4.03	38.0	36.5	7.5	95	37.3	1.01	0.024	1.310	0.165	1.200	1.28	94.1	0.59	160.6	0.24	3.02
15:20	15:20	4.50	38.0	37.3	7.4	99	37.3	1.04	0.023	1.270	0.158	1.220	2.70	95.7	0.61	163.3	0.11	3.07
15:50	15:52	5.03	38.0	37.3	7.5	89	37.3	1.01	0.022	1.290	0.145	1.230	2.05	88.6	0.59	151.2	0.13	3.14
16:20	16:20	5.50	37.9	38.0	7.3	87	36.7	0.97	0.023	1.310	0.149	1.230	1.57	90.2	0.57	153.9	0.17	3.22
16:50	16:50	6.00	38.1	37.4	7.5	90	37.4	0.94	0.022	1.330	0.159	1.220	1.25	96.3	0.55	164.3	0.22	3.33
17:20	17:20	6.50	38.1	36.4	7.3	99	37.1	0.94	0.022	1.290	0.145	1.240	2.46	105.3	0.55	179.8	0.10	3.38
17:50	17:50	7.00	37.5	37.7	7.1	94	36.2	0.99	0.024	1.260	0.118	1.270	-	94.9	0.58	162.1	0.00	3.38

----- FLAPNO=2511 DATE=02/16/95 ANIMAL/SIDE=95-22-1-R PHASE=1 FLAPWT=26.1 DOSETIME=11:02 GROUP=No Topical MEDVOL=334 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:16	-0.77	34.0	24.5	-	52	33.7	0.89	0.018	1.040	0.200	0.702	0.54	58.8	0.57	91.3	0.69	0.01
10:30	10:30	-0.53	36.4	31.0	-	48	36.8	0.95	0.017	0.937	0.238	0.723	1.03	50.8	0.61	78.9	0.46	0.12
10:45	10:45	-0.28	36.3	36.4	-	47	35.7	0.98	0.018	0.982	0.247	0.737	0.93	48.2	0.63	74.9	0.55	0.26
11:00	11:02	0.00	36.8	37.3	-	49	35.8	0.95	0.019	1.070	0.288	0.721	0.77	51.6	0.61	80.1	0.76	0.47
11:30	11:30	0.47	37.2	40.1	-	48	36.6	1.07	0.018	1.040	0.280	0.764	0.95	44.9	0.69	69.7	0.68	0.79
12:00	12:00	0.97	36.3	40.7	-	46	36.3	1.02	0.019	1.030	0.323	0.729	1.01	45.1	0.66	70.1	0.71	1.14
12:30	12:30	1.47	36.5	40.8	-	44	37.2	0.86	0.018	0.977	0.377	0.663	1.14	51.5	0.55	80.0	0.62	1.45
13:00	13:00	1.97	36.5	27.2	-	47	36.8	0.97	0.019	1.020	0.358	0.700	1.06	48.5	0.62	75.3	0.71	1.81
13:30	13:30	2.47	36.3	30.7	-	52	36.8	0.95	0.019	1.030	0.371	0.694	1.05	54.7	0.61	85.1	0.73	2.17
14:00	14:00	2.97	36.9	36.0	-	55	37.0	0.90	0.018	1.030	0.356	0.715	1.07	61.1	0.58	95.0	0.65	2.50
14:30	14:30	3.47	36.9	36.1	-	59	37.2	0.97	0.027	1.020	0.336	0.734	1.08	61.1	0.62	95.0	0.63	2.82
15:00	15:00	3.97	36.8	34.8	-	56	37.0	0.89	0.020	1.040	0.283	0.797	1.08	63.3	0.57	98.3	0.49	3.06
15:30	15:30	4.47	36.8	36.7	-	55	36.9	0.89	0.017	1.000	0.295	0.826	1.60	62.1	0.57	96.6	0.35	3.24
16:00	16:00	4.97	36.7	35.8	-	56	36.8	0.88	0.019	1.080	0.282	0.841	1.10	64.0	0.56	99.4	0.48	3.48
16:30	16:30	5.47	36.6	36.8	-	56	37.0	0.88	0.022	1.100	0.279	0.882	1.18	64.0	0.56	99.4	0.44	3.70
17:00	17:00	5.97	36.7	36.9	-	57	36.8	0.92	0.020	1.130	0.265	0.918	1.16	62.0	0.59	96.3	0.45	3.92
17:30	17:30	6.47	37.3	36.0	-	57	36.9	0.87	0.020	1.150	0.280	0.928	1.17	65.9	0.56	102.4	0.44	4.15
18:00	18:00	6.97	36.9	36.6	-	58	37.1	0.94	0.020	1.180	0.253	0.938	0.96	61.7	0.60	95.9	0.52	4.41

----- FLAPNO=2512 DATE=02/16/95 ANIMAL/SIDE=95-22-1-L PHASE=1 FLAPWT=24.2 DOSETIME=10:25 GROUP=No Topical MEDVOL=260 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:40	9:40	-0.75	35.0	43.5	7.7	37	34.9	1.05	0.015	0.772	0.289	0.535	1.16	35.4	0.52	70.7	0.61	0.01

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2512 DATE=02/16/95 ANIMAL/SIDE=95-22-1-L PHASE=1 FLAPWT=24.2 DOSETIME=10:25 GROUP=No Topical MEDVOL=260 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:55	9:55	-0.50	35.5	38.9	7.3	34	35.8	0.95	0.014	0.749	0.318	0.505	1.25	36.0	0.47	71.8	0.57	0.15
10:10	10:12	-0.22	35.9	37.7	7.4	34	36.2	1.02	0.014	0.767	0.344	0.466	1.10	33.3	0.51	66.5	0.76	0.37
10:25	10:25	0.00	35.9	36.3	7.4	35	36.2	0.95	0.014	0.782	0.356	0.462	1.07	37.0	0.47	73.9	0.75	0.53
10:55	10:57	0.53	36.0	36.8	7.1	36	36.0	1.10	0.013	0.737	0.376	0.438	1.21	32.9	0.55	65.6	0.81	0.96
11:25	11:25	1.00	36.1	35.9	7.3	33	36.5	1.08	0.014	0.780	0.392	0.410	1.02	30.6	0.54	61.0	0.99	1.43
11:55	11:55	1.50	36.0	36.0	7.4	31	36.4	1.11	0.014	0.813	0.407	0.410	0.98	27.9	0.56	55.7	1.11	1.98
12:25	12:25	2.00	36.1	36.1	7.4	28	36.6	0.84	0.015	0.839	0.426	0.407	0.95	33.3	0.42	66.5	0.90	2.43
12:55	12:55	2.50	36.2	35.8	7.3	30	36.6	0.94	0.013	0.831	0.440	0.412	1.02	32.1	0.47	64.0	0.97	2.92
13:25	13:25	3.00	36.2	36.0	7.5	31	36.6	0.84	0.013	0.877	0.433	0.432	0.94	36.9	0.42	73.7	0.93	3.38
13:55	13:55	3.50	36.2	36.2	7.5	31	36.6	0.79	0.013	0.867	0.448	0.437	1.01	39.5	0.39	78.8	0.84	3.80
14:25	14:25	4.00	36.2	35.9	7.4	37	36.6	0.82	0.025	0.855	0.436	0.453	1.02	45.4	0.41	90.6	0.81	4.20
14:55	14:54	4.48	36.2	35.2	7.5	35	36.6	0.99	0.013	0.931	0.411	0.522	0.97	35.5	0.49	70.9	1.00	4.69
15:25	15:25	5.00	36.2	35.9	7.3	44	36.6	0.93	0.013	0.931	0.404	0.553	1.03	47.6	0.46	95.0	0.87	5.14
15:55	15:57	5.53	36.2	34.8	7.6	49	36.6	0.98	0.017	1.120	0.350	0.616	0.66	50.0	0.49	99.8	1.22	5.79
16:25	16:25	6.00	36.2	36.0	7.6	53	36.6	0.98	0.016	1.110	0.319	0.681	0.71	54.1	0.49	108.0	1.04	6.27
16:55	16:55	6.50	36.2	35.8	7.4	54	36.6	0.95	0.013	1.050	0.321	0.741	1.00	57.1	0.47	114.1	0.72	6.64
17:25	17:25	7.00	36.2	36.7	7.4	59	36.6	0.98	0.013	1.080	0.315	0.773	0.98	60.5	0.49	120.8	0.74	7.01

----- FLAPNO=2513 DATE=02/22/95 ANIMAL/SIDE=95-21-3-R PHASE=1 FLAPWT=39.2 DOSETIME=11:02 GROUP=No Topical MEDVOL=365 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:18	-0.73	36.7	21.7	7.4	93	34.4	0.95	0.022	1.060	0.036	1.300	-	97.9	0.67	139.2	0.00	0.01
10:30	10:33	-0.48	38.2	19.0	7.4	112	36.4	0.97	0.021	1.270	0.094	1.190	0.91	115.5	0.68	164.2	0.12	0.04
10:45	10:48	-0.23	38.4	42.2	7.4	115	37.1	0.97	0.023	1.310	0.137	1.160	0.76	118.6	0.68	168.6	0.22	0.10
11:00	11:02	0.00	38.0	43.1	7.4	112	36.1	1.01	0.022	1.320	0.147	1.170	0.83	110.9	0.71	157.7	0.23	0.15
11:30	11:32	0.50	38.3	27.2	7.4	107	37.1	0.99	0.020	1.320	0.176	1.170	1.04	108.1	0.70	153.7	0.23	0.26
12:00	12:00	0.97	38.3	37.4	7.4	106	37.1	0.90	0.021	1.330	0.184	1.150	0.91	118.4	0.63	168.4	0.25	0.38
12:30	12:30	1.47	38.5	38.3	7.4	105	37.3	0.89	0.019	1.320	0.166	1.190	1.13	118.6	0.62	168.7	0.18	0.47
13:00	13:00	1.97	38.5	39.1	7.4	105	37.3	0.89	0.020	1.330	0.174	1.190	1.10	118.6	0.62	168.7	0.19	0.56
13:30	13:31	2.48	38.5	38.6	7.4	100	37.3	0.92	0.017	1.330	0.169	1.190	1.09	109.3	0.64	155.4	0.20	0.66
14:00	14:00	2.97	38.5	38.3	7.4	98	37.3	0.93	0.015	1.320	0.173	1.200	1.32	105.4	0.65	149.8	0.17	0.74
14:30	14:30	3.47	38.5	38.1	7.4	93	37.3	0.92	0.014	1.330	0.175	1.200	1.24	101.6	0.64	144.5	0.18	0.84
15:00	15:00	3.97	38.4	36.3	7.4	80	37.3	0.90	0.009	1.330	0.162	1.200	1.18	89.4	0.63	127.1	0.18	0.93
15:30	15:30	4.47	38.5	37.5	7.4	76	37.3	0.90	0.009	1.330	0.160	1.210	1.26	84.9	0.63	120.7	0.16	1.01
16:00	16:00	4.97	38.5	38.0	7.4	73	37.4	0.94	0.004	1.340	0.149	1.220	1.21	77.7	0.66	110.4	0.17	1.09
16:30	16:30	5.47	38.5	37.5	7.4	68	37.3	0.90	0.004	1.340	0.150	1.220	1.22	75.6	0.63	107.4	0.17	1.18
17:00	17:01	5.98	38.5	37.7	7.4	61	37.3	0.91	0.001	1.340	0.131	1.260	1.62	67.0	0.64	95.3	0.11	1.23
17:30	17:30	6.47	38.4	35.6	7.4	62	37.2	0.92	0.004	1.340	0.112	1.250	1.20	67.8	0.64	96.3	0.13	1.29
18:00	18:02	7.00	38.5	36.7	7.4	66	37.3	1.00	0.004	1.340	0.014	1.350	-	66.3	0.70	94.3	0.00	1.29

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2514 DATE=02/22/95 ANIMAL/SIDE=95-21-3-L PHASE=1 FLAPWT=20.2 DOSETIME=10:15 GROUP=No Topical MEDVOL=418 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.75	32.4	34.0	7.4	54	36.8	1.01	0.020	1.270	0.031	1.280	-	53.7	0.81	66.7	0.00	0.01
9:45	9:45	-0.50	35.6	27.4	7.4	58	35.4	0.98	0.021	1.290	0.320	1.290	-	59.2	0.79	73.5	0.00	0.01
10:00	10:00	-0.25	35.7	30.0	7.5	58	35.5	1.00	0.022	1.300	0.034	1.300	-	58.0	0.81	72.0	0.00	0.01
10:15	10:15	0.00	35.6	32.0	7.5	57	35.7	0.98	0.021	1.310	0.035	1.290	0.70	58.2	0.79	72.2	0.06	0.02
10:45	10:46	0.52	35.9	32.8	7.5	53	35.8	1.03	0.023	1.330	0.036	1.320	1.30	51.7	0.83	64.2	0.03	0.04
11:15	11:15	1.00	35.8	39.6	7.5	46	36.0	0.99	0.020	1.320	0.037	1.300	0.85	46.5	0.80	57.7	0.06	0.07
11:45	11:47	1.53	35.8	36.5	7.5	47	36.2	1.02	0.018	1.270	0.043	1.310	-	46.1	0.82	57.2	0.00	0.07
12:15	12:15	2.00	35.8	38.0	7.5	47	36.2	0.99	0.020	1.300	0.038	1.310	-	47.7	0.79	59.2	0.00	0.07
12:45	12:46	2.52	35.0	36.7	7.5	38	36.2	0.87	0.017	1.320	0.036	1.320	-	43.9	0.70	54.5	0.00	0.07
13:15	13:15	3.00	35.9	36.6	7.5	42	36.3	0.95	0.017	1.320	0.032	1.330	-	44.4	0.76	55.2	0.00	0.07
13:45	13:45	3.50	35.8	36.0	7.4	46	36.5	0.94	0.015	1.280	0.029	1.320	-	49.2	0.75	61.1	0.00	0.07
14:15	14:15	4.00	35.8	38.0	7.4	52	36.1	1.02	0.014	1.310	0.027	1.330	-	51.2	0.82	63.6	0.00	0.07
14:45	14:45	4.50	35.9	37.3	7.4	55	36.0	1.07	0.014	1.310	0.025	1.340	-	51.6	0.86	64.1	0.00	0.07
15:15	15:15	5.00	35.8	36.2	7.4	55	35.9	1.09	0.010	1.330	0.021	1.360	-	50.5	0.88	62.7	0.00	0.07
15:45	15:45	5.50	35.8	36.0	7.4	56	35.9	1.04	0.008	1.330	0.020	1.330	-	54.1	0.83	67.2	0.00	0.07
16:15	16:15	6.00	35.6	36.1	7.4	56	36.1	0.95	0.005	1.340	0.020	1.340	-	59.3	0.76	73.6	0.00	0.07
16:45	16:47	6.53	35.8	36.6	7.4	45	36.0	1.03	0.005	1.350	0.018	1.350	-	43.9	0.83	54.5	0.00	0.07
17:15	17:16	7.02	35.9	33.8	7.4	48	36.1	1.02	0.006	1.340	0.015	1.340	-	47.3	0.82	58.7	0.00	0.07

----- FLAPNO=2515 DATE=02/23/95 ANIMAL/SIDE=95-22-2-R PHASE=1 FLAPWT=28 DOSETIME=11:03 GROUP=No Topical MEDVOL=386 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.05	36.4	39.7	7.5	60	36.3	0.93	0.066	2.290	0.211	0.583	0.08	64.5	0.69	86.7	3.40	0.01
10:15	10:15	-0.80	36.5	39.2	7.5	47	36.1	0.96	0.024	1.290	0.311	0.794	0.58	49.0	0.71	65.8	1.02	0.27
10:30	10:30	-0.55	36.9	39.0	7.4	46	36.3	0.97	0.020	1.270	0.393	0.827	0.84	47.7	0.72	64.1	0.92	0.49
10:45	10:45	-0.30	37.0	37.6	7.4	45	36.3	0.97	0.019	1.290	0.439	0.847	0.95	46.4	0.72	62.4	0.92	0.72
11:15	11:03	0.00	37.5	37.4	7.4	44	36.3	1.02	0.020	1.270	0.463	0.849	1.05	43.3	0.75	58.3	0.92	1.00
11:45	11:30	0.45	37.4	36.7	7.4	41	36.2	0.99	0.020	1.280	0.466	0.898	1.17	41.6	0.73	56.0	0.81	1.36
12:15	12:00	0.95	37.5	36.0	7.4	41	36.2	0.95	0.018	1.240	0.469	0.875	1.24	43.4	0.70	58.3	0.74	1.73
12:45	12:31	1.47	37.6	36.4	7.4	36	36.4	0.89	0.018	1.250	0.467	0.878	1.21	40.7	0.66	54.7	0.71	2.10
13:15	13:00	1.95	37.3	37.0	7.4	39	36.2	0.98	0.017	1.240	0.453	0.899	1.28	39.8	0.73	53.5	0.72	2.44
13:45	13:32	2.48	37.2	37.4	7.4	39	36.2	1.02	0.015	1.230	0.441	0.894	1.27	38.2	0.76	51.4	0.73	2.83
14:15	14:00	2.95	37.2	37.2	7.4	39	36.2	1.05	0.014	1.240	0.429	0.883	1.16	37.3	0.78	50.2	0.80	3.21
14:45	14:30	3.45	37.2	40.0	7.5	35	35.7	1.04	0.013	1.240	0.420	0.893	1.17	33.8	0.77	45.5	0.77	3.59
15:15	15:01	3.97	37.2	39.8	7.4	35	36.7	0.96	0.012	1.230	0.423	0.876	1.16	36.6	0.71	49.3	0.72	3.97
15:45	15:30	4.45	37.2	35.3	7.4	35	36.7	0.96	0.011	1.230	0.418	0.869	1.13	36.5	0.71	49.0	0.74	4.32
16:15	16:00	4.95	37.2	37.2	7.4	35	36.6	1.00	0.011	1.220	0.411	0.882	1.18	35.0	0.74	47.1	0.72	4.69
16:45	16:30	5.45	37.1	38.1	7.4	36	36.6	0.99	0.010	1.230	0.387	0.896	1.13	36.5	0.73	49.1	0.70	5.04
17:15	16:59	5.93	37.2	37.1	7.4	37	36.6	0.98	0.009	1.220	0.372	0.905	1.15	37.8	0.73	50.8	0.66	5.36
17:45	17:31	6.47	37.1	37.4	7.4	37	36.6	1.04	0.007	1.260	0.348	0.926	1.02	35.6	0.77	47.8	0.74	5.76
18:15	18:00	6.95	37.0	36.9	7.4	36	36.7	0.99	0.006	1.240	0.328	0.935	1.06	36.5	0.73	49.1	0.64	6.07

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2516 DATE=02/23/95 ANIMAL/SIDE=95-22-2-L PHASE=1 FLAPWT=21 DOSETIME=10:00 GROUP=No Topical MEDVOL=352 MCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:16	-0.73	37.8	30.0	7.2	60	37.6	0.91	0.022	1.320	0.117	0.859	0.21	66.3	0.61	97.8	1.19	0.01
9:30	9:31	-0.48	37.1	42.0	7.4	29	36.1	0.95	0.246	1.260	0.213	0.943	-0.10	30.7	0.64	45.2	0.86	0.22
9:45	9:45	-0.25	37.8	42.1	7.4	29	35.9	0.95	0.020	1.200	0.248	0.984	1.06	30.5	0.64	45.0	0.59	0.36
10:00	10:00	0.00	37.2	40.0	7.4	30	36.1	0.97	0.019	1.230	0.319	1.050	1.67	31.1	0.65	45.8	0.50	0.48
10:30	10:30	0.50	37.1	42.0	7.3	30	35.5	0.98	0.020	1.330	0.366	1.050	1.24	30.6	0.66	45.1	0.78	0.88
11:00	11:01	1.02	37.1	40.0	7.3	30	35.7	0.97	0.020	1.350	0.387	1.070	1.31	30.9	0.66	45.6	0.78	1.28
11:30	11:30	1.50	37.4	40.4	7.4	27	35.7	0.96	0.018	1.290	0.383	1.040	1.46	28.3	0.65	41.7	0.68	1.61
12:00	12:00	2.00	37.2	40.0	7.4	27	35.4	0.97	0.016	1.310	0.372	1.010	1.19	27.8	0.66	41.0	0.83	2.02
12:30	12:30	2.50	37.2	39.8	7.4	29	35.7	0.99	0.016	1.290	0.373	1.000	1.23	29.4	0.67	43.4	0.82	2.43
13:00	13:00	3.00	37.2	39.5	7.4	29	35.7	1.04	0.014	1.260	0.378	0.976	1.28	27.9	0.71	41.1	0.84	2.85
13:30	13:30	3.50	37.1	40.4	7.4	32	35.7	1.08	0.012	1.250	0.368	0.970	1.27	29.6	0.73	43.7	0.86	3.29
14:00	14:00	4.00	37.1	40.2	7.5	36	35.7	1.10	0.011	1.240	0.356	0.955	1.14	32.9	0.74	48.5	0.89	3.73
14:30	14:30	4.50	37.2	37.8	7.4	38	36.4	1.08	0.010	1.220	0.309	0.968	1.19	35.3	0.73	52.1	0.77	4.12
15:00	15:00	5.00	37.2	39.2	7.5	36	35.8	0.97	0.009	1.260	0.291	1.010	1.13	37.1	0.66	54.7	0.69	4.46
15:30	15:30	5.50	37.2	40.0	7.5	38	35.8	0.98	0.010	1.240	0.238	1.040	1.14	39.0	0.66	57.5	0.56	4.74
16:00	16:00	6.00	37.0	39.4	7.4	41	35.7	0.99	0.009	1.210	0.181	1.090	1.43	41.6	0.67	61.4	0.34	4.91
16:30	16:30	6.50	36.9	39.8	7.4	43	35.7	0.93	0.008	1.230	0.143	1.120	1.23	46.2	0.63	68.2	0.29	5.06
17:00	17:00	7.00	37.0	40.0	7.4	46	35.7	0.99	0.007	1.230	0.114	1.140	1.19	46.5	0.67	68.5	0.25	5.19

----- FLAPNO=2517 DATE=03/01/95 ANIMAL/SIDE=95-24-4-R PHASE=1 FLAPWT=25.85 DOSETIME=10:30 GROUP=No Topical MEDVOL=419 MCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.9	40.0	7.4	60	35.2	1.05	0.021	1.200	0.189	0.754	0.38	57.4	0.84	71.1	1.08	0.01
9:45	9:45	-0.75	36.0	40.1	7.4	58	35.2	0.95	0.022	1.210	0.252	0.830	0.61	61.4	0.76	76.0	0.83	0.22
10:00	10:00	-0.50	36.4	37.3	7.6	35	36.1	0.99	0.021	1.200	0.285	0.884	0.84	35.5	0.80	44.0	0.72	0.40
10:15	10:15	-0.25	37.0	36.9	7.4	37	35.9	0.94	0.021	1.200	0.346	0.876	1.00	39.6	0.75	49.0	0.70	0.57
10:30	10:30	0.00	37.2	39.0	7.5	31	36.0	0.95	0.021	1.200	0.363	0.836	0.94	32.8	0.76	40.6	0.80	0.77
11:00	11:00	0.50	37.4	40.1	7.5	31	35.9	0.99	0.021	1.180	0.390	0.837	1.08	31.3	0.80	38.8	0.79	1.17
11:30	11:30	1.00	37.5	37.8	7.4	28	36.0	0.98	0.020	1.180	0.373	0.854	1.08	28.7	0.79	35.6	0.74	1.54
12:00	12:00	1.50	37.5	36.3	7.4	26	36.1	0.98	0.022	1.180	0.384	0.822	1.01	26.5	0.79	32.9	0.81	1.94
12:30	12:30	2.00	37.5	35.2	7.4	25	36.0	0.99	0.021	1.190	0.380	0.818	0.97	25.3	0.80	31.3	0.85	2.37
13:00	13:00	2.50	37.5	34.5	7.4	26	36.1	0.94	0.021	1.200	0.387	0.822	0.97	27.8	0.75	34.4	0.82	2.78
13:30	13:30	3.00	37.5	35.6	7.5	27	35.7	1.00	0.020	1.180	0.369	0.842	1.03	27.1	0.80	33.6	0.78	3.17
14:00	14:00	3.50	37.5	34.8	7.6	24	36.1	0.92	0.019	1.160	0.381	0.821	1.07	26.1	0.74	32.3	0.72	3.53
14:30	14:30	4.00	37.5	34.2	7.4	25	36.1	0.94	0.019	1.180	0.391	0.819	1.03	26.6	0.76	32.9	0.79	3.93
15:00	15:00	4.50	37.5	36.8	7.5	28	36.1	0.94	0.020	1.190	0.372	0.854	1.05	29.9	0.75	37.1	0.73	4.29
15:30	15:30	5.00	37.5	35.7	7.3	28	36.1	0.93	0.007	1.190	0.380	0.865	1.15	30.1	0.75	37.3	0.70	4.64
16:00	16:00	5.50	37.5	36.4	7.5	39	35.6	1.03	0.018	1.180	0.379	0.858	1.12	38.0	0.83	47.1	0.77	5.03
16:30	16:30	6.00	37.5	35.1	7.6	39	36.2	0.99	0.019	1.250	0.342	0.878	0.87	39.6	0.80	49.0	0.85	5.45
17:00	17:00	6.50	37.5	34.1	7.3	42	36.3	1.03	0.017	1.180	0.347	0.883	1.11	40.8	0.83	50.5	0.71	5.81
17:30	17:30	7.00	37.5	35.1	7.5	45	36.4	0.99	0.016	1.190	0.346	0.847	0.96	45.7	0.80	56.6	0.78	6.20

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2518 DATE=03/01/95 ANIMAL/SIDE=95-24-4-L PHASE=1 FLAPWT=25.8 DOSETIME=10:15 GROUP=No Topical MEDVOL=409 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	35.1	40.3	7.5	40	35.3	1.06	0.020	1.240	0.225	0.906	0.61	37.7	0.84	47.9	0.82	0.01
9:30	9:30	-0.75	37.6	40.1	7.5	35	36.2	1.03	0.021	1.250	0.224	0.962	0.70	34.0	0.81	43.1	0.69	0.18
9:45	9:45	-0.50	36.4	40.4	7.5	32	36.3	0.99	0.020	1.230	0.282	0.930	0.87	32.3	0.78	41.0	0.69	0.36
10:00	10:00	-0.25	37.0	36.0	7.5	30	36.3	1.02	0.021	1.240	0.373	0.858	0.92	29.4	0.80	37.3	0.91	0.58
10:15	10:15	0.00	35.9	39.6	7.3	30	36.3	0.95	0.021	1.230	0.412	0.817	0.95	31.6	0.75	40.1	0.91	0.81
10:45	10:45	0.50	36.0	34.2	7.4	28	36.5	0.99	0.020	1.200	0.428	0.807	1.04	28.4	0.78	36.1	0.90	1.26
11:15	11:15	1.00	36.1	39.1	7.6	29	36.6	1.02	0.020	1.220	0.414	0.819	0.98	28.6	0.80	36.3	0.95	1.73
11:45	11:45	1.50	36.1	39.1	7.2	31	36.6	1.00	0.019	1.200	0.394	0.825	1.00	31.2	0.78	39.5	0.87	2.17
12:15	12:15	2.00	36.1	36.3	7.3	28	36.6	1.00	0.019	1.210	0.382	0.855	1.02	28.0	0.79	35.5	0.83	2.58
12:45	12:45	2.50	36.1	35.0	7.3	29	36.7	1.01	0.019	1.210	0.404	0.849	1.07	28.9	0.79	36.6	0.84	3.00
13:15	13:15	3.00	36.2	34.4	7.4	32	36.8	1.02	0.018	1.180	0.403	0.838	1.13	31.4	0.80	39.8	0.81	3.41
13:45	13:45	3.50	36.2	35.1	7.4	28	36.8	1.01	0.018	1.210	0.363	0.875	1.03	27.7	0.80	35.2	0.79	3.80
14:15	14:15	4.00	36.2	35.4	7.6	28	36.8	0.99	0.017	1.200	0.356	0.895	1.11	28.3	0.78	35.9	0.70	4.15
14:45	14:45	4.50	36.2	34.6	7.3	28	36.9	0.99	0.018	1.250	0.348	0.854	0.83	28.4	0.78	36.1	0.91	4.61
15:15	15:15	5.00	36.2	34.6	7.3	34	36.6	1.03	0.016	1.200	0.218	0.989	0.96	33.2	0.81	42.1	0.50	4.86
15:45	15:45	5.50	36.0	34.2	7.4	39	36.4	0.95	0.014	1.190	0.201	0.994	0.95	41.3	0.74	52.4	0.43	5.07
16:15	16:15	6.00	36.0	34.1	7.4	33	36.4	1.03	0.014	1.190	0.155	1.070	1.18	32.2	0.81	40.9	0.29	5.22
16:45	16:45	6.50	36.0	36.6	7.4	33	36.4	1.01	0.013	1.200	0.158	1.070	1.12	32.8	0.79	41.7	0.30	5.37
17:15	17:15	7.00	35.9	32.4	7.5	33	36.4	1.04	0.011	1.180	0.147	1.100	1.70	31.9	0.82	40.5	0.19	5.46

----- FLAPNO=2521 DATE=03/16/95 ANIMAL/SIDE=95-24-1-R PHASE=1 FLAPWT=25.98 DOSETIME=11:45 GROUP=No Topical MEDVOL=392 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:45	10:45	-1.00	40.4	37.0	7.4	38	39.7	0.98	0.022	1.280	0.172	0.892	0.39	38.8	0.74	51.3	0.88	0.01
11:00	11:00	-0.75	38.0	37.5	7.3	38	36.9	1.05	0.021	1.270	0.269	0.872	0.62	36.2	0.79	47.9	0.97	0.25
11:15	11:15	-0.50	39.0	38.0	7.4	40	38.2	1.07	0.022	1.270	0.315	0.903	0.80	37.6	0.80	49.7	0.90	0.48
11:30	11:30	-0.25	38.6	37.4	7.4	40	37.8	1.02	0.021	1.260	0.327	0.920	0.90	39.4	0.77	52.2	0.80	0.68
11:45	11:45	0.00	38.5	35.5	7.4	38	37.7	0.94	0.022	1.300	0.372	0.909	0.90	40.4	0.71	53.5	0.85	0.89
12:15	12:15	0.50	38.5	35.7	7.4	37	37.8	1.17	0.022	1.250	0.457	0.813	1.00	31.8	0.88	42.0	1.18	1.48
12:45	12:46	1.02	38.7	35.7	7.5	40	37.9	0.95	0.022	1.290	0.469	0.810	0.93	42.3	0.71	56.0	1.05	2.02
13:15	13:16	1.52	38.7	37.0	7.5	33	38.0	0.98	0.021	1.190	0.479	0.814	1.22	33.8	0.74	44.8	0.85	2.44
13:45	13:45	2.00	38.7	37.2	7.5	36	37.9	1.02	0.018	1.040	0.463	0.814	1.97	35.5	0.77	47.0	0.53	2.70
14:15	14:16	2.52	38.7	37.0	7.4	36	37.9	0.98	0.020	1.190	0.466	0.796	1.13	36.7	0.74	48.6	0.89	3.16
14:45	14:46	3.02	38.8	37.2	7.5	37	38.0	0.98	0.021	1.230	0.475	0.755	0.96	37.9	0.74	50.2	1.07	3.69
15:15	15:15	3.50	38.1	37.0	7.4	39	37.9	1.00	0.021	1.240	0.423	0.837	1.00	39.2	0.75	51.9	0.93	4.14
15:45	15:45	4.00	38.2	34.0	7.5	33	37.7	0.98	0.020	1.250	0.395	0.864	0.97	33.8	0.74	44.8	0.87	4.57
16:15	16:15	4.50	38.3	34.3	7.5	32	37.9	0.81	0.018	1.160	0.384	0.882	1.32	39.5	0.61	52.3	0.52	4.83
16:45	16:45	5.00	38.3	33.5	7.4	34	37.8	0.89	0.018	1.190	0.334	0.931	1.22	38.4	0.67	50.9	0.53	5.10
17:15	17:15	5.50	38.6	33.8	7.5	33	37.9	0.94	0.016	1.110	0.303	0.966	1.99	35.1	0.71	46.5	0.31	5.26
17:45	17:46	6.02	38.4	33.7	7.4	34	37.9	1.02	0.015	1.140	0.307	0.955	1.58	33.3	0.77	44.1	0.44	5.48
18:15	18:15	6.50	38.3	33.8	7.5	34	37.9	0.97	0.012	1.040	0.293	0.970	4.01	35.1	0.73	46.4	0.16	5.56

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2521 DATE=03/16/95 ANIMAL/SIDE=95-24-1-R PHASE=1 FLAPWT=25.98 DOSETIME=11:45 GROUP=No Topical MEDVOL=392 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:45	18:45	7:00	38.4	33.7	7.6	34	37.9	0.95	0.013	1.180	0.281	0.990	1.41	36.0	0.71	47.6	0.41	5.76

----- FLAPNO=2522 DATE=03/16/95 ANIMAL/SIDE=95-24-1-L PHASE=1 FLAPWT=29.51 DOSETIME=11:15 GROUP=No Topical MEDVOL=339 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:17	-0.97	35.2	27.8	7.4	38	35.6	1.00	0.021	1.260	0.289	0.863	0.68	38.0	0.65	58.2	0.81	0.01
10:30	10:31	-0.73	36.3	26.3	7.4	36	35.9	1.16	0.021	1.260	0.285	0.944	0.84	31.2	0.75	47.7	0.74	0.18
10:45	10:45	-0.50	36.3	40.6	7.4	33	35.6	1.12	0.020	1.260	0.284	0.954	0.86	29.6	0.73	45.3	0.69	0.35
11:00	11:00	-0.25	37.1	41.4	7.4	29	36.3	1.04	0.020	1.250	0.308	0.953	0.97	28.0	0.68	42.9	0.62	0.50
11:15	11:15	0.00	37.3	42.1	7.5	32	36.5	0.96	0.020	1.250	0.348	0.910	0.96	33.3	0.63	51.0	0.66	0.67
11:45	11:45	0.50	37.4	41.8	7.5	30	36.5	1.06	0.020	1.240	0.403	0.848	0.98	28.3	0.69	43.3	0.84	1.09
12:15	12:16	1.02	37.4	41.8	7.5	28	36.6	1.12	0.019	1.220	0.437	0.818	1.04	25.1	0.73	38.4	0.91	1.56
12:45	12:45	1.50	37.8	42.3	7.5	30	37.2	0.92	0.019	1.180	0.466	0.774	1.10	32.6	0.60	49.9	0.76	1.93
13:15	13:15	2.00	37.9	42.3	7.5	31	37.3	0.99	0.022	1.120	0.540	0.709	1.26	31.3	0.65	47.9	0.83	2.34
13:45	13:45	2.50	37.8	42.0	7.5	25	37.4	0.97	0.016	1.040	0.614	0.658	1.57	25.9	0.63	39.7	0.97	2.72
14:15	14:15	3.00	37.7	42.1	7.4	28	37.2	0.96	0.018	1.100	0.636	0.603	1.24	29.3	0.62	44.9	0.97	3.20
14:45	14:45	3.50	37.7	40.4	7.5	28	37.2	1.01	0.019	1.230	0.601	0.617	0.95	27.9	0.66	42.7	1.25	3.82
15:15	15:15	4.00	37.7	40.0	7.4	26	37.2	0.95	0.016	1.080	0.591	0.651	1.34	27.5	0.62	42.1	0.82	4.24
15:45	15:45	4.50	37.7	40.6	7.4	30	37.2	1.00	0.018	1.220	0.564	0.667	0.99	30.2	0.65	46.2	1.12	4.80
16:15	16:15	5.00	37.7	40.5	7.5	31	37.2	1.01	0.016	1.230	0.556	0.673	0.97	30.8	0.66	47.2	1.14	5.37
16:45	16:45	5.50	37.7	40.0	7.5	32	37.2	1.00	0.013	1.180	0.572	0.669	1.09	32.0	0.65	49.0	1.04	5.88
17:15	17:15	6.00	37.7	40.2	7.5	25	37.2	0.99	0.011	1.180	0.554	0.702	1.14	25.3	0.65	38.7	0.96	6.37
17:45	17:45	6.50	37.8	40.7	7.5	36	37.1	0.97	0.013	1.130	0.521	0.702	1.19	37.1	0.63	56.8	0.84	6.79
18:15	18:15	7.00	37.7	41.2	7.5	26	37.3	0.96	0.012	1.090	0.551	0.713	1.43	27.2	0.62	41.7	0.73	7.15

----- FLAPNO=2523 DATE=03/22/95 ANIMAL/SIDE=95-201-11-R PHASE=2 FLAPWT=25.2 DOSETIME=9:45 GROUP=3 mg HD MEDVOL=404 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
8:45	8:45	-1.00	37.7	38.8	7.2	49	36.7	1.05	0.020	1.180	0.180	1.030	1.07	46.9	0.81	60.2	0.37	0.01
9:00	9:00	-0.75	37.1	38.5	7.3	54	37.8	0.93	0.020	1.210	0.237	0.999	1.03	58.1	0.72	74.6	0.47	0.13
9:15	9:15	-0.50	38.9	35.3	7.3	49	38.2	0.97	0.020	1.200	0.347	0.891	1.06	50.8	0.75	65.2	0.71	0.30
9:30	9:30	-0.25	38.9	35.4	7.3	54	38.2	0.98	0.021	1.210	0.350	0.898	1.05	55.4	0.76	71.2	0.72	0.49
9:45	9:45	0.00	38.7	32.8	7.3	59	37.9	1.00	0.020	1.200	0.436	0.815	1.08	59.3	0.77	76.2	0.91	0.71
10:15	10:15	0.50	38.9	35.5	7.3	53	38.3	1.02	0.020	1.200	0.447	0.811	1.10	52.2	0.79	67.1	0.94	1.18
10:45	10:45	1.00	39.0	35.2	7.3	42	38.3	1.01	0.019	1.210	0.389	0.859	1.05	41.6	0.79	53.4	0.84	1.61
11:15	11:15	1.50	39.0	34.7	7.4	42	38.4	0.87	0.019	1.210	0.451	0.794	1.04	48.6	0.67	62.4	0.86	2.03
11:45	11:45	2.00	39.0	35.0	7.4	44	38.3	0.99	0.019	1.210	0.389	0.869	1.09	44.7	0.77	57.4	0.80	2.43

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2523 DATE=03/22/95 ANIMAL/SIDE=95-201-11-R PHASE=2 FLAPWT=25.2 DOSETIME=9:45 GROUP=3 mg HD MEDVOL=404 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
12:15	12:15	2:50	38.8	34.0	7.4	52	38.4	0.97	0.019	1.230	0.356	0.893	1.00	53.9	0.75	69.2	0.77	2.82
12:45	12:48	3:05	38.7	32.2	7.4	47	38.1	0.92	0.018	1.220	0.331	0.928	1.07	51.4	0.71	66.0	0.64	3.17
13:15	13:15	3:50	38.7	36.7	7.4	43	38.1	0.85	0.017	1.220	0.316	0.913	0.97	50.6	0.66	65.0	0.62	3.45
13:45	13:45	4:00	38.6	33.0	7.4	42	38.0	0.95	0.015	1.210	0.317	0.944	1.14	44.4	0.74	57.1	0.60	3.75
14:15	14:15	4:50	37.7	36.9	7.4	46	37.0	0.99	0.013	1.220	0.299	0.954	1.08	46.5	0.77	59.7	0.63	4.06
14:45	14:45	5:00	37.7	34.2	7.5	45	37.1	1.01	0.012	1.230	0.287	0.962	1.03	44.8	0.78	57.5	0.64	4.38
15:15	15:15	5:50	37.7	33.6	7.5	46	37.0	0.91	0.011	1.220	0.291	0.963	1.09	50.5	0.71	64.9	0.56	4.66
15:45	15:45	6:00	37.7	33.5	7.5	44	37.1	0.98	0.010	1.230	0.281	0.972	1.05	45.1	0.76	58.0	0.60	4.96
16:15	16:15	6:50	37.7	35.4	7.5	47	37.1	0.93	0.009	1.230	0.290	0.971	1.08	50.5	0.72	64.9	0.57	5.25
16:45	16:45	7:00	37.8	35.3	7.5	45	37.1	1.01	0.007	1.240	0.272	0.969	0.98	44.6	0.79	57.2	0.65	5.57
17:15	17:16	7:52	37.8	37.5	7.5	49	37.1	1.00	0.006	1.240	0.279	0.976	1.03	49.0	0.78	62.9	0.63	5.90
17:45	17:45	8:00	37.8	33.3	7.5	49	37.1	0.94	0.005	1.250	0.265	1.010	1.08	52.4	0.73	67.3	0.53	6.16

----- FLAPNO=2524 DATE=03/22/95 ANIMAL/SIDE=95-201-11-L PHASE=2 FLAPWT=35.47 DOSETIME=9:29 GROUP=3 mg HD MEDVOL=381 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
8:30	8:30	-0:98	36.9	41.1	7.2	27	35.8	0.96	0.020	1.190	0.237	0.966	0.97	28.3	0.70	38.5	0.36	0.01
8:45	8:45	-0:75	37.9	45.4	7.2	31	37.2	0.99	0.021	1.200	0.291	0.929	1.00	31.5	0.72	42.9	0.45	0.12
9:00	9:00	-0:48	37.6	42.0	7.2	26	36.7	0.97	0.020	1.200	0.316	0.915	1.04	26.8	0.71	36.5	0.47	0.24
9:15	9:18	-0:18	37.6	45.0	7.2	26	36.4	1.00	0.020	1.200	0.422	0.837	1.11	26.1	0.73	35.6	0.61	0.42
9:30	9:29	0:00	37.9	40.9	7.3	25	37.0	1.09	0.020	1.200	0.439	0.811	1.08	23.0	0.80	31.4	0.71	0.55
10:00	10:00	0:52	37.3	34.4	7.3	26	36.3	0.92	0.020	1.210	0.463	0.789	1.05	28.3	0.68	38.5	0.66	0.89
10:30	10:30	1:02	37.6	35.7	7.3	24	36.8	0.89	0.019	1.200	0.482	0.769	1.07	27.0	0.65	36.7	0.65	1.22
11:00	11:00	1:52	37.5	33.4	7.3	24	36.8	0.98	0.019	1.210	0.494	0.744	1.02	24.6	0.72	33.5	0.77	1.60
11:30	11:30	2:02	37.5	34.3	7.3	24	36.8	0.95	0.019	1.210	0.510	0.740	1.04	25.3	0.70	34.4	0.76	1.98
12:00	12:00	2:52	37.5	34.1	7.4	31	36.8	0.98	0.017	1.210	0.496	0.738	1.01	31.8	0.72	43.3	0.78	2.37
12:30	12:30	3:02	37.5	34.4	7.4	28	36.8	0.86	0.016	1.210	0.372	0.869	1.04	32.6	0.63	44.4	0.50	2.62
13:00	13:00	3:52	36.5	38.2	7.4	31	35.4	0.98	0.016	1.210	0.382	0.859	1.04	31.8	0.72	43.3	0.58	2.91
13:30	13:30	4:02	36.7	36.0	7.4	41	36.1	0.97	0.016	1.220	0.323	0.916	1.01	42.5	0.71	57.9	0.50	3.15
14:00	14:00	4:52	36.6	35.8	7.5	38	36.0	1.00	0.015	1.230	0.315	0.925	0.98	38.0	0.73	51.8	0.52	3.41
14:30	14:30	5:02	36.7	34.4	7.5	47	36.1	0.98	0.014	1.240	0.210	1.040	0.98	48.0	0.72	65.3	0.33	3.58
15:00	15:00	5:52	36.7	38.9	7.5	38	36.1	0.99	0.013	1.230	0.212	1.050	1.11	38.4	0.73	52.3	0.30	3.73
15:30	15:30	6:02	36.7	37.1	7.5	43	36.1	0.96	0.012	1.230	0.163	1.080	1.01	45.0	0.70	61.3	0.24	3.85
16:00	15:59	6:50	36.7	36.4	7.5	38	36.1	0.95	0.012	1.230	0.178	1.080	1.11	40.0	0.70	54.5	0.24	3.97
16:30	16:30	7:02	36.7	35.5	7.5	45	36.1	1.02	0.011	1.230	0.199	1.050	1.04	44.1	0.75	60.1	0.31	4.13
17:00	17:01	7:53	36.8	35.9	7.4	43	36.2	1.05	0.009	1.230	0.211	1.050	1.12	41.1	0.77	56.1	0.32	4.29
17:30	17:30	8:02	36.9	37.9	7.4	43	36.2	1.08	0.006	1.220	0.212	1.030	1.08	39.8	0.79	54.2	0.35	4.46

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

NCSU=Yes

GROUP=3

DOSETIME=10:44

FLAPWT=23.72

PHASE=2

ANIMAL/SIDE=95-202-7-R

DATE=03/23/95

FLAPNO=2525

TARG TIME

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0.98	36.7	36.8	7.3	42	35.9	0.95	0.018	1.210	0.224	0.888	0.64	44.4	0.79	53.3	0.77	0.01
10:00	10:00	-0.73	37.6	34.8	7.4	69	36.9	0.97	0.018	1.210	0.269	0.906	0.83	71.5	0.81	85.7	0.74	0.20
10:15	10:15	-0.48	37.0	35.2	7.4	41	36.2	0.94	0.018	1.210	0.302	0.894	0.90	43.9	0.78	52.6	0.75	0.38
10:30	10:30	-0.23	37.0	35.4	7.4	38	36.2	0.94	0.018	1.210	0.342	0.867	0.94	40.6	0.78	48.7	0.81	0.59
10:45	10:44	0.00	37.0	35.5	7.4	35	36.2	0.93	0.017	1.200	0.358	0.852	0.98	37.6	0.78	45.1	0.82	0.78
11:15	11:15	0.52	36.9	35.0	7.4	30	36.2	0.93	0.020	1.340	0.377	0.847	0.72	32.4	0.77	38.9	1.15	1.37
11:45	11:45	1.02	36.9	35.7	7.4	28	36.1	0.97	0.014	1.220	0.388	0.834	1.05	33.5	0.81	34.6	0.95	1.85
12:15	12:15	1.52	36.8	35.7	7.4	32	36.1	0.96	0.013	1.200	0.399	0.831	1.05	33.5	0.80	40.2	0.89	2.29
12:45	12:45	2.02	36.8	34.6	7.4	32	36.1	0.96	0.011	1.210	0.411	0.806	1.03	33.3	0.80	40.0	0.98	2.78
13:15	13:15	2.52	36.8	34.0	7.4	31	36.1	0.98	0.010	1.210	0.411	0.821	1.03	31.8	0.81	38.1	0.96	3.26
13:45	13:45	3.02	36.9	33.9	7.4	32	36.1	0.94	0.008	1.200	0.390	0.824	1.02	34.0	0.78	40.8	0.89	3.71
14:15	14:15	3.52	36.8	34.2	7.5	25	36.1	0.88	0.007	1.230	0.388	0.849	1.00	28.6	0.73	34.2	0.84	4.13
14:45	14:45	4.02	36.8	34.2	7.5	34	36.1	1.00	0.006	1.210	0.344	0.867	0.99	34.2	0.83	41.0	0.86	4.56
15:15	15:15	4.52	36.9	34.2	7.5	36	36.1	1.01	0.007	1.210	0.322	0.888	0.98	35.8	0.84	42.9	0.82	4.97
15:45	15:45	5.02	36.9	34.3	7.5	31	36.1	1.01	0.008	1.220	0.305	0.913	0.97	30.8	0.84	37.0	0.78	5.36
16:15	16:15	5.52	36.9	33.9	7.5	33	36.2	1.03	0.007	1.220	0.294	0.922	0.96	32.0	0.86	38.4	0.78	5.75
16:45	16:45	6.02	36.9	35.1	7.5	32	36.1	0.98	0.007	1.230	0.278	0.939	0.93	32.7	0.82	39.1	0.72	6.11
17:15	17:15	6.52	36.9	34.9	7.5	37	36.1	1.01	0.007	1.220	0.261	0.958	0.97	36.6	0.84	43.9	0.67	6.44
17:45	17:45	7.02	36.9	35.3	7.5	36	36.1	0.98	0.008	1.230	0.251	0.969	0.93	36.7	0.82	44.0	0.65	6.77
18:15	18:15	7.52	36.9	34.0	7.5	34	36.1	0.99	0.006	1.220	0.231	0.971	0.90	34.5	0.82	41.4	0.62	7.08
18:45	18:45	8.02	36.9	33.9	10.0	34	36.0	0.95	0.010	1.070	0.257	0.971	2.49	36.0	0.79	43.1	0.24	7.20

NCSU=No

GROUP=EtoH

DOSETIME=10:29

FLAPWT=28.59

PHASE=2

ANIMAL/SIDE=95-202-7-L

DATE=03/23/95

FLAPNO=2526

TARG TIME

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.98	37.0	35.3	7.4	60	35.9	0.99	0.019	1.210	0.091	1.090	0.60	60.9	0.85	70.3	0.25	0.01
9:45	9:47	-0.70	37.4	35.2	7.4	67	35.9	0.93	0.019	1.210	0.178	1.020	0.84	72.4	0.80	83.5	0.37	0.11
10:00	10:00	-0.48	37.4	35.0	7.4	69	35.9	0.94	0.018	1.210	0.187	1.020	0.89	73.4	0.82	84.7	0.37	0.20
10:15	10:15	-0.23	37.4	35.0	7.4	70	35.9	0.99	0.018	1.200	0.159	1.070	1.08	70.7	0.86	81.5	0.27	0.26
10:30	10:29	0.00	37.6	35.0	7.4	71	36.8	1.01	0.017	1.210	0.147	1.100	1.18	70.6	0.87	81.5	0.23	0.32
11:00	11:00	0.52	37.5	34.4	7.5	69	36.8	0.99	0.017	1.210	0.180	1.060	1.09	70.1	0.85	80.8	0.31	0.48
11:30	11:30	1.02	37.5	34.4	7.5	39	36.9	0.95	0.016	1.210	0.150	1.100	1.22	41.3	0.82	47.6	0.22	0.59
12:00	12:00	1.52	37.8	34.4	7.5	38	37.1	1.00	0.015	1.210	0.153	1.090	1.15	38.0	0.87	43.8	0.25	0.71
12:30	12:30	2.02	37.8	35.0	7.5	37	37.1	1.00	0.013	1.210	0.140	1.100	1.15	37.0	0.87	42.7	0.23	0.83
13:00	13:00	2.52	37.8	34.9	7.5	37	37.1	1.01	0.013	1.210	0.142	1.126	1.54	36.6	0.88	42.3	0.18	0.92
13:30	13:33	3.07	37.8	34.1	7.5	34	37.1	1.01	0.012	1.200	0.110	1.150	1.96	33.8	0.87	39.0	0.11	1.05
14:00	14:00	3.52	37.8	34.5	7.5	33	36.9	0.98	0.013	1.230	0.108	1.150	1.19	33.7	0.85	38.8	0.16	1.10
14:30	14:30	4.02	37.8	33.3	7.5	36	37.1	1.00	0.011	1.220	0.073	1.170	1.24	36.2	0.86	41.7	0.10	1.10
15:00	15:00	4.52	37.8	34.1	7.5	31	37.0	0.96	0.010	1.220	0.073	1.180	1.57	32.5	0.83	37.4	0.08	1.14
15:30	15:30	5.02	37.8	33.7	7.5	31	36.9	0.97	0.010	1.220	0.056	1.190	1.53	32.0	0.84	36.9	0.06	1.17
16:00	16:00	5.52	37.7	33.8	7.5	31	36.9	1.04	0.010	1.210	0.058	1.190	2.40	30.0	0.90	34.5	0.04	1.19

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2526 DATE=03/23/95 ANIMAL/SIDE=95-202-7-L PHASE=2 FLAPWT=28.59 DOSETIME=10:29 GROUP=EtoH MEDVOL=450 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:30	16:30	6.02	37.8	34.0	7.5	31	37.0	0.97	0.008	1.200	0.038	1.190	3.00	32.0	0.84	36.9	0.02	1.20
17:00	17:00	6.52	37.7	33.8	7.5	31	37.1	0.99	0.007	1.220	0.046	1.220	-	31.3	0.86	36.1	0.00	1.20
17:30	17:30	7.02	37.7	33.3	7.5	30	36.9	0.95	0.008	1.220	0.044	1.210	3.60	31.7	0.82	36.6	0.02	1.21
18:00	18:00	7.52	37.7	34.0	7.5	31	36.9	1.02	0.007	1.220	0.042	1.190	1.17	30.5	0.88	35.2	0.06	1.25
18:30	18:30	8.02	37.7	34.0	7.5	31	36.9	0.97	0.005	1.210	0.030	1.230	-	32.0	0.84	36.9	0.00	1.25

----- FLAPNO=2527 DATE=03/29/95 ANIMAL/SIDE=95-206-6-R PHASE=2 FLAPWT=23.11 DOSETIME=11:45 GROUP=3 mg HD MEDVOL=245 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:30	11:30	-0.25	36.8	36.7	7.5	33	36.3	1.04	0.019	1.190	0.550	0.629	0.95	31.7	0.49	67.2	1.51	0.01
11:45	11:45	0.00	37.1	34.7	7.5	33	37.2	0.98	0.019	1.190	0.522	0.697	1.02	33.7	0.46	71.3	1.25	0.32
12:15	12:15	0.50	37.6	33.1	7.5	30	37.5	0.86	0.017	1.180	0.529	0.680	1.02	35.1	0.40	74.3	1.11	0.88
12:45	12:45	1.00	37.6	31.8	7.5	27	37.4	0.97	0.017	1.180	0.510	0.688	1.00	27.8	0.46	59.0	1.24	1.50
13:15	13:15	1.50	37.7	35.3	7.5	34	37.4	0.98	0.016	1.180	0.517	0.706	1.06	34.7	0.46	73.5	1.21	2.10
13:45	13:45	2.00	37.6	34.0	7.5	33	37.4	0.98	0.014	1.170	0.464	0.742	1.05	33.8	0.46	71.7	1.08	2.64
14:15	14:15	2.50	37.6	32.0	7.5	33	37.3	0.99	0.011	1.170	0.392	0.803	1.04	33.5	0.46	71.0	0.94	3.11
14:45	14:45	3.00	37.6	34.3	7.5	36	37.3	0.95	0.011	1.180	0.362	0.856	1.08	37.9	0.45	80.3	0.80	3.51
15:15	15:15	3.50	37.5	32.5	7.4	40	37.3	0.96	0.009	1.180	0.320	0.889	1.07	41.7	0.45	88.3	0.73	3.87
15:45	15:45	4.00	37.5	32.0	7.4	37	37.3	0.97	0.009	1.170	0.292	0.914	1.11	38.1	0.46	80.8	0.64	4.20
16:15	16:15	4.50	37.6	34.0	7.5	38	37.3	0.99	0.009	1.170	0.268	0.926	1.06	38.6	0.46	81.7	0.62	4.51
16:45	16:45	5.00	37.6	34.1	7.5	37	37.4	0.95	0.009	1.170	0.256	0.938	1.06	38.9	0.45	82.5	0.57	4.79
17:15	17:15	5.50	37.6	33.8	7.5	36	37.4	0.95	0.008	1.190	0.244	0.945	0.96	38.1	0.45	80.7	0.60	5.10
17:45	17:45	6.00	37.6	34.8	7.5	38	37.3	0.97	0.009	1.180	0.245	0.957	1.06	39.4	0.46	83.4	0.56	5.37
18:15	18:15	6.50	37.6	33.6	7.5	37	37.3	0.96	0.008	1.170	0.237	0.953	1.06	38.7	0.45	82.1	0.54	5.64
18:45	18:45	7.00	37.6	34.6	7.5	37	37.4	1.00	0.008	1.170	0.232	0.959	1.06	37.0	0.47	78.4	0.55	5.92
19:15	19:15	7.50	37.6	33.8	7.5	35	37.4	0.95	0.008	1.170	0.222	0.961	1.02	36.8	0.45	78.0	0.52	6.18
19:45	19:46	8.02	37.7	34.6	7.5	35	37.4	1.00	0.007	1.160	0.220	0.962	1.08	35.2	0.47	74.5	0.51	6.44

----- FLAPNO=2529 DATE=03/30/95 ANIMAL/SIDE=95-205-6-R PHASE=2 FLAPWT=26.96 DOSETIME=11:15 GROUP=3 mg HD MEDVOL=316 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:15	-1.00	37.8	36.3	7.4	37	36.2	1.04	0.021	1.160	0.419	0.676	0.82	35.7	0.63	58.7	1.11	0.01
10:30	10:30	-0.75	37.0	34.4	7.4	36	36.4	1.02	0.020	1.160	0.454	0.687	0.92	35.3	0.62	58.0	1.07	0.28
10:45	10:45	-0.50	37.2	35.2	7.5	32	36.6	1.02	0.020	1.160	0.530	0.632	0.97	31.4	0.62	51.5	1.20	0.58
11:00	11:00	-0.25	37.2	34.0	7.5	33	36.6	0.98	0.020	1.170	0.547	0.611	0.94	33.8	0.59	55.6	1.21	0.88
11:15	11:15	0.00	37.4	34.9	7.5	33	36.6	0.99	0.020	1.180	0.572	0.601	0.95	33.3	0.60	54.7	1.28	1.20
11:45	11:45	0.50	37.3	32.1	7.5	34	36.8	0.96	0.019	1.170	0.571	0.598	0.97	35.4	0.58	58.2	1.22	1.81

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2529 DATE=03/30/95 ANIMAL/SIDE=95-205-6-R PHASE=2 FLAPWT=26.96 DOSETIME=11:15 GROUP=3 mg HD MEDVOL=316 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
12:15	12:15	1.00	37.3	34.0	7.5	36	36.8	0.95	0.017	1.160	0.593	0.601	1.03	37.9	0.58	62.2	1.18	2.40
12:45	12:45	1.50	37.0	36.1	7.5	33	36.8	0.91	0.014	1.160	0.522	0.662	1.02	36.5	0.55	59.9	1.00	2.90
13:15	13:15	2.00	37.2	35.4	7.5	43	36.8	0.89	0.012	1.170	0.488	0.692	1.00	48.3	0.54	79.4	0.95	3.38
13:45	13:45	2.50	37.2	36.5	7.5	44	36.7	1.04	0.009	1.170	0.433	0.739	0.98	42.3	0.63	69.5	1.00	3.88
14:15	14:15	3.00	37.3	35.4	7.5	41	36.8	1.00	0.007	1.170	0.403	0.772	0.99	41.0	0.61	67.3	0.89	4.32
14:45	14:45	3.50	37.3	33.0	7.4	39	36.8	1.01	0.005	1.170	0.376	0.799	1.00	38.6	0.61	63.4	0.83	4.74
15:15	15:15	4.00	37.1	36.0	7.5	41	36.7	1.05	0.003	1.170	0.372	0.801	1.00	39.0	0.64	64.1	0.86	5.17
15:45	15:45	4.50	37.2	36.1	7.5	42	36.7	0.98	0.005	1.160	0.370	0.810	1.04	43.1	0.59	70.7	0.76	5.55
16:15	16:15	5.00	37.4	35.1	7.5	41	36.7	0.95	0.004	1.180	0.367	0.831	1.04	43.4	0.58	71.3	0.73	5.91
16:45	16:45	5.50	37.1	36.9	7.5	35	36.6	1.00	0.004	1.160	0.359	0.819	1.04	35.0	0.61	57.5	0.76	6.29
17:15	17:15	6.00	37.6	37.3	7.5	38	36.8	0.97	0.004	1.160	0.349	0.837	1.07	39.4	0.59	64.7	0.69	6.64
17:45	17:45	6.50	37.3	37.6	7.5	39	36.8	0.96	0.003	1.180	0.324	0.855	0.99	40.8	0.58	67.1	0.69	6.99
18:15	18:15	7.00	37.3	37.4	7.4	30	36.8	0.96	0.003	1.160	0.287	0.875	1.00	31.3	0.58	51.3	0.61	7.29
18:45	18:45	7.50	37.3	36.9	7.4	33	36.8	0.98	0.003	1.170	0.287	0.881	0.98	33.8	0.59	55.6	0.63	7.60
19:15	19:00	7.75	37.6	37.0	7.5	30	36.8	0.94	0.003	1.170	0.299	0.906	1.12	31.9	0.57	52.4	0.55	7.74

----- FLAPNO=2530 DATE=03/30/95 ANIMAL/SIDE=95-205-6-L PHASE=2 FLAPWT=33.35 DOSETIME=10:28 GROUP=ECHO MEDVOL=359 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.97	36.9	34.4	7.3	34	35.8	1.02	0.019	1.130	0.482	0.688	1.05	33.5	0.70	48.4	0.81	0.01
9:45	9:45	-0.72	37.8	34.9	7.3	33	36.7	0.99	0.020	1.150	0.515	0.671	1.03	33.3	0.68	48.2	0.85	0.22
10:00	10:00	-0.47	37.9	34.5	7.3	32	36.8	1.02	0.020	1.160	0.545	0.633	1.00	31.4	0.71	45.4	0.97	0.47
10:15	10:15	-0.22	38.0	33.7	7.4	30	37.1	1.01	0.019	1.150	0.569	0.605	1.01	29.7	0.70	42.9	0.99	0.71
10:30	10:28	0.00	38.1	33.6	7.4	29	37.1	0.98	0.019	1.150	0.575	0.586	0.99	29.7	0.67	43.0	0.99	0.93
11:00	11:00	0.53	38.1	32.5	7.4	28	37.1	1.01	0.018	1.170	0.596	0.584	0.99	27.7	0.70	40.1	1.06	1.49
11:30	11:30	1.03	37.9	31.2	7.5	27	37.2	0.99	0.018	1.160	0.598	0.578	1.00	27.3	0.68	39.4	1.04	2.01
12:00	12:00	1.53	37.8	33.5	7.5	26	37.1	1.03	0.016	1.170	0.608	0.576	1.00	25.2	0.71	36.5	1.10	2.56
12:30	12:30	2.03	37.7	33.0	7.5	27	36.9	1.00	0.015	1.160	0.612	0.574	1.02	27.0	0.69	39.0	1.05	3.09
13:00	13:00	2.53	37.9	33.5	7.5	25	37.1	0.94	0.013	1.160	0.628	0.582	1.06	26.6	0.65	38.4	0.98	3.58
13:30	13:30	3.03	37.9	34.5	7.5	26	37.2	0.91	0.012	1.180	0.570	0.602	0.97	28.7	0.63	41.5	0.94	4.05
14:00	14:00	3.53	38.0	34.9	7.5	27	37.2	0.90	0.010	1.180	0.564	0.649	1.04	30.2	0.62	43.6	0.86	4.48
14:30	14:30	4.03	38.1	31.4	7.5	27	37.3	0.91	0.009	1.170	0.514	0.668	1.01	29.8	0.63	43.1	0.82	4.89
15:00	15:00	4.53	38.1	33.4	7.4	28	37.3	0.91	0.008	1.160	0.504	0.710	1.10	30.9	0.63	44.7	0.73	5.25
15:30	15:30	5.03	38.0	33.1	7.5	30	37.2	0.94	0.009	1.180	0.454	0.727	0.98	32.1	0.65	46.4	0.76	5.63
16:00	16:00	5.53	38.1	33.0	7.4	32	37.3	0.94	0.004	1.170	0.381	0.806	1.04	34.0	0.67	49.2	0.62	5.94
16:30	16:30	6.03	38.1	33.4	7.4	34	37.3	0.97	0.008	1.190	0.365	0.817	0.96	35.1	0.65	50.7	0.65	6.27
17:00	17:00	6.53	38.1	34.5	7.5	37	37.4	0.90	0.008	1.170	0.297	0.928	1.19	41.3	0.62	59.8	0.39	6.46
17:30	17:30	7.03	38.1	34.6	7.5	35	37.3	0.94	0.007	1.190	0.315	0.869	0.96	37.4	0.65	54.1	0.54	6.73
18:00	18:00	7.53	38.1	34.4	7.5	37	37.3	1.01	0.006	1.180	0.267	0.922	1.01	36.8	0.70	53.2	0.47	6.96
18:30	18:30	8.03	38.0	33.3	7.4	36	37.3	1.00	0.005	1.170	0.215	0.973	1.07	36.0	0.69	52.0	0.35	7.14

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

FLAPNO=2531 DATE=04/05/95 ANIMAL/SIDE=95-22-4-R PHASE=2 FLAPWT=25.33 DOSETIME=11:45 GROUP=EtoH MEDVOL=370 NCSU=Yes										-----									
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC	
10:45	10:44	-1.02	36.9	32.9	7.4	38	36.1	0.93	0.018	1.170	0.315	0.851	0.93	41.1	0.66	57.6	0.70	0.01	
11:00	11:00	-0.75	37.6	31.7	7.4	37	36.8	0.93	0.018	1.170	0.367	0.830	1.03	40.0	0.66	56.1	0.74	0.21	
11:15	11:15	-0.50	37.8	28.1	7.4	36	37.1	0.84	0.017	1.160	0.387	0.809	1.05	43.1	0.60	60.5	0.69	0.38	
11:30	11:30	-0.25	37.8	30.8	7.4	35	37.1	0.87	0.017	1.170	0.415	0.785	1.03	40.2	0.62	56.4	0.79	0.58	
11:45	11:45	0.00	37.8	29.9	7.4	35	37.1	0.91	0.016	1.180	0.446	0.767	1.04	38.7	0.65	54.2	0.89	0.80	
12:15	12:15	0.50	37.8	28.4	7.4	36	37.1	0.96	0.014	1.170	0.456	0.775	1.12	37.7	0.68	52.9	0.89	1.25	
12:45	12:45	1.00	37.9	27.9	7.4	36	37.1	0.94	0.013	1.160	0.473	0.713	1.03	38.3	0.67	53.7	1.00	1.75	
13:15	13:15	1.50	37.8	29.4	7.4	36	37.0	0.97	0.012	1.170	0.468	0.719	1.01	37.3	0.69	52.3	1.03	2.26	
13:45	13:45	2.00	37.8	30.7	7.4	37	36.9	0.98	0.010	1.170	0.452	0.744	1.04	37.8	0.70	53.0	0.99	2.76	
14:15	14:15	2.50	37.8	27.9	7.4	40	37.1	0.89	0.009	1.160	0.388	0.792	1.03	44.9	0.63	63.0	0.78	3.14	
14:45	14:45	3.00	37.8	30.5	7.3	43	36.9	0.94	0.007	1.170	0.307	0.919	1.20	45.7	0.67	64.2	0.56	3.42	
15:15	15:15	3.50	37.8	30.9	7.3	42	37.0	0.97	0.005	1.150	0.234	0.947	1.13	43.3	0.69	60.7	0.47	3.66	
15:45	15:45	4.00	37.8	31.6	7.4	44	37.0	0.91	0.005	1.170	0.204	0.966	0.98	48.6	0.65	68.2	0.44	3.88	
16:15	16:15	4.50	37.8	31.5	7.4	47	36.9	0.97	0.004	1.170	0.182	0.993	1.00	48.7	0.69	68.3	0.40	4.08	
16:45	16:45	5.00	37.8	28.8	7.4	48	36.9	0.95	0.004	1.170	0.168	1.010	1.03	50.5	0.68	70.9	0.36	4.26	
17:15	17:15	5.50	37.8	30.0	7.4	48	37.0	0.94	0.003	1.170	0.154	1.070	1.51	51.1	0.67	71.6	0.22	4.37	
17:45	17:45	6.00	37.8	31.3	7.4	49	37.0	0.92	0.004	1.170	0.126	1.050	1.02	53.6	0.65	75.1	0.26	4.50	
18:15	18:15	6.50	37.8	32.1	7.4	49	37.0	0.94	0.003	1.160	0.119	1.060	1.16	52.1	0.67	73.1	0.22	4.61	
18:45	18:45	7.00	37.8	32.6	7.4	49	36.9	0.94	0.002	1.160	0.114	1.060	1.12	52.1	0.67	73.1	0.22	4.72	
19:15	19:15	7.50	37.8	28.3	7.4	49	36.9	0.95	0.002	1.200	0.108	1.070	0.82	51.9	0.67	72.7	0.29	4.87	
19:45	19:45	8.00	37.8	30.2	7.4	48	36.9	0.98	0.002	1.180	0.106	1.080	1.04	49.2	0.70	69.1	0.23	4.98	

FLAPNO=2532 DATE=04/05/95 ANIMAL/SIDE=95-22-4-L PHASE=2 FLAPWT=27.18 DOSETIME=11:14 GROUP=EtoH MEDVOL=413 NCSU=No										-----									
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC	
10:15	10:15	-0.98	36.9	39.6	7.3	63	36.3	1.00	0.019	1.150	0.034	1.150	-	63.0	0.80	79.2	0.00	0.01	
10:30	10:30	-0.73	36.0	37.8	7.4	86	34.7	1.00	0.018	1.150	0.023	1.160	-	86.0	0.80	108.1	0.00	0.01	
10:45	10:45	-0.48	35.2	36.0	7.4	93	36.4	1.00	0.017	1.140	0.024	1.150	-	93.0	0.80	116.9	0.00	0.01	
11:00	11:00	-0.23	37.1	33.0	7.4	92	36.5	1.00	0.017	1.160	0.028	1.160	-	92.0	0.80	115.6	0.00	0.01	
11:15	11:14	0.00	37.1	31.8	7.4	80	36.4	1.00	0.017	1.140	0.027	1.150	-	80.0	0.80	100.5	0.00	0.01	
11:45	11:45	0.52	36.4	33.1	7.4	55	35.8	1.00	0.015	1.150	0.237	1.010	1.59	55.0	0.80	69.1	0.31	0.17	
12:00	12:00	0.77	36.9	31.9	7.4	52	36.2	1.00	0.015	1.160	0.232	0.998	1.34	52.0	0.80	65.3	0.36	0.26	
12:30	12:30	1.27	37.1	30.8	7.3	50	36.3	1.00	0.013	1.150	0.230	0.988	1.34	50.0	0.80	62.8	0.36	0.44	
13:00	13:00	1.77	37.1	32.3	7.3	49	36.4	1.00	0.012	1.160	0.191	0.996	1.09	49.0	0.80	61.6	0.36	0.62	
13:30	13:30	2.27	37.1	32.0	7.4	47	36.4	1.00	0.011	1.160	0.181	1.010	1.13	47.0	0.80	59.1	0.33	0.78	
14:00	14:00	2.77	37.2	30.9	7.4	51	36.4	1.00	0.010	1.170	0.167	1.010	0.98	51.0	0.80	64.1	0.35	0.96	
14:30	14:30	3.27	37.2	31.7	7.3	47	36.4	1.00	0.010	1.160	0.129	1.060	1.19	47.0	0.80	59.1	0.22	1.07	
15:00	15:00	3.77	37.2	33.7	7.4	47	36.4	1.00	0.010	1.170	0.105	1.100	1.36	47.0	0.80	59.1	0.15	1.15	
15:30	15:30	4.27	37.2	33.8	7.4	45	36.4	1.00	0.007	1.170	0.084	1.090	0.96	45.0	0.80	56.5	0.18	1.24	
16:00	16:00	4.77	37.1	32.3	7.4	46	36.3	1.00	0.007	1.170	0.080	1.100	1.04	46.0	0.80	57.8	0.15	1.31	
16:30	16:30	5.27	37.2	32.5	7.4	51	36.5	1.00	0.007	1.180	0.088	1.090	0.90	51.0	0.80	64.1	0.20	1.41	

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2532 DATE=04/05/95 ANIMAL/SIDE=95-22-4-L PHASE=2 FLAPWT=27.18 DOSETIME=11:14 GROUP=EtoH MEDVOL=413 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	5.77	37.2	34.7	7.4	47	36.5	1.00	0.005	1.180	0.070	1.110	0.93	47.0	0.80	59.1	0.15	1.49
17:30	17:30	6.27	37.2	31.3	7.4	44	36.5	1.00	0.004	1.170	0.073	1.120	1.38	44.0	0.80	55.3	0.11	1.55
18:00	18:00	6.77	37.2	35.8	7.4	44	36.4	1.00	0.004	1.180	0.064	1.120	1.00	44.0	0.80	55.3	0.13	1.61
18:30	18:30	7.27	37.1	32.0	7.4	37	36.4	1.00	0.003	1.180	0.062	1.110	0.84	37.0	0.80	46.5	0.15	1.69
19:00	19:00	7.77	37.2	34.3	7.4	36	36.4	1.00	0.003	1.170	0.058	1.120	1.10	36.0	0.80	45.2	0.11	1.74
19:30	19:30	8.27	37.2	32.7	7.3	35	36.4	1.00	0.001	1.170	0.054	1.120	1.06	35.0	0.80	44.0	0.11	1.80

----- FLAPNO=2533 DATE=04/06/95 ANIMAL/SIDE=95-207-6-R PHASE=2 FLAPWT=30.39 DOSETIME=11:00 GROUP=EtoH MEDVOL=467 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.00	38.4	36.7	7.4	56	36.8	0.93	0.019	1.130	0.148	1.140	-	60.2	0.84	66.9	0.00	0.01
10:15	10:15	-0.75	36.7	32.2	7.4	43	35.6	0.97	0.019	1.150	0.268	1.070	3.11	44.6	0.87	49.5	0.15	0.05
10:30	10:30	-0.50	37.3	31.9	7.4	42	36.4	0.99	0.019	1.160	0.353	0.973	1.79	42.4	0.89	47.1	0.37	0.14
10:45	10:45	-0.25	37.5	33.9	7.4	41	36.6	0.99	0.019	1.160	0.369	0.914	1.42	41.4	0.89	46.0	0.48	0.26
11:00	11:00	0.00	37.4	33.7	7.4	40	36.7	0.99	0.018	1.160	0.397	0.856	1.25	40.6	0.89	45.1	0.59	0.41
11:30	11:30	0.50	37.9	31.4	7.3	38	36.6	0.97	0.016	1.160	0.433	0.803	1.17	39.2	0.87	43.5	0.68	0.75
12:00	12:00	1.00	37.4	32.4	7.3	37	36.6	0.97	0.015	1.150	0.432	0.777	1.12	38.3	0.87	42.6	0.71	1.10
12:30	12:30	1.50	37.4	33.1	7.3	37	36.6	0.98	0.014	1.160	0.439	0.769	1.09	37.8	0.88	42.0	0.76	1.48
13:00	13:00	2.00	37.4	33.8	7.3	36	36.6	1.00	0.011	1.160	0.448	0.763	1.10	36.2	0.90	40.2	0.78	1.87
13:30	13:30	2.50	37.5	34.9	7.3	35	36.6	0.91	0.011	1.160	0.446	0.768	1.11	38.5	0.82	42.7	0.70	2.23
14:00	14:00	3.00	37.5	34.6	7.3	35	36.6	0.98	0.011	1.180	0.424	0.790	1.06	35.7	0.88	39.7	0.75	2.60
14:30	14:30	3.50	37.5	35.9	7.4	34	36.7	0.94	0.011	1.170	0.418	0.806	1.12	36.4	0.84	40.4	0.67	2.94
15:00	15:00	4.00	37.6	35.4	7.4	33	36.7	0.94	0.012	1.180	0.421	0.798	1.07	35.3	0.84	39.2	0.71	3.29
15:30	15:30	4.50	37.6	35.8	7.4	32	36.8	0.91	0.011	1.190	0.401	0.804	1.01	35.4	0.81	39.3	0.69	3.64
16:00	16:00	5.00	37.6	35.8	7.4	32	36.8	0.87	0.009	1.170	0.384	0.816	1.06	36.8	0.78	40.9	0.61	3.94
16:30	16:30	5.50	37.6	35.7	7.4	32	36.8	0.89	0.008	1.170	0.370	0.846	1.12	36.2	0.80	40.2	0.57	4.22
17:00	17:00	6.00	37.6	35.3	7.4	32	36.8	0.92	0.008	1.190	0.347	0.854	1.01	35.0	0.82	38.9	0.61	4.53
17:30	17:30	6.50	37.5	37.4	7.4	31	36.8	0.97	0.006	1.170	0.303	0.900	1.10	32.0	0.87	35.5	0.52	4.78
18:00	18:00	7.00	37.3	39.9	7.3	31	36.5	0.94	0.006	1.180	0.297	0.910	1.08	33.2	0.84	36.8	0.50	5.03
18:30	18:30	7.50	37.2	38.7	7.4	30	36.8	0.97	0.006	1.180	0.259	0.927	1.00	30.9	0.87	34.4	0.48	5.28
19:00	19:00	8.00	37.2	38.0	7.4	31	36.7	0.94	0.005	1.170	0.246	0.944	1.07	33.2	0.84	36.8	0.42	5.48

----- FLAPNO=2534 DATE=04/06/95 ANIMAL/SIDE=95-207-6-L PHASE=2 FLAPWT=26.35 DOSETIME=10:45 GROUP=3 mg HD MEDVOL=431 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	36.7	40.0	7.3	47	35.9	1.00	0.020	1.160	0.212	1.020	1.37	47.0	0.83	56.6	0.32	0.01
10:00	10:00	-0.75	37.3	38.9	7.3	47	36.6	1.00	0.019	1.160	0.277	0.965	1.32	47.0	0.83	56.6	0.44	0.12

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2534 DATE=04/06/95 ANIMAL/SIDE=95-207-6-L PHASE=2 FLAPWT=26.35 DOSETIME=10:45 GROUP=3 mg HD MEDVOL=431 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:15	-0.50	37.3	35.6	7.3	44	36.5	1.00	0.019	1.150	0.308	0.921	1.26	44.0	0.83	53.0	0.52	0.25
10:30	10:30	-0.25	37.4	36.9	7.3	38	36.6	1.00	0.019	1.150	0.337	0.869	1.13	38.0	0.83	45.8	0.64	0.41
10:45	10:45	0.00	37.3	33.5	7.4	40	36.7	1.00	0.018	1.160	0.365	0.841	1.09	40.0	0.83	48.2	0.73	0.59
11:15	11:15	0.50	37.4	35.3	7.4	35	36.7	1.00	0.017	1.160	0.381	0.809	1.04	35.0	0.83	42.1	0.80	0.99
11:45	11:45	1.00	37.4	34.9	7.2	37	36.7	1.00	0.019	1.150	0.407	0.807	1.13	37.0	0.83	44.6	0.78	1.38
12:15	12:15	1.50	37.4	36.2	7.3	38	36.7	1.00	0.013	1.140	0.418	0.769	1.09	38.0	0.83	45.8	0.84	1.81
12:45	12:45	2.00	37.3	35.5	7.3	40	36.6	1.00	0.011	1.140	0.407	0.757	1.03	40.0	0.83	48.2	0.87	2.24
13:15	13:15	2.50	37.4	37.8	7.3	42	36.6	1.00	0.009	1.160	0.390	0.762	0.96	42.0	0.83	50.6	0.91	2.69
13:45	13:45	3.00	37.3	38.9	7.3	41	36.6	1.00	0.009	1.160	0.373	0.795	1.00	41.0	0.83	49.4	0.83	3.11
14:15	14:15	3.50	37.4	39.0	7.3	43	36.6	1.00	0.008	1.170	0.323	0.845	0.97	43.0	0.83	51.8	0.74	3.48
14:45	14:45	4.00	37.4	38.0	7.3	45	36.7	1.00	0.008	1.170	0.283	0.906	1.04	45.0	0.83	54.2	0.60	3.78
15:15	15:15	4.50	37.4	40.0	7.3	44	36.7	1.00	0.008	1.170	0.276	0.934	1.14	44.0	0.83	53.0	0.54	4.05
15:45	15:45	5.00	37.5	40.2	7.3	40	36.8	1.00	0.008	1.190	0.203	0.977	0.92	40.0	0.83	48.2	0.49	4.29
16:15	16:15	5.50	37.4	39.9	7.4	38	36.7	1.00	0.007	1.180	0.185	1.010	1.05	38.0	0.83	45.8	0.39	4.49
16:45	16:45	6.00	37.5	38.4	7.4	36	36.8	1.00	0.007	1.180	0.136	1.060	1.08	36.0	0.83	43.4	0.27	4.62
17:15	17:15	6.50	37.5	38.9	7.4	35	36.8	1.00	0.005	1.190	0.126	1.070	1.01	35.0	0.83	42.1	0.27	4.76
17:45	17:45	7.00	37.4	40.0	7.4	34	36.8	1.00	0.005	1.180	0.121	1.060	0.97	34.0	0.83	40.9	0.27	4.90
18:15	18:15	7.50	37.3	41.9	7.4	33	36.8	1.00	0.005	1.170	0.114	1.060	0.99	33.0	0.83	39.7	0.25	5.02
18:45	18:45	8.00	37.2	40.9	7.4	34	36.6	1.00	0.003	1.170	0.108	1.070	1.05	34.0	0.83	40.9	0.23	5.13

----- FLAPNO=2536 DATE=04/12/95 ANIMAL/SIDE=95-1-4-L PHASE=2 FLAPWT=32.79 DOSETIME=10:29 GROUP=15 mg HD MEDVOL=457 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.98	37.0	39.0	7.2	28	35.9	0.94	0.018	1.130	0.208	0.947	1.04	29.8	0.83	33.8	0.31	0.01
9:45	9:45	-0.73	37.3	37.8	7.2	27	36.3	0.91	0.018	1.160	0.245	0.924	0.96	29.8	0.80	33.9	0.39	0.11
10:00	10:02	-0.45	37.4	38.3	7.3	28	36.4	0.95	0.018	1.150	0.267	0.899	0.99	29.6	0.83	33.6	0.43	0.23
10:15	10:15	-0.23	38.2	37.6	7.3	28	36.7	0.94	0.017	1.140	0.292	0.869	1.01	29.8	0.83	33.8	0.47	0.33
10:30	10:29	0.00	37.7	37.2	7.3	29	36.7	0.94	0.018	1.140	0.303	0.859	1.01	30.9	0.83	35.0	0.48	0.44
11:00	11:00	0.52	37.7	37.4	7.3	30	36.6	0.98	0.017	1.140	0.319	0.847	1.03	30.6	0.86	34.8	0.53	0.72
11:30	11:30	1.02	37.6	37.8	7.3	30	36.6	1.03	0.015	1.140	0.317	0.838	1.00	29.1	0.91	33.1	0.57	1.00
12:00	11:58	1.48	37.6	38.1	7.3	31	36.6	0.99	0.014	1.140	0.335	0.816	0.99	31.5	0.87	35.7	0.58	1.27
12:30	12:30	2.02	37.7	37.9	7.3	34	36.6	1.01	0.013	1.150	0.309	0.831	0.93	33.7	0.89	38.2	0.59	1.59
13:00	13:00	2.52	37.7	36.1	7.4	33	36.6	1.07	0.012	1.150	0.343	0.864	1.16	31.0	0.94	35.2	0.56	1.87
13:30	13:30	3.02	37.7	36.3	7.3	33	36.6	1.05	0.011	1.150	0.330	0.842	1.04	31.4	0.92	35.7	0.59	2.16
14:00	14:00	3.52	37.7	36.7	7.4	33	36.7	1.03	0.010	1.150	0.327	0.863	1.10	32.2	0.90	36.6	0.54	2.43
14:30	14:30	4.02	37.8	35.8	7.4	33	36.7	0.99	0.009	1.150	0.313	0.859	1.04	33.5	0.87	35.0	0.52	2.69
15:00	15:00	4.52	37.7	35.1	7.4	33	36.7	1.06	0.009	1.150	0.293	0.863	0.99	31.1	0.93	35.4	0.56	2.97
15:30	15:30	5.02	37.7	36.2	7.4	33	36.6	1.10	0.008	1.140	0.285	0.869	1.02	30.0	0.97	34.1	0.55	3.24
16:00	16:00	5.52	37.7	35.7	7.3	33	36.6	0.97	0.011	1.150	0.274	0.893	1.02	34.0	0.85	38.6	0.46	3.47
16:30	16:30	6.02	37.7	35.8	7.3	32	36.5	1.02	0.012	1.160	0.275	0.892	0.98	31.4	0.90	35.6	0.50	3.72

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2536 DATE=04/12/95 ANIMAL/SIDE=95-1-4-L PHASE=2 FLAPWT=32.79 DOSETIME=10:29 GROUP=15 mg HD MEDVOL=457 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	6.52	37.7	35.4	7.4	32	36.4	1.00	0.013	1.160	0.271	0.897	0.98	32.2	0.88	36.5	0.48	3.96
17:30	17:30	7.02	37.6	35.7	7.4	32	36.4	0.99	0.015	1.150	0.265	0.888	0.95	32.3	0.87	36.7	0.47	4.20
18:00	18:00	7.52	37.5	35.9	7.4	31	36.3	1.07	0.016	1.150	0.272	0.869	0.91	29.0	0.94	32.9	0.55	4.47
18:30	18:30	8.02	37.6	36.4	7.4	31	36.4	1.08	0.017	1.150	0.281	0.851	0.88	28.7	0.95	32.6	0.59	4.77

----- FLAPNO=2537 DATE=04/13/95 ANIMAL/SIDE=95-205-7-R PHASE=2 FLAPWT=35.45 DOSETIME=11:01 GROUP=15 mg HD MEDVOL=482 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.02	36.6	40.0	7.3	34	36.3	1.00	0.023	1.130	0.291	0.990	1.91	34.0	0.93	36.6	0.24	0.01
10:15	10:15	-0.77	36.4	40.4	7.3	36	35.7	1.00	0.023	1.140	0.364	0.887	1.35	36.0	0.93	38.8	0.43	0.12
10:30	10:31	-0.50	36.5	40.4	7.3	38	35.8	1.00	0.023	1.140	0.406	0.828	1.23	38.0	0.93	40.9	0.53	0.26
10:45	10:45	-0.27	36.6	40.3	7.3	35	35.9	1.00	0.025	1.150	0.445	0.763	1.09	35.0	0.93	37.7	0.66	0.41
11:00	11:01	0.00	36.5	39.8	7.3	34	35.9	1.00	0.025	1.140	0.448	0.746	1.07	34.0	0.93	36.6	0.67	0.59
11:30	11:30	0.48	36.7	39.4	7.3	34	35.9	1.00	0.024	1.130	0.463	0.735	1.11	34.0	0.93	36.6	0.67	0.91
12:00	12:00	0.98	36.7	39.1	7.3	34	35.9	1.00	0.024	1.130	0.477	0.723	1.11	34.0	0.93	36.6	0.69	1.26
12:30	12:30	1.48	36.7	39.4	7.3	35	35.9	1.00	0.024	1.140	0.481	0.702	1.04	35.0	0.93	37.7	0.74	1.63
13:00	13:00	1.98	36.8	40.0	7.3	37	36.0	1.00	0.024	1.150	0.480	0.721	1.06	37.0	0.93	39.8	0.73	1.99
13:30	13:30	2.48	36.9	38.4	7.3	38	36.0	1.00	0.022	1.150	0.416	0.771	1.04	38.0	0.93	40.9	0.64	2.31
14:00	14:00	2.98	36.8	38.7	7.3	40	36.0	1.00	0.022	1.150	0.358	0.830	1.05	40.0	0.93	43.1	0.54	2.58
14:30	14:30	3.48	36.8	38.4	7.3	43	35.9	1.00	0.021	1.150	0.313	0.885	1.10	43.0	0.93	46.3	0.45	2.81
15:00	15:00	3.98	36.8	38.9	7.4	46	35.9	1.00	0.020	1.150	0.257	0.915	1.01	46.0	0.93	49.5	0.40	3.00
15:30	15:30	4.48	36.8	38.0	7.4	46	35.9	1.00	0.020	1.160	0.246	0.961	1.14	46.0	0.93	49.5	0.34	3.17
16:00	16:00	4.98	36.8	38.5	7.4	47	35.9	1.00	0.019	1.160	0.200	0.983	1.02	47.0	0.93	50.6	0.30	3.32
16:30	16:30	5.48	36.9	38.5	7.4	45	35.9	1.00	0.019	1.170	0.202	1.030	1.31	45.0	0.93	48.5	0.24	3.44
17:00	17:00	5.98	37.0	38.5	7.4	45	36.1	1.00	0.019	1.160	0.171	1.010	1.01	45.0	0.93	48.5	0.25	3.57
17:30	17:30	6.48	37.0	38.5	7.4	43	36.2	1.00	0.018	1.170	0.177	1.070	1.59	43.0	0.93	46.3	0.17	3.65
18:00	18:00	6.98	37.0	38.3	7.4	47	36.2	1.00	0.018	1.170	0.155	1.030	0.98	47.0	0.93	50.6	0.24	3.77
18:30	18:30	7.48	37.0	38.8	7.4	41	36.1	1.00	0.015	1.160	0.150	1.020	0.96	41.0	0.93	44.1	0.24	3.89
19:00	19:00	7.98	37.0	38.0	7.4	44	36.2	1.00	0.008	1.150	0.143	1.070	1.69	44.0	0.93	47.4	0.14	3.96

----- FLAPNO=2538 DATE=04/13/95 ANIMAL/SIDE=95-205-7-L PHASE=2 FLAPWT=31.29 DOSETIME=10:43 GROUP=EtoH MEDVOL=435 NCSU=No -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0.97	35.9	39.7	7.4	38	35.5	1.09	0.023	1.130	0.121	1.070	1.63	35.0	0.91	41.8	0.12	0.01
10:00	10:00	-0.72	36.6	38.5	7.4	37	36.1	1.03	0.023	1.140	0.139	1.040	1.16	36.1	0.86	43.1	0.20	0.06
10:15	10:15	-0.47	36.6	38.4	7.3	41	35.9	1.02	0.023	1.150	0.150	1.030	1.06	40.2	0.85	48.0	0.23	0.12
10:30	10:30	-0.22	36.7	38.2	7.3	44	35.9	1.02	0.023	1.140	0.181	0.974	0.95	43.3	0.85	51.7	0.32	0.20

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2538 DATE=04/13/95 ANIMAL/SIDE=95-205-7-L PHASE=2 FLAPWT=31.29 DOSETIME=10:43 GROUP=EtoH MEDVOL=435 NCSU=No -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:45	10:43	0.00	36.7	37.9	7.3	43	35.9	1.05	0.023	1.140	0.201	0.991	1.19	41.0	0.88	48.9	0.30	0.26
11:15	11:15	0.53	36.7	38.2	7.3	41	35.9	1.05	0.024	1.160	0.198	1.020	1.24	42.5	0.88	46.6	0.28	0.41
11:45	11:45	1.03	36.6	37.5	7.3	45	35.8	1.06	0.023	1.160	0.157	1.060	1.34	42.5	0.89	50.7	0.20	0.52
12:15	12:15	1.53	36.5	38.8	7.3	39	35.8	1.06	0.022	1.150	0.251	0.968	1.26	37.0	0.88	44.1	0.37	0.70
12:45	12:45	2.03	36.5	38.3	7.3	38	35.8	1.04	0.021	1.150	0.227	0.988	1.27	36.7	0.87	43.8	0.32	0.86
13:15	13:15	2.53	36.6	37.7	7.3	39	35.8	1.03	0.020	1.160	0.233	0.983	1.20	38.0	0.86	45.4	0.35	1.03
13:45	13:45	3.03	36.7	36.5	7.3	38	36.0	1.03	0.019	1.170	0.202	0.997	1.06	36.9	0.86	44.0	0.34	1.21
14:15	14:15	3.53	36.8	36.6	7.3	39	36.1	0.99	0.019	1.170	0.206	0.993	1.06	39.6	0.83	47.2	0.33	1.37
14:45	14:45	4.03	36.8	35.2	7.4	40	36.2	0.95	0.018	1.170	0.207	1.010	1.18	42.1	0.80	50.2	0.29	1.52
15:15	15:15	4.53	36.8	36.3	7.4	39	36.1	0.95	0.018	1.170	0.191	1.020	1.15	41.1	0.80	49.0	0.27	1.65
15:45	15:45	5.03	36.8	36.4	7.4	30	36.1	0.96	0.017	1.180	0.090	1.130	1.44	31.4	0.80	37.5	0.09	1.70
16:15	16:15	5.53	36.8	36.6	7.4	29	36.2	0.94	0.017	1.170	0.113	1.090	1.20	31.0	0.78	37.0	0.14	1.77
16:45	16:45	6.03	36.9	35.5	7.4	29	36.2	0.95	0.017	1.170	0.139	1.060	1.11	30.7	0.79	36.6	0.20	1.87
17:15	17:15	6.53	36.9	35.9	7.4	29	36.2	0.96	0.016	1.170	0.154	1.060	1.05	30.4	0.80	36.2	0.24	1.99
17:45	17:45	7.03	36.9	36.2	7.4	29	36.2	0.96	0.016	1.170	0.148	1.070	1.32	30.4	0.80	36.2	0.18	2.08
18:15	18:15	7.53	36.9	36.6	7.4	29	36.2	0.96	0.016	1.180	0.151	1.060	1.13	30.2	0.80	36.0	0.22	2.19
18:45	18:45	8.03	37.0	35.9	7.4	29	36.3	0.97	0.014	1.170	0.149	1.070	1.35	29.9	0.81	35.7	0.19	2.29

----- FLAPNO=2540 DATE=04/19/95 ANIMAL/SIDE=95-208-5-L PHASE=2 FLAPWT=25.83 DOSETIME=10:30 GROUP=EtoH MEDVOL=410 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.6	39.0	7.3	34	35.6	1.04	0.020	1.120	0.259	0.854	0.90	32.7	0.82	41.4	0.64	0.01
9:45	9:45	-0.75	36.8	37.1	7.3	34	36.1	1.04	0.019	1.130	0.305	0.812	0.90	32.9	0.82	41.6	0.76	0.20
10:00	10:00	-0.50	37.0	36.2	7.3	33	36.2	1.00	0.019	1.150	0.360	0.780	0.92	33.2	0.79	42.0	0.86	0.41
10:15	10:15	-0.25	37.1	36.4	7.3	33	36.3	1.02	0.019	1.150	0.428	0.719	0.95	32.5	0.80	41.2	1.02	0.67
10:30	10:30	0.00	36.9	37.8	7.3	33	36.2	1.00	0.019	1.140	0.454	0.697	0.98	33.0	0.79	41.8	1.03	0.93
11:00	11:00	0.50	37.2	35.3	7.3	32	36.3	0.94	0.019	1.160	0.463	0.695	0.95	34.0	0.74	43.1	1.02	1.43
11:30	11:30	1.00	37.2	35.9	7.3	32	36.3	0.93	0.018	1.150	0.481	0.669	0.96	34.6	0.73	43.8	1.03	1.95
12:00	12:00	1.50	37.1	36.4	7.3	31	36.3	0.99	0.017	1.140	0.500	0.693	1.08	31.3	0.78	39.6	1.03	2.46
12:30	12:30	2.00	37.2	36.5	7.3	32	36.2	0.95	0.016	1.140	0.494	0.662	1.00	33.9	0.75	42.9	1.05	2.99
13:00	13:00	2.50	37.1	36.5	7.3	33	36.3	0.98	0.015	1.140	0.511	0.682	1.08	33.7	0.77	42.6	1.04	3.51
13:30	13:30	3.00	37.1	36.5	7.3	34	36.2	1.00	0.015	1.150	0.496	0.676	1.01	34.2	0.79	43.3	1.10	4.06
14:00	14:00	3.50	37.1	36.2	7.3	36	36.2	0.95	0.014	1.150	0.470	0.712	1.04	38.1	0.75	48.2	0.96	4.54
14:30	14:30	4.00	37.1	36.4	7.3	36	36.3	1.01	0.014	1.140	0.410	0.758	1.04	35.6	0.80	45.1	0.90	4.99
15:00	15:00	4.50	37.1	35.8	7.3	40	36.2	1.00	0.014	1.150	0.358	0.811	1.01	40.0	0.79	50.6	0.79	5.38
15:30	15:30	5.00	37.1	36.9	7.3	41	36.2	0.99	0.015	1.140	0.323	0.861	1.10	41.4	0.78	52.4	0.64	5.70
16:00	16:00	5.50	37.2	36.4	7.3	40	36.3	1.01	0.016	1.150	0.297	0.918	1.21	39.8	0.79	50.4	0.54	5.97
16:30	16:30	6.00	37.2	36.8	7.3	40	36.3	1.00	0.017	1.140	0.258	0.916	1.08	40.0	0.79	50.6	0.52	6.23
17:00	17:00	6.50	37.2	35.6	7.3	39	36.4	0.98	0.018	1.140	0.246	0.937	1.12	39.8	0.77	50.4	0.46	6.46
17:30	17:30	7.00	37.2	33.9	7.3	39	36.4	0.98	0.019	1.120	0.233	0.912	1.03	39.8	0.77	50.4	0.47	6.70

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2540 DATE=04/19/95 ANIMAL/SIDE=95-208-5-L PHASE=2 FLAPWT=25.83 DOSETIME=10:30 GROUP=ECHO MEDVOL=410 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:00	18:00	7:50	37.3	35.5	7.3	38	36.4	0.98	0.021	1.130	0.235	0.920	1.02	39.0	0.77	49.3	0.48	6.94
18:30	18:30	8:00	37.3	35.3	7.3	37	36.6	0.97	0.019	1.120	0.232	0.909	1.01	38.1	0.77	48.3	0.48	7.18

----- FLAPNO=2541 DATE=04/20/95 ANIMAL/SIDE=95-212-7-R PHASE=2 FLAPWT=27.25 DOSETIME=10:42 GROUP=F15 mg HD MEDVOL=408 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0:95	37.2	37.5	7.3	43	36.7	1.00	0.025	1.110	0.126	0.984	0.80	43.0	0.79	54.7	0.28	0.01
10:00	10:00	-0:70	39.2	35.5	7.4	36	38.8	0.97	0.027	1.130	0.200	0.944	0.93	37.1	0.76	47.2	0.40	0.11
10:15	10:15	-0:45	36.8	37.9	7.3	33	35.7	0.99	0.029	1.110	0.209	0.920	0.95	33.5	0.77	42.6	0.41	0.21
10:30	10:29	-0:22	36.4	36.5	7.3	32	36.4	1.04	0.029	1.120	0.184	0.946	0.89	30.8	0.82	39.1	0.40	0.31
10:45	10:42	0:00	37.6	36.7	7.4	31	36.6	0.97	0.030	1.100	0.189	0.949	1.05	32.0	0.76	40.7	0.32	0.38
11:15	11:15	0:55	37.7	36.5	7.3	30	36.8	0.95	0.033	1.110	0.201	0.954	1.08	31.6	0.75	40.2	0.33	0.55
11:45	11:45	1:05	37.8	36.4	7.3	29	36.8	0.95	0.035	1.110	0.130	1.020	1.06	30.7	0.74	39.0	0.19	0.65
12:15	12:15	1:55	37.7	36.6	7.3	29	36.7	0.96	0.035	1.110	0.150	0.998	1.03	30.2	0.75	38.4	0.24	0.77
12:45	12:45	2:05	37.7	36.2	7.3	28	36.7	0.99	0.036	1.110	0.144	0.996	0.95	28.4	0.77	36.2	0.25	0.89
13:15	13:15	2:55	37.7	36.6	7.3	27	36.7	0.99	0.040	1.090	0.130	1.010	1.12	27.3	0.78	34.7	0.17	0.98
13:45	13:45	3:05	37.6	39.2	7.4	27	36.6	1.02	0.042	1.120	0.120	1.020	0.78	26.5	0.80	33.7	0.22	1.09
14:15	14:15	3:55	37.5	38.0	7.3	27	36.5	1.01	0.043	1.100	0.111	1.030	0.97	26.9	0.79	34.2	0.15	1.17
14:45	14:45	4:05	37.5	38.3	7.3	28	36.5	1.01	0.044	1.090	0.111	1.030	1.12	27.9	0.79	35.4	0.13	1.23
15:15	15:15	4:55	37.5	39.2	7.4	29	36.5	1.00	0.046	1.100	0.107	1.040	1.02	29.0	0.79	36.9	0.13	1.30
15:45	15:45	5:05	37.6	39.2	7.3	28	36.6	0.99	0.049	1.110	0.103	1.030	0.67	28.3	0.78	36.0	0.17	1.39
16:15	16:15	5:55	37.5	40.9	7.3	29	36.4	1.01	0.048	1.100	0.107	1.030	0.84	28.9	0.79	36.7	0.15	1.46
16:45	16:45	6:05	37.5	41.2	7.3	29	36.4	0.97	0.048	1.110	0.109	1.040	0.87	30.1	0.76	38.2	0.15	1.54
17:15	17:15	6:55	37.5	40.9	7.4	29	36.4	0.98	0.047	1.100	0.114	1.040	1.12	29.7	0.77	37.8	0.13	1.60
17:45	17:45	7:05	37.5	41.3	7.3	28	36.4	0.97	0.056	1.010	0.107	1.150	-	28.9	0.76	36.7	0.00	1.60
18:15	18:15	7:55	37.5	40.7	7.4	28	36.6	0.99	0.060	1.060	0.087	1.050	2.70	28.3	0.78	36.0	0.02	1.61
18:45	18:45	8:05	37.6	40.8	7.3	28	36.6	0.96	0.059	1.050	0.093	1.020	1.13	29.3	0.75	37.3	0.06	1.65

----- FLAPNO=2542 DATE=04/20/95 ANIMAL/SIDE=95-212-7-L PHASE=2 FLAPWT=24.47 DOSETIME=10:29 GROUP=F15 mg HD MEDVOL=505 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0:98	36.0	41.7	7.3	59	35.1	1.00	0.026	1.120	0.139	0.973	0.77	59.0	0.97	60.6	0.36	0.01
9:45	9:45	-0:73	36.7	41.1	7.4	52	35.8	1.00	0.027	1.120	0.178	0.954	0.91	52.0	0.97	53.4	0.41	0.11
10:00	10:00	-0:48	36.8	40.0	7.4	53	35.8	1.00	0.027	1.110	0.246	0.897	1.03	53.0	0.97	54.5	0.52	0.24
10:15	10:15	-0:23	36.6	40.2	7.4	51	35.6	1.00	0.027	1.120	0.265	0.889	1.03	51.0	0.97	52.4	0.57	0.38
10:30	10:29	0:00	36.8	40.2	7.4	49	35.7	1.00	0.028	1.130	0.267	0.869	0.92	49.0	0.97	50.4	0.64	0.53
11:00	11:00	0:52	36.9	39.7	7.4	48	35.9	1.00	0.028	1.120	0.285	0.876	1.05	48.0	0.97	49.3	0.60	0.84

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2542 DATE=04/20/95 ANIMAL/SIDE=95-212-7-L PHASE=2 FLAPWT=24.47 DOSETIME=10:29 GROUP=15 mg HD MEDVOL=505 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:30	11:30	1.02	36.8	39.6	7.4	45	35.8	1.00	0.030	1.120	0.279	0.890	1.08	45.0	0.97	46.2	0.56	1.12
12:00	12:00	1.52	36.9	40.4	7.3	49	35.9	1.00	0.031	1.120	0.257	0.925	1.16	49.0	0.97	50.4	0.48	1.36
12:30	12:30	2.02	37.0	40.3	7.4	47	36.0	1.00	0.032	1.140	0.256	0.914	0.99	47.0	0.97	48.3	0.55	1.64
13:00	13:00	2.52	36.9	40.9	7.3	50	36.1	1.00	0.032	1.120	0.267	0.927	1.22	50.0	0.97	51.4	0.47	1.88
13:30	13:30	3.02	37.0	40.9	7.4	53	36.0	1.00	0.032	1.130	0.237	0.955	1.17	53.0	0.97	54.5	0.43	2.09
14:00	14:00	3.52	37.0	40.8	7.4	50	36.0	1.00	0.031	1.130	0.223	0.955	1.10	50.0	0.97	51.4	0.43	2.31
14:30	14:30	4.02	36.9	41.4	7.4	50	36.0	1.00	0.030	1.130	0.200	0.967	1.04	50.0	0.97	51.4	0.40	2.51
15:00	15:00	4.52	36.9	41.6	7.4	50	35.9	1.00	0.028	1.130	0.183	0.971	0.97	50.0	0.97	51.4	0.39	2.70
15:30	15:30	5.02	36.9	41.1	7.4	47	35.9	1.00	0.026	1.140	0.173	0.992	0.99	47.0	0.97	48.3	0.36	2.88
16:00	16:00	5.52	36.9	42.4	7.4	43	36.0	1.00	0.025	1.130	0.168	0.987	1.00	43.0	0.97	44.2	0.35	3.06
16:30	16:30	6.02	37.0	43.5	7.4	43	36.1	1.00	0.027	1.140	0.162	0.995	0.93	43.0	0.97	44.2	0.36	3.24
17:00	17:00	6.52	36.9	44.4	7.4	41	36.0	1.00	0.028	1.130	0.165	0.983	0.93	41.0	0.97	42.1	0.36	3.42
17:30	17:30	7.02	37.0	43.7	7.4	39	35.9	1.00	0.028	1.130	0.158	0.985	0.90	39.0	0.97	40.1	0.36	3.59
18:00	18:00	7.52	37.0	43.9	7.4	37	36.0	1.00	0.023	1.110	0.152	0.973	0.94	37.0	0.97	38.0	0.34	3.76
18:30	18:30	8.02	37.0	44.4	7.4	36	36.0	1.00	0.033	1.060	0.166	0.926	0.99	36.0	0.97	37.0	0.33	3.93

----- FLAPNO=2543 DATE=04/26/95 ANIMAL/SIDE=95-214-11-R PHASE=2 FLAPWT=23.81 DOSETIME=10:41 GROUP=15 mg HD MEDVOL=457 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0.93	36.7	43.7	7.3	75	36.2	1.00	0.021	1.160	0.076	1.060	0.55	75.0	0.88	85.2	0.25	0.01
10:00	10:00	-0.68	36.0	43.8	7.3	31	35.2	1.00	0.022	1.160	0.299	0.830	0.84	31.0	0.88	35.2	0.83	0.22
10:15	10:15	-0.43	36.2	42.4	7.3	30	35.5	1.00	0.021	1.170	0.343	0.825	0.93	30.0	0.88	34.1	0.87	0.44
10:30	10:28	-0.22	36.2	42.0	7.3	27	35.5	1.00	0.022	1.170	0.374	0.792	0.93	27.0	0.88	30.7	0.95	0.64
10:45	10:41	0.00	36.2	43.9	7.3	27	35.5	1.00	0.024	1.150	0.372	0.794	0.98	27.0	0.88	30.7	0.90	0.84
11:15	11:15	0.57	36.2	41.2	7.4	30	35.6	1.00	0.022	1.160	0.393	0.772	0.96	30.0	0.88	34.1	0.98	1.39
11:45	11:45	1.07	36.3	39.7	7.4	29	35.6	1.00	0.024	1.150	0.397	0.780	1.01	29.0	0.88	32.9	0.93	1.86
12:15	12:15	1.57	36.4	39.1	7.4	30	35.7	1.00	0.023	1.140	0.398	0.772	1.02	30.0	0.88	34.1	0.93	2.32
12:45	12:45	2.07	36.5	40.0	7.4	30	35.8	1.00	0.024	1.150	0.362	0.812	1.00	30.0	0.88	34.1	0.85	2.75
13:15	13:15	2.57	36.6	39.3	7.4	31	35.9	1.00	0.024	1.150	0.409	0.771	1.02	31.0	0.88	35.2	0.96	3.22
13:45	13:45	3.07	36.7	37.2	7.4	32	36.0	1.00	0.024	1.130	0.406	0.759	1.03	32.0	0.88	36.3	0.93	3.69
14:15	14:15	3.57	36.5	41.9	7.4	32	35.7	1.00	0.024	1.140	0.395	0.770	1.00	32.0	0.88	36.3	0.93	4.16
14:45	14:45	4.07	36.4	41.3	7.4	32	35.6	1.00	0.021	1.150	0.369	0.798	0.99	32.0	0.88	36.3	0.89	4.60
15:15	15:15	4.57	36.4	41.7	7.4	33	35.7	1.00	0.024	1.150	0.341	0.809	0.93	33.0	0.88	37.5	0.86	5.03
15:45	15:45	5.07	36.4	40.1	7.4	37	35.7	1.00	0.024	1.150	0.318	0.844	0.96	37.0	0.88	42.0	0.77	5.42
16:15	16:15	5.57	36.4	40.4	7.4	35	35.7	1.00	0.025	1.150	0.311	0.893	1.11	35.0	0.88	39.7	0.65	5.74
16:45	16:45	6.07	36.3	42.8	7.4	35	35.7	1.00	0.024	1.150	0.286	0.870	0.94	35.0	0.88	39.7	0.71	6.09
17:15	17:15	6.57	36.5	40.2	7.4	35	35.5	1.00	0.023	1.120	0.277	0.877	1.05	35.0	0.88	39.7	0.61	6.40
17:45	17:45	7.07	36.7	40.3	7.4	36	36.0	1.00	0.020	1.090	0.254	0.883	1.13	36.0	0.88	40.9	0.52	6.66
18:15	18:15	7.57	36.8	40.3	7.4	36	36.1	1.00	0.022	1.120	0.243	0.899	1.00	36.0	0.88	40.9	0.56	6.94
18:45	18:45	8.07	36.8	40.2	7.4	36	36.0	1.00	0.019	1.110	0.231	0.901	1.01	36.0	0.88	40.9	0.53	7.20

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2544 DATE=04/26/95 ANIMAL/SIDE=95-214-11-L PHASE=2 FLAPWT=20.92 DOSETIME=10:26 GROUP=15 mg HD MEDVOL=450 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.93	36.4	36.8	7.4	40	35.8	1.05	0.026	1.100	0.163	0.945	0.88	38.3	0.91	44.1	0.46	0.01
9:45	9:45	-0.68	37.1	36.2	7.3	48	36.1	1.08	0.022	1.140	0.177	0.952	0.82	44.4	0.94	51.3	0.58	0.16
10:00	10:00	-0.43	37.2	36.9	7.3	57	36.3	1.00	0.022	1.160	0.230	0.936	0.93	57.3	0.86	66.1	0.64	0.32
10:15	10:15	-0.18	37.3	35.4	7.3	55	36.3	1.01	0.021	1.140	0.323	0.834	0.99	54.5	0.88	62.8	0.89	0.54
10:30	10:26	0.00	37.3	35.1	7.3	54	36.3	0.90	0.022	1.140	0.364	0.798	1.00	60.0	0.78	69.2	0.88	0.70
11:00	11:00	0.57	37.3	35.7	7.4	54	36.2	0.92	0.023	1.140	0.388	0.776	1.00	58.7	0.80	67.7	0.96	1.24
11:30	11:30	1.07	37.5	35.0	7.3	56	36.3	0.91	0.025	1.150	0.379	0.796	1.00	61.5	0.79	71.0	0.92	1.71
12:00	12:00	1.57	37.5	33.6	7.4	67	36.3	0.91	0.025	1.140	0.345	0.826	1.02	73.6	0.79	84.9	0.82	2.11
12:30	12:30	2.07	37.6	32.5	7.4	88	36.4	0.93	0.026	1.140	0.347	0.809	0.97	94.6	0.81	109.1	0.88	2.56
13:00	13:00	2.57	37.6	33.6	7.4	88	36.5	0.93	0.026	1.150	0.329	0.839	0.97	95.1	0.80	109.7	0.83	2.97
13:30	13:30	3.07	37.7	32.7	7.4	92	36.6	1.06	0.028	1.160	0.319	0.870	1.00	87.2	0.91	100.6	0.88	3.41
14:00	14:00	3.57	37.6	35.7	7.4	109	36.4	0.97	0.027	1.150	0.273	0.926	1.10	112.4	0.84	129.6	0.62	3.72
14:30	14:30	4.07	37.9	35.2	7.4	104	36.4	0.94	0.028	1.150	0.205	0.967	0.97	111.2	0.81	128.3	0.49	3.96
15:00	15:00	4.57	37.5	35.8	7.3	101	36.4	0.95	0.028	1.150	0.195	1.000	1.11	106.9	0.82	123.3	0.41	4.17
15:30	15:30	5.07	37.5	35.6	7.4	95	36.4	0.94	0.029	1.150	0.191	0.994	1.04	101.1	0.82	116.6	0.42	4.38
16:00	16:00	5.57	37.5	34.6	7.4	90	36.4	0.95	0.027	1.150	0.181	1.000	1.03	95.2	0.82	109.8	0.41	4.58
16:30	16:30	6.07	37.4	35.1	7.4	88	36.4	0.99	0.027	1.150	0.176	1.010	1.06	88.9	0.86	102.5	0.40	4.78
17:00	17:00	6.57	37.5	33.9	7.4	85	36.4	0.98	0.027	1.160	0.169	0.997	0.87	87.2	0.85	100.5	0.46	5.01
17:30	17:30	7.07	37.6	34.8	7.4	78	36.6	1.04	0.026	1.140	0.167	1.010	1.08	75.0	0.90	86.5	0.39	5.20
18:00	18:00	7.57	37.7	32.4	7.4	74	36.7	0.99	0.024	1.130	0.169	1.000	1.12	74.7	0.86	86.2	0.37	5.39
18:30	18:30	8.07	37.7	33.7	7.4	72	36.7	0.99	0.019	1.120	0.165	0.971	0.98	73.1	0.85	84.3	0.42	5.60

----- FLAPNO=2545 DATE=04/27/95 ANIMAL/SIDE=95-209-4-R PHASE=2 FLAPWT=25.84 DOSETIME=10:45 GROUP=EtoH MEDVOL=457 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	36.2	38.9	7.4	40	35.0	1.08	0.031	1.120	0.292	0.966	1.69	37.0	0.95	42.1	0.39	0.01
10:00	10:00	-0.75	37.5	37.3	7.4	39	36.1	1.09	0.028	1.130	0.323	0.901	1.29	35.9	0.96	40.8	0.58	0.15
10:15	10:15	-0.50	37.7	36.2	7.4	39	36.4	1.11	0.028	1.130	0.351	0.854	1.17	35.1	0.98	39.9	0.71	0.33
10:30	10:30	-0.25	37.8	35.6	7.4	38	36.6	1.05	0.030	1.130	0.385	0.806	1.10	36.4	0.92	41.3	0.79	0.53
10:45	10:45	0.00	37.8	36.0	7.4	30	36.6	1.07	0.031	1.130	0.415	0.769	1.06	28.2	0.94	32.0	0.89	0.75
11:15	11:15	0.50	37.9	35.9	7.4	36	36.6	1.05	0.033	1.130	0.429	0.723	0.97	34.3	0.92	38.9	0.99	1.25
11:45	11:45	1.00	38.0	36.5	7.4	37	36.7	1.06	0.037	1.130	0.463	0.698	0.99	35.1	0.93	39.8	1.06	1.78
12:15	12:15	1.50	38.0	35.9	7.4	39	36.7	1.01	0.038	1.110	0.474	0.677	1.01	38.6	0.89	43.9	1.02	2.28
12:45	12:45	2.00	37.7	36.9	7.4	41	36.5	1.04	0.039	1.120	0.498	0.705	1.11	39.4	0.92	44.8	1.00	2.79
13:15	13:15	2.50	38.1	35.4	7.4	47	36.9	1.02	0.041	1.120	0.452	0.744	1.09	46.1	0.90	52.3	0.89	3.23
13:45	13:45	3.00	38.2	38.2	7.4	49	36.8	1.00	0.038	1.110	0.385	0.753	0.97	49.2	0.88	55.9	0.82	3.64
14:15	14:15	3.50	38.1	37.5	7.4	51	36.7	1.03	0.044	1.110	0.361	0.790	0.99	49.8	0.90	56.5	0.76	4.02
14:45	14:45	4.00	38.0	37.6	7.4	53	36.7	1.04	0.044	1.120	0.347	0.827	1.03	51.2	0.91	58.2	0.70	4.38
15:15	15:15	4.50	37.9	36.3	7.4	54	36.7	1.02	0.044	1.110	0.336	0.861	1.17	52.9	0.90	60.1	0.59	4.67
15:45	15:45	5.00	38.0	36.0	7.4	54	36.7	1.03	0.041	1.140	0.304	0.868	0.97	52.4	0.91	59.5	0.65	5.00
16:15	16:15	5.50	37.9	36.0	7.4	53	36.7	1.03	0.039	1.120	0.291	0.875	1.03	51.7	0.90	58.7	0.58	5.29

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2545 DATE=04/27/95 ANIMAL/SIDE=95-209-4-R PHASE=2 FLAPWT=25.84 DOSETIME=10:45 GROUP=EtoH MEDVOL=457 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:45	16:45	6.00	38.0	36.0	7.4	52	36.7	0.97	0.039	1.120	0.283	0.878	1.01	53.9	0.85	61.2	0.54	5.56
17:15	17:15	6.50	38.0	36.2	7.4	41	36.7	1.01	0.040	1.110	0.272	0.888	1.05	40.6	0.89	46.1	0.52	5.82
17:45	17:45	7.00	38.2	35.2	7.4	49	36.9	0.99	0.039	1.100	0.265	0.891	1.08	49.5	0.87	56.2	0.48	6.06
18:15	18:15	7.50	37.9	35.3	7.3	49	36.7	1.00	0.040	1.090	0.265	0.900	1.18	49.2	0.88	55.9	0.44	6.28
18:45	18:45	8.00	37.9	35.4	7.4	48	36.6	1.04	0.039	1.080	0.258	0.881	1.10	46.2	0.92	52.4	0.48	6.52

----- FLAPNO=2546 DATE=04/27/95 ANIMAL/SIDE=95-209-4-L PHASE=2 FLAPWT=25.6 DOSETIME=10:15 GROUP=EtoH MEDVOL=337 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	33.7	44.2	7.3	57	33.1	1.14	0.032	1.140	0.341	0.960	1.72	50.0	0.74	77.0	0.48	0.01
9:30	9:30	-0.75	35.2	42.4	7.3	50	34.6	1.20	0.024	1.140	0.351	0.895	1.33	41.7	0.78	64.2	0.69	0.18
9:45	9:45	-0.50	35.7	42.2	7.3	46	35.1	0.96	0.025	1.140	0.405	0.820	1.19	48.2	0.62	74.2	0.72	0.36
10:00	10:00	-0.25	35.9	42.4	7.3	41	35.3	0.99	0.026	1.150	0.447	0.761	1.08	41.4	0.64	63.8	0.90	0.59
10:15	10:15	0.00	36.0	42.3	7.3	40	35.5	0.99	0.027	1.140	0.481	0.688	1.00	40.6	0.64	62.5	1.04	0.85
10:45	10:45	0.50	36.2	40.6	7.4	43	35.4	1.30	0.030	1.130	0.481	0.698	1.04	33.1	0.84	50.9	1.32	1.51
11:15	11:15	1.00	36.4	41.1	7.4	43	35.7	1.12	0.032	1.140	0.506	0.662	0.99	38.6	0.72	59.4	1.25	2.13
11:45	11:45	1.50	36.4	42.0	7.4	48	35.7	1.21	0.033	1.120	0.477	0.702	1.05	39.8	0.78	61.3	1.18	2.72
12:15	12:15	2.00	36.5	42.6	7.4	47	35.8	0.98	0.037	1.120	0.477	0.702	1.05	48.0	0.64	73.9	0.96	3.20
12:45	12:45	2.50	36.5	42.6	7.4	50	35.9	0.90	0.041	1.120	0.417	0.742	0.99	55.6	0.58	85.6	0.80	3.60
13:15	13:15	3.00	36.5	42.0	7.4	53	36.0	1.25	0.042	1.120	0.424	0.803	1.21	42.4	0.81	65.3	0.93	4.07
13:45	13:45	3.50	36.6	43.2	7.4	57	36.0	0.99	0.041	1.120	0.348	0.819	1.02	57.6	0.64	88.7	0.70	4.41
14:15	14:15	4.00	36.5	42.8	7.4	56	36.0	0.97	0.045	1.120	0.340	0.824	1.00	58.0	0.63	89.4	0.67	4.75
14:45	14:45	4.50	36.4	43.1	7.4	54	36.0	1.00	0.042	1.120	0.317	0.852	1.03	54.0	0.65	83.2	0.63	5.06
15:15	15:15	5.00	36.4	43.1	7.4	56	36.0	0.99	0.045	1.120	0.301	0.865	1.00	56.9	0.64	87.6	0.59	5.36
15:45	15:45	5.50	36.6	41.0	7.4	49	36.0	0.97	0.045	1.120	0.288	0.882	1.02	50.5	0.63	77.8	0.54	5.63
16:15	16:15	6.00	36.6	41.1	7.4	49	36.5	0.92	0.046	1.110	0.323	0.875	1.18	53.3	0.60	82.0	0.51	5.88
16:45	16:45	6.50	36.6	41.0	7.4	51	36.4	0.98	0.045	1.110	0.310	0.849	1.02	52.0	0.64	80.1	0.60	6.18
17:15	17:15	7.00	36.7	40.3	7.4	54	36.4	1.02	0.046	1.100	0.295	0.865	1.06	53.2	0.66	81.9	0.56	6.46
17:45	17:45	7.50	36.6	40.6	7.4	50	36.4	1.07	0.047	1.110	0.291	0.854	0.95	46.7	0.69	72.0	0.64	6.78
18:15	18:15	8.00	36.7	39.5	7.4	52	36.4	1.07	0.046	1.100	0.282	0.858	0.98	48.6	0.69	74.8	0.61	7.09

----- FLAPNO=2547 DATE=05/03/95 ANIMAL/SIDE=95-223-9-R PHASE=1 FLAPWT=25.4 DOSETIME=10:45 GROUP=No Topical MEDVOL=444 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	37.5	38.5	7.4	46	36.3	1.15	0.019	1.170	0.089	0.876	0.24	40.0	0.98	46.8	0.80	0.01
10:00	10:00	-0.75	37.5	37.2	7.4	35	36.1	1.15	0.021	1.170	0.204	0.838	0.55	30.4	0.98	35.6	0.90	0.24
10:15	10:15	-0.50	37.5	36.7	7.3	33	36.3	1.14	0.020	1.180	0.245	0.882	0.76	29.1	0.97	34.0	0.80	0.44

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2547 DATE=05/03/95 ANIMAL/SIDE=95-223-9-R PHASE=1 FLAPWT=25.4 DOSETIME=10:45 GROUP=No Topical MEDVOL=444 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:30	10:31	-0.23	37.6	35.9	7.4	31	36.6	1.09	0.022	1.170	0.306	0.829	0.83	28.6	0.93	33.4	0.87	0.67
10:45	10:45	0.00	37.6	37.3	7.4	29	36.4	1.08	0.019	1.170	0.341	0.816	0.91	27.0	0.92	31.5	0.90	0.88
11:15	11:15	0.50	37.7	36.0	7.4	28	36.6	1.02	0.021	1.170	0.361	0.811	0.95	27.5	0.87	32.1	0.86	1.31
11:45	11:45	1.00	37.8	35.0	7.4	29	36.6	1.06	0.019	1.160	0.374	0.812	1.02	27.4	0.91	32.0	0.87	1.75
12:15	12:15	1.50	37.8	35.5	7.4	28	36.6	1.11	0.022	1.160	0.364	0.811	0.98	25.2	0.95	29.5	0.92	2.20
12:45	12:45	2.00	37.9	33.6	7.4	27	36.8	1.12	0.021	1.160	0.355	0.830	1.01	24.2	0.95	28.3	0.87	2.64
13:15	13:15	2.50	37.9	33.8	7.4	25	36.8	1.06	0.021	1.160	0.210	0.985	1.08	23.7	0.90	27.7	0.44	2.86
13:45	13:45	3.00	37.9	34.8	7.4	25	36.8	1.12	0.021	1.160	0.210	0.983	1.07	22.4	0.95	26.2	0.47	3.09
14:15	14:15	3.50	37.9	34.4	7.4	25	36.8	1.08	0.020	1.160	0.186	1.010	1.11	23.1	0.92	27.1	0.38	3.28
14:45	14:45	4.00	37.9	34.2	7.4	25	36.8	1.01	0.018	1.150	0.169	1.060	1.68	24.9	0.86	29.1	0.21	3.39
15:15	15:15	4.50	37.9	32.0	7.4	25	36.9	1.13	0.016	1.150	0.124	1.070	1.35	22.2	0.96	26.0	0.21	3.49
15:45	15:45	5.00	37.9	32.0	7.4	25	36.8	1.05	0.017	1.150	0.099	1.080	1.17	23.9	0.89	28.0	0.17	3.58
16:15	16:15	5.50	37.9	32.2	7.4	25	36.8	1.02	0.018	1.160	0.087	1.120	1.73	24.6	0.87	28.8	0.10	3.63
16:45	16:45	6.00	37.9	31.7	7.4	25	36.7	1.10	0.018	1.150	0.075	1.090	0.95	22.8	0.94	26.7	0.16	3.71
17:15	17:15	6.50	37.9	33.1	7.4	26	36.7	1.03	0.017	1.140	0.067	1.100	1.25	25.2	0.88	29.5	0.10	3.75
17:45	17:45	7.00	37.9	32.1	7.4	27	36.7	1.04	0.018	1.150	0.054	1.110	0.90	26.0	0.89	30.3	0.10	3.80
18:15	18:15	7.50	37.9	33.6	7.3	28	36.6	0.99	0.019	1.150	0.025	1.150	-	28.3	0.85	33.1	0.00	3.80
18:45	18:45	8.00	37.9	33.7	7.3	30	36.7	1.05	0.019	1.140	0.021	1.140	-	28.7	0.89	33.6	0.00	3.80

----- FLAPNO=2548 DATE=05/03/95 ANIMAL/SIDE=95-223-9-L PHASE=2 FLAPWT=26.5 DOSETIME=10:30 GROUP=EtoH MEDVOL=399 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	35.3	44.5	7.3	33	34.9	1.05	0.018	1.110	0.192	0.700	0.42	31.6	0.80	41.1	0.97	0.01
9:45	9:45	-0.75	35.4	44.3	7.3	30	35.1	1.11	0.020	1.140	0.259	0.771	0.65	27.0	0.85	35.2	0.93	0.24
10:00	10:00	-0.50	35.4	43.9	7.3	29	35.2	1.11	0.020	1.140	0.315	0.777	0.81	26.2	0.85	34.1	0.91	0.47
10:15	10:15	-0.25	35.5	44.1	7.3	28	35.3	1.18	0.020	1.160	0.360	0.771	0.87	23.7	0.91	30.9	1.04	0.73
10:30	10:30	0.00	35.6	43.4	7.4	28	35.5	0.82	0.019	1.160	0.389	0.756	0.92	34.1	0.63	44.4	0.75	0.92
11:00	11:00	0.50	35.6	44.4	7.4	30	35.3	0.95	0.018	1.160	0.394	0.769	0.96	31.6	0.73	41.1	0.84	1.34
11:30	11:30	1.00	35.7	43.6	7.4	29	35.3	0.95	0.018	1.160	0.398	0.791	1.03	30.7	0.73	39.9	0.79	1.73
12:00	12:00	1.50	35.7	42.9	7.4	32	35.4	0.88	0.019	1.140	0.407	0.773	1.06	36.6	0.67	47.6	0.73	2.10
12:30	12:30	2.00	35.7	43.2	7.4	37	35.4	0.89	0.019	1.150	0.410	0.775	1.04	41.6	0.68	54.1	0.76	2.47
13:00	13:00	2.50	35.7	42.8	7.4	38	35.4	0.95	0.018	1.150	0.423	0.758	1.03	40.0	0.73	52.0	0.84	2.89
13:30	13:30	3.00	35.8	41.5	7.4	44	35.5	1.04	0.017	1.160	0.439	0.762	1.06	42.3	0.80	55.0	0.94	3.36
14:00	14:00	3.50	35.8	42.0	7.4	42	35.5	1.00	0.015	1.150	0.424	0.747	1.01	42.0	0.77	54.6	0.91	3.82
14:30	14:30	4.00	35.9	41.2	7.4	47	35.5	0.96	0.015	1.160	0.412	0.769	1.02	49.2	0.73	64.0	0.85	4.24
15:00	15:00	4.50	35.9	40.4	7.4	46	35.6	0.97	0.014	1.160	0.402	0.770	0.99	47.7	0.74	62.0	0.85	4.67
15:30	15:30	5.00	35.9	40.4	7.4	45	35.5	0.98	0.013	1.160	0.371	0.800	0.99	45.9	0.75	59.7	0.80	5.07
16:00	16:00	5.50	35.9	40.4	7.4	44	35.6	0.98	0.013	1.160	0.324	0.832	0.95	45.1	0.75	58.7	0.72	5.43
16:30	16:30	6.00	35.9	40.2	7.4	45	35.6	1.01	0.011	1.150	0.266	0.894	1.00	44.6	0.78	58.0	0.59	5.72
17:00	17:00	6.50	35.9	39.7	7.4	46	35.6	1.00	0.012	1.150	0.206	0.961	1.03	46.2	0.76	60.1	0.43	5.94

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2548 DATE=05/03/95 ANIMAL/SIDE=95-223-9-L PHASE=2 FLAPWT=26.5 DOSETIME=10:30 GROUP=EtoH MEDVOL=399 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:30	17:30	7.00	35.9	39.2	7.4	47	35.6	0.99	0.011	1.150	0.180	0.991	1.06	47.5	0.76	61.8	0.36	6.11
18:00	18:00	7.50	35.9	41.1	7.4	48	35.6	1.04	0.005	1.150	0.161	0.989	0.97	46.4	0.80	60.3	0.38	6.30
18:30	18:30	8.00	36.0	41.5	7.4	50	35.6	1.01	0.002	1.140	0.144	0.997	0.99	49.5	0.78	64.4	0.33	6.47

----- FLAPNO=2549 DATE=05/04/95 ANIMAL/SIDE=95-221-5-R PHASE=1 FLAPWT=21.35 DOSETIME=10:30 GROUP=No Topical MEDVOL=468 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.1	46.8	7.4	44	36.3	1.10	0.029	1.160	0.143	0.699	0.25	40.2	0.99	44.6	1.42	0.01
9:45	9:45	-0.75	35.7	47.0	7.4	40	35.4	0.75	0.027	1.160	0.249	0.782	0.59	53.7	0.67	59.5	0.79	0.21
10:00	10:00	-0.50	35.8	45.8	7.4	36	35.4	1.07	0.028	1.150	0.312	0.780	0.77	33.8	0.96	37.5	1.11	0.48
10:15	10:15	-0.25	35.8	45.5	7.4	34	35.6	1.13	0.029	1.160	0.355	0.785	0.87	30.1	1.02	33.4	1.19	0.78
10:30	10:30	0.00	35.9	45.5	7.4	34	35.8	1.07	0.031	1.150	0.408	0.741	0.92	31.8	0.96	35.2	1.23	1.09
11:00	11:00	0.50	36.0	44.9	7.4	33	35.6	1.04	0.033	1.150	0.401	0.758	0.94	31.7	0.94	35.2	1.15	1.66
11:30	11:30	1.00	36.1	44.4	7.4	34	35.7	1.18	0.034	1.140	0.424	0.749	1.00	28.8	1.06	32.0	1.30	2.31
12:00	12:00	1.50	36.1	43.3	7.3	35	35.9	0.87	0.037	1.140	0.442	0.760	1.07	40.5	0.78	44.9	0.92	2.77
12:30	12:30	2.00	36.2	42.6	7.4	51	35.7	0.87	0.035	1.080	0.300	0.838	1.10	58.6	0.78	65.0	0.59	3.07
13:00	13:00	2.50	36.2	42.2	7.4	44	35.7	0.96	0.036	1.100	0.297	0.840	1.00	45.8	0.87	50.8	0.70	3.42
13:30	13:30	3.00	36.3	42.8	7.4	44	35.7	1.01	0.035	1.100	0.299	0.834	0.99	43.8	0.91	48.6	0.75	3.80
14:00	14:00	3.50	36.3	42.6	7.4	43	35.7	1.05	0.033	1.110	0.282	0.868	1.03	41.1	0.94	45.6	0.71	4.15
14:30	14:30	4.00	36.3	42.0	7.4	46	35.8	1.12	0.034	1.130	0.266	0.892	0.97	41.1	1.01	45.5	0.75	4.53
15:00	15:00	4.50	36.3	42.9	7.4	41	35.8	1.09	0.032	1.140	0.232	0.930	0.95	37.6	0.98	41.7	0.64	4.85
15:30	15:30	5.00	36.3	42.5	7.4	42	35.8	1.10	0.032	1.140	0.202	1.020	1.42	38.2	0.99	42.3	0.37	5.03
16:00	16:00	5.50	36.4	42.9	7.4	41	35.8	1.27	0.031	1.140	0.166	1.010	1.04	32.4	1.14	35.9	0.46	5.26
16:30	16:30	6.00	36.3	42.9	7.4	42	35.7	1.02	0.027	1.110	0.151	0.994	1.07	41.4	0.92	45.9	0.33	5.43
17:00	17:00	6.50	36.4	43.4	7.4	42	35.7	1.02	0.028	1.090	0.148	0.994	1.25	41.4	0.92	45.9	0.27	5.57
17:30	17:30	7.00	36.3	44.3	7.4	42	35.7	1.02	0.027	1.070	0.138	0.955	0.97	41.2	0.92	45.7	0.33	5.73
18:00	18:00	7.50	36.2	43.4	7.4	43	35.7	1.05	0.027	1.080	0.136	0.949	0.83	41.0	0.95	45.4	0.39	5.92
18:30	18:30	8.00	36.2	43.7	7.4	41	35.7	0.96	0.025	1.010	0.132	0.917	1.15	42.9	0.86	47.6	0.25	6.05

----- FLAPNO=2550 DATE=05/04/95 ANIMAL/SIDE=95-221-5-L PHASE=2 FLAPWT=22.39 DOSETIME=10:00 GROUP=EtoH MEDVOL=533 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:17	-0.72	35.7	38.6	7.4	55	35.2	1.37	0.021	1.170	0.117	0.850	0.30	40.1	1.41	39.1	1.17	0.01
9:30	9:30	-0.50	36.3	38.4	7.4	42	35.6	1.11	0.022	1.170	0.142	0.921	0.48	38.0	1.13	37.0	0.74	0.17
9:45	9:45	-0.25	36.4	39.1	7.4	39	35.6	1.15	0.024	1.170	0.187	0.940	0.71	34.1	1.18	33.2	0.71	0.35
10:00	10:00	0.00	36.4	38.8	7.4	38	35.6	1.12	0.026	1.170	0.236	0.899	0.77	34.1	1.15	33.2	0.81	0.55
10:30	10:30	0.50	36.6	38.8	7.4	38	35.9	1.03	0.028	1.170	0.304	0.857	0.88	36.9	1.06	35.9	0.86	0.98

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2550 DATE=05/04/95 ANIMAL/SIDE=95-221-5-L PHASE=2 FLAPWT=22.39 DOSETIME=10:00 GROUP=EtoH MEDVOL=533 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:00	11:00	1.00	36.7	38.2	7.4	34	35.7	1.02	0.029	1.150	0.292	0.890	1.01	33.5	1.04	32.6	0.71	1.33
11:30	11:30	1.50	36.7	38.6	7.4	34	35.8	1.00	0.032	1.150	0.308	0.880	1.02	34.2	1.02	33.3	0.72	1.69
12:00	12:00	2.00	36.8	38.7	7.3	35	35.9	0.95	0.032	1.160	0.322	0.880	1.03	36.8	0.98	35.9	0.71	2.05
12:30	12:30	2.50	36.8	38.0	7.4	38	36.7	1.03	0.031	1.150	0.260	0.909	0.95	36.9	1.06	35.9	0.67	2.38
13:00	13:00	3.00	36.8	37.6	7.4	40	35.8	1.00	0.032	1.150	0.251	0.922	0.96	40.2	1.02	39.1	0.61	2.69
13:30	13:30	3.50	36.8	37.5	7.4	41	35.8	1.06	0.032	1.140	0.209	0.978	1.08	38.7	1.09	37.7	0.47	2.92
14:00	14:00	4.00	36.8	38.0	7.4	42	35.8	1.04	0.030	1.130	0.202	0.976	1.13	40.6	1.06	39.5	0.42	3.13
14:30	14:30	4.50	36.8	37.6	7.4	41	35.9	1.05	0.030	1.140	0.192	0.997	1.13	39.2	1.07	38.2	0.40	3.33
15:00	15:00	5.00	37.0	37.7	7.4	42	35.9	1.05	0.032	1.150	0.186	1.020	1.18	40.0	1.08	38.9	0.37	3.51
15:30	15:30	5.50	37.0	37.0	7.4	41	36.0	1.04	0.031	1.160	0.181	1.010	1.00	39.6	1.06	38.6	0.42	3.72
16:00	16:00	6.00	37.0	37.8	7.4	41	36.0	1.01	0.032	1.160	0.172	1.020	1.00	40.8	1.03	39.7	0.38	3.91
16:30	16:30	6.50	37.0	37.9	7.4	42	36.0	1.10	0.028	1.170	0.170	0.984	1.65	38.4	1.12	37.3	0.25	4.04
17:00	17:00	7.00	37.0	38.6	7.4	41	36.0	1.10	0.026	0.990	0.148	0.904	1.42	37.4	1.12	36.5	0.25	4.16
17:30	17:30	7.50	37.0	38.7	7.4	40	36.0	1.11	0.022	0.950	0.144	0.854	1.27	36.0	1.14	35.1	0.29	4.31
18:00	18:00	8.00	37.0	38.6	7.3	40	35.9	1.09	0.019	0.950	0.141	0.828	1.00	36.7	1.12	35.7	0.36	4.48

----- FLAPNO=2553 DATE=05/11/95 ANIMAL/SIDE=95-225-6-R PHASE=1 FLAPWT=23.95 DOSETIME=11:00 GROUP=No Topical MEDVOL=439 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.00	35.7	44.1	7.4	70	34.2	0.93	0.023	1.160	0.183	0.834	0.49	75.3	0.79	89.0	0.76	0.01
10:15	10:15	-0.75	35.6	44.3	7.4	69	34.1	0.97	0.023	1.180	0.234	0.891	0.73	71.1	0.82	84.1	0.70	0.19
10:30	10:30	-0.50	35.7	44.0	7.4	68	34.2	0.97	0.023	1.160	0.269	0.890	0.91	70.1	0.82	82.9	0.66	0.35
10:45	10:45	-0.25	35.7	43.9	7.4	70	34.2	0.95	0.024	1.160	0.298	0.885	1.00	74.1	0.80	87.6	0.65	0.51
11:00	11:00	0.00	35.8	43.6	7.4	72	34.2	0.96	0.023	1.170	0.341	0.853	1.00	75.0	0.81	88.7	0.76	0.70
11:30	11:30	0.50	35.8	42.9	7.4	66	34.2	1.00	0.024	1.180	0.359	0.839	0.98	66.3	0.84	78.4	0.85	1.13
12:00	12:00	1.00	36.0	42.3	7.4	67	34.3	0.94	0.023	1.180	0.379	0.815	0.98	71.7	0.79	84.7	0.85	1.56
12:30	12:30	1.50	35.9	44.0	7.4	64	34.3	0.91	0.024	1.180	0.387	0.813	0.99	70.3	0.77	83.1	0.84	1.97
13:00	13:00	2.00	35.9	43.2	7.4	61	34.2	0.98	0.022	1.180	0.341	0.842	0.94	62.6	0.82	74.0	0.83	2.39
13:30	13:30	2.50	35.9	43.2	7.4	61	34.2	0.97	0.021	1.180	0.350	0.831	0.94	63.2	0.82	74.7	0.84	2.81
14:00	14:00	3.00	35.9	43.2	7.4	67	34.3	1.02	0.020	1.190	0.352	0.842	0.95	66.0	0.86	78.0	0.88	3.25
14:30	14:30	3.50	36.0	43.5	7.4	77	34.2	1.02	0.019	1.190	0.319	0.872	0.94	75.5	0.86	89.2	0.81	3.66
15:00	15:00	4.00	36.0	43.4	7.4	82	34.3	1.05	0.016	1.200	0.292	0.905	0.94	78.1	0.89	92.3	0.78	4.05
15:30	15:30	4.50	36.1	42.9	7.4	78	34.3	1.03	0.014	1.190	0.250	0.935	0.93	75.7	0.87	89.5	0.66	4.37
16:00	16:00	5.00	36.0	42.5	7.4	77	34.3	1.00	0.015	1.190	0.223	0.958	0.90	77.0	0.85	91.0	0.58	4.66
16:30	16:30	5.50	36.0	43.5	7.4	81	34.3	0.98	0.014	1.210	0.213	1.030	1.11	82.7	0.83	97.7	0.44	4.89
17:00	17:00	6.00	36.0	38.0	7.4	82	34.3	0.99	0.016	1.240	0.176	1.040	0.80	82.8	0.84	97.9	0.50	5.13
17:30	17:30	6.50	36.0	43.5	7.4	86	34.3	0.97	0.016	1.250	0.163	1.100	0.98	88.7	0.82	104.8	0.36	5.32
18:00	18:00	7.00	36.0	42.8	7.4	104	34.3	1.00	0.016	1.210	0.146	1.080	1.00	104.0	0.85	123.0	0.33	5.48
18:30	18:30	7.50	36.0	41.7	7.4	109	34.3	0.98	0.017	1.240	0.170	1.080	0.96	111.8	0.82	132.2	0.39	5.67
19:00	19:00	8.00	36.0	42.4	7.4	75	34.3	0.99	0.013	1.200	0.197	1.010	0.97	76.1	0.83	90.0	0.47	5.91

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING SHADY SIDE PIGS AND SIGMA BSA

----- FLAPNO=2554 DATE=05/11/95 ANIMAL/SIDE=95-225-6-L PHASE=2 FLAPWT=22.95 DOSETIME=10:30 GROUP=EtoH MEDVOL=471 NCSU=No -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	37.3	38.3	7.4	87	36.4	1.09	0.028	1.170	0.065	0.936	0.16	80.2	0.98	88.4	0.66	0.01
9:45	9:45	-0.75	37.5	38.1	7.4	56	36.4	1.10	0.025	1.210	0.091	1.030	0.37	51.1	0.99	56.4	0.52	0.14
10:00	10:00	-0.50	37.5	38.1	7.3	52	36.3	1.05	0.026	1.180	0.111	1.060	0.71	49.8	0.95	54.8	0.33	0.22
10:15	10:15	-0.25	37.6	37.7	7.3	49	36.3	1.02	0.028	1.180	0.133	1.080	1.05	48.0	0.93	52.9	0.27	0.29
10:30	10:30	0.00	37.4	37.6	7.4	51	36.3	1.05	0.026	1.170	0.136	1.070	1.10	48.6	0.95	53.5	0.27	0.36
11:00	11:00	0.50	37.5	37.5	7.4	49	36.3	1.06	0.029	1.180	0.151	1.070	1.11	46.4	0.96	51.2	0.30	0.51
11:30	11:30	1.00	37.6	37.8	7.4	51	36.3	1.04	0.030	1.190	0.154	1.060	0.95	49.3	0.94	54.3	0.35	0.68
12:00	12:00	1.50	37.7	37.2	7.4	50	36.6	1.02	0.030	1.180	0.168	1.070	1.25	49.0	0.93	54.0	0.29	0.83
12:30	12:30	2.00	37.6	38.1	7.4	50	36.6	1.00	0.029	1.170	0.161	1.070	1.32	50.3	0.90	55.4	0.26	0.96
13:00	13:00	2.50	37.6	37.2	7.4	52	36.3	1.03	0.029	1.190	0.152	1.070	1.03	50.5	0.93	55.6	0.32	1.12
13:30	13:30	3.00	37.6	37.1	7.4	46	36.3	1.05	0.028	1.170	0.140	1.070	1.12	44.0	0.95	48.5	0.27	1.26
14:00	14:00	3.50	37.5	37.3	7.4	55	36.2	1.00	0.027	1.190	0.150	1.080	1.12	55.0	0.91	60.6	0.29	1.40
14:30	14:30	4.00	37.7	38.0	7.4	57	36.1	1.03	0.026	1.200	0.151	1.110	1.39	55.3	0.93	61.0	0.24	1.52
15:00	15:00	4.50	37.5	38.0	7.3	58	36.1	1.12	0.025	1.190	0.146	1.080	1.10	52.0	1.01	57.3	0.32	1.68
15:30	15:30	5.00	37.6	36.7	7.4	53	36.3	1.10	0.024	1.210	0.143	1.090	0.99	48.2	1.00	53.1	0.35	1.86
16:00	16:00	5.50	37.6	36.9	7.4	58	36.3	1.06	0.023	1.220	0.147	1.110	1.13	54.7	0.96	60.3	0.30	2.01
16:30	16:30	6.00	37.6	37.6	7.4	58	36.3	1.07	0.021	1.220	0.143	1.090	0.94	54.2	0.97	59.7	0.36	2.19
17:00	17:00	6.50	37.6	43.2	7.4	57	36.3	1.04	0.022	1.220	0.140	1.090	0.91	54.8	0.94	60.4	0.35	2.37
17:30	17:30	7.00	37.6	38.0	7.4	58	36.3	1.01	0.022	1.230	0.161	1.210	6.95	57.4	0.92	63.3	0.05	2.39
18:00	18:00	7.50	37.6	38.0	7.4	58	36.3	1.04	0.022	1.200	0.218	1.060	1.40	55.8	0.94	61.5	0.38	2.58
18:30	18:30	8.00	37.6	37.6	7.4	58	36.3	1.02	0.026	1.230	0.183	1.060	0.92	57.1	0.92	63.0	0.45	2.81

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2555 DATE=08/30/95 ANIMAL/SIDE=95-65-11-R PHASE=1 FLAPWT=27.99 DOSETIME=11:30 GROUP=No Topical MEDVOL=363 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:15	-1.25	35.2	52.4	7.4	29	38.1	0.96	0.017	1.120	0.206	0.682	0.43	30.4	0.67	43.4	0.90	0.01
10:30	10:30	-1.00	35.2	50.3	7.4	29	37.1	0.85	0.017	1.140	0.260	0.714	0.57	34.3	0.59	49.1	0.77	0.20
10:45	10:45	-0.75	35.2	50.4	7.4	29	36.6	0.87	0.001	1.140	0.343	0.693	0.77	33.3	0.61	47.7	0.83	0.41
11:00	11:00	-0.50	35.1	50.2	7.4	26	36.2	0.81	0.011	1.140	0.420	0.657	0.85	32.1	0.57	45.9	0.84	0.62
11:15	11:15	-0.25	35.2	50.2	7.4	28	36.2	0.84	0.004	1.150	0.486	0.669	1.00	33.5	0.58	47.9	0.86	0.84
11:30	11:30	0.00	35.4	49.3	7.4	30	36.1	1.00	0.009	1.210	0.480	0.702	0.93	30.2	0.70	43.1	1.08	1.11
12:00	12:00	0.50	35.3	49.0	7.4	32	36.1	1.06	0.012	1.190	0.536	0.677	1.02	30.3	0.74	43.4	1.16	1.69
12:30	12:30	1.00	35.4	50.1	7.4	33	36.2	0.99	0.010	1.200	0.518	0.687	0.99	33.5	0.69	47.9	1.08	2.23
13:00	13:00	1.50	35.4	49.3	7.3	34	36.2	0.96	0.012	1.190	0.545	0.680	1.05	35.6	0.67	50.9	1.04	2.75
13:30	13:30	2.00	35.4	48.2	7.3	35	36.4	0.93	0.016	1.190	0.636	0.624	1.10	37.6	0.65	53.8	1.13	3.31
14:00	14:00	2.50	35.5	47.8	7.4	39	36.0	0.97	0.016	1.210	0.656	0.608	1.06	40.2	0.68	57.5	1.25	3.94
14:30	14:30	3.00	35.5	48.2	7.4	43	35.5	1.01	0.016	1.170	0.619	0.695	1.27	42.6	0.71	60.9	1.03	4.46
15:00	15:00	3.50	36.1	41.4	7.4	53	36.3	1.02	0.016	1.200	0.486	0.761	1.07	52.0	0.71	74.3	0.96	4.93
15:30	15:30	4.00	36.0	40.8	7.4	63	36.2	1.04	0.018	1.180	0.439	0.796	1.10	60.6	0.73	86.6	0.86	5.36
16:00	16:00	4.50	36.1	40.8	7.5	63	36.2	1.04	0.017	1.180	0.404	0.842	1.14	60.9	0.72	87.0	0.75	5.74
16:30	16:30	5.00	36.1	41.1	7.5	65	36.2	0.99	0.019	1.220	0.365	0.878	1.01	66.0	0.69	94.3	0.72	6.10
17:00	17:00	5.50	36.1	40.9	7.4	64	36.2	1.01	0.018	1.160	0.312	0.920	1.23	63.4	0.71	90.6	0.52	6.36
17:30	17:30	6.00	36.3	41.0	7.4	69	36.4	0.99	0.021	1.210	0.288	0.959	1.06	69.7	0.69	99.6	0.53	6.63
18:00	18:00	6.50	36.3	35.1	7.5	69	36.4	1.01	0.022	1.200	0.284	0.956	1.07	68.7	0.70	98.2	0.53	6.89
18:30	18:30	7.00	36.3	38.5	7.4	70	36.4	1.04	0.018	1.190	0.303	0.913	1.03	67.6	0.72	96.7	0.61	7.20
19:00	19:00	7.50	36.4	39.0	7.4	74	36.5	1.03	0.018	1.190	0.305	0.936	1.13	71.8	0.72	102.7	0.56	7.48
19:30	19:30	8.00	36.3	38.8	7.5	76	36.4	1.04	0.017	1.150	0.272	0.953	1.29	73.1	0.73	104.5	0.44	7.70

----- FLAPNO=2556 DATE=08/30/95 ANIMAL/SIDE=95-65-11-L PHASE=1 FLAPWT=25.48 DOSETIME=11:15 GROUP=No Topical MEDVOL=463 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.25	37.6	40.5	7.4	33	36.3	1.17	0.015	1.030	0.183	0.776	0.66	28.3	1.04	31.8	0.70	0.01
10:15	10:15	-1.00	37.0	41.2	7.4	34	36.2	1.15	0.018	1.200	0.282	0.806	0.67	29.6	1.03	33.1	1.07	0.28
10:30	10:30	-0.75	36.9	40.0	7.4	34	35.8	1.35	0.021	1.190	0.278	0.876	0.82	25.3	1.20	28.3	0.99	0.53
10:45	10:45	-0.50	37.0	39.7	7.4	34	35.8	1.28	0.012	1.200	0.314	0.845	0.85	26.6	1.14	29.8	1.07	0.79
11:00	11:00	-0.25	37.1	39.3	7.4	32	36.0	1.35	0.014	1.240	0.318	0.903	0.90	23.8	1.20	26.7	1.07	1.06
11:15	11:15	0.00	37.3	38.7	7.4	32	36.2	1.29	0.016	1.260	0.353	0.908	0.96	24.8	1.15	27.8	1.07	1.33
11:45	11:45	0.50	37.4	38.7	7.4	32	36.3	1.02	0.017	1.230	0.359	0.874	0.96	31.5	0.91	35.3	0.85	1.75
12:15	12:15	1.00	37.3	38.7	7.4	33	36.2	1.18	0.016	1.200	0.368	0.827	0.94	28.0	1.05	31.3	1.04	2.27
12:45	12:45	1.50	37.3	38.7	7.4	34	36.2	1.02	0.014	1.180	0.368	0.850	1.07	33.5	0.91	37.5	0.79	2.67
13:15	13:15	2.00	37.4	38.6	7.4	37	36.3	0.97	0.017	1.190	0.370	0.811	0.93	38.1	0.87	42.8	0.87	3.10
13:45	13:45	2.50	37.5	38.3	7.4	41	36.3	0.98	0.017	1.200	0.350	0.841	0.93	42.1	0.87	47.1	0.82	3.51
14:15	14:15	3.00	37.5	38.4	7.4	50	36.3	1.03	0.017	1.170	0.260	0.923	0.98	48.8	0.91	54.7	0.60	3.81
14:45	14:45	3.50	37.6	39.1	7.4	49	36.3	0.94	0.018	1.180	0.300	0.884	0.95	52.1	0.84	58.4	0.66	4.14
15:15	15:15	4.00	39.3	37.5	7.4	50	36.3	0.91	0.018	1.180	0.283	0.914	1.00	54.9	0.81	61.6	0.57	4.42
15:45	15:45	4.50	37.5	37.4	7.4	58	36.3	1.00	0.020	1.190	0.291	0.937	1.07	58.3	0.89	65.3	0.59	4.72

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2556 DATE=08/30/95 ANIMAL/SIDE=95-65-11-L PHASE=1 FLAPWT=25.48 DOSETIME=11:15 GROUP=No Topical MEDVOL=463 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:15	16:15	5.00	37.5	39.1	7.5	53	36.3	1.05	0.019	1.220	0.273	1.000	1.15	50.7	0.93	56.9	0.54	4.99
16:45	16:45	5.50	37.5	38.9	7.3	55	36.3	1.01	0.019	1.210	0.274	0.954	1.00	54.5	0.90	61.0	0.61	5.29
17:15	17:15	6.00	37.5	39.1	7.4	54	36.4	1.03	0.020	1.190	0.264	0.949	1.01	52.7	0.91	59.1	0.58	5.58
17:45	17:45	6.50	37.6	37.6	7.5	55	36.4	1.01	0.020	1.210	0.260	0.979	1.04	54.7	0.90	61.3	0.55	5.86
18:15	18:15	7.00	37.7	39.1	7.5	54	36.4	1.02	0.009	1.190	0.256	0.962	1.08	52.9	0.91	59.3	0.55	6.13
18:45	18:45	7.50	37.5	39.4	7.4	54	36.3	1.05	0.009	1.180	0.257	0.955	1.10	51.7	0.93	57.9	0.55	6.41
19:15	19:15	8.00	37.6	39.6	7.4	54	36.4	1.07	0.019	1.200	0.249	0.980	1.05	50.5	0.95	56.6	0.55	6.68

----- FLAPNO=2557 DATE=08/31/95 ANIMAL/SIDE=95-65-10-R PHASE=1 FLAPWT=35.5 DOSETIME=11:01 GROUP=No Topical MEDVOL=479 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.02	36.0	43.0	7.4	32	35.3	0.94	0.019	1.150	0.164	0.724	0.34	34.0	0.87	36.9	0.68	0.01
10:15	10:15	-0.77	36.5	41.8	7.4	30	35.8	0.95	0.019	1.160	0.278	0.768	0.66	31.6	0.88	34.2	0.63	0.17
10:30	10:30	-0.52	36.6	41.8	7.4	28	35.9	1.03	0.019	1.210	0.357	0.774	0.78	27.2	0.95	29.5	0.76	0.36
10:45	10:45	-0.27	36.7	41.7	7.4	28	35.9	1.02	0.019	1.210	0.433	0.730	0.86	27.5	0.94	29.7	0.83	0.56
11:00	11:01	0.00	36.5	41.2	7.4	28	35.2	1.03	0.018	1.180	0.496	0.682	0.96	27.2	0.95	29.5	0.87	0.80
11:30	11:30	0.48	36.8	41.6	7.4	27	36.1	1.00	0.019	1.170	0.508	0.661	0.96	27.0	0.92	29.3	0.86	1.21
12:00	12:00	0.98	36.8	41.5	7.4	27	36.1	0.96	0.020	1.170	0.529	0.660	1.00	28.3	0.88	30.6	0.82	1.62
12:30	12:30	1.48	36.9	41.1	7.4	27	36.2	0.97	0.017	1.180	0.543	0.645	0.98	28.1	0.89	30.5	0.87	2.06
13:00	13:00	1.98	36.9	41.0	7.4	28	36.1	0.96	0.018	1.170	0.555	0.631	1.00	28.9	0.90	31.3	0.88	2.50
13:30	13:30	2.48	37.0	40.8	7.4	33	36.2	1.01	0.009	1.170	0.427	0.754	1.00	32.8	0.93	35.6	0.71	2.85
14:00	14:00	2.98	37.0	41.0	7.4	32	36.1	1.01	0.024	1.160	0.471	0.701	0.97	31.7	0.93	34.3	0.78	3.24
14:30	14:30	3.48	37.1	42.0	7.4	34	36.3	0.99	0.016	1.170	0.476	0.706	0.99	34.3	0.91	37.2	0.78	3.63
15:00	15:00	3.98	37.0	42.1	7.4	34	36.1	0.95	0.017	1.170	0.460	0.714	0.97	35.8	0.88	38.8	0.73	4.00
15:30	15:30	4.48	37.1	42.4	7.4	35	36.3	0.94	0.017	1.180	0.457	0.734	0.99	37.4	0.86	40.6	0.70	4.35
16:00	16:00	4.98	37.1	40.3	7.4	41	36.2	1.03	0.017	1.170	0.372	0.810	0.99	40.0	0.95	43.3	0.62	4.66
16:30	16:30	5.48	37.1	40.3	7.4	42	36.3	1.03	0.012	1.200	0.338	0.829	0.88	40.8	0.95	44.2	0.65	4.98
17:00	17:00	5.98	37.1	40.0	7.4	41	36.3	1.02	0.013	1.200	0.337	0.878	1.01	40.2	0.94	43.6	0.56	5.26
17:30	17:30	6.48	37.1	40.5	7.4	43	36.3	0.96	0.015	1.210	0.280	0.913	0.89	44.8	0.89	48.5	0.48	5.50
18:00	18:00	6.98	37.1	39.9	7.4	45	36.3	1.03	0.010	1.200	0.259	0.934	0.94	43.7	0.95	47.3	0.46	5.73
18:30	18:30	7.48	37.1	40.0	7.4	47	36.3	1.02	0.010	1.200	0.239	0.967	0.98	46.3	0.94	50.2	0.40	5.93
19:00	19:00	7.98	37.1	40.2	7.4	49	36.3	1.02	0.009	1.200	0.214	0.977	0.92	48.0	0.94	52.1	0.38	6.13

----- FLAPNO=2558 DATE=08/31/95 ANIMAL/SIDE=95-65-10-L PHASE=1 FLAPWT=38.73 DOSETIME=10:45 GROUP=No Topical MEDVOL=494 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	36.1	44.1	7.3	29	34.4	1.01	0.018	1.200	0.193	0.754	0.39	28.9	0.96	30.3	0.69	0.01

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2558 DATE=08/31/95 ANIMAL/SIDE=95-65-10-L PHASE=1 FLAPWT=38.73 DOSETIME=10:45 GROUP=No Topical MEDVOL=494 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.75	36.4	44.8	7.4	30	35.1	1.04	0.011	1.170	0.221	0.847	0.65	28.8	0.99	30.3	0.52	0.14
10:15	10:15	-0.50	34.9	42.7	7.4	24	34.6	1.05	0.020	1.200	0.297	0.784	0.67	23.0	0.99	24.1	0.67	0.31
10:30	10:30	-0.25	34.9	43.4	7.4	26	34.2	1.02	0.019	1.210	0.355	0.773	0.77	25.5	0.97	26.8	0.69	0.48
10:45	10:45	0.00	35.0	50.3	7.4	24	33.9	1.06	0.019	1.240	0.403	0.781	0.84	22.7	1.00	23.9	0.75	0.67
11:15	11:15	0.50	35.7	48.6	7.4	24	35.2	1.04	0.017	1.240	0.413	0.756	0.82	23.2	0.99	24.4	0.78	1.06
11:45	11:45	1.00	36.6	47.4	7.4	27	36.3	1.02	0.023	1.180	0.413	0.787	0.99	26.5	0.97	27.8	0.62	1.37
12:15	12:15	1.50	36.7	47.2	7.4	25	36.2	0.98	0.013	1.230	0.408	0.784	0.89	25.6	0.93	26.9	0.67	1.70
12:45	12:45	2.00	36.7	45.8	7.4	25	36.1	1.03	0.019	1.180	0.412	0.785	0.99	24.4	0.98	25.6	0.63	2.02
13:15	13:15	2.50	37.2	44.4	7.5	27	36.8	1.03	0.014	1.210	0.411	0.770	0.90	26.2	0.98	27.5	0.70	2.37
13:45	13:45	3.00	36.7	43.7	7.5	24	35.9	1.02	0.015	1.210	0.417	0.790	0.96	23.6	0.97	24.8	0.66	2.70
14:15	14:15	3.50	36.5	43.1	7.4	23	36.2	0.94	0.018	1.180	0.405	0.805	1.03	24.5	0.89	25.7	0.55	2.97
14:45	14:45	4.00	36.8	42.5	7.4	27	36.3	0.98	0.015	1.150	0.369	0.826	1.09	27.6	0.93	28.9	0.49	3.22
15:15	15:15	4.50	36.8	42.0	7.4	30	36.1	1.00	0.014	1.200	0.344	0.851	0.95	30.2	0.95	31.7	0.54	3.49
15:45	15:45	5.00	36.8	42.4	7.3	29	36.3	0.98	0.014	1.200	0.340	0.878	1.01	29.6	0.93	31.1	0.49	3.73
16:15	16:15	5.50	36.7	42.4	7.4	28	36.3	0.98	0.013	1.190	0.295	0.910	1.01	28.6	0.93	30.0	0.43	3.94
16:45	16:45	6.00	36.8	42.7	7.4	28	36.3	0.98	0.013	1.190	0.287	0.934	1.07	28.6	0.93	30.0	0.39	4.14
17:15	17:15	6.50	36.8	42.6	7.4	27	36.4	0.98	0.012	1.180	0.264	0.956	1.13	27.6	0.93	28.9	0.34	4.31
17:45	17:45	7.00	36.7	42.4	7.5	28	36.4	0.98	0.015	1.200	0.258	0.958	1.00	28.6	0.93	30.0	0.37	4.49
18:15	18:15	7.50	36.7	42.6	7.4	27	36.4	0.98	0.010	1.190	0.257	0.964	1.09	27.6	0.93	28.9	0.34	4.66
18:45	18:45	8.00	36.8	43.1	7.4	28	36.4	1.01	0.009	1.190	0.260	0.962	1.10	27.9	0.96	29.3	0.35	4.84

----- FLAPNO=2560 DATE=09/07/95 ANIMAL/SIDE=95-65-9-L PHASE=1 FLAPWT=40.82 DOSETIME=10:30 GROUP=No Topical MEDVOL=475 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:32	-0.97	35.7	43.9	7.4	24	35.8	1.01	0.016	1.170	0.126	0.775	0.28	23.8	0.92	26.0	0.59	0.01
9:45	9:45	-0.75	35.4	45.1	7.4	32	35.4	1.00	0.008	1.190	0.249	0.808	0.63	32.0	0.92	35.0	0.56	0.13
10:00	10:00	-0.50	35.4	44.5	7.4	31	35.4	1.01	0.008	1.190	0.341	0.774	0.80	30.8	0.92	33.7	0.61	0.29
10:15	10:15	-0.25	35.4	44.1	7.4	31	35.5	0.98	0.020	1.170	0.387	0.731	0.84	31.8	0.89	34.7	0.63	0.44
10:30	10:30	0.00	35.1	44.0	7.4	31	35.5	1.02	0.018	1.170	0.437	0.713	0.92	30.4	0.93	33.2	0.69	0.61
11:00	11:00	0.50	35.5	43.6	7.4	30	35.5	1.00	0.006	1.190	0.474	0.714	0.98	30.0	0.92	32.8	0.70	0.96
11:30	11:30	1.00	35.5	43.7	7.4	30	35.6	0.97	0.012	1.170	0.498	0.699	1.03	31.1	0.88	34.0	0.67	1.30
12:00	12:00	1.50	35.6	43.8	7.4	31	35.7	0.96	0.018	1.170	0.501	0.708	1.05	32.5	0.87	35.5	0.65	1.62
12:30	12:30	2.00	35.5	43.7	7.4	31	35.7	1.01	0.017	1.180	0.492	0.713	1.02	30.8	0.92	33.7	0.69	1.97
13:00	13:00	2.50	36.0	43.1	7.3	32	36.4	0.99	0.011	1.160	0.465	0.725	1.04	32.5	0.90	35.5	0.63	2.28
13:30	13:30	3.00	36.3	42.7	7.4	34	36.4	1.02	0.015	1.150	0.386	0.821	1.13	33.5	0.93	36.6	0.49	2.53
14:00	14:00	3.50	36.3	43.1	7.4	36	36.4	1.02	0.009	1.190	0.329	0.868	0.99	35.5	0.93	38.8	0.48	2.77
14:30	14:30	4.00	36.3	42.6	7.4	41	36.5	0.99	0.002	1.190	0.287	0.915	1.04	41.6	0.90	45.5	0.40	2.97
15:00	15:00	4.50	36.3	42.8	7.4	41	36.5	1.04	0.004	1.170	0.272	0.919	1.07	39.6	0.95	43.3	0.38	3.16
15:30	15:30	5.00	36.3	42.5	7.4	42	36.5	1.02	0.007	1.140	0.254	0.925	1.15	41.4	0.93	45.2	0.32	3.32
16:00	16:00	5.50	36.3	42.7	7.4	43	36.4	1.01	0.019	1.150	0.235	0.933	1.00	42.8	0.92	46.7	0.32	3.48

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2560 DATE=09/07/95 ANIMAL/SIDE=95-65-9-L PHASE=1 FLAPWT=40.82 DOSETIME=10:30 GROUP=No Topical MEDVOL=475 NCSU=Yes -----																		
(continued)																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:30	16:30	6.00	36.3	42.2	7.4	41	36.5	0.99	0.020	1.160	0.208	0.972	1.00	41.6	0.90	45.5	0.27	3.61
17:00	17:00	6.50	36.3	42.2	7.4	39	36.4	1.03	0.017	1.160	0.205	0.993	1.13	38.0	0.94	41.6	0.25	3.74
17:30	17:30	7.00	36.4	42.4	7.4	38	36.4	0.99	0.011	1.130	0.207	0.979	1.30	38.4	0.91	41.9	0.22	3.85
18:00	18:00	7.50	36.3	42.4	7.4	37	36.4	1.01	0.009	1.160	0.213	1.010	1.36	36.6	0.92	40.0	0.22	3.96
18:30	18:30	8.00	36.4	42.3	7.4	36	36.4	0.98	0.025	1.160	0.220	0.951	0.93	36.9	0.89	40.3	0.30	4.11
----- FLAPNO=2561 DATE=09/13/95 ANIMAL/SIDE=95-64-5-R PHASE=1 FLAPWT=25.44 DOSETIME=11:00 GROUP=No Topical MEDVOL=474 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.00	37.2	40.4	7.4	45	36.4	0.98	0.015	1.120	0.054	0.819	0.13	45.9	0.90	50.3	0.70	0.01
10:15	10:15	-0.75	37.8	39.4	7.4	41	36.9	1.01	0.015	1.090	0.114	0.836	0.39	40.6	0.92	44.4	0.61	0.16
10:30	10:30	-0.50	38.0	38.8	7.4	45	37.1	1.02	0.016	1.130	0.162	0.917	0.69	44.3	0.93	48.5	0.51	0.29
10:45	10:45	-0.25	38.1	38.5	7.4	40	37.1	1.00	0.011	1.150	0.217	0.888	0.79	40.2	0.91	44.0	0.61	0.44
11:00	11:00	0.00	37.7	37.1	7.4	36	36.4	0.97	0.016	1.120	0.244	0.866	0.90	37.3	0.88	40.8	0.58	0.59
11:30	11:30	0.50	38.2	38.3	7.4	42	37.1	0.93	0.013	1.130	0.265	0.885	1.03	45.4	0.84	49.7	0.53	0.85
12:00	12:00	1.00	38.3	38.0	7.4	38	37.2	1.00	0.015	1.140	0.267	0.901	1.05	38.0	0.91	41.6	0.56	1.14
12:30	12:30	1.50	38.4	37.8	7.4	46	37.2	1.01	0.014	1.130	0.225	0.922	1.01	45.8	0.92	50.1	0.49	1.38
13:00	13:00	2.00	38.3	37.7	7.4	38	37.3	0.99	0.014	1.150	0.168	0.947	0.76	38.4	0.90	42.0	0.47	1.62
13:30	13:30	2.50	38.3	37.6	7.4	37	37.3	1.00	0.015	1.150	0.164	0.986	0.91	37.2	0.91	40.7	0.38	1.81
14:00	14:00	3.00	38.3	37.7	7.4	37	37.3	1.01	0.011	1.150	0.162	1.010	1.08	36.8	0.92	40.3	0.33	1.98
14:30	14:30	3.50	38.3	37.9	7.4	38	37.3	0.98	0.008	1.150	0.131	1.030	1.03	39.0	0.89	42.7	0.28	2.12
15:00	15:00	4.00	38.3	38.0	7.4	36	37.3	1.02	0.010	1.140	0.145	1.030	1.23	35.5	0.93	38.8	0.26	2.25
15:30	15:30	4.50	38.3	38.5	7.4	34	37.3	1.03	0.007	1.150	0.126	1.050	1.19	33.2	0.94	36.3	0.24	2.37
16:00	16:00	5.00	38.3	38.2	7.4	34	37.3	1.03	0.005	1.140	0.127	1.040	1.22	33.0	0.94	36.1	0.24	2.49
16:30	16:30	5.50	38.4	36.3	7.4	33	37.3	0.94	0.007	1.150	0.130	1.030	1.03	35.3	0.85	38.6	0.26	2.62
17:00	17:00	6.00	38.3	38.3	7.4	34	37.3	1.01	0.006	1.140	0.123	1.040	1.17	33.8	0.92	37.0	0.24	2.74
17:30	17:30	6.50	38.3	38.6	7.5	34	37.3	0.99	0.005	1.160	0.123	1.050	1.07	34.3	0.90	37.6	0.26	2.87
18:00	18:00	7.00	38.3	38.6	7.4	34	37.3	0.96	0.002	1.150	0.122	1.040	1.09	35.4	0.88	38.8	0.25	2.99
18:30	18:30	7.50	38.3	38.7	7.4	34	37.3	0.92	0.000	1.150	0.118	1.030	0.98	37.2	0.84	40.7	0.26	3.12
19:00	19:00	8.00	38.3	38.8	7.5	36	37.6	1.00	0.000	1.140	0.122	1.020	1.02	36.0	0.91	39.4	0.28	3.26
----- FLAPNO=2562 DATE=09/13/95 ANIMAL/SIDE=95-64-5-L PHASE=1 FLAPWT=28.02 DOSETIME=10:30 GROUP=No Topical MEDVOL=480 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	38.2	41.5	7.4	39	37.1	1.02	0.017	1.120	0.125	0.726	0.27	38.2	0.94	41.3	0.86	0.01
9:45	9:45	-0.75	38.7	40.6	7.4	36	37.8	0.98	0.014	1.120	0.227	0.775	0.62	36.7	0.91	39.7	0.72	0.19
10:00	10:00	-0.50	38.8	40.4	7.3	36	38.0	0.99	0.016	1.140	0.282	0.766	0.71	36.4	0.92	39.3	0.79	0.39

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2562 DATE=09/13/95 ANIMAL/SIDE=95-64-5-L PHASE=1 FLAPWT=28.02 DOSETIME=10:30 GROUP=No Topical MEDVOL=480 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:14	-0.27	38.5	40.4	7.3	36	37.6	0.99	0.015	1.130	0.323	0.782	0.89	36.4	0.92	39.3	0.74	0.56
10:30	10:30	0.00	38.4	40.4	7.4	36	37.4	0.99	0.015	1.130	0.340	0.785	0.94	36.4	0.92	39.3	0.73	0.76
11:00	11:00	0.50	38.2	39.7	7.3	34	37.3	0.97	0.003	1.130	0.367	0.774	1.02	35.2	0.89	38.1	0.74	1.12
11:30	11:30	1.00	38.3	40.1	7.4	35	37.3	0.92	0.013	1.150	0.370	0.781	0.97	38.0	0.85	41.1	0.73	1.49
12:00	12:00	1.50	38.3	39.9	7.4	37	37.4	1.00	0.007	1.120	0.348	0.809	1.10	37.2	0.92	40.2	0.66	1.82
12:30	12:30	2.00	38.4	40.1	7.4	38	36.9	1.01	0.000	1.140	0.333	0.814	1.02	37.6	0.93	40.7	0.71	2.17
13:00	13:00	2.50	37.9	40.2	7.4	39	36.8	0.97	0.000	1.140	0.333	0.834	1.09	40.4	0.89	43.7	0.63	2.49
13:30	13:30	3.00	37.8	40.2	7.4	40	36.8	1.03	0.005	1.150	0.306	0.836	0.96	38.8	0.95	42.0	0.69	2.83
14:00	14:00	3.50	37.7	40.3	7.4	41	36.8	1.00	0.006	1.150	0.282	0.852	0.93	41.0	0.92	44.3	0.64	3.15
14:30	14:30	4.00	37.8	40.3	7.4	42	36.8	1.04	0.003	1.120	0.262	0.881	1.08	40.4	0.96	43.7	0.53	3.42
15:00	15:00	4.50	37.8	40.6	7.4	42	36.8	1.02	0.001	1.140	0.261	0.892	1.05	41.2	0.94	44.5	0.54	3.69
15:30	15:30	5.00	37.8	41.0	7.5	42	36.8	1.00	0.000	1.150	0.239	0.919	1.03	42.2	0.92	45.6	0.49	3.94
16:00	16:00	5.50	38.0	40.5	7.4	41	36.9	1.02	0.004	1.150	0.237	0.909	0.97	40.2	0.94	43.5	0.53	4.20
16:30	16:30	6.00	38.3	39.2	7.5	41	37.4	1.10	0.000	1.140	0.234	0.930	1.11	37.4	1.01	40.5	0.49	4.45
17:00	17:00	6.50	38.1	40.5	7.4	41	37.1	0.94	0.000	1.150	0.235	0.928	1.06	43.6	0.87	47.2	0.45	4.67
17:30	17:30	7.00	38.0	41.0	7.4	41	37.0	0.98	0.000	1.150	0.218	0.925	0.97	42.1	0.90	45.5	0.47	4.90
18:00	18:00	7.50	38.1	41.2	7.4	42	37.0	0.95	0.000	1.140	0.207	0.923	0.95	44.4	0.87	48.1	0.44	5.12
18:30	18:30	8.00	38.1	41.3	7.5	42	37.1	1.05	0.001	1.130	0.199	0.922	0.95	40.2	0.97	43.5	0.47	5.36

----- FLAPNO=2563 DATE=09/20/95 ANIMAL/SIDE=95-3-16-R PHASE=1 FLAPWT=25.48 DOSETIME=11:00 GROUP=No Topical MEDVOL=509 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.00	34.5	52.9	7.4	61	34.2	1.00	0.007	1.130	0.057	0.812	0.16	61.3	0.98	62.5	0.75	0.01
10:15	10:15	-0.75	34.5	52.8	7.4	51	34.1	1.01	0.004	1.160	0.117	0.848	0.36	50.5	0.99	51.5	0.74	0.20
10:30	10:30	-0.50	34.5	52.6	7.4	50	34.1	1.04	0.019	1.170	0.156	0.923	0.55	48.1	1.02	49.0	0.60	0.35
10:45	10:45	-0.25	34.5	52.4	7.4	49	34.1	1.06	0.017	1.170	0.162	0.972	0.73	46.2	1.04	47.1	0.49	0.47
11:00	11:00	0.00	34.2	51.8	7.4	45	33.2	0.92	0.016	1.150	0.192	0.973	0.99	49.2	0.90	50.1	0.38	0.57
11:30	11:30	0.50	34.5	52.6	7.4	47	34.1	0.98	0.013	1.170	0.180	0.990	0.93	48.2	0.96	49.2	0.41	0.77
12:00	12:00	1.00	34.4	51.5	7.4	46	33.9	0.99	0.017	1.160	0.203	0.968	0.97	46.7	0.97	47.6	0.45	0.99
12:30	12:30	1.50	34.4	51.6	7.4	50	33.9	0.96	0.013	1.140	0.219	0.944	1.05	52.4	0.94	53.4	0.44	1.22
13:00	13:00	2.00	34.4	51.8	7.4	49	33.9	0.96	0.003	1.160	0.207	0.944	0.94	51.0	0.94	52.0	0.49	1.46
13:30	13:30	2.50	34.5	52.2	7.4	49	33.9	0.97	0.012	1.160	0.196	0.959	0.96	50.8	0.95	51.8	0.43	1.68
14:00	14:00	3.00	35.2	49.0	7.5	50	34.8	1.16	0.010	1.160	0.213	0.956	1.00	43.3	1.13	44.1	0.55	1.95
14:30	14:30	3.50	35.2	48.5	7.4	49	34.7	1.02	0.010	1.150	0.195	0.964	0.99	48.0	1.00	49.0	0.45	2.18
15:00	15:00	4.00	35.2	48.3	7.4	47	34.7	1.11	0.008	1.140	0.189	0.967	1.05	42.5	1.08	43.4	0.45	2.40
15:30	15:30	4.50	35.2	47.8	7.5	47	34.6	1.00	0.000	1.160	0.182	0.977	0.99	47.2	0.98	48.2	0.43	2.62
16:00	16:00	5.00	35.2	48.1	7.4	47	34.6	1.03	0.008	1.140	0.186	1.000	1.27	45.9	1.01	46.8	0.34	2.79
16:30	16:30	5.50	35.1	48.1	7.4	45	34.6	0.95	0.003	1.150	0.175	0.966	0.93	47.6	0.93	48.6	0.41	2.99
17:00	17:00	6.00	35.1	47.8	7.5	44	34.6	1.05	0.000	1.150	0.165	0.984	0.99	42.1	1.02	42.9	0.41	3.19
17:30	17:30	6.50	35.1	48.0	7.4	44	34.6	1.05	0.009	1.160	0.173	0.977	0.90	41.9	1.03	42.7	0.45	3.42

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2563 DATE=09/20/95 ANIMAL/SIDE=95-3-16-R PHASE=1 FLAPWT=25.48 DOSETIME=11:00 GROUP=No Topical MEDVOL=509 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	HUMI MEDPH	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:00	18:00	7:00	35.1	47.7	7.4	44	34.6	34.6	1.13	0.008	1.130	0.183	0.990	1.25	39.1	1.10	39.9	0.37	3.61
18:30	18:30	7:50	35.1	47.6	7.4	42	34.6	34.6	1.08	0.002	1.140	0.160	0.960	0.88	38.9	1.06	39.7	0.46	3.84
19:00	19:00	8:00	35.0	47.7	7.4	42	34.6	34.6	1.07	0.009	1.130	0.181	0.933	0.87	39.3	1.05	40.0	0.50	4.08

----- FLAPNO=2564 DATE=09/20/95 ANIMAL/SIDE=95-3-16-L PHASE=1 FLAPWT=24.92 DOSETIME=10:45 GROUP=No Topical MEDVOL=487 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	HUMI MEDPH	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:49	-0.93	34.6	50.6	7.4	65	33.9	33.9	0.95	0.019	1.170	0.028	0.626	0.02	68.8	0.89	73.3	1.24	0.01
10:00	10:00	-0.75	34.4	51.0	7.4	56	33.7	33.7	1.00	0.020	1.150	0.060	0.898	0.16	56.3	0.93	60.0	0.60	0.12
10:15	10:15	-0.50	34.5	50.5	7.4	57	33.9	33.9	0.98	0.018	1.160	0.100	0.982	0.46	58.5	0.91	62.3	0.42	0.23
10:30	10:30	-0.25	34.6	50.2	7.4	53	34.0	34.0	1.05	0.018	1.150	0.113	1.030	0.79	50.5	0.99	53.8	0.30	0.30
10:45	10:45	0.00	34.3	49.2	7.4	50	33.6	33.6	1.03	0.017	1.150	0.140	1.010	0.88	48.5	0.97	51.7	0.35	0.39
11:15	11:15	0.50	34.6	49.9	7.4	50	34.1	34.1	1.02	0.020	1.160	0.127	1.040	0.89	49.0	0.96	52.2	0.29	0.54
11:45	11:45	1.00	34.7	49.1	7.4	47	34.1	34.1	0.97	0.019	1.160	0.130	1.060	1.11	48.7	0.91	51.9	0.23	0.65
12:15	12:15	1.50	34.7	49.7	7.4	46	34.1	34.1	1.01	0.019	1.120	0.121	1.050	1.46	45.5	0.95	48.5	0.17	0.74
12:45	12:45	2.00	34.6	49.6	7.4	39	34.1	34.1	1.00	0.005	1.150	0.117	1.040	1.02	39.0	0.94	41.6	0.26	0.87
13:15	13:15	2.50	34.6	49.7	7.4	38	34.1	34.1	0.99	0.020	1.140	0.124	1.040	1.04	38.4	0.93	40.9	0.24	0.99
13:45	13:45	3.00	34.8	47.6	7.5	36	34.3	34.3	0.98	0.019	1.150	0.130	1.040	1.01	36.9	0.91	39.3	0.26	1.12
14:15	14:15	3.50	34.6	47.7	7.4	35	34.2	34.2	1.05	0.019	1.130	0.135	1.050	1.45	33.3	0.99	35.5	0.20	1.22
14:45	14:45	4.00	34.6	47.2	7.4	34	34.2	34.2	1.02	0.017	1.160	0.127	1.070	1.22	33.3	0.96	35.5	0.22	1.33
15:15	15:15	4.50	34.6	46.2	7.4	33	33.2	33.2	1.02	0.007	1.160	0.129	1.030	0.94	32.4	0.96	34.5	0.32	1.49
15:45	15:45	5.00	34.8	46.7	7.4	33	34.2	34.2	1.02	0.004	1.140	0.130	1.040	1.26	32.5	0.95	34.6	0.24	1.61
16:15	16:15	5.50	34.7	46.5	7.4	33	34.2	34.2	1.04	0.002	1.170	0.131	1.070	1.29	31.7	0.98	33.8	0.25	1.74
16:45	16:45	6.00	34.8	46.4	7.4	33	34.2	34.2	1.10	0.003	1.170	0.130	1.040	0.98	30.1	1.03	32.1	0.34	1.91
17:15	17:15	6.50	34.8	46.4	7.4	33	34.2	34.2	1.02	0.008	1.160	0.107	1.050	0.90	32.4	0.96	34.5	0.27	2.04
17:45	17:45	7.00	34.8	46.0	7.4	31	34.1	34.1	1.00	0.011	1.150	0.100	1.070	1.11	31.0	0.94	33.0	0.19	2.14
18:15	18:15	7.50	34.7	45.5	7.4	31	34.1	34.1	1.03	0.008	1.160	0.124	1.030	0.89	30.2	0.96	32.2	0.32	2.30
18:45	18:45	8.00	34.7	45.7	7.4	33	34.1	34.1	1.07	0.005	1.160	0.127	1.030	0.94	30.8	1.00	32.9	0.33	2.47

----- FLAPNO=2566 DATE=09/21/95 ANIMAL/SIDE=95-3-12-L PHASE=1 FLAPWT=32.28 DOSETIME=10:15 GROUP=No Topical MEDVOL=486.9 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	HUMI MEDPH	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	33.6	48.9	7.4	47	33.3	33.3	1.00	0.010	1.140	0.133	0.824	0.39	47.2	0.93	50.4	0.58	0.01
9:30	9:30	-0.75	33.9	48.0	7.4	46	33.5	33.5	1.09	0.010	1.130	0.209	0.809	0.62	42.2	1.02	45.0	0.65	0.17
9:45	9:45	-0.50	34.1	47.7	7.4	47	33.7	33.7	0.99	0.022	1.150	0.246	0.850	0.75	47.5	0.93	50.6	0.55	0.31
10:00	10:00	-0.25	34.3	47.2	7.4	50	33.9	33.9	1.07	0.021	1.140	0.281	0.816	0.80	46.9	1.00	50.0	0.64	0.47
10:15	10:15	0.00	34.4	47.1	7.4	52	33.9	33.9	1.02	0.015	1.140	0.293	0.806	0.83	51.0	0.96	54.3	0.63	0.63

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2566 DATE=09/21/95 ANIMAL/SIDE=95-3-12-L PHASE=1 FLAPWT=32.28 DOSETIME=10:15 GROUP=No Topical MEDVOL=486.9 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:45	10:45	0.50	34.0	49.2	7.4	52	34.2	1.06	0.024	1.130	0.332	0.795	0.92	49.1	0.99	52.3	0.66	0.96
11:15	11:15	1.00	34.0	49.1	7.4	53	34.2	0.99	0.023	1.100	0.335	0.802	1.05	53.5	0.93	57.1	0.55	1.23
11:45	11:45	1.50	34.5	48.5	7.4	67	34.2	0.99	0.011	1.120	0.336	0.799	1.01	67.7	0.93	72.1	0.59	1.53
12:15	12:15	2.00	34.7	48.4	7.5	61	34.4	0.97	0.023	1.100	0.332	0.831	1.15	63.2	0.91	67.4	0.48	1.77
12:45	12:45	2.50	35.0	47.0	7.4	63	34.5	1.00	0.015	1.120	0.300	0.846	1.04	63.3	0.93	67.5	0.51	2.02
13:15	13:15	3.00	34.6	47.3	7.5	61	34.1	1.02	0.018	1.110	0.276	0.856	1.02	60.1	0.95	64.1	0.48	2.26
13:45	13:45	3.50	34.6	47.0	7.4	61	34.2	0.99	0.025	1.100	0.243	0.873	0.96	61.6	0.93	65.7	0.42	2.47
14:15	14:15	4.00	34.6	46.8	7.4	58	34.1	0.98	0.024	1.110	0.263	0.841	0.89	59.5	0.91	63.4	0.49	2.72
14:45	14:45	4.50	34.6	46.9	7.4	56	34.1	1.00	0.023	1.110	0.247	0.875	0.95	56.0	0.94	59.7	0.44	2.93
15:15	15:15	5.00	34.6	47.5	7.4	55	34.1	0.99	0.028	1.090	0.278	0.831	0.97	55.8	0.92	59.5	0.47	3.17
15:45	15:45	5.50	34.6	46.7	7.4	50	34.1	1.01	0.030	1.120	0.248	0.848	0.80	49.8	0.94	53.0	0.51	3.43
16:15	16:15	6.00	34.6	47.2	7.4	51	34.2	0.97	0.024	1.120	0.231	0.888	0.89	52.6	0.91	56.0	0.42	3.63
16:45	16:45	6.50	34.7	47.0	7.4	50	34.2	1.00	0.027	1.110	0.213	0.895	0.87	50.3	0.93	53.6	0.40	3.83
17:15	17:15	7.00	34.7	47.3	7.4	51	34.2	0.99	0.030	1.130	0.224	0.899	0.84	51.5	0.93	54.9	0.43	4.05
17:45	17:45	7.50	34.7	48.1	7.4	50	34.2	1.02	0.021	1.130	0.222	0.896	0.86	49.0	0.96	52.3	0.44	4.27
18:15	18:15	8.00	34.7	47.7	7.4	49	34.2	0.99	0.035	1.110	0.234	0.885	0.88	49.7	0.92	53.0	0.41	4.47

----- FLAPNO=2567 DATE=09/27/95 ANIMAL/SIDE=95-11-6-R PHASE=2 FLAPWT=30.38 DOSETIME=11:01 GROUP=EtoH MEDVOL=476 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-1.02	35.4	40.6	7.4	89	36.9	0.92	0.022	1.160	0.046	0.839	0.07	96.7	0.84	105.5	0.58	0.01
10:15	10:15	-0.77	34.8	41.2	7.4	103	35.4	1.07	0.022	1.170	0.089	0.860	0.22	96.3	0.98	105.0	0.66	0.17
10:30	10:30	-0.52	33.8	46.0	7.4	105	36.1	1.02	0.023	1.170	0.092	0.929	0.29	103.4	0.93	112.8	0.48	0.29
10:45	10:45	-0.27	34.4	45.1	7.4	103	38.1	1.01	0.022	1.180	0.099	1.010	0.45	102.5	0.92	111.7	0.34	0.38
11:00	11:01	0.00	33.2	46.8	7.4	107	36.2	0.99	0.014	1.170	0.140	0.979	0.66	108.1	0.91	117.8	0.37	0.48
11:30	11:30	0.48	34.1	45.4	7.4	83	36.2	1.01	0.021	1.160	0.182	0.961	0.81	82.6	0.92	90.0	0.39	0.67
12:00	12:00	0.98	34.6	43.7	7.4	73	36.2	1.01	0.020	1.150	0.139	1.010	0.85	72.6	0.92	79.2	0.28	0.81
12:30	12:30	1.48	36.6	40.4	7.4	54	37.9	0.92	0.023	1.150	0.102	1.060	0.88	59.0	0.84	64.3	0.16	0.89
13:00	13:00	1.98	36.4	39.0	7.4	51	37.3	1.08	0.018	1.180	0.158	1.060	1.17	47.4	0.99	51.7	0.25	1.02
13:30	13:30	2.48	36.1	38.4	7.4	47	37.3	0.95	0.019	1.160	0.122	1.100	1.72	49.7	0.87	54.2	0.11	1.07
14:00	14:00	2.98	36.0	37.2	7.4	47	36.9	0.97	0.021	1.170	0.119	1.060	0.99	48.5	0.89	52.8	0.21	1.18
14:30	14:30	3.48	36.0	36.9	7.4	47	36.9	0.99	0.025	1.180	0.134	1.070	0.89	47.7	0.90	52.0	0.21	1.29
15:00	15:00	3.98	36.0	37.0	7.4	47	36.8	1.00	0.028	1.170	0.148	1.050	1.00	47.2	0.91	51.5	0.24	1.40
15:30	15:30	4.48	36.3	36.3	7.4	49	36.8	0.99	0.028	1.170	0.141	1.030	0.81	49.5	0.91	54.0	0.27	1.54
16:00	16:00	4.98	35.9	36.3	7.4	49	36.9	0.95	0.029	1.150	0.156	1.040	1.15	51.9	0.87	56.5	0.21	1.64
16:30	16:30	5.48	36.0	37.7	7.4	47	36.8	1.03	0.030	1.150	0.179	0.986	0.91	45.6	0.94	49.8	0.33	1.81
17:00	17:00	5.98	35.9	37.5	7.4	47	36.8	0.96	0.030	1.140	0.162	0.994	0.90	49.0	0.88	53.4	0.28	1.95
17:30	17:30	6.48	35.9	36.8	7.4	44	36.9	1.01	0.029	1.150	0.157	0.996	0.83	43.6	0.93	47.5	0.31	2.10
18:00	18:00	6.98	36.7	36.2	7.4	44	37.8	0.99	0.033	1.140	0.164	0.981	0.82	44.4	0.91	48.5	0.31	2.26
18:30	18:30	7.48	36.7	36.7	7.4	42	37.7	1.00	0.031	1.140	0.166	0.976	0.82	42.0	0.92	45.8	0.32	2.42

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2567 DATE=09/27/95 ANIMAL/SIDE=95-11-6-R PHASE=2 FLAPWT=30.38 DOSETIME=11:01 GROUP=EtoH MEDVOL=476 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
19:00	19:00	7.98	36.6	37.8	7.4	41	37.6	1.04	0.033	1.140	0.168	0.993	0.92	39.4	0.95	43.0	0.30	2.57

----- FLAPNO=2569 DATE=09/28/95 ANIMAL/SIDE=95-6-7-R PHASE=2 FLAPWT=32.47 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=474 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.4	41.7	7.3	78	37.3	1.01	0.027	1.140	0.035	1.120	0.40	77.6	0.92	85.0	0.04	0.01
9:30	9:30	-0.75	35.4	35.4	7.4	88	35.7	1.06	0.026	1.140	0.039	1.130	1.30	83.4	0.96	91.3	0.02	0.01
9:45	9:45	-0.50	36.0	41.9	7.3	100	36.5	0.84	0.026	1.150	0.221	0.891	0.75	119.0	0.77	130.3	0.40	0.12
10:00	10:00	-0.25	36.5	40.4	7.4	76	37.4	1.00	0.028	1.150	0.132	1.006	0.72	76.4	0.91	83.6	0.26	0.18
10:15	10:15	0.00	36.3	41.0	7.4	65	37.3	0.90	0.030	1.150	0.042	1.120	0.40	72.2	0.82	79.1	0.05	0.19
10:45	10:45	0.50	36.4	40.5	7.4	75	37.4	1.02	0.035	1.140	0.368	0.793	0.96	73.5	0.93	80.5	0.65	0.52
11:15	11:15	1.00	36.8	38.3	7.4	73	37.6	0.99	0.037	1.130	0.344	0.792	0.91	74.1	0.90	81.1	0.62	0.83
11:45	11:45	1.50	37.2	38.4	7.4	70	37.7	1.00	0.039	1.130	0.366	0.785	0.95	70.0	0.91	76.6	0.64	1.15
12:15	12:15	2.00	37.4	36.3	7.4	69	37.9	1.00	0.038	1.140	0.381	0.780	0.95	69.3	0.91	75.9	0.66	1.48
12:45	12:45	2.50	37.5	34.7	7.4	67	37.9	1.05	0.039	1.130	0.379	0.788	0.99	64.1	0.95	70.2	0.66	1.81
13:15	13:15	3.00	36.6	34.3	7.4	63	37.2	1.04	0.024	1.150	0.363	0.785	0.93	60.9	0.95	66.6	0.70	2.16
13:45	13:45	3.50	36.1	34.5	7.4	64	37.1	1.00	0.024	1.150	0.347	0.792	0.90	64.3	0.91	70.4	0.66	2.49
14:15	14:15	4.00	36.0	33.5	7.4	65	37.1	1.01	0.030	1.150	0.341	0.814	0.93	64.4	0.92	70.5	0.63	2.80
14:45	14:45	4.50	36.0	37.5	7.4	66	37.1	1.00	0.031	1.140	0.324	0.827	0.94	66.3	0.91	72.6	0.58	3.09
15:15	15:15	5.00	36.2	37.2	7.4	66	37.2	0.97	0.030	1.140	0.322	0.845	0.99	68.4	0.88	74.9	0.53	3.35
15:45	15:45	5.50	36.1	39.2	7.4	67	37.1	1.00	0.036	1.140	0.295	0.871	0.96	67.0	0.91	73.4	0.50	3.60
16:15	16:15	6.00	36.3	36.6	7.4	66	37.2	1.01	0.031	1.140	0.286	0.872	0.95	65.7	0.92	71.9	0.50	3.85
16:45	16:45	6.50	36.3	36.1	7.4	64	37.2	1.01	0.028	1.150	0.277	0.875	0.91	63.4	0.92	69.4	0.51	4.11
17:15	17:15	7.00	36.4	40.7	7.4	63	37.2	1.04	0.031	1.170	0.268	0.877	0.81	60.9	0.95	66.6	0.56	4.39
17:45	17:45	7.50	36.4	41.9	7.4	61	37.2	0.98	0.031	1.140	0.279	0.877	0.94	62.6	0.89	68.5	0.47	4.62
18:15	18:15	8.00	36.4	41.4	7.4	60	37.3	1.01	0.038	1.130	0.276	0.882	0.96	59.4	0.92	65.0	0.46	4.85

----- FLAPNO=2570 DATE=09/28/95 ANIMAL/SIDE=95-6-7-L PHASE=2 FLAPWT=34.97 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=524 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	36.2	41.2	7.4	48	36.3	1.07	0.020	1.160	0.046	0.490	0.04	45.1	1.08	44.6	1.22	0.01
9:15	9:15	-0.75	36.8	41.1	7.4	42	36.6	1.08	0.024	1.160	0.118	0.685	0.20	38.9	1.09	38.5	0.88	0.23
9:30	9:30	-0.50	37.2	40.2	7.4	38	36.7	1.13	0.021	1.170	0.176	0.745	0.36	33.8	1.14	33.5	0.82	0.44
9:45	9:45	-0.25	37.6	39.3	7.4	34	36.9	1.11	0.022	1.170	0.205	0.764	0.45	30.6	1.12	30.3	0.77	0.63
10:00	10:00	0.00	37.6	37.2	7.4	32	36.9	1.06	0.022	1.170	0.234	0.783	0.55	30.3	1.07	30.0	0.70	0.80
10:30	10:30	0.50	38.1	38.6	7.4	33	37.2	0.92	0.029	1.160	0.330	0.823	0.89	36.1	0.92	35.7	0.53	1.07
11:00	11:00	1.00	38.1	37.0	7.4	30	37.3	1.00	0.029	1.150	0.350	0.823	0.98	30.0	1.01	29.7	0.56	1.35

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2570 DATE=09/28/95 ANIMAL/SIDE=95-6-7-L PHASE=2 FLAPWT=34.97 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=524 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:30	11:30	1.50	38.4	36.3	7.4	29	37.6	1.03	0.030	1.140	0.384	0.817	1.10	28.2	1.04	27.9	0.57	1.63
12:00	12:00	2.00	38.6	35.5	7.4	29	37.7	1.00	0.030	1.150	0.404	0.791	1.04	29.0	1.01	28.7	0.62	1.94
12:30	12:30	2.50	38.8	35.2	7.4	29	38.0	0.99	0.021	1.170	0.415	0.767	0.98	29.4	0.99	29.2	0.68	2.28
13:00	13:00	3.00	38.7	32.4	7.4	30	37.5	1.00	0.028	1.170	0.411	0.774	0.97	30.2	1.00	29.9	0.68	2.62
13:30	13:30	3.50	37.9	32.7	7.4	34	36.7	0.99	0.016	1.170	0.381	0.795	0.97	34.3	1.00	34.0	0.64	2.94
14:00	14:00	4.00	37.5	31.2	7.4	35	36.4	1.00	0.013	1.170	0.358	0.814	0.97	35.2	1.00	34.8	0.61	3.24
14:30	14:30	4.50	37.4	35.0	7.4	36	36.5	0.99	0.022	1.170	0.326	0.851	0.95	36.4	1.00	36.0	0.54	3.51
15:00	15:00	5.00	37.4	35.2	7.4	37	37.1	0.99	0.015	1.170	0.299	0.897	1.04	37.6	1.00	37.2	0.46	3.74
15:30	15:30	5.50	37.9	37.5	7.4	38	37.0	1.02	0.017	1.160	0.275	0.920	1.08	37.3	1.03	36.9	0.42	3.95
16:00	16:00	6.00	37.6	36.3	7.4	38	36.6	1.01	0.021	1.170	0.263	0.934	1.03	37.8	1.01	37.5	0.41	4.16
16:30	16:30	6.50	37.5	36.6	7.4	38	36.6	1.00	0.014	1.170	0.254	0.935	1.02	38.2	1.00	37.8	0.40	4.36
17:00	17:00	7.00	37.5	40.2	7.4	37	36.6	0.99	0.024	1.160	0.244	0.936	0.98	37.6	0.99	37.2	0.38	4.55
17:30	17:30	7.50	37.6	39.7	7.4	37	36.7	1.00	0.019	1.170	0.242	0.929	0.93	37.2	1.00	36.8	0.41	4.75
18:00	18:00	8.00	37.5	39.9	7.4	37	36.6	0.99	0.016	1.170	0.245	0.944	1.01	37.6	0.99	37.2	0.38	4.94

----- FLAPNO=2571 DATE=10/04/95 ANIMAL/SIDE=95-15-4-R PHASE=2 FLAPWT=44.22 DOSETIME=10:30 GROUP=3 mg HD MEDVOL=474 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.3	41.8	7.4	36	36.7	1.01	0.022	1.150	0.111	0.625	0.17	35.6	0.92	39.0	0.72	0.01
9:45	9:45	-0.75	36.4	41.6	7.3	34	36.4	1.00	0.021	1.150	0.216	0.641	0.38	34.2	0.91	37.4	0.69	0.18
10:00	10:00	-0.50	36.6	41.1	7.4	32	36.4	1.01	0.011	1.180	0.300	0.643	0.54	31.7	0.92	34.7	0.74	0.37
10:15	10:15	-0.25	36.7	40.1	7.4	31	36.5	1.01	0.011	1.210	0.381	0.626	0.63	30.7	0.92	33.6	0.80	0.57
10:30	10:30	0.00	36.7	40.5	7.4	31	36.3	1.02	0.024	1.170	0.430	0.624	0.74	30.5	0.93	33.4	0.75	0.75
11:00	11:00	0.50	36.7	39.7	7.4	32	36.3	1.01	0.024	1.170	0.453	0.655	0.83	31.8	0.92	34.9	0.70	1.10
11:30	11:30	1.00	36.7	39.7	7.4	29	36.3	1.02	0.009	1.180	0.500	0.641	0.91	28.4	0.93	31.1	0.75	1.48
12:00	12:00	1.50	36.7	39.8	7.4	33	36.4	1.00	0.008	1.190	0.521	0.624	0.91	33.0	0.91	36.1	0.77	1.86
12:30	12:30	2.00	36.6	39.9	7.4	29	36.3	1.01	0.015	1.190	0.507	0.638	0.89	28.9	0.92	31.6	0.75	2.24
13:00	13:00	2.50	36.6	40.0	7.4	25	36.3	1.01	0.008	1.190	0.489	0.673	0.93	24.8	0.92	27.1	0.71	2.59
13:30	13:30	3.00	36.6	39.1	7.4	30	36.3	1.01	0.008	1.170	0.462	0.698	0.96	29.7	0.92	32.5	0.65	2.92
14:00	14:00	3.50	36.6	39.4	7.4	28	36.3	1.01	0.020	1.150	0.465	0.713	1.02	27.9	0.92	30.5	0.60	3.21
14:30	14:30	4.00	36.9	39.2	7.4	27	36.6	1.00	0.021	1.180	0.445	0.734	0.95	27.0	0.91	29.6	0.61	3.52
15:00	15:00	4.50	37.0	38.7	7.4	26	36.6	1.01	0.015	1.180	0.429	0.739	0.94	25.9	0.92	28.3	0.60	3.82
15:30	15:30	5.00	37.0	39.4	7.4	27	36.6	1.00	0.010	1.180	0.415	0.772	0.99	27.0	0.91	29.6	0.55	4.09
16:00	16:00	5.50	37.0	38.5	7.4	26	36.6	1.00	0.025	1.160	0.393	0.809	1.05	26.0	0.91	28.5	0.48	4.33
16:30	16:30	6.00	37.1	38.7	7.4	25	36.7	1.01	0.012	1.160	0.354	0.793	0.93	24.9	0.92	27.2	0.50	4.58
17:00	17:00	6.50	37.1	38.8	7.4	28	36.6	1.00	0.009	1.190	0.357	0.827	0.96	28.1	0.91	30.8	0.49	4.83
17:30	17:30	7.00	37.1	38.7	7.4	25	36.7	1.00	0.015	1.160	0.338	0.823	0.96	25.0	0.91	27.4	0.46	5.06
18:00	18:00	7.50	37.1	38.7	7.4	25	36.7	0.99	0.015	1.150	0.328	0.819	0.95	25.3	0.90	27.6	0.44	5.28
18:30	18:30	8.00	37.1	38.3	7.4	25	36.7	1.00	0.026	1.140	0.320	0.831	0.95	25.0	0.91	27.4	0.42	5.49

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2572 DATE=10/04/95 ANIMAL/SIDE=95-15-4-L PHASE=2 FLAPWT=36.32 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=540 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	37.7	41.2	7.4	52	37.6	1.00	0.022	1.140	0.056	0.898	0.14	52.0	1.04	50.0	0.40	0.01
9:30	9:30	-0.75	36.9	41.5	7.4	40	35.9	1.01	0.022	1.140	0.216	0.677	0.42	39.6	1.05	38.1	0.77	0.20
9:45	9:45	-0.50	37.5	39.2	7.4	35	36.3	1.00	0.022	1.160	0.317	0.683	0.62	35.2	1.04	33.8	0.78	0.40
10:00	10:00	-0.25	37.6	38.5	7.4	36	36.4	1.00	0.024	1.180	0.336	0.719	0.68	36.2	1.04	34.8	0.76	0.59
10:15	10:15	0.00	37.9	37.7	7.4	34	36.5	1.00	0.010	1.200	0.403	0.679	0.75	34.0	1.04	32.7	0.86	0.80
10:45	10:45	0.50	37.9	37.4	7.4	33	36.4	0.99	0.024	1.150	0.456	0.669	0.90	33.3	1.03	32.0	0.79	1.20
11:15	11:15	1.00	38.0	37.1	7.3	33	36.4	0.99	0.013	1.180	0.476	0.683	0.93	33.5	1.02	32.2	0.81	1.60
11:45	11:45	1.50	38.0	37.1	7.3	32	36.6	1.00	0.015	1.180	0.502	0.635	0.89	32.2	1.04	30.9	0.90	2.05
12:15	12:15	2.00	38.0	36.6	7.3	33	36.6	1.01	0.011	1.190	0.435	0.704	0.87	32.8	1.05	31.6	0.81	2.45
12:45	12:45	2.50	38.1	36.6	7.3	34	36.6	1.01	0.015	1.180	0.452	0.723	0.96	33.8	1.05	32.5	0.76	2.83
13:15	13:15	3.00	38.1	36.2	7.3	34	36.7	1.02	0.014	1.180	0.454	0.696	0.91	33.5	1.06	32.2	0.81	3.24
13:45	13:45	3.50	38.0	36.6	7.3	34	36.6	1.00	0.012	1.180	0.468	0.693	0.94	34.0	1.04	32.7	0.80	3.64
14:15	14:15	4.00	38.0	36.7	7.3	35	36.6	1.00	0.011	1.180	0.431	0.743	0.96	35.2	1.04	33.8	0.72	4.00
14:45	14:45	4.50	38.0	36.7	7.3	36	36.6	0.99	0.023	1.170	0.402	0.777	0.96	36.4	1.03	34.9	0.64	4.32
15:15	15:15	5.00	38.1	36.6	7.3	37	36.7	1.01	0.013	1.180	0.329	0.835	0.92	36.6	1.05	35.2	0.58	4.61
15:45	15:45	5.50	38.1	37.1	7.3	41	36.7	1.00	0.023	1.140	0.259	0.941	1.19	41.0	1.04	39.4	0.33	4.77
16:15	16:15	6.00	38.0	37.2	7.3	41	36.6	1.01	0.013	1.150	0.250	0.917	1.02	40.6	1.05	39.0	0.39	4.97
16:45	16:45	6.50	37.9	34.3	7.3	43	36.6	1.01	0.009	1.160	0.212	0.959	1.01	42.8	1.05	41.1	0.33	5.13
17:15	17:15	7.00	38.1	36.6	7.3	44	36.6	1.00	0.011	1.190	0.205	0.954	0.82	44.2	1.04	42.5	0.39	5.33
17:45	17:45	7.50	38.1	37.1	7.3	44	36.6	1.01	0.011	1.160	0.206	0.948	0.92	43.8	1.05	42.1	0.35	5.50
18:15	18:15	8.00	38.1	37.0	7.4	44	36.6	1.00	0.024	1.140	0.196	0.950	0.91	44.2	1.04	42.5	0.31	5.66

----- FLAPNO=2573 DATE=10/11/95 ANIMAL/SIDE=95-19-11-R PHASE=2 FLAPWT=37.19 DOSETIME=10:15 GROUP=EtoH MEDVOL=502 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	37.7	40.2	7.4	50	37.1	1.00	0.013	1.210	0.057	0.563	0.07	50.3	0.96	52.0	1.04	0.01
9:30	9:30	-0.75	37.9	39.2	7.3	54	37.3	1.00	0.022	1.160	0.131	0.790	0.29	54.0	0.97	55.8	0.60	0.16
9:45	9:45	-0.50	38.1	38.6	7.4	48	37.4	1.01	0.015	1.200	0.191	0.817	0.46	47.8	0.97	49.4	0.62	0.31
10:00	10:00	-0.25	38.1	37.2	7.4	44	37.4	1.01	0.022	1.140	0.227	0.829	0.66	43.8	0.97	45.3	0.50	0.44
10:15	10:15	0.00	38.1	36.5	7.4	44	36.9	1.01	0.024	1.150	0.270	0.823	0.75	43.6	0.98	45.0	0.53	0.57
10:45	10:45	0.50	38.4	36.6	7.4	41	36.9	0.99	0.025	1.140	0.271	0.885	0.96	41.4	0.96	42.8	0.41	0.78
11:15	11:15	1.00	38.5	36.3	7.4	40	37.6	1.01	0.025	1.150	0.266	0.909	1.00	39.6	0.98	40.9	0.39	0.97
11:45	11:45	1.50	38.5	36.4	7.4	44	37.6	1.01	0.018	1.210	0.259	0.923	0.84	43.8	0.97	45.3	0.47	1.21
12:15	12:15	2.00	38.6	36.6	7.4	37	37.6	1.00	0.022	1.180	0.248	0.936	0.93	37.0	0.97	38.3	0.39	1.40
12:45	12:45	2.50	38.5	36.1	7.4	36	37.5	1.00	0.019	1.170	0.262	0.930	1.01	36.2	0.96	37.4	0.39	1.60
13:15	13:15	3.00	38.5	35.8	7.4	35	37.6	1.01	0.026	1.190	0.268	0.908	0.86	34.8	0.97	36.0	0.46	1.82
13:45	13:45	3.50	38.6	35.2	7.4	34	37.7	1.00	0.025	1.180	0.263	0.900	0.85	34.0	0.97	35.2	0.45	2.05
14:15	14:15	4.00	38.8	34.8	7.4	34	37.7	1.01	0.022	1.170	0.261	0.909	0.92	33.8	0.97	35.0	0.42	2.26
14:45	14:45	4.50	39.0	34.5	7.3	33	38.0	0.99	0.028	1.220	0.269	0.909	0.77	33.3	0.96	34.5	0.50	2.51
15:15	15:15	5.00	38.8	33.9	7.4	33	37.7	0.99	0.019	1.060	0.277	0.893	1.54	33.5	0.95	34.6	0.27	2.64
15:45	15:45	5.50	38.8	34.0	7.4	32	37.7	0.99	0.021	1.070	0.256	0.822	0.95	32.5	0.95	33.6	0.39	2.84

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2573 DATE=10/11/95 ANIMAL/SIDE=95-19-11-R PHASE=2 FLAPWT=37.19 DOSETIME=10:15 GROUP=EtoH MEDVOL=502 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:15	16:15	6.00	38.5	34.0	7.4	32	37.9	0.99	0.025	1.100	0.261	0.811	0.82	32.3	0.96	33.4	0.46	3.07
16:45	16:45	6.50	38.9	34.8	7.4	32	37.9	1.00	0.030	1.080	0.269	0.805	0.87	32.0	0.97	33.1	0.44	3.29
17:15	17:15	7.00	39.0	34.8	7.3	31	37.9	1.00	0.028	1.090	0.282	0.810	0.91	31.0	0.97	32.0	0.45	3.52
17:45	17:45	7.50	38.8	35.1	7.3	31	37.8	1.00	0.030	1.050	0.287	0.775	0.93	31.2	0.96	32.2	0.44	3.74
18:15	18:15	8.00	39.1	35.3	7.3	31	38.1	0.99	0.038	1.040	0.297	0.741	0.87	31.3	0.96	32.4	0.48	3.98

----- FLAPNO=2574 DATE=10/11/95 ANIMAL/SIDE=95-19-11-L PHASE=2 FLAPWT=40.32 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=494 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.2	44.1	7.4	65	37.4	0.99	0.017	1.150	0.030	0.597	0.02	65.7	0.94	69.0	0.81	0.01
9:15	9:15	-0.72	35.0	43.3	7.4	47	35.9	1.01	0.022	1.120	0.075	0.619	0.11	46.8	0.96	49.1	0.75	0.20
9:30	9:30	-0.47	35.3	42.6	7.4	42	36.2	1.01	0.024	1.140	0.135	0.654	0.23	41.8	0.96	43.9	0.73	0.38
9:45	9:45	-0.22	35.6	42.1	7.4	38	36.3	1.02	0.023	1.110	0.193	0.745	0.47	37.4	0.97	39.3	0.55	0.52
10:00	9:58	0.00	35.6	40.6	7.4	37	36.2	1.01	0.020	1.160	0.238	0.783	0.58	36.8	0.96	38.7	0.56	0.64
10:30	10:30	0.53	35.7	40.7	7.4	34	36.4	1.00	0.027	1.150	0.292	0.809	0.78	34.0	0.95	35.7	0.51	0.91
11:00	11:00	1.03	35.9	40.8	7.4	33	36.4	1.00	0.026	1.130	0.320	0.807	0.91	33.0	0.95	34.7	0.48	1.15
11:30	11:30	1.53	35.9	40.7	7.4	38	36.5	1.01	0.020	1.190	0.329	0.831	0.86	37.8	0.96	39.7	0.54	1.42
12:00	12:00	2.03	35.9	40.7	7.4	36	36.5	1.00	0.020	1.180	0.307	0.876	0.94	36.0	0.95	37.8	0.45	1.64
12:30	12:30	2.53	35.9	40.6	7.4	35	36.5	1.00	0.023	1.170	0.297	0.873	0.92	35.0	0.95	36.8	0.44	1.87
13:00	13:00	3.03	36.0	40.1	7.4	38	36.5	1.02	0.022	1.180	0.281	0.899	0.92	37.4	0.97	39.3	0.42	2.08
13:30	13:30	3.53	36.0	39.0	7.4	37	36.5	0.99	0.021	1.170	0.264	0.920	0.97	37.6	0.94	39.5	0.37	2.26
14:00	14:00	4.03	36.0	38.8	7.4	37	36.5	1.02	0.021	1.160	0.226	0.864	0.69	36.5	0.97	38.3	0.45	2.48
14:30	14:30	4.53	36.0	38.5	7.4	37	36.6	1.00	0.029	1.150	0.238	0.977	1.21	37.0	0.95	38.9	0.26	2.61
15:00	15:00	5.03	36.0	38.2	7.4	37	36.6	1.01	0.027	1.130	0.222	0.943	1.04	36.6	0.96	38.5	0.28	2.75
15:30	15:30	5.53	36.1	37.5	7.4	37	36.6	1.02	0.021	1.160	0.214	0.961	0.97	36.5	0.97	38.3	0.30	2.90
16:00	16:00	6.03	36.1	37.8	7.4	37	36.6	1.01	0.024	1.160	0.217	0.965	0.99	36.8	0.96	38.7	0.29	3.05
16:30	16:30	6.53	36.1	38.2	7.4	35	36.7	1.00	0.023	1.150	0.192	0.966	0.92	35.0	0.95	36.8	0.27	3.19
17:00	17:00	7.03	36.1	37.7	7.4	37	36.6	1.00	0.015	1.160	0.194	0.983	1.01	37.0	0.95	38.9	0.26	3.32
17:30	17:30	7.53	36.0	37.7	7.4	35	36.5	1.00	0.021	1.110	0.205	0.941	1.09	35.0	0.95	36.8	0.25	3.44
18:00	18:00	8.03	36.1	38.7	7.4	35	36.6	1.00	0.022	1.120	0.193	0.923	0.87	35.0	0.95	36.8	0.29	3.59

----- FLAPNO=2575 DATE=10/12/95 ANIMAL/SIDE=95-19-13-R PHASE=2 FLAPWT=38.13 DOSETIME=10:26 GROUP=3 mg HD MEDVOL=528 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:31	-0.92	35.3	56.6	7.4	30	36.2	0.99	0.028	1.180	0.096	0.703	0.14	30.3	1.01	29.8	0.74	0.01
9:45	9:45	-0.68	35.6	54.3	7.4	31	36.4	0.97	0.031	1.180	0.200	0.679	0.34	32.1	0.98	31.6	0.76	0.19
10:00	10:00	-0.43	35.8	52.1	7.4	29	36.4	0.99	0.030	1.160	0.272	0.721	0.55	29.4	1.00	28.9	0.68	0.36

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2575 DATE=10/12/95 ANIMAL/SIDE=95-19-13-R PHASE=2 FLAPWT=38.13 DOSETIME=10:26 GROUP=3 mg HD MEDVOL=528 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:15	10:15	-0.18	36.1	51.8	7.4	25	36.2	1.01	0.034	1.180	0.329	0.715	0.63	24.9	1.02	24.5	0.74	0.54
10:30	10:26	0.00	36.1	51.9	7.4	28	36.1	1.00	0.032	1.150	0.358	0.704	0.73	28.0	1.02	27.5	0.70	0.67
11:00	11:00	0.57	36.1	52.1	7.4	27	36.1	1.01	0.020	1.180	0.412	0.701	0.82	26.9	1.02	26.4	0.76	1.10
11:30	11:30	1.07	36.0	52.4	7.4	24	35.9	0.99	0.039	1.180	0.435	0.714	0.85	24.4	1.00	24.0	0.72	1.46
12:00	12:00	1.57	36.1	51.9	7.4	28	35.6	1.01	0.029	1.200	0.363	0.763	0.76	27.9	1.02	27.4	0.69	1.81
12:30	12:30	2.07	36.2	51.0	7.4	26	36.2	0.98	0.028	1.160	0.326	0.838	0.93	26.7	0.99	26.2	0.49	2.05
13:00	13:00	2.57	36.1	51.4	7.4	28	36.2	0.99	0.027	1.170	0.310	0.859	0.91	28.4	1.00	27.9	0.48	2.29
13:30	13:30	3.07	36.2	50.1	7.4	37	36.2	1.00	0.031	1.180	0.283	0.878	0.83	37.0	1.02	36.4	0.48	2.53
14:00	14:00	3.57	36.2	48.2	7.4	33	36.2	0.99	0.033	1.180	0.221	0.930	0.75	33.3	1.01	32.8	0.39	2.73
14:30	14:30	4.07	36.3	49.3	7.4	33	36.2	1.01	0.029	1.160	0.213	0.966	0.95	32.7	1.03	32.1	0.31	2.88
15:00	15:00	4.57	36.3	49.2	7.4	32	36.2	1.00	0.031	1.170	0.192	0.976	0.83	32.2	1.01	31.6	0.30	3.03
15:30	15:30	5.07	36.3	48.8	7.4	33	36.2	1.01	0.035	1.160	0.196	0.967	0.83	32.8	1.02	32.3	0.31	3.19
16:00	16:00	5.57	36.3	49.0	7.4	33	36.2	1.02	0.032	1.170	0.198	0.977	0.86	32.5	1.03	32.0	0.31	3.34
16:30	16:30	6.07	36.3	49.1	7.4	33	36.2	1.02	0.025	1.170	0.195	0.950	0.77	32.4	1.04	31.8	0.35	3.52
17:00	17:00	6.57	36.3	49.3	7.4	33	36.2	1.03	0.300	1.170	0.195	0.979	-0.55	32.0	1.05	31.5	0.31	3.67
17:30	17:30	7.07	36.3	48.5	7.4	33	36.2	1.03	0.024	1.160	0.200	0.972	0.94	32.0	1.05	31.5	0.30	3.82
18:00	18:00	7.57	36.3	49.1	7.4	33	36.2	1.06	0.029	1.150	0.189	0.961	0.85	31.1	1.08	30.6	0.32	3.98
18:30	18:30	8.07	36.3	49.3	7.5	33	36.2	1.03	0.030	1.210	0.185	0.974	0.66	32.2	1.04	31.6	0.38	4.17

----- FLAPNO=2576 DATE=10/12/95 ANIMAL/SIDE=95-19-13-L PHASE=2 FLAPWT=32.01 DOSETIME=10:43 GROUP=ETOH MEDVOL=511 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-0.97	37.1	39.8	7.4	39	36.1	0.98	0.029	1.150	0.101	0.718	0.17	39.8	0.96	40.4	0.79	0.01
10:00	10:00	-0.72	37.9	38.6	7.4	37	37.3	1.02	0.029	1.120	0.188	0.713	0.39	36.3	1.00	36.8	0.78	0.20
10:15	10:15	-0.47	38.2	38.4	7.4	33	37.3	1.00	0.030	1.110	0.246	0.753	0.61	33.2	0.98	33.7	0.67	0.37
10:30	10:30	-0.22	38.4	37.7	7.4	31	37.6	1.00	0.032	1.110	0.289	0.762	0.74	31.2	0.98	31.6	0.65	0.53
10:45	10:43	0.00	38.3	37.2	7.4	30	36.9	1.00	0.035	1.120	0.287	0.811	0.82	30.0	0.98	30.5	0.58	0.66
11:15	11:15	0.53	37.8	38.6	7.4	28	36.8	0.99	0.037	1.130	0.330	0.779	0.83	28.4	0.97	28.9	0.65	1.00
11:45	11:45	1.03	38.6	38.0	7.4	29	37.7	0.99	0.035	1.140	0.342	0.794	0.89	29.4	0.97	29.9	0.64	1.32
12:15	12:15	1.53	39.0	37.8	7.4	31	38.1	1.01	0.029	1.150	0.325	0.793	0.83	30.7	0.99	31.2	0.68	1.66
12:45	12:45	2.03	38.2	37.4	7.4	31	37.1	0.98	0.031	1.150	0.348	0.785	0.87	31.8	0.96	32.3	0.67	2.00
13:15	13:15	2.53	38.6	37.8	7.4	33	37.6	0.99	0.034	1.160	0.323	0.822	0.86	33.3	0.97	33.9	0.63	2.31
13:45	13:45	3.03	38.4	37.0	7.4	34	37.4	1.02	0.035	1.170	0.350	0.796	0.84	33.3	1.00	33.9	0.72	2.67
14:15	14:15	3.53	38.5	36.1	7.4	35	37.4	1.00	0.045	1.150	0.317	0.821	0.83	35.0	0.98	35.5	0.62	2.97
14:45	14:45	4.03	38.4	37.5	7.4	35	37.2	1.01	0.040	1.160	0.305	0.824	0.79	34.8	0.99	35.4	0.63	3.29
15:15	15:15	4.53	38.3	36.5	7.4	36	37.2	1.01	0.039	1.170	0.271	0.876	0.82	35.6	0.99	35.2	0.54	3.56
15:45	15:45	5.03	38.2	36.6	7.4	35	37.1	1.01	0.039	1.160	0.262	0.884	0.78	34.7	0.99	35.2	0.54	3.83
16:15	16:15	5.53	38.5	36.9	7.4	36	37.6	0.99	0.035	1.160	0.226	0.929	0.83	36.4	0.97	36.9	0.43	4.05
16:45	16:45	6.03	35.2	40.0	7.4	35	37.5	1.03	0.038	1.150	0.221	0.928	0.82	34.0	1.01	34.5	0.43	4.26
17:15	17:15	6.53	36.1	39.4	7.4	36	38.4	0.98	0.048	1.130	0.223	0.926	0.86	36.7	0.96	37.3	0.37	4.45

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2576 DATE=10/12/95 ANIMAL/SIDE=95-19-13-L PHASE=2 FLAPWT=32.01 DOSETIME=10:43 GROUP=EtoH MEDVOL=511 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:45	17:45	7.03	35.2	35.4	7.4	36	38.8	0.99	0.036	1.170	0.236	0.898	0.74	36.5	0.97	37.1	0.50	4.70
18:15	18:15	7.53	39.7	35.1	7.4	36	38.7	0.97	0.041	1.140	0.221	0.929	0.85	37.3	0.95	37.9	0.38	4.89
18:45	18:45	8.03	39.4	35.8	7.4	36	38.2	0.99	0.054	1.090	0.220	0.929	1.03	36.5	0.97	37.1	0.30	5.04

----- FLAPNO=2577 DATE=10/18/95 ANIMAL/SIDE=95-19-12-R PHASE=2 FLAPWT=30.2 DOSETIME=10:30 GROUP=EtoH MEDVOL=515 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.4	50.6	7.5	37	36.8	1.01	0.020	1.170	0.184	0.672	0.33	36.6	1.00	36.9	1.00	0.01
9:45	9:45	-0.75	36.2	50.4	7.4	41	36.1	1.00	0.024	1.160	0.241	0.800	0.60	41.0	0.99	41.3	0.72	0.19
10:00	10:00	-0.50	36.5	49.6	7.4	44	35.9	1.01	0.023	1.140	0.263	0.833	0.78	43.8	1.00	44.1	0.61	0.34
10:15	10:14	-0.27	36.6	48.3	7.4	41	35.9	0.99	0.024	1.150	0.334	0.761	0.80	41.4	0.98	41.7	0.77	0.52
10:30	10:30	0.00	36.6	49.0	7.4	36	35.8	1.00	0.025	1.150	0.385	0.743	0.88	36.0	0.99	36.3	0.81	0.74
11:00	11:00	0.50	36.7	48.7	7.4	35	36.1	1.00	0.025	1.150	0.410	0.728	0.91	35.2	0.99	35.4	0.83	1.15
11:30	11:30	1.00	36.9	47.3	7.4	38	36.3	0.99	0.023	1.160	0.378	0.771	0.91	38.4	0.98	38.7	0.77	1.54
12:00	12:00	1.50	36.8	46.5	7.4	38	36.1	1.01	0.028	1.140	0.389	0.770	0.98	37.6	1.00	37.9	0.74	1.91
12:30	12:30	2.00	36.6	47.3	7.4	40	36.0	0.99	0.029	1.150	0.363	0.784	0.91	40.4	0.98	40.7	0.72	2.27
13:00	13:00	2.50	36.6	47.3	7.4	42	35.9	1.01	0.029	1.140	0.346	0.812	0.97	41.8	1.00	42.1	0.65	2.59
13:30	13:30	3.00	36.6	47.7	7.4	44	35.9	1.00	0.033	1.160	0.322	0.858	0.96	44.2	0.99	44.6	0.60	2.89
14:00	14:00	3.50	36.7	46.5	7.4	46	36.1	0.99	0.035	1.130	0.297	0.864	0.98	46.5	0.98	46.8	0.52	3.15
14:30	14:30	4.00	36.7	48.1	7.4	47	36.0	1.01	0.030	1.160	0.235	0.940	0.93	46.8	1.00	47.1	0.44	3.37
15:00	15:00	4.50	36.8	47.8	7.3	46	36.1	1.00	0.035	1.130	0.227	0.967	1.18	46.2	0.99	46.6	0.32	3.54
15:30	15:30	5.00	36.9	47.3	7.4	46	36.1	1.00	0.031	1.150	0.212	0.963	0.97	46.2	0.99	46.6	0.37	3.72
16:00	16:00	5.50	36.9	47.0	7.4	46	36.1	1.00	0.034	1.130	0.195	0.960	0.95	46.2	0.99	46.6	0.34	3.89
16:30	16:30	6.00	36.9	47.3	7.4	50	36.1	0.81	0.038	1.150	0.191	0.984	0.92	62.1	0.80	62.6	0.27	4.02
17:00	17:00	6.50	37.5	45.2	7.4	50	36.9	0.91	0.034	1.100	0.164	0.996	1.25	54.9	0.90	55.4	0.19	4.11
17:30	17:30	7.00	38.0	43.8	7.4	51	37.2	1.08	0.039	1.100	0.166	0.971	0.98	47.4	1.07	47.8	0.28	4.25
18:00	18:00	7.50	38.1	43.1	7.4	51	37.2	1.00	0.039	1.130	0.163	0.992	0.90	51.0	0.99	51.4	0.27	4.39
18:30	18:30	8.00	38.1	43.4	7.4	49	37.1	1.01	0.049	1.110	0.176	1.010	1.27	48.8	1.00	49.1	0.20	4.49

----- FLAPNO=2578 DATE=10/18/95 ANIMAL/SIDE=95-19-12-L PHASE=2 FLAPWT=30.76 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=509 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	37.6	37.9	7.3	49	37.9	1.00	0.022	1.160	0.057	0.751	0.09	49.2	0.98	50.2	0.79	0.01
9:30	9:30	-0.75	35.5	25.7	7.5	67	33.6	0.99	0.022	1.180	0.141	0.721	0.26	67.7	0.97	69.0	0.89	0.23
9:45	9:46	-0.48	36.7	39.4	7.4	50	35.6	1.01	0.017	1.190	0.139	0.931	0.47	49.5	0.99	50.5	0.51	0.37
10:00	10:00	-0.25	37.6	37.5	7.4	42	37.1	1.01	0.016	1.170	0.175	0.910	0.61	41.6	0.99	42.4	0.51	0.49
10:15	10:15	0.00	37.4	36.6	7.4	37	36.8	1.01	0.022	1.140	0.243	0.845	0.75	36.8	0.99	37.5	0.58	0.63

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2578 DATE=10/18/95 ANIMAL/SIDE=95-19-12-L PHASE=2 FLAPNT=30.76 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=509 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:45	10:45	0.50	37.4	36.2	7.4	35	37.0	0.99	0.023	1.160	0.281	0.847	0.82	35.5	0.97	36.2	0.60	0.93
11:15	11:15	1.00	37.7	35.1	7.4	33	37.2	0.97	0.027	1.160	0.282	0.875	0.89	34.0	0.95	34.7	0.54	1.20
11:45	11:45	1.50	37.8	34.4	7.4	32	37.3	1.00	0.018	1.150	0.278	0.894	1.02	32.2	0.98	32.8	0.50	1.45
12:15	12:15	2.00	37.7	35.5	7.4	33	37.2	0.99	0.022	1.150	0.273	0.914	1.06	33.5	0.97	34.2	0.45	1.68
12:45	12:45	2.50	37.7	35.8	7.4	32	37.2	1.00	0.025	1.160	0.260	0.922	0.99	32.2	0.98	32.8	0.46	1.91
13:15	13:15	3.00	37.6	36.0	7.4	31	37.1	1.00	0.025	1.150	0.244	0.955	1.12	31.0	0.98	31.6	0.38	2.10
13:45	13:45	3.50	37.4	35.8	7.4	31	36.8	1.00	0.022	1.160	0.201	0.963	0.91	31.0	0.98	31.6	0.38	2.29
14:15	14:15	4.00	37.6	35.6	7.4	31	37.2	1.00	0.024	1.170	0.219	0.958	0.92	31.0	0.98	31.6	0.41	2.50
14:45	14:45	4.50	37.8	35.9	7.4	31	37.3	1.02	0.028	1.170	0.205	0.972	0.89	30.5	1.00	31.1	0.39	2.69
15:15	15:15	5.00	37.9	36.0	7.4	31	37.4	1.01	0.027	1.160	0.170	1.000	0.89	30.7	0.99	31.3	0.32	2.85
15:45	15:45	5.50	37.9	36.0	7.4	29	37.4	1.00	0.029	1.140	0.169	0.980	0.88	29.1	0.98	29.7	0.31	3.01
16:15	16:15	6.00	38.0	35.6	7.4	28	37.4	0.95	0.035	1.120	0.159	1.000	1.03	29.6	0.93	30.2	0.22	3.12
16:45	16:45	6.50	38.2	35.6	7.4	27	37.8	1.00	0.036	1.130	0.149	1.010	0.94	27.0	0.98	27.5	0.23	3.23
17:15	17:15	7.00	38.8	33.8	7.5	26	38.3	0.90	0.039	1.100	0.143	1.010	1.16	28.9	0.88	29.5	0.16	3.31
17:45	17:45	7.50	39.0	33.3	7.4	26	38.4	0.99	0.038	1.130	0.149	1.000	0.85	26.3	0.97	26.8	0.25	3.44
18:15	18:15	8.00	39.1	34.1	7.4	26	38.4	0.94	0.042	1.130	0.152	0.993	0.80	27.8	0.92	28.4	0.25	3.56

----- FLAPNO=2579 DATE=10/19/95 ANIMAL/SIDE=95-21-5-R PHASE=2 FLAPNT=26.91 DOSETIME=10:45 GROUP=3 mg HD MEDVOL=494 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	37.1	40.0	7.4	44	36.2	1.02	0.031	1.170	0.095	0.786	0.17	43.3	0.97	45.5	0.87	0.01
10:00	10:00	-0.75	37.2	38.8	7.4	39	36.2	1.01	0.032	1.170	0.154	0.836	0.37	38.6	0.96	40.6	0.75	0.20
10:15	10:15	-0.50	37.3	39.0	7.4	35	36.3	0.99	0.033	1.120	0.201	0.830	0.58	35.5	0.94	37.3	0.64	0.36
10:30	10:30	-0.25	37.4	38.2	7.4	33	36.4	1.02	0.037	1.120	0.249	0.838	0.75	32.5	0.97	34.2	0.64	0.52
10:45	10:45	0.00	37.4	38.7	7.4	33	36.2	1.01	0.040	1.140	0.273	0.843	0.78	32.8	0.96	34.5	0.67	0.68
11:15	11:15	0.50	37.6	38.7	7.4	30	36.4	1.01	0.032	1.140	0.313	0.836	0.92	29.9	0.96	31.4	0.68	1.02
11:45	11:45	1.00	37.7	38.9	7.4	30	36.7	0.99	0.036	1.150	0.355	0.814	0.95	30.3	0.94	31.8	0.74	1.39
12:15	12:15	1.50	37.7	38.8	7.4	31	36.7	1.00	0.043	1.150	0.369	0.792	0.91	31.2	0.95	32.7	0.79	1.79
12:45	12:45	2.00	37.9	38.2	7.4	32	36.9	0.99	0.044	1.140	0.385	0.801	1.01	32.5	0.94	34.1	0.74	2.16
13:15	13:15	2.50	37.9	38.1	7.4	37	36.8	1.02	0.043	1.140	0.365	0.812	0.98	36.5	0.97	38.3	0.74	2.54
13:45	13:45	3.00	37.9	37.4	7.4	40	36.8	1.00	0.042	1.140	0.324	0.842	0.95	40.2	0.95	42.2	0.66	2.87
14:15	14:15	3.50	38.0	37.6	7.4	42	36.9	0.99	0.055	1.120	0.284	0.881	0.96	42.4	0.94	44.6	0.53	3.13
14:45	14:45	4.00	38.1	37.7	7.4	43	37.1	1.01	0.048	1.150	0.261	0.907	0.88	42.8	0.96	45.0	0.54	3.40
15:15	15:15	4.50	38.1	38.0	7.4	43	37.0	0.98	0.049	1.120	0.249	0.913	0.97	43.9	0.93	46.1	0.45	3.63
15:45	15:45	5.00	38.1	38.2	7.4	42	37.1	1.00	0.048	1.110	0.242	0.913	0.98	42.4	0.94	44.6	0.43	3.85
16:15	16:15	5.50	38.2	37.9	7.4	42	37.2	1.00	0.059	1.100	0.251	0.919	1.06	42.2	0.95	44.3	0.40	4.05
16:45	16:45	6.00	38.6	37.3	7.4	40	37.7	0.99	0.060	1.120	0.267	0.940	1.15	40.4	0.94	42.4	0.40	4.24
17:15	17:15	6.50	39.3	36.3	7.4	39	38.3	1.00	0.060	1.090	0.264	0.903	1.09	39.0	0.95	41.0	0.42	4.45
17:45	17:45	7.00	39.0	35.5	7.4	37	37.9	1.00	0.060	1.110	0.252	0.910	0.96	37.0	0.95	38.9	0.45	4.68
18:15	18:15	7.50	39.0	34.6	7.4	35	37.8	1.00	0.064	1.110	0.249	0.912	0.93	35.0	0.95	36.8	0.44	4.90

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2579 DATE=10/19/95 ANIMAL/SIDE=95-21-5-R PHASE=2 FLAPWT=26.91 DOSETIME=10:45 GROUP=3 mg HD MEDVOL=494 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:45	18:45	8.00	38.9	35.2	7.4	34	37.8	1.00	0.069	1.100	0.258	0.900	0.94	34.0	0.95	35.7	0.45	5.12

----- FLAPNO=2580 DATE=10/19/95 ANIMAL/SIDE=95-21-5-L PHASE=2 FLAPWT=29.44 DOSETIME=10:28 GROUP=EtoH MEDVOL=520 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:31	-0.95	36.1	52.5	7.4	56	36.8	1.00	0.023	1.160	0.073	0.674	0.10	56.3	1.00	56.2	0.99	0.01
9:45	9:45	-0.72	36.3	53.0	7.4	48	36.6	1.00	0.020	1.170	0.136	0.792	0.31	48.0	1.00	47.9	0.77	0.19
10:00	10:00	-0.47	36.2	51.0	7.4	46	36.3	0.99	0.028	1.160	0.183	0.844	0.49	46.5	0.99	46.4	0.64	0.35
10:15	10:15	-0.22	36.6	50.7	7.4	44	36.9	0.98	0.031	1.140	0.214	0.865	0.67	45.1	0.98	45.0	0.55	0.49
10:30	10:28	0.00	36.4	50.4	7.4	41	36.9	1.00	0.031	1.140	0.253	0.823	0.70	41.0	1.00	40.9	0.65	0.63
11:00	11:00	0.53	36.7	50.5	7.4	39	36.8	1.01	0.036	1.150	0.265	0.847	0.76	38.8	1.01	38.7	0.62	0.96
11:30	11:30	1.03	36.7	49.7	7.3	39	36.8	0.99	0.025	1.140	0.298	0.844	0.92	39.6	0.99	39.5	0.59	1.25
12:00	12:00	1.53	36.5	45.3	7.4	48	36.4	0.99	0.042	1.140	0.315	0.858	0.97	48.7	0.99	48.6	0.57	1.54
12:30	12:30	2.03	36.5	44.5	7.4	47	36.7	1.01	0.033	1.140	0.279	0.875	0.93	46.8	1.01	46.7	0.54	1.81
13:00	13:00	2.53	36.5	43.2	7.4	47	36.7	1.00	0.041	1.110	0.219	0.845	0.67	47.0	1.00	46.9	0.54	2.08
13:30	13:30	3.03	36.5	43.5	7.4	45	36.6	0.99	0.033	1.130	0.233	0.928	0.99	45.5	0.99	45.4	0.41	2.28
14:00	14:00	3.53	36.5	41.8	7.4	44	36.6	1.01	0.042	1.100	0.233	0.939	1.19	43.8	1.01	43.7	0.33	2.45
14:30	14:30	4.03	36.5	41.8	7.4	46	36.7	1.01	0.036	1.150	0.236	0.942	0.96	45.8	1.01	45.7	0.43	2.66
15:00	15:00	4.53	36.5	41.2	7.4	42	36.7	1.00	0.040	1.120	0.219	0.944	1.02	42.2	1.00	42.1	0.36	2.84
15:30	15:30	5.03	36.5	41.0	7.4	39	36.6	1.00	0.038	1.130	0.203	0.934	0.84	39.2	1.00	39.1	0.40	3.04
16:00	16:00	5.53	36.5	41.5	7.4	38	36.7	1.00	0.048	1.130	0.203	0.939	0.87	38.0	1.00	37.9	0.39	3.23
16:30	16:30	6.03	36.5	42.5	7.4	37	36.7	1.00	0.048	1.120	0.203	0.953	0.93	37.2	1.00	37.1	0.34	3.40
17:00	17:00	6.53	37.2	39.4	7.4	37	37.4	1.00	0.050	1.120	0.209	0.971	1.07	37.2	1.00	37.1	0.30	3.55
17:30	17:30	7.03	37.5	39.4	7.4	36	37.5	1.00	0.049	1.130	0.203	0.950	0.86	36.0	1.00	35.9	0.37	3.74
18:00	18:00	7.53	37.6	39.3	7.4	36	37.5	1.01	0.050	1.130	0.201	0.952	0.85	35.8	1.01	35.8	0.36	3.92
18:30	18:30	8.03	37.6	38.9	7.4	35	37.4	1.00	0.055	1.110	0.205	0.949	0.93	35.2	1.00	35.1	0.33	4.08

----- FLAPNO=2581 DATE=10/25/95 ANIMAL/SIDE=95-22-5-R PHASE=2 FLAPWT=28.07 DOSETIME=10:29 GROUP=3 mg HD MEDVOL=512 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.98	35.3	37.2	7.4	47	34.4	0.99	0.020	1.120	0.040	0.908	0.09	47.5	0.98	48.1	0.45	0.01
9:45	9:45	-0.73	36.0	34.8	7.4	44	35.1	0.98	0.021	1.150	0.096	0.888	0.29	44.9	0.97	45.5	0.55	0.15
10:00	10:00	-0.48	36.3	33.9	7.3	44	35.2	1.01	0.023	1.160	0.126	0.946	0.48	43.8	0.99	44.4	0.46	0.26
10:15	10:15	-0.23	36.3	33.6	7.3	44	35.2	1.00	0.023	1.160	0.142	0.978	0.65	44.0	0.99	44.6	0.39	0.36
10:30	10:29	0.00	36.4	34.4	7.4	43	35.1	0.99	0.025	1.140	0.168	0.969	0.84	43.4	0.98	44.0	0.36	0.44
11:00	11:00	0.52	36.8	32.9	7.4	37	35.7	0.99	0.027	1.150	0.204	0.957	0.92	37.4	0.98	37.9	0.41	0.65
11:30	11:30	1.02	36.8	32.0	7.4	36	35.6	0.98	0.029	1.150	0.226	0.952	0.99	36.9	0.96	37.4	0.41	0.86

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2581 DATE=10/25/95 ANIMAL/SIDE=95-22-5-R PHASE=2 FLAPWT=28.07 DOSETIME=10:29 GROUP=3 mg HD MEDVOL=512 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
12:00	12:00	1:52	37.1	33.6	7.4	36	35.9	1.01	0.031	1.140	0.232	0.946	1.04	35.6	1.00	36.1	0.42	1.07
12:30	12:30	2:02	37.0	32.7	7.4	36	35.9	1.00	0.032	1.140	0.225	0.937	0.95	36.0	0.99	36.5	0.43	1.29
13:00	13:00	2:52	37.0	32.2	7.4	39	36.0	0.99	0.034	1.130	0.222	0.969	1.17	39.6	0.97	40.1	0.34	1.46
13:30	13:30	3:02	36.9	31.5	7.4	43	36.0	1.00	0.034	1.030	0.207	0.967	2.75	43.2	0.98	43.8	0.13	1.52
14:00	14:00	3:52	37.0	29.4	7.4	42	35.9	0.99	0.034	1.120	0.201	0.975	1.15	42.4	0.98	43.0	0.31	1.68
14:30	14:30	4:02	37.0	31.3	7.4	45	35.9	0.99	0.037	1.130	0.199	0.978	1.07	45.5	0.98	46.1	0.32	1.84
15:00	15:00	4:52	37.1	31.3	7.4	44	35.9	1.00	0.037	1.130	0.196	0.962	0.95	44.0	0.99	44.6	0.36	2.02
15:30	15:30	5:02	37.0	31.2	7.4	44	35.7	0.99	0.038	1.120	0.208	0.977	1.19	44.4	0.98	45.1	0.30	2.17
16:00	16:00	5:52	37.0	31.8	7.4	44	35.9	1.00	0.037	1.110	0.204	0.955	1.08	44.2	0.98	44.8	0.33	2.33
16:30	16:30	6:02	37.0	32.0	7.4	44	35.8	1.02	0.034	1.130	0.208	0.955	0.99	43.3	1.00	43.9	0.38	2.52
17:00	17:00	6:52	37.0	32.0	7.5	44	35.9	1.01	0.340	1.130	0.209	0.981	-0.88	43.6	1.00	44.2	0.32	2.68
17:30	17:30	7:02	37.1	31.7	7.4	46	35.9	1.01	0.035	1.120	0.205	0.960	1.06	45.5	1.00	46.2	0.35	2.86
18:00	18:00	7:52	37.0	30.9	7.3	43	35.8	1.02	0.037	1.110	0.189	0.939	0.89	42.4	1.00	42.9	0.37	3.04
18:30	18:30	8:02	37.2	32.0	7.4	42	36.0	1.03	0.037	1.100	0.202	0.962	1.20	41.0	1.01	41.5	0.30	3.19

----- FLAPNO=2582 DATE=10/25/95 ANIMAL/SIDE=95-22-5-L PHASE=2 FLAPWT=32.35 DOSETIME=10:13 GROUP=EtOH MEDVOL=505 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-0.97	35.4	39.2	7.4	59	36.1	1.01	0.021	1.160	0.041	0.900	0.08	58.7	0.98	60.3	0.48	0.01
9:30	9:30	-0.72	35.2	39.7	7.4	58	36.1	1.00	0.021	1.160	0.082	0.942	0.28	58.3	0.97	59.9	0.40	0.11
9:45	9:45	-0.47	35.5	38.0	7.4	56	36.4	1.01	0.022	1.160	0.162	0.902	0.54	55.7	0.98	57.3	0.48	0.23
10:00	10:00	-0.22	35.6	36.8	7.4	53	36.5	1.00	0.023	1.150	0.211	0.867	0.66	53.3	0.97	54.7	0.52	0.36
10:15	10:15	0.00	35.6	36.9	7.4	49	36.5	1.02	0.023	1.160	0.249	0.869	0.78	48.3	0.99	49.6	0.55	0.48
10:45	10:45	0.53	35.6	37.0	7.4	47	36.5	0.99	0.025	1.160	0.305	0.823	0.83	47.7	0.96	49.0	0.62	0.81
11:15	11:15	1.03	35.8	37.1	7.4	46	36.6	0.99	0.026	1.160	0.317	0.853	0.95	46.7	0.96	48.0	0.56	1.09
11:45	11:45	1.53	36.0	36.6	7.4	47	36.7	1.00	0.027	1.150	0.351	0.841	1.05	47.2	0.97	48.5	0.57	1.37
12:15	12:15	2.03	36.1	36.2	7.4	48	36.7	0.99	0.027	1.140	0.344	0.826	1.01	48.5	0.96	49.8	0.58	1.66
12:45	12:45	2.53	36.0	35.4	7.4	52	36.7	0.99	0.029	1.150	0.269	0.892	0.93	52.5	0.96	54.0	0.47	1.90
13:15	13:15	3.03	36.0	36.4	7.4	54	36.7	0.98	0.028	1.150	0.230	0.994	1.29	55.1	0.95	56.6	0.28	2.04
13:45	13:45	3.53	36.0	36.5	7.4	59	36.7	0.99	0.029	1.140	0.159	1.030	1.18	59.6	0.96	61.2	0.20	2.14
14:15	14:15	4.03	36.8	36.8	7.4	56	36.8	0.99	0.029	1.130	0.142	1.030	1.13	56.6	0.96	58.1	0.18	2.23
14:45	14:45	4.53	36.3	34.6	7.4	55	36.8	1.01	0.031	1.140	0.136	1.030	0.95	54.7	0.97	56.2	0.21	2.34
15:15	15:15	5.03	36.3	36.7	7.4	56	36.8	1.00	0.031	1.140	0.129	1.060	1.23	56.3	0.98	57.8	0.15	2.41
15:45	15:45	5.53	36.4	35.0	7.4	54	36.8	0.99	0.033	1.140	0.132	1.040	0.99	54.5	0.96	56.1	0.18	2.50
16:15	16:15	6.03	36.3	35.4	7.4	54	36.8	1.01	0.033	1.130	0.124	1.060	1.30	53.7	0.98	55.2	0.13	2.57
16:45	16:45	6.53	36.3	34.9	7.4	53	36.9	1.01	0.034	1.140	0.121	1.040	0.80	52.5	0.98	53.9	0.21	2.67
17:15	17:15	7.03	36.3	33.9	7.4	52	36.8	1.01	0.034	1.130	0.122	1.040	0.98	51.5	0.98	52.9	0.17	2.75
17:45	17:45	7.53	36.3	34.1	7.4	51	36.8	1.01	0.034	1.130	0.128	1.030	0.94	50.5	0.98	51.9	0.19	2.85
18:15	18:15	8.03	36.4	33.2	7.4	51	36.8	1.02	0.034	1.130	0.128	1.010	0.78	50.2	0.99	51.6	0.23	2.96

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2583 DATE=10/26/95 ANIMAL/SIDE=95-23-4-R PHASE=2 FLAPWT=35.69 DOSETIME=10:14 GROUP=3 mg HD MEDVOL=504 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-0.98	37.0	37.1	7.4	41	37.1	1.00	0.029	1.100	0.036	0.579	0.01	41.2	0.97	42.4	0.87	0.01
9:30	9:30	-0.73	37.1	35.7	7.4	31	36.6	1.01	0.030	1.120	0.110	0.828	0.27	30.7	0.98	31.6	0.50	0.13
9:45	9:45	-0.48	32.0	37.4	7.4	29	36.6	0.99	0.033	1.150	0.186	0.882	0.57	29.3	0.96	30.2	0.45	0.25
10:00	10:00	-0.23	37.8	32.2	7.4	28	37.1	1.01	0.033	1.140	0.249	0.871	0.80	27.7	0.98	28.5	0.46	0.36
10:15	10:14	0.00	38.0	33.0	7.4	27	37.1	1.00	0.037	1.140	0.284	0.856	0.87	27.0	0.97	27.8	0.48	0.47
10:45	10:45	0.52	37.9	33.0	7.4	25	36.9	1.01	0.042	1.140	0.344	0.831	0.98	24.8	0.98	25.5	0.52	0.74
11:15	11:15	1.02	37.9	32.9	7.4	25	36.9	1.01	0.046	1.130	0.386	0.786	0.99	24.8	0.98	25.5	0.58	1.03
11:45	11:45	1.52	38.1	32.9	7.4	25	36.8	0.98	0.049	1.120	0.410	0.757	0.99	25.5	0.95	26.3	0.60	1.33
12:15	12:15	2.02	38.2	32.8	7.4	26	37.3	1.00	0.051	1.120	0.432	0.749	1.03	26.0	0.97	26.8	0.62	1.65
12:45	12:45	2.52	38.1	32.7	7.4	27	37.0	1.01	0.052	1.110	0.433	0.722	0.98	26.9	0.98	27.7	0.66	1.97
13:15	13:15	3.02	38.2	32.3	7.4	29	37.2	1.01	0.054	1.120	0.420	0.739	0.96	28.9	0.98	29.7	0.64	2.29
13:45	13:45	3.52	38.1	31.9	7.4	31	37.0	0.99	0.055	1.110	0.409	0.765	1.03	31.5	0.96	32.4	0.57	2.58
14:15	14:15	4.02	38.2	31.7	7.4	34	37.2	1.02	0.054	1.120	0.362	0.806	0.98	33.5	0.99	34.5	0.54	2.85
14:45	14:45	4.52	38.2	31.8	7.4	34	37.1	1.00	0.054	1.110	0.350	0.806	0.97	34.0	0.97	35.0	0.51	3.10
15:15	15:15	5.02	38.2	32.7	7.4	34	37.2	1.00	0.055	1.110	0.334	0.835	1.01	34.2	0.97	35.2	0.46	3.33
15:45	15:45	5.52	38.2	32.1	7.4	34	37.2	0.97	0.055	1.110	0.320	0.830	0.95	35.2	0.94	36.3	0.45	3.56
16:15	16:15	6.02	38.4	32.5	7.4	34	37.4	1.02	0.056	1.110	0.313	0.851	0.99	33.5	0.99	34.5	0.44	3.78
16:45	16:45	6.52	38.5	32.1	7.4	33	37.4	1.02	0.056	1.090	0.325	0.849	1.12	32.5	0.99	33.5	0.41	3.99
17:15	17:15	7.02	38.6	32.9	7.4	32	37.7	1.00	0.056	1.090	0.308	0.834	0.98	32.0	0.97	33.0	0.43	4.20
17:45	17:45	7.52	38.6	32.0	7.4	32	37.6	1.00	0.057	1.100	0.309	0.851	1.01	32.2	0.97	33.1	0.42	4.41
18:15	18:15	8.02	38.5	32.7	7.4	31	37.5	1.02	0.059	1.090	0.311	0.813	0.91	30.5	0.99	31.5	0.47	4.65

----- FLAPNO=2584 DATE=10/26/95 ANIMAL/SIDE=95-23-4-L PHASE=2 FLAPWT=32.54 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=503 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.0	38.8	7.4	57	36.0	1.01	0.026	1.150	0.046	0.632	0.04	56.4	0.98	58.2	0.96	0.01
9:15	9:15	-0.72	35.5	37.5	7.4	35	36.2	1.00	0.028	1.140	0.103	0.842	0.25	35.2	0.96	36.3	0.55	0.15
9:30	9:30	-0.47	36.0	37.2	7.4	32	36.4	1.02	0.031	1.140	0.164	0.895	0.54	31.5	0.98	32.5	0.46	0.26
9:45	9:45	-0.22	36.0	36.2	7.4	30	36.4	0.98	0.033	1.120	0.209	0.901	0.80	30.6	0.95	31.6	0.40	0.36
10:00	9:58	0.00	36.3	36.1	7.4	29	36.6	1.01	0.034	1.130	0.245	0.883	0.85	28.9	0.97	29.8	0.46	0.46
10:30	10:30	0.53	36.3	35.6	7.4	28	36.6	1.00	0.039	1.130	0.309	0.833	0.91	28.1	0.96	29.0	0.54	0.75
11:00	11:00	1.03	36.4	35.9	7.4	28	36.6	0.99	0.044	1.120	0.345	0.815	0.99	28.3	0.96	29.2	0.56	1.03
11:30	11:30	1.53	36.4	35.9	7.4	28	36.5	0.99	0.048	1.120	0.339	0.835	1.02	28.4	0.95	29.3	0.52	1.29
12:00	12:00	2.03	36.5	34.8	7.4	29	36.7	0.99	0.050	1.120	0.351	0.813	0.98	29.4	0.95	30.4	0.56	1.57
12:30	12:30	2.53	36.6	35.9	7.4	30	36.7	1.01	0.050	1.110	0.357	0.806	1.01	29.7	0.98	30.6	0.57	1.85
13:00	13:00	3.03	36.6	34.6	7.4	31	36.8	1.01	0.051	1.120	0.352	0.817	0.99	30.7	0.98	31.7	0.56	2.13
13:30	13:30	3.53	36.6	34.3	7.4	34	36.8	1.00	0.053	1.120	0.321	0.853	1.00	34.0	0.97	35.1	0.49	2.38
14:00	14:00	4.03	36.7	35.4	7.4	37	36.8	0.98	0.053	1.110	0.272	0.918	1.14	37.8	0.95	39.0	0.35	2.55
14:30	14:30	4.53	36.4	35.0	7.4	36	36.8	1.00	0.056	1.110	0.262	0.902	0.99	36.2	0.96	37.3	0.38	2.74
15:00	15:00	5.03	36.7	34.8	7.4	36	36.8	1.00	0.056	1.100	0.269	0.906	1.10	36.0	0.97	37.1	0.36	2.92
15:30	15:30	5.53	36.7	34.4	7.4	37	36.8	1.00	0.058	1.100	0.263	0.915	1.11	37.2	0.96	38.4	0.34	3.09

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2584 DATE=10/26/95 ANIMAL/SIDE=95-23-4-L PHASE=2 FLAPWT=32.54 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=503 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE-SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:00	16:00	6.03	36.7	34.5	7.4	39	36.8	1.03	0.060	1.110	0.237	0.934	1.01	37.9	1.00	39.1	0.33	3.26
16:30	16:30	6.53	36.7	34.1	7.4	42	36.8	1.01	0.063	1.110	0.221	0.943	1.05	41.8	0.97	43.1	0.31	3.41
17:00	17:00	7.03	36.8	33.5	7.4	38	36.8	0.99	0.063	1.100	0.233	0.931	1.01	38.6	0.95	39.8	0.31	3.57
17:30	17:30	7.53	36.8	34.5	7.4	38	36.8	0.99	0.063	1.080	0.246	0.934	1.25	38.4	0.96	39.6	0.27	3.70
18:00	18:00	8.03	36.7	35.1	7.4	36	36.8	1.01	0.066	1.090	0.249	0.914	1.04	35.8	0.97	37.0	0.33	3.86

----- FLAPNO=2585 DATE=11/01/95 ANIMAL/SIDE=95-23-5-R PHASE=2 FLAPWT=27.36 DOSETIME=10:28 GROUP=3 mg HD MEDVOL=537 NCSU=Yes -----

TARG TIME	ACTL TIME	REL TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE-SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.97	36.7	42.1	7.4	38	35.8	0.99	0.023	1.060	0.071	0.784	0.17	38.4	1.02	37.1	0.60	0.01
9:45	9:45	-0.72	36.8	41.5	7.4	39	36.4	1.00	0.026	1.150	0.136	0.900	0.44	39.0	1.03	37.7	0.55	0.15
10:00	10:00	-0.47	36.8	41.6	7.4	39	36.6	1.01	0.026	1.150	0.181	0.903	0.63	38.8	1.04	37.5	0.54	0.28
10:15	10:15	-0.22	36.8	41.3	7.4	38	36.5	1.00	0.029	1.140	0.223	0.889	0.77	38.0	1.03	36.7	0.55	0.42
10:30	10:28	0.00	36.6	41.7	7.4	36	36.4	1.00	0.030	1.150	0.263	0.849	0.77	36.0	1.03	34.8	0.66	0.56
11:00	11:00	0.53	36.7	41.7	7.4	36	36.4	0.94	0.032	1.150	0.287	0.865	0.89	38.3	0.97	37.0	0.59	0.88
11:30	11:30	1.03	36.6	41.9	7.4	36	36.4	0.99	0.036	1.150	0.294	0.866	0.91	36.4	1.02	35.1	0.62	1.19
12:00	12:00	1.53	36.8	42.1	7.4	40	36.6	0.99	0.037	1.130	0.275	0.888	0.98	40.6	1.02	39.2	0.52	1.45
12:30	12:30	2.03	37.0	42.4	7.4	37	36.8	1.01	0.039	1.120	0.271	0.887	1.00	36.6	1.05	35.4	0.52	1.70
13:00	13:00	2.53	37.1	42.1	7.4	38	36.9	1.00	0.040	1.150	0.268	0.913	0.96	38.2	1.03	36.9	0.52	1.96
13:30	13:30	3.03	36.9	40.1	7.4	40	36.7	0.99	0.040	1.130	0.248	0.943	1.11	40.4	1.02	39.0	0.41	2.17
14:00	14:00	3.53	36.8	40.1	7.4	39	36.7	1.02	0.044	1.120	0.250	0.955	1.25	38.2	1.06	37.0	0.37	2.35
14:30	14:30	4.03	36.7	40.2	7.4	40	36.6	1.01	0.045	1.130	0.229	0.936	0.95	39.6	1.05	38.3	0.43	2.57
15:00	15:00	4.53	36.7	40.5	7.4	41	36.6	1.01	0.046	1.120	0.210	0.970	1.09	40.8	1.04	39.4	0.33	2.73
15:30	15:30	5.03	36.8	40.5	7.4	39	36.6	1.00	0.046	1.130	0.198	0.986	1.06	39.2	1.03	37.9	0.31	2.89
16:00	16:00	5.53	36.8	40.4	7.4	41	36.6	1.01	0.047	1.130	0.191	1.010	1.20	40.8	1.04	39.4	0.26	3.02
16:30	16:30	6.03	36.7	40.4	7.4	40	36.6	0.97	0.050	1.140	0.187	1.000	0.98	41.2	1.00	39.9	0.30	3.17
17:00	17:00	6.53	36.7	40.2	7.4	41	36.6	1.01	0.049	1.110	0.170	0.998	1.08	40.6	1.05	39.2	0.25	3.29
17:30	17:30	7.03	36.8	40.2	7.4	40	36.6	1.00	0.049	1.130	0.161	1.010	0.93	40.0	1.03	38.7	0.26	3.42
18:00	18:00	7.53	36.7	40.1	7.4	40	36.6	1.00	0.051	1.100	0.159	0.997	1.05	40.0	1.03	38.7	0.23	3.54
18:30	18:30	8.03	36.8	39.9	7.3	40	36.7	0.99	0.057	1.100	0.169	1.000	1.12	40.6	1.02	39.2	0.22	3.65

----- FLAPNO=2586 DATE=11/01/95 ANIMAL/SIDE=95-23-5-L PHASE=2 FLAPWT=33.94 DOSETIME=10:13 GROUP=3 mg HD MEDVOL=515 NCSU=Yes -----

TARG TIME	ACTL TIME	REL TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE-SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-0.97	36.2	39.3	7.4	36	36.2	1.02	0.022	1.150	0.046	0.729	0.06	35.3	1.01	35.6	0.76	0.01
9:30	9:30	-0.72	36.5	39.0	7.4	32	36.3	1.00	0.022	1.160	0.145	0.767	0.31	32.0	0.99	32.2	0.69	0.18
9:45	9:45	-0.47	36.8	38.5	7.4	31	36.4	1.01	0.024	1.150	0.213	0.781	0.51	30.7	1.00	30.9	0.66	0.35

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2586 DATE=11/01/95 ANIMAL/SIDE=95-23-5-L PHASE=2 FLAPWT=33.94 DOSETIME=10:13 GROUP=3 mg HD MEDVOL=515 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.22	37.0	38.5	7.4	31	36.6	1.00	0.024	1.150	0.247	0.808	0.65	31.0	0.99	31.2	0.60	0.50
10:15	10:13	0.00	37.1	38.5	7.4	29	36.6	1.01	0.025	1.150	0.287	0.815	0.78	28.9	1.00	29.1	0.60	0.63
10:45	10:45	0.53	37.1	38.0	7.4	28	36.6	1.01	0.028	1.150	0.328	0.782	0.82	27.7	1.00	27.9	0.66	0.98
11:15	11:15	1.03	37.3	38.1	7.4	29	36.7	1.00	0.029	1.150	0.341	0.808	0.91	29.1	0.99	29.4	0.60	1.28
11:45	11:45	1.53	37.4	38.0	7.4	29	36.7	1.00	0.031	1.140	0.372	0.784	0.96	29.1	0.99	29.4	0.63	1.59
12:15	12:15	2.03	37.5	38.2	7.4	33	36.9	1.00	0.034	1.130	0.313	0.844	0.98	33.0	0.99	33.3	0.51	1.85
12:45	12:45	2.53	37.7	38.1	7.4	34	37.1	0.99	0.032	1.140	0.306	0.871	1.02	34.3	0.98	34.6	0.47	2.08
13:15	13:15	3.03	37.8	36.6	7.4	34	37.2	1.00	0.032	1.150	0.328	0.854	1.00	34.2	0.99	34.4	0.52	2.34
13:45	13:45	3.53	37.8	36.3	7.4	35	37.2	1.00	0.034	1.130	0.284	0.883	1.01	35.0	0.99	35.3	0.44	2.56
14:15	14:15	4.03	37.8	36.6	7.4	37	37.2	1.00	0.036	1.130	0.268	0.920	1.10	37.0	0.99	37.3	0.37	2.75
14:45	14:45	4.53	37.8	36.7	7.4	38	37.2	1.02	0.038	1.140	0.234	0.930	0.93	37.3	1.01	37.5	0.38	2.93
15:15	15:15	5.03	37.8	37.2	7.4	38	37.3	0.99	0.037	1.140	0.232	0.946	1.01	38.4	0.98	38.7	0.34	3.10
15:45	15:45	5.53	37.8	37.2	7.4	38	37.2	1.00	0.038	1.140	0.236	0.934	0.96	38.2	0.99	38.5	0.36	3.29
16:15	16:15	6.03	37.8	37.4	7.4	37	37.2	0.99	0.039	1.150	0.224	0.978	1.08	37.4	0.98	37.7	0.30	3.44
16:45	16:45	6.53	37.7	37.4	7.4	37	37.1	1.00	0.041	1.150	0.225	0.952	0.93	37.0	0.99	37.3	0.35	3.61
17:15	17:15	7.03	37.4	37.6	7.4	37	36.8	0.97	0.040	1.130	0.232	0.930	0.96	38.3	0.96	38.6	0.34	3.78
17:45	17:45	7.53	37.5	37.7	7.4	37	36.8	1.02	0.041	1.110	0.225	0.932	1.03	36.5	1.01	36.7	0.32	3.94
18:15	18:15	8.03	37.5	37.5	7.4	36	36.9	0.96	0.042	1.110	0.225	0.948	1.13	37.5	0.95	37.8	0.27	4.08

----- FLAPNO=2587 DATE=11/02/95 ANIMAL/SIDE=95-23-7-R PHASE=2 FLAPWT=33.19 DOSETIME=10:12 GROUP=3 mg HD MEDVOL=493 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:16	-0.93	37.6	41.1	7.4	58	36.2	1.00	0.032	1.070	0.059	0.717	0.08	58.3	0.95	61.4	0.63	0.01
9:30	9:30	-0.70	38.1	41.5	7.4	40	36.9	1.01	0.033	1.100	0.142	0.825	0.40	39.8	0.95	41.9	0.50	0.13
9:45	9:45	-0.45	38.2	40.3	7.4	36	37.0	1.00	0.030	1.110	0.228	0.826	0.70	36.0	0.95	37.9	0.51	0.25
10:00	9:57	-0.25	38.0	39.1	7.4	34	36.5	0.99	0.036	1.140	0.317	0.788	0.80	34.3	0.94	36.2	0.63	0.38
10:15	10:12	0.00	37.6	40.7	7.4	33	36.5	1.00	0.037	1.120	0.348	0.795	0.96	33.2	0.95	34.9	0.58	0.53
10:45	10:45	0.55	37.7	40.1	7.4	29	36.6	0.99	0.042	1.140	0.408	0.740	0.92	29.3	0.94	30.8	0.72	0.92
11:15	11:15	1.05	37.9	40.0	7.4	29	36.6	0.99	0.049	1.120	0.460	0.724	1.04	29.4	0.94	31.0	0.71	1.27
11:45	11:45	1.55	37.9	40.2	7.4	31	36.7	0.99	0.051	1.120	0.464	0.710	1.01	31.3	0.94	33.0	0.73	1.64
12:15	12:15	2.05	38.2	40.0	7.4	35	36.9	0.99	0.054	1.120	0.404	0.761	0.97	35.4	0.94	37.2	0.64	1.96
12:45	12:45	2.55	38.3	39.5	7.4	36	36.9	1.02	0.055	1.110	0.377	0.750	0.89	35.3	0.97	37.2	0.66	2.29
13:15	13:15	3.05	38.3	40.1	7.4	40	36.9	0.99	0.063	1.120	0.356	0.835	1.03	40.6	0.94	42.8	0.51	2.55
13:45	13:45	3.55	38.2	36.1	7.4	41	36.9	0.99	0.061	1.100	0.314	0.884	1.17	41.4	0.94	43.6	0.39	2.74
14:15	14:15	4.05	38.5	35.8	7.4	46	37.2	1.00	0.063	1.110	0.286	0.894	1.03	46.2	0.95	48.7	0.39	2.93
14:45	14:45	4.55	38.5	36.9	7.4	49	37.2	1.00	0.062	1.100	0.276	0.920	1.19	49.0	0.95	51.6	0.33	3.10
15:15	15:15	5.05	38.8	38.1	7.4	48	37.7	0.99	0.063	1.080	0.274	0.934	1.45	48.5	0.94	51.0	0.26	3.23
15:45	15:45	5.55	39.0	36.2	7.4	44	37.6	1.00	0.064	1.100	0.260	0.908	1.02	44.2	0.95	46.6	0.35	3.40
16:15	16:15	6.05	39.1	35.6	7.4	42	37.7	1.01	0.066	1.080	0.255	0.929	1.25	41.8	0.95	44.0	0.27	3.54
16:45	16:45	6.55	39.0	34.6	7.4	41	37.7	1.00	0.067	1.100	0.253	0.915	1.01	41.2	0.95	43.4	0.33	3.70

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2587 DATE=11/02/95 ANIMAL/SIDE=95-23-7-R PHASE=2 FLAPWT=33.19 DOSETIME=10:12 GROUP=3 mg HD MEDVOL=493 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:15	17:15	7:05	39.1	35.5	7.4	37	37.7	1.00	0.071	1.080	0.248	0.912	1.05	37.0	0.95	39.0	0.30	3.86
17:45	17:45	7:55	39.1	34.7	7.4	37	38.0	1.00	0.074	1.090	0.248	0.907	0.95	37.2	0.95	39.1	0.33	4.02
18:15	18:15	8:05	39.3	34.6	7.5	34	38.0	1.00	0.075	1.080	0.247	0.908	1.00	34.0	0.95	35.8	0.31	4.18

----- FLAPNO=2588 DATE=11/02/95 ANIMAL/SIDE=95-23-7-L PHASE=2 FLAPWT=29.15 DOSETIME=9:57 GROUP=3 mg HD MEDVOL=529 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0:95	36.6	46.6	7.4	43	37.2	1.00	0.026	1.130	0.054	0.782	0.08	43.0	1.02	42.2	0.72	0.01
9:15	9:15	-0:70	35.9	46.0	7.4	31	35.9	1.00	0.028	1.130	0.148	0.799	0.36	31.2	1.01	30.6	0.68	0.18
9:30	9:30	-0:45	36.3	45.6	7.4	29	36.5	0.98	0.029	1.140	0.214	0.824	0.59	29.6	1.00	29.0	0.64	0.34
9:45	9:45	-0:20	36.5	44.1	7.4	32	36.6	1.00	0.030	1.130	0.279	0.815	0.79	32.0	1.02	31.4	0.65	0.50
10:00	9:57	0:00	36.5	44.0	7.4	29	36.6	0.99	0.032	1.130	0.316	0.810	0.89	29.3	1.01	28.7	0.65	0.63
10:30	10:30	0:55	36.6	43.7	7.4	29	36.6	1.02	0.039	1.150	0.367	0.799	0.93	28.6	1.03	28.0	0.73	1.03
11:00	11:00	1:05	36.0	44.0	7.4	26	36.7	0.98	0.036	1.140	0.414	0.755	0.98	26.5	1.00	26.0	0.78	1.42
11:30	11:30	1:55	36.4	43.7	7.4	28	36.6	1.01	0.039	1.130	0.450	0.730	1.03	27.9	1.02	27.3	0.83	1.84
12:00	12:00	2:05	36.4	44.3	7.4	31	36.6	0.99	0.044	1.130	0.418	0.757	1.00	31.3	1.01	30.7	0.76	2.22
12:30	12:30	2:55	36.5	43.8	7.4	35	36.6	1.02	0.046	1.120	0.367	0.760	0.89	34.5	1.03	33.8	0.75	2.59
13:00	13:00	3:05	36.4	44.2	7.4	34	36.6	0.98	0.046	1.120	0.384	0.807	1.08	34.7	1.00	34.0	0.63	2.91
13:30	13:30	3:55	36.4	40.2	7.4	38	36.7	1.00	0.047	1.130	0.349	0.834	1.02	38.0	1.02	37.3	0.61	3.21
14:00	14:00	4:05	36.4	39.3	7.4	41	36.6	0.99	0.050	1.120	0.293	0.894	1.08	41.4	1.01	40.6	0.46	3.44
14:30	14:30	4:55	36.4	39.7	7.4	45	36.6	1.00	0.051	1.110	0.198	0.977	1.11	45.0	1.02	44.1	0.27	3.58
15:00	15:00	5:05	36.4	40.3	7.4	41	36.6	1.06	0.049	1.100	0.205	0.983	1.33	38.9	1.08	38.1	0.25	3.71
15:30	15:30	5:55	36.4	39.5	7.4	41	36.6	1.01	0.050	1.110	0.177	0.991	1.07	40.6	1.03	39.8	0.25	3.83
16:00	16:00	6:05	36.4	39.4	7.4	41	36.6	1.01	0.053	1.110	0.180	0.971	0.91	40.8	1.02	40.0	0.29	3.97
16:30	16:30	6:55	36.5	37.2	7.4	42	36.7	0.99	0.054	1.100	0.178	0.985	1.08	42.4	1.01	41.6	0.23	4.09
17:00	17:00	7:05	36.6	38.3	7.4	43	36.8	1.00	0.054	1.100	0.163	1.000	1.09	43.0	1.02	42.2	0.21	4.19
17:30	17:30	7:55	36.7	38.5	7.4	42	36.8	1.00	0.058	1.090	0.168	0.991	1.11	42.0	1.02	41.2	0.20	4.30
18:00	18:00	8:05	36.7	38.5	7.4	40	36.8	1.00	0.062	1.090	0.181	0.970	0.99	40.0	1.02	39.2	0.25	4.42

----- FLAPNO=2591 DATE=11/09/95 ANIMAL/SIDE=95-26-10-R PHASE=2 FLAPWT=29.39 DOSETIME=10:28 GROUP=3 mg HD MEDVOL=478 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0:97	37.1	29.0	7.4	37	35.3	1.00	0.033	1.120	0.045	0.796	0.04	37.0	0.92	40.2	0.66	0.01
9:45	9:45	-0:72	37.3	28.9	7.4	28	35.7	1.02	0.036	1.140	0.164	0.710	0.30	27.5	0.94	29.8	0.90	0.23
10:00	10:00	-0:47	37.1	28.0	7.4	26	35.6	1.00	0.036	1.120	0.257	0.728	0.56	26.1	0.92	28.4	0.80	0.43
10:15	10:15	-0:22	37.4	28.9	7.4	24	35.8	1.02	0.037	1.110	0.320	0.713	0.71	23.6	0.93	25.7	0.82	0.64
10:30	10:28	0:00	37.2	28.0	7.4	24	35.5	1.01	0.040	1.120	0.338	0.748	0.80	23.9	0.93	25.9	0.76	0.80

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2591 DATE=11/09/95 ANIMAL/SIDE=95-26-10-R PHASE=2 FLAPWT=29.39 DOSETIME=10:28 GROUP=3 mg HD MEDVOL=478 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:00	11:00	0.53	37.3	28.7	7.4	23	35.8	1.00	0.045	1.120	0.400	0.740	0.93	23.0	0.92	25.0	0.78	1.22
11:30	11:30	1.03	37.1	28.2	7.4	26	35.6	0.99	0.046	1.110	0.377	0.766	0.96	26.3	0.91	28.5	0.70	1.57
12:00	12:00	1.53	37.1	27.4	7.4	24	35.6	1.00	0.047	1.100	0.428	0.708	0.97	24.0	0.92	26.1	0.80	1.97
12:30	12:30	2.03	37.7	27.2	7.4	23	36.3	1.02	0.049	1.100	0.449	0.691	0.98	22.7	0.93	24.6	0.85	2.39
13:00	13:00	2.53	37.3	27.0	7.4	24	36.3	1.02	0.053	1.110	0.465	0.691	0.98	23.6	0.93	25.7	0.87	2.82
13:30	13:30	3.03	37.6	27.5	7.4	28	36.1	0.99	0.053	1.110	0.396	0.747	0.94	28.3	0.91	30.7	0.73	3.19
14:00	14:00	3.53	36.7	27.7	7.4	40	35.2	1.02	0.056	1.100	0.418	0.759	1.06	39.4	0.93	42.8	0.71	3.54
14:30	14:30	4.03	36.8	27.3	7.4	62	35.3	1.00	0.055	1.090	0.324	0.835	1.05	62.0	0.92	67.3	0.52	3.80
15:00	15:00	4.53	37.0	27.5	7.4	68	35.5	1.00	0.059	1.110	0.293	0.893	1.08	68.0	0.92	73.8	0.44	4.03
15:30	15:30	5.03	37.0	27.4	7.4	73	35.5	0.99	0.056	1.110	0.277	0.896	1.03	73.7	0.91	80.1	0.43	4.24
16:00	16:00	5.53	37.5	27.4	7.4	77	35.9	1.00	0.059	1.110	0.258	0.931	1.11	77.0	0.92	83.6	0.37	4.42
16:30	16:30	6.03	37.4	27.9	7.4	77	35.8	1.03	0.057	1.110	0.245	0.943	1.13	75.1	0.94	81.6	0.35	4.60
17:00	17:00	6.53	37.4	27.3	7.4	79	35.8	1.01	0.056	1.120	0.251	0.952	1.16	78.2	0.93	84.9	0.35	4.77
17:30	17:30	7.03	37.6	27.9	7.4	78	35.9	0.98	0.056	1.110	0.227	0.928	0.94	79.6	0.90	86.4	0.36	4.95
18:00	18:00	7.53	37.3	27.9	7.4	79	35.7	0.99	0.062	1.110	0.220	0.937	0.91	80.2	0.91	87.1	0.35	5.13
18:30	18:30	8.03	37.6	26.7	7.4	76	35.9	0.98	0.067	1.090	0.365	0.879	1.41	77.6	0.90	84.2	0.42	5.34

----- FLAPNO=2592 DATE=11/09/95 ANIMAL/SIDE=95-26-10-L PHASE=2 FLAPWT=30.99 DOSETIME=10:15 GROUP=EtoH MEDVOL=523 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	35.7	32.0	7.4	53	34.3	0.99	0.030	1.140	0.042	0.613	0.02	53.5	1.00	53.1	1.01	0.01
9:30	9:30	-0.75	36.7	31.6	7.4	44	35.0	1.00	0.029	1.140	0.116	0.730	0.21	44.2	1.00	43.9	0.79	0.21
9:45	9:45	-0.50	36.8	31.3	7.4	44	35.1	0.97	0.029	1.140	0.190	0.762	0.43	45.4	0.98	45.0	0.71	0.38
10:00	10:00	-0.25	36.9	30.4	7.4	42	35.2	0.98	0.032	1.110	0.243	0.790	0.66	42.9	0.99	42.5	0.61	0.54
10:15	10:15	0.00	37.1	31.1	7.4	40	35.3	0.99	0.033	1.140	0.293	0.778	0.72	40.4	1.00	40.1	0.69	0.71
10:45	10:44	0.48	37.0	29.6	7.5	38	35.3	1.00	0.036	1.130	0.331	0.772	0.82	38.2	1.00	37.9	0.69	1.04
11:15	11:15	1.00	37.0	29.8	7.4	37	35.3	1.02	0.039	1.130	0.401	0.732	0.91	36.3	1.03	36.0	0.79	1.45
11:45	11:45	1.50	37.0	29.6	7.4	37	35.3	1.00	0.041	1.130	0.437	0.716	0.96	37.2	1.00	36.9	0.80	1.85
12:15	12:15	2.00	37.1	30.0	7.4	38	35.3	1.00	0.041	1.090	0.450	0.713	1.08	38.0	1.01	37.7	0.73	2.21
12:45	12:45	2.50	37.1	29.6	7.4	40	35.4	0.97	0.041	1.100	0.452	0.698	1.02	41.2	0.98	40.9	0.75	2.59
13:15	13:15	3.00	37.0	29.3	7.5	40	35.3	0.98	0.043	1.120	0.455	0.709	1.00	41.0	0.98	40.7	0.78	2.98
13:45	13:45	3.50	37.1	29.0	7.4	46	35.4	0.99	0.044	1.120	0.408	0.758	1.01	46.7	0.99	46.3	0.69	3.32
14:15	14:15	4.00	37.1	29.7	7.4	52	35.4	1.01	0.039	0.950	0.344	0.763	1.63	51.7	1.01	51.3	0.36	3.51
14:45	14:45	4.50	37.1	29.3	7.4	56	35.4	1.01	0.042	1.010	0.310	0.739	0.99	55.7	1.01	55.3	0.53	3.77
15:15	15:15	5.00	37.1	29.3	7.4	57	35.4	0.98	0.044	1.050	0.299	0.761	0.88	58.2	0.99	57.7	0.55	4.04
15:45	15:45	5.50	37.2	29.4	7.4	61	35.4	0.98	0.046	1.070	0.302	0.801	0.95	62.6	0.98	62.1	0.51	4.30
16:15	16:15	6.00	37.2	28.8	7.4	64	35.6	0.99	0.039	1.110	0.299	0.820	0.90	65.0	0.99	64.5	0.55	4.57
16:45	16:45	6.50	37.3	29.2	7.4	64	35.6	1.02	0.032	1.150	0.290	0.893	1.00	63.1	1.02	62.6	0.51	4.83
17:15	17:15	7.00	37.4	29.2	7.4	65	35.6	1.00	0.039	1.130	0.284	0.889	1.02	65.3	1.00	64.8	0.46	5.06
17:45	17:45	7.50	37.4	29.3	7.5	66	35.6	1.01	0.044	1.110	0.282	0.880	1.03	65.7	1.01	65.2	0.45	5.28

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2592 DATE=11/09/95 ANIMAL/SIDE=95-26-10-L PHASE=2 FLAPWT=30.99 DOSETIME=10:15 GROUP=EtoH MEDVOL=523 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:15	18:15	8.00	37.4	28.5	7.5	66	35.6	1.00	0.051	1.080	0.290	0.848	1.03	66.0	1.01	65.5	0.45	5.51

----- FLAPNO=2593 DATE=11/15/95 ANIMAL/SIDE=95-108-4-R PHASE=2 FLAPWT=24.75 DOSETIME=10:29 GROUP=3 mg HD MEDVOL=471 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-0.98	36.1	28.7	7.4	70	34.0	1.00	0.022	1.130	0.023	0.529	0.00	70.0	0.91	77.1	1.46	0.01
9:45	9:45	-0.73	36.4	30.7	7.4	60	35.1	1.00	0.021	1.150	0.057	0.845	0.12	60.0	0.91	66.1	0.74	0.19
10:00	10:00	-0.48	36.6	31.1	7.4	61	35.1	1.01	0.021	1.100	0.106	0.901	0.42	60.7	0.91	66.9	0.48	0.32
10:15	10:15	-0.23	36.7	31.0	7.4	51	35.1	1.02	0.024	1.140	0.157	0.908	0.57	50.2	0.92	55.4	0.57	0.46
10:30	10:29	0.00	37.5	30.6	7.4	47	35.8	1.00	0.024	1.150	0.146	0.972	0.69	47.0	0.91	51.8	0.43	0.56
11:00	11:00	0.52	37.3	30.1	7.4	40	35.6	1.00	0.023	1.150	0.212	0.926	0.84	40.0	0.91	44.1	0.54	0.84
11:30	11:30	1.02	37.3	30.8	7.4	37	35.7	0.99	0.025	1.150	0.272	0.863	0.86	37.6	0.89	41.4	0.69	1.18
12:00	12:00	1.52	37.4	30.1	7.4	36	35.7	1.00	0.027	1.140	0.298	0.846	0.92	36.0	0.91	39.7	0.71	1.54
12:30	12:30	2.02	37.4	29.4	7.4	36	35.7	1.01	0.026	1.150	0.324	0.844	0.97	35.8	0.91	39.5	0.75	1.91
13:00	13:00	2.52	37.4	30.0	7.4	37	35.7	1.02	0.027	1.130	0.327	0.807	0.93	36.5	0.92	40.2	0.79	2.31
13:30	13:30	3.02	37.4	29.8	7.4	39	35.7	0.99	0.027	1.160	0.337	0.800	0.86	39.4	0.90	43.4	0.86	2.74
14:00	14:00	3.52	37.4	29.6	7.4	44	35.7	0.99	0.028	1.130	0.354	0.821	1.06	44.4	0.90	49.0	0.74	3.11
14:30	14:30	4.02	37.4	29.8	7.4	47	35.7	0.99	0.027	1.160	0.328	0.819	0.88	47.5	0.90	52.3	0.82	3.52
15:00	15:00	4.52	37.4	29.9	7.4	49	35.7	0.99	0.027	1.120	0.312	0.814	0.93	49.5	0.90	54.5	0.73	3.89
15:30	15:30	5.02	37.5	29.4	7.4	51	35.9	0.98	0.026	1.150	0.299	0.852	0.92	52.0	0.89	57.3	0.71	4.24
16:00	16:00	5.52	37.7	29.1	7.4	52	35.9	1.00	0.027	1.100	0.283	0.851	1.03	52.0	0.91	57.3	0.60	4.54
16:30	16:30	6.02	37.6	29.0	7.4	53	35.9	1.01	0.027	1.150	0.261	0.901	0.94	52.7	0.91	58.1	0.61	4.85
17:00	17:00	6.52	37.6	28.9	7.3	53	35.9	1.01	0.028	1.160	0.230	0.893	0.76	52.7	0.91	58.1	0.65	5.17
17:30	17:30	7.02	37.6	28.8	7.4	52	35.9	1.00	0.028	1.160	0.227	0.931	0.87	52.0	0.91	57.3	0.56	5.45
18:00	18:00	7.52	37.7	28.7	7.4	52	35.9	0.99	0.027	1.170	0.227	0.938	0.86	52.8	0.89	58.2	0.55	5.73
18:30	18:30	8.02	37.7	28.2	7.4	52	35.9	0.99	0.027	1.160	0.203	0.955	0.86	52.5	0.90	57.9	0.49	5.97

----- FLAPNO=2594 DATE=11/15/95 ANIMAL/SIDE=95-108-4-L PHASE=2 FLAPWT=29.55 DOSETIME=10:15 GROUP=EtoH MEDVOL=487 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	33.7	29.5	7.4	60	33.1	1.01	0.021	1.150	0.025	0.525	0.01	59.4	0.95	63.3	1.28	0.01
9:30	9:30	-0.75	35.5	29.7	7.4	47	34.7	1.01	0.021	1.160	0.030	0.725	0.02	46.8	0.94	49.8	0.89	0.23
9:45	9:45	-0.50	36.2	29.0	7.4	42	34.9	1.00	0.020	1.120	0.062	0.885	0.18	42.0	0.94	44.8	0.48	0.35
10:00	10:00	-0.25	36.4	28.6	7.4	39	35.1	1.00	0.022	1.160	0.113	0.911	0.37	39.2	0.93	41.8	0.50	0.48
10:15	10:15	0.00	36.6	28.6	7.4	35	35.2	1.00	0.022	1.130	0.171	0.868	0.57	35.2	0.93	37.5	0.53	0.61
10:45	10:45	0.50	36.6	27.8	7.4	34	34.9	0.99	0.022	1.170	0.219	0.902	0.74	34.5	0.92	36.8	0.54	0.88
11:15	11:15	1.00	36.8	27.7	7.4	31	35.1	0.99	0.023	1.170	0.256	0.863	0.76	31.5	0.92	33.5	0.61	1.18

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

(continued)																			
DATE=11/15/95				ANIMAL/SIDE=95-108-4-L				PHASE=2				FLAPWT=29.55		DOSETIME=10:15		GROUP=ETOH		MEDVOL=487	NCSU=Yes
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC	
11:45	11:45	1.50	36.8	27.7	7.4	31	35.3	1.02	0.022	1.150	0.283	0.862	0.91	30.5	0.95	32.5	0.59	1.48	
12:15	12:15	2.00	36.8	26.8	7.4	30	35.3	1.00	0.023	1.170	0.299	0.868	0.91	30.0	0.94	32.0	0.61	1.79	
12:45	12:45	2.50	36.9	27.3	7.4	31	35.3	0.98	0.022	1.170	0.314	0.898	1.07	31.6	0.92	33.7	0.54	2.06	
13:15	13:15	3.00	36.9	26.8	7.4	36	35.3	1.01	0.022	1.170	0.210	0.973	0.95	35.6	0.95	38.0	0.40	2.26	
13:45	13:45	3.50	36.9	26.5	7.4	35	35.3	1.00	0.022	1.160	0.230	0.954	1.01	35.0	0.94	37.3	0.42	2.47	
14:15	14:15	4.00	36.9	27.3	7.4	36	35.3	1.00	0.024	1.160	0.225	0.956	0.99	36.2	0.93	38.6	0.41	2.68	
14:45	14:45	4.50	37.0	26.7	7.4	35	35.4	1.00	0.023	1.180	0.211	0.983	0.95	35.2	0.93	37.5	0.40	2.87	
15:15	15:15	5.00	37.0	26.7	7.4	35	35.4	0.99	0.023	1.160	0.183	0.996	0.98	35.5	0.92	37.9	0.33	3.04	
15:45	15:45	5.50	37.0	26.9	7.4	35	35.4	1.01	0.023	1.170	0.187	0.987	0.90	34.8	0.94	37.1	0.37	3.23	
16:15	16:15	6.00	37.0	26.9	7.4	53	35.4	1.00	0.022	1.170	0.189	1.050	1.39	53.3	0.93	56.8	0.24	3.35	
16:45	16:45	6.50	37.0	27.3	7.4	35	35.5	1.00	0.023	1.160	0.179	0.997	0.96	35.0	0.94	37.3	0.33	3.51	
17:15	17:15	7.00	37.0	26.8	7.4	35	35.6	0.97	0.022	1.170	0.185	0.992	0.92	36.1	0.91	38.5	0.35	3.69	
17:45	17:45	7.50	37.0	26.8	7.4	35	35.4	1.00	0.022	1.170	0.184	1.020	1.08	35.0	0.94	37.3	0.30	3.84	
18:15	18:15	8.00	37.0	26.8	7.4	35	35.4	1.00	0.022	1.180	0.175	1.020	0.96	35.2	0.93	37.5	0.32	4.00	

----- FLAPNO=2595 DATE=11/16/95 ANIMAL/SIDE=95-108-6-R PHASE=2 FLAPWT=29.94 DOSETIME=10:30 GROUP=ETOH MEDVOL=480 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	35.3	31.5	7.4	83	33.3	0.99	0.025	1.170	0.024	0.676	-0.00	84.3	0.91	91.1	0.98	0.01
9:45	9:45	-0.75	36.3	29.6	7.4	63	34.6	1.01	0.024	1.140	0.049	0.773	0.07	62.4	0.93	67.4	0.74	0.20
10:00	10:00	-0.50	36.6	29.1	7.4	57	35.1	0.99	0.024	1.130	0.093	0.836	0.23	57.6	0.92	62.3	0.58	0.34
10:15	10:15	-0.25	36.7	29.0	7.4	50	35.3	1.02	0.024	1.120	0.129	0.897	0.47	49.3	0.94	53.3	0.45	0.45
10:30	10:30	0.00	36.8	29.1	7.4	36	35.4	1.00	0.025	1.140	0.164	0.908	0.60	36.0	0.92	38.9	0.46	0.57
11:00	11:00	0.50	36.8	29.1	7.4	32	35.2	0.98	0.024	1.140	0.210	0.921	0.85	32.7	0.91	35.3	0.43	0.79
11:30	11:30	1.00	36.9	28.3	7.4	30	35.5	0.98	0.022	1.180	0.244	0.915	0.84	30.6	0.91	33.1	0.52	1.05
12:00	12:00	1.50	36.9	29.2	7.4	30	35.5	1.01	0.021	1.170	0.271	0.916	0.98	29.9	0.93	32.3	0.51	1.30
12:30	12:30	2.00	36.9	28.9	7.4	33	35.6	0.99	0.022	1.160	0.234	0.938	0.95	33.3	0.92	36.0	0.44	1.52
13:00	13:00	2.50	36.9	29.1	7.4	33	35.6	0.99	0.017	1.180	0.255	0.905	0.87	33.3	0.92	36.0	0.55	1.80
13:30	13:30	3.00	36.9	28.9	7.4	34	35.7	1.00	0.017	1.210	0.274	0.910	0.86	34.2	0.92	36.9	0.60	2.09
14:00	14:00	3.50	37.0	29.0	7.4	34	35.6	1.00	0.016	1.180	0.280	0.883	0.89	34.2	0.92	36.9	0.59	2.39
14:30	14:30	4.00	37.1	29.2	7.4	35	35.8	0.99	0.015	1.140	0.296	0.862	1.01	35.5	0.91	38.4	0.55	2.66
15:00	15:00	4.50	37.1	29.0	7.4	37	35.8	0.99	0.013	1.130	0.285	0.834	0.92	37.4	0.92	40.4	0.59	2.96
15:30	15:30	5.00	37.1	29.1	7.4	38	35.8	1.00	0.011	1.170	0.279	0.851	0.84	38.2	0.92	41.3	0.64	3.28
16:00	16:00	5.50	37.1	28.9	7.4	39	35.8	1.01	0.010	1.180	0.266	0.878	0.85	38.8	0.93	42.0	0.61	3.58
16:30	16:30	6.00	37.1	28.8	7.4	40	35.8	1.01	0.007	1.160	0.265	0.899	0.99	39.6	0.93	42.8	0.53	3.84
17:00	17:00	6.50	37.1	28.8	7.4	42	35.8	0.98	0.008	1.170	0.244	0.871	0.79	42.9	0.91	46.3	0.59	4.14
17:30	17:30	7.00	37.1	28.5	7.4	43	35.8	1.00	0.007	1.160	0.230	0.900	0.86	43.0	0.92	46.5	0.52	4.40
18:00	18:00	7.50	37.1	28.3	7.4	45	35.7	0.99	0.006	1.160	0.219	0.910	0.85	45.7	0.91	49.4	0.49	4.65
18:30	18:30	8.00	37.0	28.2	7.4	46	35.7	0.98	0.009	1.120	0.214	0.902	0.94	46.9	0.91	50.8	0.43	4.86

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2596 DATE=11/16/95 ANIMAL/SIDE=95-108-6-L PHASE=1 FLAPWT=29.3 DOSETIME=10:15 GROUP=No Topical MEDVOL=525 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	34.5	34.4	7.4	106	32.1	1.00	0.024	1.160	0.038	0.645	0.03	106.5	1.01	105.3	1.05	0.01
9:30	9:30	-0.75	35.7	33.2	7.4	70	34.7	0.99	0.023	1.180	0.073	0.845	0.15	70.7	1.00	69.9	0.68	0.18
9:45	9:45	-0.50	35.8	33.1	7.4	53	35.1	0.99	0.024	1.170	0.126	0.831	0.30	53.5	1.00	52.9	0.69	0.35
10:00	10:00	-0.25	35.9	32.7	7.4	45	35.1	1.00	0.026	1.120	0.166	0.863	0.54	45.0	1.01	44.5	0.53	0.48
10:15	10:15	0.00	35.9	32.7	7.4	41	35.1	1.01	0.027	1.160	0.196	0.884	0.61	40.6	1.02	40.1	0.57	0.63
10:45	10:45	0.50	36.0	32.4	7.4	38	35.3	0.99	0.029	1.180	0.227	0.906	0.72	38.6	1.00	38.1	0.55	0.90
11:15	11:15	1.00	36.1	31.6	7.4	37	35.3	0.99	0.028	1.180	0.246	0.936	0.89	37.4	1.00	36.9	0.49	1.15
11:45	11:45	1.50	36.0	32.1	7.4	38	35.3	0.99	0.027	1.150	0.267	0.887	0.91	38.4	1.00	37.9	0.53	1.42
12:15	12:15	2.00	36.0	32.2	7.4	38	35.2	1.00	0.023	1.180	0.281	0.880	0.86	38.2	1.01	37.8	0.61	1.72
12:45	12:45	2.50	36.0	32.0	7.4	40	35.3	0.99	0.024	1.180	0.281	0.875	0.84	40.6	1.00	40.1	0.62	2.03
13:15	13:15	3.00	36.0	32.1	7.4	40	35.2	0.99	0.025	1.200	0.289	0.900	0.88	40.4	1.00	39.9	0.61	2.33
13:45	13:45	3.50	36.0	31.8	7.4	40	35.3	1.01	0.022	1.200	0.291	0.897	0.89	39.6	1.02	39.2	0.63	2.65
14:15	14:15	4.00	36.0	31.9	7.4	42	35.3	1.01	0.026	1.180	0.286	0.897	0.92	41.8	1.02	41.3	0.58	2.94
14:45	14:45	4.50	36.0	31.8	7.4	43	35.3	1.00	0.024	1.120	0.285	0.875	1.07	43.2	1.01	42.7	0.50	3.19
15:15	15:15	5.00	36.2	31.9	7.4	43	35.3	1.00	0.019	1.160	0.285	0.874	0.93	43.0	1.01	42.5	0.59	3.48
15:45	15:45	5.50	36.1	31.9	7.4	44	35.3	1.01	0.019	1.170	0.289	0.870	0.90	43.8	1.02	43.3	0.62	3.79
16:15	16:15	6.00	36.2	31.8	7.4	45	35.3	1.00	0.019	1.170	0.287	0.882	0.93	45.0	1.01	44.5	0.59	4.08
16:45	16:45	6.50	36.2	31.6	7.4	46	35.3	0.99	0.019	1.160	0.281	0.879	0.93	46.7	1.00	46.2	0.57	4.37
17:15	17:15	7.00	36.2	31.6	7.4	47	35.3	0.98	0.017	1.150	0.278	0.873	0.94	48.0	0.99	47.4	0.56	4.65
17:45	17:45	7.50	36.1	31.0	7.4	47	35.3	0.96	0.018	1.150	0.251	0.883	0.87	49.2	0.97	48.7	0.52	4.91
18:15	18:15	8.00	36.2	31.8	66.0	35	1.0	0.50	1.130	0.304	0.810	-	-	70.6	0.51	69.8	-	4.91

----- FLAPNO=2597 DATE=11/22/95 ANIMAL/SIDE=95-36-9-R PHASE=1 FLAPWT=23.21 DOSETIME=10:15 GROUP=No Topical MEDVOL=513 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	35.2	30.5	7.4	68	33.9	1.03	0.018	1.100	0.054	0.778	0.11	66.0	1.02	66.8	0.86	0.01
9:30	9:30	-0.75	35.7	29.8	7.4	67	34.3	1.01	0.022	1.140	0.164	0.757	0.37	66.3	1.00	67.1	1.00	0.26
9:45	9:45	-0.50	35.9	28.9	7.4	59	34.5	1.02	0.023	1.140	0.204	0.842	0.61	58.1	1.00	58.8	0.78	0.46
10:00	10:00	-0.25	36.1	28.6	7.4	49	34.4	1.01	0.022	1.150	0.232	0.866	0.74	48.5	1.00	49.1	0.74	0.64
10:15	10:15	0.00	36.2	28.3	7.4	35	34.7	1.00	0.022	1.160	0.266	0.871	0.84	35.0	0.99	35.4	0.75	0.83
10:45	10:45	0.50	36.3	28.0	7.4	33	34.7	1.00	0.022	1.190	0.288	0.876	0.85	33.0	0.99	33.4	0.81	1.23
11:15	11:15	1.00	36.4	27.8	7.4	33	34.8	1.01	0.020	1.190	0.272	0.902	0.88	32.8	0.99	33.2	0.75	1.61
11:45	11:45	1.50	36.4	27.5	7.4	34	34.9	0.99	0.022	1.190	0.284	0.903	0.91	34.3	0.98	34.7	0.73	1.97
12:15	12:15	2.00	36.4	27.6	7.4	35	34.9	1.01	0.022	1.180	0.297	0.886	0.94	34.8	0.99	35.2	0.76	2.35
12:45	12:45	2.50	36.5	30.1	7.4	38	34.9	0.99	0.019	1.190	0.272	0.888	0.83	38.4	0.98	38.8	0.78	2.74
13:15	13:15	3.00	36.5	27.9	7.4	41	34.9	0.99	0.020	1.190	0.259	0.916	0.87	41.4	0.98	41.9	0.70	3.09
13:45	13:45	3.50	36.4	28.7	7.4	41	34.9	0.99	0.019	1.190	0.233	0.953	0.90	41.4	0.98	41.9	0.61	3.40
14:15	14:15	4.00	36.5	28.3	7.4	45	34.9	0.99	0.021	1.180	0.220	0.956	0.89	45.7	0.97	46.2	0.57	3.68
14:45	14:45	4.50	36.5	28.5	7.4	46	34.9	1.02	0.022	1.190	0.184	0.997	0.84	45.3	1.00	45.9	0.51	3.94
15:15	15:15	5.00	36.5	28.2	7.4	46	34.9	0.99	0.023	1.200	0.189	1.000	0.83	46.5	0.98	47.0	0.51	4.19
15:45	15:45	5.50	36.4	28.3	7.4	47	34.9	1.01	0.021	1.190	0.191	1.020	1.00	46.8	0.99	47.3	0.44	4.41

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND SIGMA BSA

----- FLAPNO=2597 DATE=11/22/95 ANIMAL/SIDE=95-36-9-R PHASE=1 FLAPNT=23.21 DOSETIME=10:15 GROUP=No Topical MEDVOL=513 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:15	16:15	6.00	36.5	28.3	7.4	47	34.9	1.00	0.021	1.180	0.185	1.010	0.96	47.2	0.98	47.8	0.44	4.63
16:45	16:45	6.50	36.5	28.7	7.4	47	34.9	1.01	0.020	1.210	0.182	1.020	0.85	46.8	0.99	47.3	0.49	4.88
17:15	17:15	7.00	36.5	28.7	7.4	48	34.9	1.00	0.023	1.160	0.161	1.060	1.38	48.0	0.99	48.6	0.26	5.01
17:45	17:45	7.50	36.5	28.6	7.4	47	34.9	1.01	0.018	1.210	0.165	1.030	0.82	46.5	1.00	47.1	0.47	5.24
18:15	18:15	8.00	36.5	28.8	7.5	45	34.9	1.01	0.016	1.170	0.157	1.030	1.01	44.8	0.99	45.3	0.36	5.42

----- FLAPNO=2598 DATE=11/22/95 ANIMAL/SIDE=95-36-9-L PHASE=2 FLAPNT=26.21 DOSETIME=9:58 GROUP=EtoH MEDVOL=498 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.3	33.2	7.4	75	34.4	1.01	0.020	1.140	0.030	0.710	0.02	74.6	0.96	77.8	0.99	0.01
9:15	9:15	-0.72	36.0	32.5	7.4	54	35.1	0.96	0.022	1.150	0.071	0.836	0.16	56.5	0.92	58.9	0.69	0.18
9:30	9:30	-0.47	36.3	31.9	7.4	57	35.3	1.01	0.022	1.130	0.141	0.839	0.41	56.7	0.96	59.1	0.67	0.35
9:45	9:45	-0.22	36.5	31.3	7.4	49	35.4	1.01	0.023	1.160	0.174	0.860	0.50	48.8	0.96	50.8	0.69	0.52
10:00	9:58	0.00	36.6	31.2	7.4	45	35.5	1.01	0.020	1.160	0.212	0.876	0.68	44.6	0.97	46.4	0.66	0.66
10:30	10:30	0.53	36.7	30.8	7.4	41	35.6	1.00	0.021	1.170	0.276	0.860	0.82	41.2	0.95	42.9	0.71	1.04
11:00	11:00	1.03	36.8	31.0	7.4	37	35.7	1.02	0.022	1.170	0.300	0.839	0.84	36.5	0.97	38.0	0.77	1.42
11:30	11:30	1.53	36.8	30.0	7.4	37	35.7	0.99	0.019	1.190	0.325	0.836	0.86	37.4	0.95	38.9	0.80	1.83
12:00	12:00	2.03	36.8	30.3	7.4	38	35.7	1.01	0.022	1.180	0.334	0.838	0.91	37.6	0.97	39.2	0.79	2.22
12:30	12:30	2.53	36.9	30.2	7.4	39	35.7	1.00	0.021	1.160	0.329	0.848	0.99	39.2	0.95	40.8	0.71	2.58
13:00	13:00	3.03	36.9	29.1	7.4	43	35.7	1.00	0.023	1.190	0.310	0.863	0.88	43.0	0.96	44.8	0.75	2.95
13:30	13:30	3.53	36.8	30.0	7.4	48	35.7	1.00	0.021	1.210	0.246	0.948	0.86	48.2	0.95	50.3	0.60	3.25
14:00	14:00	4.03	36.9	30.1	7.4	48	35.7	0.99	0.023	1.140	0.240	0.928	1.02	48.5	0.95	50.5	0.48	3.49
14:30	14:30	4.53	36.9	29.6	7.4	47	35.8	1.01	0.024	1.190	0.229	0.931	0.79	46.8	0.96	48.7	0.60	3.79
15:00	15:00	5.03	36.9	29.6	7.4	52	35.8	1.00	0.023	1.130	0.201	0.970	1.11	52.0	0.96	54.2	0.37	3.97
15:30	15:30	5.53	36.9	30.1	7.4	52	35.8	0.99	0.021	1.230	0.206	1.020	0.88	52.5	0.95	54.7	0.48	4.21
16:00	16:00	6.03	36.9	31.5	7.4	55	35.8	1.00	0.020	1.190	0.180	0.985	0.78	55.0	0.96	57.3	0.47	4.44
16:30	16:30	6.53	36.9	30.7	7.4	57	35.7	1.01	0.021	1.190	0.177	1.000	0.82	56.7	0.96	59.1	0.44	4.66
17:00	17:00	7.03	36.9	28.8	7.4	58	35.8	1.01	0.020	1.220	0.177	1.020	0.79	57.4	0.97	59.8	0.46	4.89
17:30	17:30	7.53	36.8	30.4	7.4	56	35.7	1.01	0.019	1.210	0.179	1.010	0.80	55.7	0.96	58.1	0.46	5.12
18:00	18:00	8.03	36.9	30.2	7.4	80	35.7	1.01	0.020	1.230	0.179	1.000	0.69	79.6	0.96	83.0	0.53	5.39

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENROOT BSA

----- FLAPNO=2599 DATE=11/29/95 ANIMAL/SIDE=95-34-12-R PHASE=1 FLAPWT=23.22 DOSETIME=10:15 GROUP=No Topical MEDVOL=515 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.7	33.1	7.4	47	35.7	1.02	0.003	1.220	0.085	0.591	0.13	46.1	1.01	46.4	1.66	0.01
9:30	9:30	-0.75	36.4	32.6	7.4	57	35.2	1.00	0.002	1.170	0.154	0.769	0.38	57.0	0.99	57.4	1.04	0.27
9:45	9:45	-0.50	36.6	32.7	7.4	86	35.1	1.01	0.003	1.160	0.178	0.888	0.64	85.1	1.00	85.8	0.71	0.45
10:00	10:00	-0.25	36.7	31.9	7.4	88	35.3	1.00	0.003	1.130	0.170	0.918	0.79	88.4	0.99	89.1	0.55	0.58
10:15	10:15	0.00	36.8	31.3	7.4	78	35.2	1.00	0.003	1.140	0.195	0.934	0.93	78.4	0.99	79.0	0.53	0.72
10:45	10:45	0.50	36.9	30.9	7.4	72	35.4	0.99	0.001	1.180	0.233	0.950	1.01	72.7	0.98	73.3	0.59	1.01
11:15	11:16	1.02	36.9	31.0	7.4	65	35.4	0.99	0.003	1.170	0.260	0.927	1.06	65.7	0.98	66.2	0.62	1.33
11:45	11:45	1.50	36.9	31.0	7.4	62	35.5	1.00	0.003	1.170	0.269	0.922	1.07	62.0	0.99	62.5	0.64	1.64
12:15	12:15	2.00	36.9	30.8	7.4	60	35.5	1.02	0.002	1.210	0.274	0.927	0.96	59.1	1.01	59.6	0.74	2.01
12:45	12:45	2.50	36.8	30.5	7.4	58	35.5	1.02	0.001	1.210	0.296	0.915	1.00	57.1	1.01	57.6	0.77	2.40
13:15	13:15	3.00	36.9	30.6	7.4	56	35.5	0.98	0.004	1.170	0.302	0.906	1.13	57.1	0.97	57.6	0.67	2.73
13:45	13:45	3.50	36.9	30.2	7.4	54	35.5	1.01	0.002	1.200	0.289	0.933	1.07	53.7	1.00	54.1	0.69	3.08
14:15	14:15	4.00	36.9	29.8	7.4	54	35.5	1.01	0.001	1.220	0.280	0.910	0.90	53.7	1.00	54.1	0.81	3.48
14:45	14:45	4.50	36.9	29.7	7.4	53	35.5	1.01	0.000	1.220	0.278	0.939	0.99	52.7	1.00	53.1	0.73	3.85
15:15	15:15	5.00	36.9	29.3	7.4	52	35.5	0.99	0.001	1.220	0.267	0.948	0.98	52.5	0.98	52.9	0.70	4.19
15:45	15:45	5.50	36.9	28.9	7.4	51	35.5	0.98	0.000	1.200	0.266	0.916	0.94	52.0	0.97	52.4	0.72	4.55
16:15	16:15	6.00	36.9	29.0	7.4	50	35.5	1.01	0.002	1.200	0.259	0.915	0.90	49.8	1.00	50.1	0.74	4.92
16:45	16:45	6.50	37.0	29.4	7.4	50	35.4	1.01	0.001	1.180	0.256	0.937	1.05	49.5	1.00	49.9	0.63	5.24
17:15	17:15	7.00	36.9	29.6	7.4	50	35.5	0.96	0.001	1.190	0.270	0.928	1.03	52.1	0.95	52.5	0.65	5.57
17:45	17:45	7.50	36.9	29.3	7.4	50	35.5	0.98	0.001	1.170	0.256	0.937	1.09	51.0	0.97	51.4	0.59	5.86
18:15	18:15	8.00	37.0	29.2	7.4	49	35.6	0.99	0.004	1.150	0.293	0.905	1.18	49.7	0.98	50.1	0.62	6.17

----- FLAPNO=2600 DATE=11/29/95 ANIMAL/SIDE=95-34-12-L PHASE=2 FLAPWT=29.89 DOSETIME=10:00 GROUP=EtoH MEDVOL=479 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	35.0	35.8	7.4	67	34.2	1.00	0.003	1.220	0.070	0.654	0.12	67.3	0.92	73.0	1.13	0.01
9:15	9:15	-0.75	35.6	31.6	7.4	58	34.5	0.97	0.003	1.210	0.136	0.785	0.31	59.8	0.90	64.8	0.83	0.22
9:30	9:30	-0.50	35.6	28.6	7.4	68	33.7	1.00	0.003	1.170	0.195	0.762	0.47	68.0	0.92	73.7	0.82	0.42
9:45	9:45	-0.25	36.1	31.2	7.4	75	34.9	1.02	0.002	1.180	0.190	0.862	0.59	73.9	0.94	80.1	0.65	0.58
10:00	10:00	0.00	36.2	27.6	7.4	66	34.7	1.01	0.002	1.150	0.246	0.837	0.78	65.3	0.93	70.8	0.63	0.74
10:30	10:30	0.50	36.4	29.8	7.4	72	35.1	0.99	0.000	1.180	0.244	0.925	0.96	72.7	0.91	78.8	0.51	1.00
11:00	11:00	1.00	36.4	29.2	7.4	66	35.2	1.02	0.002	1.190	0.271	0.917	0.99	65.0	0.94	70.5	0.56	1.27
11:30	11:30	1.50	36.5	28.7	7.4	64	35.3	0.99	0.003	1.200	0.285	0.920	1.01	65.0	0.91	70.4	0.55	1.55
12:00	12:00	2.00	36.5	28.8	7.4	64	35.3	1.01	0.004	1.180	0.301	0.903	1.07	63.4	0.93	68.7	0.56	1.83
12:30	12:30	2.50	36.4	28.2	7.4	63	35.3	1.00	0.002	1.190	0.305	0.901	1.05	63.0	0.92	68.3	0.58	2.12
13:00	13:00	3.00	36.5	29.0	7.4	62	35.3	0.99	0.001	1.220	0.289	0.930	0.99	62.9	0.91	68.2	0.57	2.41
13:30	13:30	3.50	36.5	29.0	7.4	59	35.3	0.99	0.004	1.170	0.284	0.924	1.14	59.6	0.91	64.6	0.49	2.65
14:00	14:00	4.00	36.5	28.8	7.4	56	35.3	1.01	0.002	1.220	0.300	0.947	1.09	55.4	0.93	60.1	0.55	2.93
14:30	14:30	4.50	36.5	29.0	7.4	57	35.3	0.99	0.001	1.190	0.284	0.917	1.04	57.9	0.91	62.7	0.54	3.20
15:00	15:00	5.00	36.5	28.7	7.4	54	35.3	0.99	0.000	1.220	0.294	0.924	0.99	54.5	0.91	59.1	0.59	3.49
15:30	15:30	5.50	36.5	27.9	7.4	53	35.3	1.02	0.001	1.190	0.279	0.930	1.07	52.2	0.94	56.6	0.53	3.76

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2600 DATE=11/29/95 ANIMAL/SIDE=95-34-12-L PHASE=2 FLAPWT=29.89 DOSETIME=10:00 GROUP=EtoH MEDVOL=479 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:00	16:00	6.00	36.5	27.9	7.4	53	35.3	1.01	0.001	1.200	0.276	0.946	1.08	52.5	0.93	56.9	0.51	4.02
16:30	16:30	6.50	36.5	28.1	7.4	52	35.3	1.00	0.003	1.170	0.270	0.932	1.12	52.3	0.92	56.6	0.48	4.25
17:00	17:00	7.00	36.5	28.4	7.4	51	35.3	1.01	0.001	1.190	0.256	0.944	1.04	50.5	0.93	54.7	0.50	4.50
17:30	17:30	7.50	36.5	28.5	7.4	51	35.3	1.00	0.003	1.180	0.275	0.900	0.97	51.0	0.92	55.3	0.56	4.78
18:00	18:00	8.00	36.5	28.2	7.4	49	35.3	1.01	0.000	1.190	0.315	0.878	1.01	48.8	0.93	52.8	0.63	5.10

----- FLAPNO=2602 DATE=11/30/95 ANIMAL/SIDE=95-34-9-L PHASE=2 FLAPWT=33.38 DOSETIME=9:58 GROUP=EtoH MEDVOL=469 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.9	31.4	7.4	59	34.9	1.02	0.000	1.200	0.055	0.699	0.11	58.1	0.92	64.3	0.91	0.01
9:15	9:15	-0.72	35.8	31.8	7.4	46	34.8	1.01	0.001	1.210	0.103	0.861	0.29	45.8	0.91	50.7	0.63	0.17
9:30	9:30	-0.47	36.1	31.1	7.4	43	35.0	0.99	0.000	1.210	0.161	0.909	0.53	43.7	0.89	48.3	0.53	0.30
9:45	9:45	-0.22	36.3	30.9	7.4	43	35.2	1.01	0.003	1.180	0.220	0.865	0.69	42.8	0.91	47.3	0.57	0.44
10:00	9:58	0.00	36.4	30.9	7.4	42	35.2	1.00	0.000	1.190	0.264	0.872	0.83	42.2	0.90	46.7	0.57	0.57
10:30	10:30	0.53	36.6	30.5	7.4	43	35.4	0.98	0.003	1.190	0.321	0.854	0.95	43.9	0.89	48.6	0.59	0.88
11:00	11:00	1.03	36.6	30.3	7.4	42	35.4	1.00	0.000	1.180	0.343	0.815	0.94	42.0	0.90	46.5	0.66	1.21
11:30	11:30	1.53	36.7	30.4	7.5	48	35.4	1.00	0.001	1.170	0.339	0.825	0.98	48.2	0.90	53.4	0.62	1.52
12:00	12:00	2.03	36.7	30.1	7.4	51	35.5	1.01	0.004	1.150	0.330	0.829	1.02	50.7	0.91	56.2	0.58	1.81
12:30	12:30	2.53	36.8	30.1	7.4	51	35.4	0.98	0.000	1.170	0.301	0.839	0.91	52.0	0.89	57.6	0.58	2.10
13:00	13:00	3.03	36.7	29.9	7.4	58	35.6	1.02	0.002	1.160	0.303	0.818	0.88	57.1	0.92	63.2	0.62	2.41
13:30	13:30	3.53	36.7	30.0	7.4	69	35.6	1.01	0.000	1.150	0.248	0.886	0.94	68.3	0.91	75.6	0.48	2.65
14:00	14:00	4.03	36.6	30.0	7.4	71	35.3	1.02	0.000	1.130	0.241	0.891	1.01	70.0	0.92	77.4	0.44	2.87
14:30	14:32	4.57	36.6	29.9	7.4	69	35.2	1.01	0.002	1.140	0.254	0.908	1.09	68.7	0.91	76.0	0.42	3.09
15:00	15:00	5.03	36.6	29.7	7.4	71	35.2	1.01	0.000	1.150	0.265	0.865	0.93	70.6	0.91	78.2	0.51	3.33
15:30	15:30	5.53	36.6	29.5	7.4	72	35.3	1.00	0.000	1.150	0.253	0.888	0.97	72.4	0.90	80.1	0.47	3.57
16:00	16:00	6.03	36.6	30.3	7.4	71	35.3	0.98	0.001	1.150	0.279	0.868	0.99	72.4	0.89	80.2	0.50	3.82
16:30	16:30	6.53	36.6	30.3	7.4	71	35.3	1.01	0.000	1.170	0.277	0.878	0.95	70.3	0.91	77.8	0.53	4.08
17:00	17:00	7.03	36.6	30.6	7.4	70	35.4	0.96	0.002	1.150	0.267	0.886	1.00	73.3	0.86	81.1	0.45	4.31
17:30	17:30	7.53	36.7	30.6	7.4	68	35.3	0.99	0.000	1.170	0.287	0.918	1.14	68.7	0.89	76.0	0.45	4.53
18:00	18:00	8.03	36.7	30.4	7.4	62	35.4	0.99	0.002	1.150	0.281	0.867	0.99	62.6	0.89	69.3	0.50	4.78

----- FLAPNO=2603 DATE=12/06/95 ANIMAL/SIDE=95-39-15-R PHASE=1 FLAPWT=26.77 DOSETIME=10:15 GROUP=No Topical MEDVOL=462 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.1	32.8	7.4	65	35.8	0.99	0.000	1.130	0.027	0.765	0.07	66.0	0.88	74.1	0.81	0.01
9:30	9:30	-0.75	36.4	30.7	7.4	55	35.6	1.00	0.001	1.110	0.078	0.732	0.20	55.0	0.89	61.8	0.85	0.22
9:45	9:45	-0.50	36.3	30.4	7.4	53	35.5	0.99	0.001	1.110	0.152	0.803	0.49	53.8	0.88	60.4	0.68	0.39

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2603 DATE=12/06/95 ANIMAL/SIDE=95-39-15-R PHASE=1 FLAPWT=26.77 DOSETIME=10:15 GROUP=No Topical MEDVOL=462 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.25	36.3	30.8	7.4	52	35.5	1.00	0.001	1.100	0.189	0.824	0.68	52.3	0.89	58.7	0.62	0.55
10:15	10:15	0.00	36.3	30.0	7.4	47	35.4	1.01	0.000	1.130	0.229	0.840	0.79	46.5	0.90	52.3	0.66	0.71
10:45	10:45	0.50	36.3	29.5	7.4	45	35.5	1.01	0.002	1.110	0.263	0.820	0.90	44.8	0.89	50.3	0.65	1.04
11:15	11:15	1.00	36.3	30.0	7.4	51	35.6	0.99	0.000	1.130	0.239	0.881	0.96	51.8	0.88	58.2	0.55	1.31
11:45	11:45	1.50	36.4	29.6	7.4	50	35.6	0.99	0.004	1.140	0.271	0.858	0.95	50.5	0.88	56.7	0.63	1.62
12:15	12:15	2.00	36.3	29.6	7.4	54	35.6	1.00	0.000	1.160	0.286	0.859	0.95	54.3	0.89	61.0	0.67	1.96
12:45	12:45	2.50	36.2	29.3	7.4	58	35.6	1.01	0.002	1.170	0.273	0.857	0.87	57.7	0.89	64.8	0.71	2.31
13:15	13:15	3.00	36.4	28.9	7.4	59	35.7	1.00	0.002	1.150	0.273	0.882	1.01	59.0	0.89	66.3	0.60	2.61
13:45	13:45	3.50	36.4	26.6	7.4	73	35.8	0.99	0.005	1.140	0.255	0.885	0.98	73.7	0.88	82.8	0.57	2.89
14:15	14:15	4.00	36.4	28.0	7.4	72	35.8	1.01	0.006	1.140	0.248	0.909	1.05	71.3	0.90	80.1	0.52	3.16
14:45	14:45	4.50	36.4	32.6	7.4	79	35.8	1.01	0.003	1.150	0.248	0.889	0.94	78.2	0.90	87.9	0.59	3.45
15:15	15:15	5.00	36.4	28.0	7.4	83	35.8	1.00	0.002	1.140	0.243	0.885	0.95	83.0	0.89	93.2	0.57	3.74
15:45	15:45	5.50	36.2	30.0	7.4	84	35.8	0.99	0.002	1.130	0.260	0.881	1.04	85.3	0.88	95.8	0.55	4.01
16:15	16:15	6.00	36.5	27.7	7.4	73	35.8	1.01	0.004	1.130	0.336	0.821	1.07	72.3	0.90	81.2	0.70	4.36
16:45	16:45	6.50	36.5	28.1	7.4	80	35.8	1.00	0.002	1.150	0.362	0.797	1.02	80.4	0.89	90.3	0.79	4.76
17:15	17:15	7.00	36.5	28.3	7.4	79	35.8	1.00	0.002	1.160	0.371	0.827	1.11	79.0	0.89	88.7	0.75	5.13
17:45	17:45	7.50	36.5	30.1	7.4	80	35.8	1.02	0.002	1.130	0.358	0.787	1.04	78.8	0.90	88.5	0.78	5.52
18:15	18:15	8.00	36.5	31.5	7.4	75	35.8	1.00	0.005	1.160	0.360	0.787	0.95	75.0	0.89	84.3	0.84	5.94

----- FLAPNO=2604 DATE=12/06/95 ANIMAL/SIDE=95-39-15-L PHASE=2 FLAPWT=25.21 DOSETIME=10:00 GROUP=EtoH MEDVOL=512 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	35.4	30.6	7.4	63	34.5	1.01	0.004	1.110	0.015	0.759	0.03	62.4	1.00	63.2	0.84	0.01
9:15	9:15	-0.75	35.5	31.2	7.4	51	34.3	0.99	0.003	1.120	0.063	0.742	0.16	51.8	0.97	52.5	0.89	0.23
9:30	9:30	-0.50	36.2	28.6	7.4	55	34.8	1.01	0.002	1.120	0.105	0.793	0.31	54.5	1.00	55.2	0.79	0.43
9:45	9:45	-0.25	36.4	27.7	7.4	59	34.9	1.00	0.003	1.120	0.141	0.847	0.51	59.3	0.98	60.1	0.65	0.59
10:00	10:00	0.00	36.6	28.2	7.4	54	35.0	1.00	0.002	1.120	0.165	0.869	0.65	54.0	0.99	54.7	0.60	0.74
10:30	10:30	0.50	36.8	27.3	7.4	60	35.1	1.00	0.002	1.110	0.197	0.876	0.83	60.3	0.98	61.1	0.55	1.02
11:00	11:00	1.00	36.9	27.6	7.4	61	35.1	1.01	0.001	1.140	0.215	0.889	0.85	60.7	0.99	61.5	0.60	1.32
11:30	11:30	1.50	36.9	27.2	7.4	64	35.1	0.99	0.000	1.160	0.216	0.898	0.82	64.6	0.98	65.5	0.62	1.62
12:00	12:00	2.00	36.8	27.8	7.4	48	35.6	0.99	0.003	1.140	0.226	0.903	0.94	48.7	0.97	49.4	0.56	1.90
12:30	12:30	2.50	36.5	26.7	7.4	72	35.1	0.99	0.003	1.140	0.209	0.939	1.02	72.7	0.98	73.7	0.47	2.14
13:00	13:00	3.00	37.0	30.2	7.4	78	35.2	1.01	0.004	1.150	0.236	0.915	0.99	77.2	1.00	78.3	0.56	2.42
13:30	13:30	3.50	37.1	26.3	7.4	82	35.3	1.02	0.001	1.160	0.238	0.927	1.02	80.8	1.00	81.9	0.56	2.70
14:00	14:00	4.00	37.0	29.4	7.4	91	35.3	1.01	0.003	1.170	0.257	0.891	0.91	90.1	1.00	91.3	0.67	3.04
14:30	14:30	4.50	37.0	29.4	7.4	79	35.3	1.01	0.002	1.170	0.222	0.952	1.01	78.6	0.99	79.7	0.52	3.30
15:00	15:00	5.00	37.0	29.6	7.4	82	35.3	1.02	0.004	1.160	0.228	0.910	0.90	80.4	1.01	81.5	0.61	3.60
15:30	15:30	5.50	37.1	28.5	7.4	79	35.3	1.01	0.003	1.150	0.208	0.935	0.95	78.6	0.99	79.7	0.51	3.86
16:00	16:00	6.00	37.1	29.4	7.4	78	35.4	1.00	0.002	1.160	0.216	0.943	0.99	78.0	0.99	79.1	0.52	4.12
16:30	16:30	6.50	37.0	28.4	7.4	77	35.4	1.02	0.003	1.150	0.227	0.931	1.02	75.9	1.00	76.9	0.53	4.38

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2604 DATE=12/06/95 ANIMAL/SIDE=95-39-15-L PHASE=2 FLAPWT=25.21 DOSETIME=10:00 GROUP=EtoH MEDVOL=512 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	7:00	37.0	26.0	7.4	76	35.4	1.01	0.002	1.170	0.229	0.953	1.05	75.6	0.99	76.7	0.52	4.64
17:30	17:30	7:50	37.0	26.4	7.4	71	35.4	1.00	0.002	1.170	0.340	0.840	1.02	71.0	0.99	72.0	0.79	5.04
18:00	18:00	8:00	37.0	27.3	7.4	72	35.4	1.00	0.001	1.160	0.312	0.850	1.00	72.0	0.99	73.0	0.74	5.40

----- FLAPNO=2605 DATE=12/07/95 ANIMAL/SIDE=95-39-13-R PHASE=2 FLAPWT=29.72 DOSETIME=10:15 GROUP=EtoH MEDVOL=475 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1:00	35.6	31.7	7.4	46	35.4	1.01	0.004	1.150	0.067	0.740	0.15	45.8	0.92	50.0	0.83	0.01
9:30	9:30	-0:75	35.9	33.2	7.4	41	35.7	1.02	0.005	1.140	0.145	0.757	0.37	40.4	0.93	44.1	0.78	0.21
9:45	9:45	-0:50	36.0	29.6	7.4	47	35.7	1.01	0.004	1.150	0.166	0.828	0.50	46.5	0.92	50.8	0.66	0.37
10:00	10:00	-0:25	36.1	32.4	7.4	45	35.7	1.01	0.004	1.150	0.244	0.811	0.71	44.6	0.92	48.7	0.69	0.54
10:15	10:15	0:00	35.9	31.1	7.4	41	35.8	1.01	0.005	1.140	0.279	0.803	0.81	40.6	0.92	44.4	0.69	0.71
10:45	10:45	0:50	35.6	29.8	7.4	43	35.9	0.98	0.003	1.150	0.296	0.832	0.92	44.1	0.89	48.2	0.63	1.03
11:15	11:15	1:00	36.0	32.1	7.4	43	35.9	1.01	0.004	1.180	0.292	0.857	0.89	42.8	0.92	46.7	0.66	1.36
11:45	11:45	1:50	35.9	31.5	7.4	49	36.0	1.00	0.005	1.190	0.300	0.876	0.94	49.0	0.92	53.5	0.63	1.67
12:15	12:15	2:00	35.9	31.7	7.4	54	36.1	1.00	0.003	1.170	0.286	0.877	0.97	54.0	0.92	59.0	0.59	1.97
12:45	12:45	2:50	35.9	31.3	7.4	60	36.1	1.00	0.001	1.200	0.261	0.902	0.87	60.0	0.92	65.6	0.60	2.27
13:15	13:15	3:00	35.9	28.2	7.4	76	36.2	1.01	0.003	1.160	0.263	0.893	0.97	75.2	0.92	82.2	0.54	2.54
13:45	13:45	3:50	35.9	27.7	7.4	74	36.2	1.00	0.005	1.170	0.237	0.925	0.95	74.4	0.91	81.3	0.49	2.79
14:15	14:15	4:00	35.9	24.8	7.4	84	36.2	1.00	0.003	1.160	0.197	0.943	0.89	84.0	0.92	91.8	0.44	3.01
14:45	14:45	4:50	36.0	25.1	7.4	82	36.2	0.98	0.003	1.180	0.216	0.978	1.05	83.7	0.90	91.4	0.40	3.21
15:15	15:15	5:00	36.1	29.6	7.4	82	36.2	0.99	0.002	1.160	0.259	0.905	1.01	82.8	0.91	90.5	0.51	3.46
15:45	15:45	5:50	35.9	30.3	7.4	82	36.2	1.02	0.003	1.160	0.195	0.956	0.94	80.4	0.93	87.8	0.42	3.67
16:15	16:15	6:00	36.0	26.4	7.4	82	36.2	1.02	0.003	1.180	0.206	0.989	1.06	80.4	0.93	87.8	0.39	3.87
16:45	16:45	6:50	35.9	32.0	7.4	81	36.2	1.02	0.002	1.140	0.205	0.929	0.96	79.8	0.93	87.2	0.43	4.08
17:15	17:15	7:00	35.8	31.4	7.4	80	36.2	1.01	0.000	1.180	0.257	0.904	0.93	79.2	0.92	86.5	0.56	4.37
17:45	17:45	7:50	35.8	31.7	7.4	81	36.2	1.01	0.002	1.170	0.232	0.892	0.83	80.6	0.92	88.1	0.56	4.65
18:15	18:15	8:00	36.0	27.7	7.4	85	36.2	1.01	0.004	1.150	0.302	0.815	0.89	84.2	0.92	92.0	0.68	4.99

----- FLAPNO=2606 DATE=12/07/95 ANIMAL/SIDE=95-39-13-L PHASE=1 FLAPWT=28.55 DOSETIME=10:00 GROUP=No Topical MEDVOL=508 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1:00	36.3	29.2	7.4	45	35.3	1.02	0.006	1.100	0.027	0.776	0.06	44.1	1.00	45.1	0.69	0.01
9:15	9:15	-0:75	36.3	32.0	7.4	37	35.1	1.01	0.005	1.150	0.102	0.771	0.26	36.6	0.99	37.4	0.80	0.21
9:30	9:30	-0:50	36.5	30.7	7.4	39	35.2	0.99	0.004	1.140	0.139	0.856	0.48	39.4	0.97	40.2	0.59	0.36
9:45	9:45	-0:25	36.6	27.3	7.4	41	35.2	1.00	0.004	1.130	0.195	0.844	0.67	41.0	0.98	41.9	0.60	0.51
10:00	10:00	0:00	36.7	29.7	7.4	38	35.2	0.99	0.004	1.110	0.235	0.835	0.84	38.6	0.96	39.4	0.57	0.65

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENROOT BSA

----- FLAPNO=2606 DATE=12/07/95 ANIMAL/SIDE=95-39-13-L PHASE=1 FLAPMT=28.55 DOSETIME=10:00 GROUP=No Topical MEDVOL=508 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:30	10:30	0.50	36.7	30.1	7.4	41	35.3	0.98	0.004	1.150	0.276	0.835	0.86	41.8	0.96	42.7	0.65	0.98
11:00	11:00	1.00	36.9	29.3	7.4	43	35.3	1.00	0.004	1.170	0.272	0.874	0.91	43.0	0.98	43.9	0.62	1.29
11:30	11:30	1.50	37.0	28.8	7.4	47	35.4	1.01	0.004	1.160	0.264	0.918	1.07	46.5	0.99	47.5	0.51	1.54
12:00	12:00	2.00	37.0	28.7	7.4	57	35.4	1.00	0.003	1.170	0.259	0.922	1.03	57.0	0.98	58.2	0.52	1.80
12:30	12:30	2.50	37.0	28.8	7.4	65	35.5	0.99	0.002	1.180	0.223	0.946	0.94	65.7	0.97	67.1	0.49	2.05
13:00	13:00	3.00	37.1	28.5	7.4	69	35.5	1.00	0.003	1.180	0.183	1.010	1.06	69.0	0.98	70.5	0.36	2.23
13:30	13:30	3.50	37.0	26.6	7.4	71	35.6	1.01	0.003	1.160	0.176	0.985	0.99	70.3	0.99	71.8	0.37	2.41
14:00	14:00	4.00	37.3	24.6	7.4	72	35.6	1.02	0.002	1.150	0.169	0.986	1.02	70.9	0.99	72.5	0.35	2.59
14:30	14:30	4.50	37.7	24.7	7.4	75	36.2	0.99	0.003	1.170	0.183	1.010	1.13	76.1	0.96	77.8	0.33	2.75
15:00	15:00	5.00	37.5	25.0	7.4	76	36.2	0.98	0.004	1.170	0.254	0.900	0.93	77.6	0.96	79.2	0.56	3.03
15:30	15:30	5.50	37.6	28.5	7.4	80	36.2	1.00	0.002	1.160	0.200	0.967	1.03	80.4	0.97	82.1	0.40	3.23
16:00	16:00	6.00	37.7	27.4	7.4	71	36.2	0.99	0.001	1.170	0.212	1.020	1.41	72.1	0.96	73.6	0.31	3.39
16:30	16:30	6.50	37.6	27.4	7.4	72	36.2	1.01	0.002	1.170	0.215	0.972	1.08	71.6	0.98	73.2	0.42	3.60
17:00	17:00	7.00	37.6	24.6	7.4	75	36.2	1.00	0.003	1.170	0.249	0.917	0.97	75.0	0.98	76.6	0.53	3.86
17:30	17:30	7.50	37.7	25.0	7.4	85	36.2	1.01	0.001	1.200	0.335	0.842	0.93	84.6	0.98	86.4	0.76	4.24
18:00	18:00	8.00	37.6	25.2	7.5	83	36.2	1.01	0.004	1.170	0.260	0.900	0.95	82.6	0.98	84.4	0.57	4.53

----- FLAPNO=2607 DATE=12/13/95 ANIMAL/SIDE=95-39-14-R PHASE=1 FLAPMT=16.84 DOSETIME=10:15 GROUP=No Topical MEDVOL=514 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.1	35.0	7.4	30	35.2	1.00	0.004	1.170	0.074	0.496	0.10	30.2	0.99	30.4	2.39	0.01
9:30	9:30	-0.75	36.7	33.8	7.4	33	35.2	1.00	0.004	1.170	0.170	0.804	0.45	33.0	0.99	33.3	1.30	0.34
9:45	9:45	-0.50	37.1	33.3	7.4	35	35.5	1.00	0.003	1.160	0.222	0.868	0.75	35.2	0.99	35.5	1.04	0.59
10:00	10:00	-0.25	36.8	25.1	7.4	35	34.9	1.00	0.003	1.160	0.270	0.825	0.80	35.0	0.99	35.3	1.19	0.89
10:15	10:15	0.00	37.3	32.2	7.4	36	35.7	0.99	0.004	1.170	0.293	0.839	0.87	36.4	0.98	36.7	1.17	1.19
10:45	10:45	0.50	37.4	32.2	7.4	38	35.7	1.01	0.002	1.170	0.306	0.851	0.95	37.6	1.00	38.0	1.15	1.76
11:15	11:15	1.00	37.5	31.9	7.4	43	35.8	0.99	0.007	1.150	0.298	0.853	0.98	43.7	0.98	44.1	1.04	2.28
11:45	11:45	1.50	37.5	31.7	7.4	60	35.9	1.01	0.003	1.150	0.234	0.908	0.95	59.7	1.00	60.3	0.87	2.71
12:15	12:15	2.00	37.6	31.6	7.4	54	35.9	0.99	0.006	1.170	0.179	0.972	0.87	54.5	0.98	55.1	0.70	3.06
12:45	12:45	2.50	37.5	31.3	7.4	54	35.9	1.00	0.003	1.170	0.171	1.020	1.12	54.3	0.99	54.8	0.53	3.33
13:15	13:15	3.00	37.5	31.6	7.4	55	35.9	1.02	0.005	1.140	0.180	0.983	1.11	54.2	1.01	54.7	0.57	3.61
13:45	13:45	3.50	37.2	31.6	7.4	58	35.9	0.98	0.002	1.160	0.186	0.991	1.09	59.5	0.97	60.1	0.59	3.91
14:15	14:15	4.00	37.5	31.7	7.4	58	35.9	1.00	0.005	1.170	0.166	0.991	0.90	58.0	0.99	58.6	0.64	4.22
14:45	14:45	4.50	37.5	31.0	7.4	57	35.9	1.01	0.003	1.160	0.165	0.998	1.00	56.7	1.00	57.3	0.58	4.51
15:15	15:15	5.00	37.5	31.7	7.4	57	36.0	1.00	0.004	1.160	0.157	1.000	1.01	57.0	0.99	57.6	0.57	4.80
15:45	15:45	5.50	37.5	31.5	7.4	58	35.9	1.00	0.002	1.170	0.157	0.987	0.85	58.0	0.99	58.6	0.65	5.13
16:15	16:15	6.00	37.5	31.2	7.4	56	36.0	1.00	0.000	1.160	0.159	1.000	0.99	56.0	0.99	56.5	0.57	5.41
16:45	16:45	6.50	37.5	32.2	7.3	54	35.9	0.99	0.001	1.190	0.157	1.010	0.87	54.8	0.98	55.4	0.63	5.73
17:15	17:15	7.00	37.6	32.1	7.4	55	35.9	0.99	0.004	1.140	0.165	0.971	0.95	55.8	0.98	56.4	0.59	6.02
17:45	17:45	7.50	37.6	32.2	7.4	56	36.0	1.00	0.003	1.170	0.167	1.020	1.09	56.3	0.99	56.8	0.53	6.29

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2607 DATE=12/13/95 ANIMAL/SIDE=95-39-14-R PHASE=1 FLAPWT=16.84 DOSETIME=10:15 GROUP=No Topical MEDVOL=514 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:15	18:15	8:00	37.6	32.0	7.4	54	36.0	1.00	0.003	1.160	0.165	0.973	0.87	54.3	0.99	54.8	0.66	6.62

----- FLAPNO=2608 DATE=12/13/95 ANIMAL/SIDE=95-39-14-L PHASE=2 FLAPWT=18.94 DOSETIME=10:00 GROUP=EtoH MEDVOL=504 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1:00	35.7	34.8	7.4	35	34.4	1.01	0.002	1.150	0.045	0.242	0.05	34.8	0.98	35.9	2.89	0.01
9:15	9:15	-0:75	36.2	32.5	7.4	38	34.8	1.02	0.002	1.160	0.176	0.792	0.47	37.4	0.99	38.6	1.18	0.31
9:30	9:30	-0:50	36.5	32.2	7.4	38	35.1	1.01	0.002	1.140	0.230	0.831	0.74	37.6	0.98	38.7	0.99	0.55
9:45	9:45	-0:25	36.7	31.6	7.4	39	35.1	1.00	0.003	1.150	0.275	0.845	0.89	39.2	0.97	40.4	0.96	0.79
10:00	10:00	0:00	36.7	31.3	7.4	36	35.1	0.99	0.003	1.150	0.309	0.828	0.95	36.4	0.96	37.4	1.01	1.05
10:30	10:30	0:50	36.5	30.5	7.4	32	35.7	1.00	0.003	1.150	0.296	0.849	0.97	32.0	0.97	33.0	0.95	1.52
11:00	11:00	1:00	36.9	30.2	7.4	47	35.2	0.99	0.003	1.130	0.259	0.889	1.06	47.7	0.96	49.1	0.75	1.90
11:30	11:30	1:50	37.0	30.1	7.4	53	35.3	1.01	0.003	1.150	0.206	0.936	0.95	52.7	0.98	54.3	0.68	2.24
12:00	12:00	2:00	36.9	30.4	7.4	55	35.3	1.00	0.002	1.150	0.195	0.977	1.12	55.3	0.97	56.9	0.55	2.51
12:30	12:30	2:50	37.0	30.5	7.4	56	35.3	1.00	0.002	1.170	0.173	0.968	0.85	56.0	0.97	57.7	0.64	2.83
13:00	13:00	3:00	36.9	30.0	7.4	57	35.3	1.00	0.002	1.160	0.171	0.992	1.01	57.3	0.97	59.0	0.53	3.10
13:30	13:30	3:50	37.0	30.2	7.4	58	35.3	0.98	0.001	1.160	0.169	0.982	0.94	59.2	0.95	60.9	0.55	3.37
14:00	14:00	4:00	37.1	30.0	7.4	59	35.4	1.01	0.003	1.170	0.175	0.991	0.96	58.4	0.98	60.2	0.57	3.66
14:30	14:30	4:50	37.1	30.3	7.4	61	35.5	1.01	0.002	1.180	0.173	0.998	1.01	60.4	0.98	62.2	0.58	3.95
15:00	15:00	5:00	37.1	30.5	7.4	60	35.4	1.02	0.002	1.160	0.170	0.993	1.01	58.8	0.99	63.1	0.54	4.22
15:30	15:30	5:50	37.0	30.7	7.4	60	35.4	1.00	0.001	1.180	0.159	0.991	0.84	61.3	0.97	63.6	0.60	4.52
16:00	16:00	6:00	37.5	31.2	7.4	67	35.5	0.99	0.004	1.150	0.139	0.903	0.55	68.0	0.96	70.0	0.77	4.90
16:30	16:30	6:50	37.1	30.4	7.4	61	35.4	1.00	0.001	1.160	0.154	1.010	1.02	61.0	0.97	62.8	0.48	5.14
17:00	17:00	7:00	37.1	30.5	7.4	61	35.5	0.99	0.003	1.150	0.155	1.000	1.01	61.9	0.96	63.8	0.47	5.38
17:30	17:30	7:50	37.1	30.6	7.4	62	35.5	1.01	0.002	1.140	0.156	0.979	0.96	61.7	0.98	63.5	0.51	5.63
18:00	18:00	8:00	37.1	31.0	7.4	62	35.4	0.99	0.002	1.140	0.159	0.982	0.99	62.6	0.96	64.5	0.50	5.88

----- FLAPNO=2609 DATE=12/14/95 ANIMAL/SIDE=95-35-5-R PHASE=1 FLAPWT=26.34 DOSETIME=10:15 GROUP=No Topical MEDVOL=518 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1:00	36.4	37.4	7.4	61	36.0	1.00	0.002	1.140	0.032	0.747	0.08	61.3	0.99	61.4	0.89	0.01
9:30	9:30	-0:75	36.8	37.3	7.4	47	35.5	1.02	0.005	1.140	0.082	0.769	0.21	46.1	1.02	46.2	0.86	0.23
9:45	9:45	-0:50	36.9	36.7	7.4	41	35.5	1.00	0.006	1.150	0.132	0.830	0.39	41.2	0.99	41.3	0.73	0.41
10:00	10:00	-0:25	37.0	36.7	7.4	44	35.7	1.01	0.006	1.130	0.160	0.855	0.56	43.8	1.00	43.9	0.63	0.56
10:15	10:15	0:00	37.0	36.6	7.4	46	35.4	0.99	0.005	1.140	0.172	0.918	0.75	46.5	0.99	46.6	0.50	0.69
10:45	10:45	0:50	37.1	36.6	7.4	53	35.7	0.98	0.006	1.150	0.182	0.944	0.85	54.4	0.97	54.5	0.46	0.92
11:15	11:15	1:00	37.1	37.4	7.4	60	35.7	1.00	0.006	1.150	0.197	0.937	0.90	60.3	0.99	60.4	0.48	1.16

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLINKROOT BSA

----- FLAPNO=2609 DATE=12/14/95 ANIMAL/SIDE=95-35-5-R PHASE=1 FLAPWT=26.34 DOSETIME=10:15 GROUP=No Topical MEDVOL=518 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:45	11:45	1:50	37.1	38.3	7.4	69	35.7	1.00	0.007	1.150	0.217	0.921	0.92	69.3	0.99	69.5	0.52	1.42
12:15	12:15	2:00	37.2	39.5	7.4	74	35.8	1.02	0.006	1.130	0.211	0.935	1.05	72.9	1.01	73.0	0.45	1.64
12:45	12:45	2:50	37.2	39.8	7.4	78	35.8	1.00	0.007	1.160	0.200	0.936	0.86	78.4	0.99	78.5	0.51	1.90
13:15	13:15	3:00	37.2	40.0	7.4	87	35.9	0.99	0.006	1.160	0.206	0.947	0.94	88.3	0.98	88.5	0.48	2.14
13:45	13:45	3:50	37.2	39.9	7.4	84	35.8	0.99	0.005	1.150	0.193	0.942	0.90	84.8	0.99	85.0	0.47	2.37
14:15	14:15	4:00	37.3	39.9	7.4	82	35.9	1.00	0.003	1.160	0.195	0.950	0.91	82.0	1.00	82.2	0.48	2.61
14:45	14:45	4:50	37.3	39.7	7.4	81	35.9	1.00	0.004	1.170	0.204	0.960	0.95	81.0	1.00	81.2	0.48	2.85
15:15	15:15	5:00	37.3	39.3	7.4	79	35.9	0.99	0.002	1.170	0.190	0.984	1.01	80.2	0.98	80.4	0.42	3.06
15:45	15:45	5:50	37.3	38.7	7.4	77	35.9	1.02	0.001	1.190	0.194	0.978	0.91	75.5	1.02	75.6	0.49	3.31
16:15	16:15	6:00	37.3	38.1	7.4	67	35.9	1.01	0.003	1.190	0.190	0.988	0.93	66.7	1.00	66.8	0.46	3.54
16:45	16:45	6:50	37.3	37.5	7.4	69	35.8	1.00	0.003	1.170	0.193	0.974	0.97	69.0	1.00	69.1	0.45	3.76
17:15	17:15	7:00	37.2	36.9	7.4	68	35.9	1.01	0.003	1.190	0.272	0.944	1.09	67.7	1.00	67.8	0.56	4.04
17:45	17:45	7:50	37.3	36.6	7.4	68	35.8	1.01	0.003	1.170	0.269	0.910	1.02	67.3	1.01	67.5	0.60	4.34
18:15	18:15	8:00	37.2	36.3	7.4	62	35.8	1.00	0.005	1.180	0.253	0.902	0.89	62.0	1.00	62.1	0.63	4.66

----- FLAPNO=2610 DATE=12/14/95 ANIMAL/SIDE=95-35-5-L PHASE=2 FLAPWT=26.82 DOSETIME=10:00 GROUP=EXOH MEDVOL=510 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1:00	36.7	36.5	7.4	97	34.8	1.01	0.005	1.090	0.024	0.741	0.05	96.5	0.99	98.2	0.78	0.01
9:15	9:15	-0:75	36.5	36.1	7.4	54	34.8	1.01	0.005	1.100	0.089	0.775	0.26	53.7	0.99	54.7	0.73	0.19
9:30	9:30	-0:50	36.7	34.5	7.4	50	35.2	0.98	0.005	1.150	0.122	0.840	0.38	51.0	0.96	51.9	0.68	0.36
9:45	9:45	-0:25	37.0	34.0	7.4	47	35.2	0.98	0.006	1.160	0.147	0.877	0.50	48.2	0.96	49.1	0.62	0.52
10:00	10:00	0:00	37.0	34.1	7.4	42	35.3	1.01	0.006	1.160	0.189	0.898	0.70	41.8	0.99	42.5	0.59	0.66
10:30	10:30	0:50	37.2	33.7	7.4	53	35.6	1.01	0.006	1.170	0.203	0.912	0.76	52.5	0.99	53.4	0.58	0.96
11:00	11:00	1:00	37.2	34.5	7.4	57	35.6	1.01	0.005	1.170	0.184	0.969	0.89	56.4	0.99	57.4	0.45	1.18
11:30	11:30	1:50	37.2	35.0	7.4	68	35.5	0.99	0.007	1.180	0.197	0.959	0.86	69.0	0.97	70.3	0.49	1.43
12:00	12:00	2:00	37.2	36.1	7.4	67	35.5	1.02	0.006	1.170	0.217	0.962	1.01	66.0	1.00	67.2	0.47	1.66
12:30	12:30	2:50	37.2	36.4	7.4	69	35.6	1.01	0.008	1.180	0.180	0.966	0.80	68.3	0.99	69.5	0.48	1.90
13:00	13:00	3:00	37.2	37.3	7.4	70	35.6	1.00	0.009	1.180	0.202	0.966	0.90	70.4	0.98	71.6	0.48	2.14
13:30	13:30	3:50	37.2	36.8	7.4	71	35.6	0.99	0.006	1.190	0.187	1.000	0.95	71.7	0.97	73.0	0.42	2.35
14:00	14:00	4:00	37.2	36.9	7.4	67	35.6	1.01	0.008	1.170	0.174	0.956	0.78	66.3	0.99	67.5	0.48	2.59
14:30	14:30	4:50	37.3	37.1	7.4	72	35.6	0.99	0.005	1.180	0.185	0.995	0.97	72.7	0.97	74.0	0.41	2.80
15:00	15:00	5:00	37.3	36.2	7.4	74	35.6	1.00	0.007	1.180	0.187	0.990	0.95	74.0	0.98	75.3	0.43	3.01
15:30	15:30	5:50	37.3	35.7	7.4	60	35.6	0.99	0.005	1.180	0.186	0.995	0.98	60.9	0.97	62.0	0.41	3.22
16:00	16:00	6:00	37.3	35.5	7.4	71	35.6	1.00	0.003	1.200	0.188	0.986	0.86	71.4	0.98	72.6	0.48	3.45
16:30	16:30	6:50	37.3	34.9	7.4	71	35.7	1.02	0.005	1.190	0.203	0.999	1.03	70.0	1.00	71.2	0.43	3.67
17:00	17:00	7:00	37.3	34.2	7.4	66	35.6	1.00	0.005	1.190	0.202	0.966	0.88	66.3	0.98	67.5	0.50	3.92
17:30	17:30	7:50	37.2	33.9	7.4	64	35.6	1.00	0.006	1.200	0.207	0.968	0.87	64.0	0.98	65.1	0.52	4.18
18:00	18:00	8:00	37.3	33.2	7.4	62	35.6	1.00	0.006	1.190	0.232	0.947	0.93	62.3	0.98	63.4	0.54	4.45

----- FLAPNO=2611 DATE=01/11/96 ANIMAL/SIDE=96-45-6-R PHASE=1 FLAPWT=27.42 DOSETIME=10:30 GROUP=No Topical MEDVOL=488 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT DEXT	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	35.3	34.1	7.4	95	33.8	0.99	0.003	1.110	0.037	0.709	0.08	96.0	0.93	102.1	0.87	0.01
9:45	9:45	-0.75	34.4	34.3	7.4	47	34.4	0.98	0.003	1.120	0.120	0.727	0.30	48.0	0.92	51.0	0.84	0.22
10:00	10:00	-0.50	34.9	33.2	7.4	45	35.4	1.01	0.003	1.120	0.167	0.778	0.48	44.6	0.95	47.4	0.76	0.41
10:15	10:15	-0.25	35.4	31.6	7.4	41	35.6	1.00	0.002	1.120	0.221	0.801	0.69	41.0	0.94	43.6	0.70	0.58
10:30	10:30	0.00	35.4	33.0	7.4	40	35.7	1.01	0.001	1.130	0.236	0.828	0.78	39.6	0.95	42.1	0.67	0.75
11:00	11:00	0.50	35.5	32.5	7.4	38	35.7	0.99	0.003	1.130	0.292	0.812	0.91	38.6	0.93	41.0	0.69	1.09
11:30	11:30	1.00	35.5	29.6	7.4	47	35.8	1.00	0.004	1.130	0.214	0.920	1.00	47.2	0.94	50.2	0.46	1.32
12:00	12:00	1.50	35.6	31.9	7.4	53	35.8	0.99	0.003	1.120	0.232	0.894	1.01	53.5	0.93	56.9	0.49	1.57
12:30	12:30	2.00	35.5	34.6	7.4	49	35.9	0.99	0.003	1.120	0.232	0.903	1.06	49.5	0.93	52.6	0.47	1.80
13:00	13:00	2.50	35.6	32.4	7.4	53	35.9	0.98	0.003	1.140	0.230	0.898	0.94	54.1	0.92	57.5	0.52	2.06
13:30	13:30	3.00	35.5	32.0	7.4	60	35.8	0.99	0.003	1.130	0.231	0.905	1.01	60.9	0.93	64.8	0.48	2.30
14:00	14:00	3.50	35.5	34.0	7.4	59	35.9	1.00	0.006	1.120	0.222	0.908	1.02	59.3	0.94	63.1	0.46	2.53
14:30	14:30	4.00	35.6	34.2	7.4	60	35.9	1.00	0.004	1.130	0.215	0.918	1.00	60.3	0.94	64.1	0.46	2.77
15:00	15:00	4.50	35.6	33.6	7.4	65	36.1	1.00	0.005	1.130	0.204	0.911	0.91	65.0	0.94	69.1	0.48	3.01
15:30	15:30	5.00	35.6	34.0	7.4	68	36.0	0.99	0.005	1.120	0.202	0.921	0.99	68.7	0.93	73.1	0.43	3.22
16:00	16:00	5.50	35.6	33.1	7.4	69	36.0	1.00	0.006	1.120	0.208	0.925	1.04	69.0	0.94	73.4	0.43	3.43
16:30	16:30	6.00	35.5	-	7.4	72	36.0	0.99	0.004	1.130	0.190	0.945	1.01	72.7	0.93	77.3	0.40	3.63
17:00	17:00	6.50	35.4	-	7.4	74	36.0	1.01	0.007	1.120	0.188	0.944	1.03	73.6	0.94	78.3	0.39	3.83
17:30	17:30	7.00	35.4	-	7.5	63	35.9	1.00	0.005	1.130	0.251	0.900	1.07	63.3	0.94	67.3	0.60	4.08
18:00	18:00	7.50	35.4	-	7.4	60	35.9	1.00	0.005	1.120	0.299	0.845	1.07	60.3	0.94	64.1	0.60	4.38
18:30	18:30	8.00	35.2	-	7.4	-	37.3	-	0.005	1.110	0.499	0.727	1.29	-	-	-	-	4.38

DATE=01/11/96										ANIMAL/SIDE=96-45-6-L				PHASE=2				FLAPWT=26.29				DOSETIME=10:15				GROUP=EtoH				MEDVOL=483				NCSU=Yes			
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC																			
9:15	9:15	-1.00	36.0	31.4	7.4	35	34.8	1.00	0.003	1.120	0.031	0.583	0.05	35.0	0.93	37.6	1.23	0.01																			
9:30	9:30	-0.75	36.7	31.0	7.4	30	35.2	0.99	0.002	1.100	0.091	0.833	0.33	30.5	0.92	32.7	0.60	0.16																			
9:45	9:45	-0.50	36.9	28.5	7.4	31	35.3	0.99	0.002	1.100	0.131	0.894	0.60	31.5	0.92	33.8	0.49	0.28																			
10:00	10:00	-0.25	37.1	26.7	7.4	36	35.6	1.00	0.003	1.100	0.167	0.901	0.82	36.2	0.93	38.9	0.45	0.39																			
10:15	10:15	0.00	36.7	27.0	7.4	28	35.7	1.00	0.003	1.110	0.201	0.886	0.88	28.1	0.93	30.2	0.51	0.52																			
10:45	10:45	0.50	36.7	27.2	7.4	26	35.7	0.99	0.003	1.110	0.213	0.891	0.96	26.4	0.92	28.4	0.49	0.77																			
11:15	11:15	1.00	37.3	29.6	7.4	27	35.6	1.00	0.001	1.120	0.239	0.868	0.94	27.0	0.93	29.0	0.58	1.06																			
11:45	11:45	1.50	37.4	29.1	7.4	27	35.6	1.01	0.002	1.120	0.266	0.862	1.02	26.9	0.94	28.9	0.59	1.35																			
12:15	12:15	2.00	37.5	29.0	7.4	27	35.8	1.00	0.003	1.110	0.244	0.869	1.00	27.1	0.93	29.2	0.55	1.62																			
12:45	12:45	2.50	37.5	26.8	7.4	28	35.7	0.98	0.003	1.120	0.232	0.895	1.02	28.6	0.91	30.7	0.50	1.88																			
13:15	13:15	3.00	37.0	26.5	7.4	27	35.7	0.99	0.003	1.120	0.241	0.882	1.00	27.3	0.92	29.3	0.54	2.15																			
13:45	13:45	3.50	37.4	29.5	7.4	28	35.6	0.99	0.003	1.120	0.241	0.889	1.03	28.3	0.92	30.4	0.52	2.41																			
14:15	14:15	4.00	37.4	29.7	7.4	28	35.6	1.01	0.003	1.130	0.238	0.885	0.96	27.9	0.94	29.9	0.56	2.69																			
14:45	14:45	4.50	37.4	29.3	7.4	29	35.5	1.01	0.004	1.130	0.226	0.903	0.98	28.7	0.94	30.9	0.52	2.95																			
15:15	15:15	5.00	37.5	30.0	7.4	30	35.6	1.00	0.003	1.120	0.217	0.898	0.96	30.0	0.93	32.2	0.51	3.20																			
15:45	15:45	5.50	37.4	29.6	7.4	30	35.7	0.99	0.003	1.130	0.199	0.949	1.08	30.5	0.92	32.7	0.41	3.41																			

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2612 DATE=01/11/96 ANIMAL/SIDE=96-45-6-L PHASE=2 FLAPWT=26.29 DOSETIME=10:15 GROUP=EtoH MEDVOL=483 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:15	16:15	6:00	37.4	26.5	7.4	31	35.5	1.01	0.006	1.120	0.186	0.958	1.11	30.8	0.94	33.1	0.37	3.59
16:45	16:45	6:50	37.3	28.5	7.4	31	35.4	1.01	0.002	1.130	0.171	0.951	0.94	30.8	0.94	33.1	0.41	3.80
17:15	17:15	7:00	37.3	29.0	7.4	32	35.4	1.01	0.004	1.120	0.163	0.974	1.09	31.8	0.94	34.2	0.33	3.96
17:45	17:45	7:50	37.3	29.2	7.4	33	35.4	1.02	0.004	1.120	0.159	0.962	0.98	32.4	0.95	34.8	0.37	4.15
18:15	18:15	8:00	37.3	27.0	7.4	33	35.4	1.02	0.005	1.110	0.153	0.996	1.30	32.5	0.94	34.9	0.26	4.28

----- FLAPNO=2613 DATE=01/17/96 ANIMAL/SIDE=96-45-7-R PHASE=2 FLAPWT=22.99 DOSETIME=10:45 GROUP=EtoH MEDVOL=573 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:45	9:45	-1.00	37.3	35.3	7.4	53	35.5	0.98	0.004	1.120	0.064	0.879	0.25	54.1	1.08	49.0	0.62	0.01
10:00	10:00	-0.75	37.8	35.4	7.4	37	36.2	0.98	0.003	1.130	0.080	1.010	0.64	37.8	1.08	34.2	0.31	0.09
10:15	10:15	-0.50	37.4	34.7	7.4	32	35.6	0.99	0.004	1.130	0.144	0.962	0.83	32.3	1.09	29.3	0.43	0.20
10:30	10:30	-0.25	37.7	34.0	7.4	34	35.9	1.02	0.005	1.130	0.188	0.920	0.87	33.3	1.13	30.2	0.56	0.34
10:45	10:45	0.00	37.6	34.0	7.4	35	35.7	1.01	0.003	1.140	0.168	0.956	0.90	34.8	1.11	31.5	0.48	0.46
11:15	11:15	0.50	37.8	33.7	7.4	32	35.7	1.00	0.003	1.150	0.210	0.939	0.98	32.0	1.10	29.0	0.55	0.73
11:45	11:45	1.00	37.8	33.8	7.4	35	35.8	0.98	0.003	1.130	0.241	0.901	1.04	35.7	1.08	32.3	0.59	1.02
12:15	12:15	1.50	37.7	34.0	7.4	35	35.9	1.01	0.004	1.140	0.241	0.900	0.99	34.8	1.11	31.5	0.63	1.34
12:45	12:45	2.00	37.8	34.3	7.4	39	35.9	1.01	0.002	1.150	0.205	0.935	0.94	38.8	1.11	35.1	0.56	1.62
13:15	13:15	2.50	37.9	34.2	7.4	42	35.9	1.00	0.003	1.150	0.227	0.903	0.95	41.6	1.12	37.7	0.62	1.93
13:45	13:45	3.00	37.8	34.0	7.4	47	35.9	1.00	0.004	1.150	0.218	0.919	0.93	47.0	1.10	42.6	0.60	2.23
14:15	14:15	3.50	37.3	34.8	7.4	48	35.9	0.99	0.002	1.150	0.220	0.920	0.95	48.5	1.09	43.9	0.59	2.53
14:45	14:45	4.00	37.8	34.4	7.4	46	35.9	0.99	0.003	1.150	0.188	0.957	0.96	46.5	1.09	42.1	0.50	2.78
15:15	15:15	4.50	37.6	33.9	7.4	49	35.7	1.00	0.005	1.140	0.168	0.956	0.89	49.0	1.10	44.4	0.48	3.02
15:45	15:45	5.00	37.6	34.2	7.4	49	35.9	1.01	0.003	1.150	0.158	0.985	0.94	48.5	1.12	43.9	0.43	3.24
16:15	16:15	5.50	37.7	34.6	7.4	45	35.9	1.01	0.001	1.140	0.143	1.000	1.01	44.6	1.12	40.4	0.37	3.42
16:45	16:45	6.00	37.8	35.1	7.4	48	35.9	0.99	0.001	1.140	0.120	1.020	0.99	48.7	1.09	44.1	0.31	3.58
17:15	17:15	6.50	37.9	34.0	7.4	48	35.9	0.99	0.000	1.140	0.113	1.030	1.03	48.7	1.09	44.1	0.28	3.72
17:45	17:45	7.00	37.8	34.4	7.4	39	35.9	1.01	0.003	1.140	0.100	1.050	1.08	38.6	1.12	35.0	0.24	3.84
18:15	18:15	7.50	38.1	33.0	7.4	37	36.2	1.02	0.004	1.150	0.070	1.090	1.10	36.5	1.12	33.0	0.16	3.92
18:45	18:45	8.00	38.1	34.0	7.4	39	36.2	0.99	0.003	1.130	0.060	1.100	1.90	39.4	1.09	35.7	0.08	3.96

----- FLAPNO=2615 DATE=01/18/96 ANIMAL/SIDE=96-47-7-R PHASE=1 FLAPWT=26.68 DOSETIME=10:15 GROUP=No Topical MEDVOL=511 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.6	38.5	7.4	51	35.2	0.99	0.003	1.120	0.024	0.810	0.07	51.5	0.97	52.3	0.69	0.01
9:30	9:30	-0.75	36.7	36.8	7.4	34	35.1	0.99	0.002	1.140	0.080	0.835	0.26	34.5	0.97	35.1	0.68	0.18
9:45	9:45	-0.50	37.1	36.1	7.4	32	35.3	0.99	0.003	1.130	0.156	0.930	0.77	32.5	0.97	33.0	0.44	0.29

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2615 DATE=01/18/96 ANIMAL/SIDE=96-47-7-R PHASE=1 FLAPWT=26.68 DOSETIME=10:15 GROUP=No Topical MEDVOL=511 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.25	36.9	35.6	7.4	29	35.5	1.00	0.003	1.150	0.148	0.918	0.63	29.1	0.98	29.6	0.52	0.42
10:15	10:15	0.00	37.1	34.9	7.4	28	35.2	0.98	0.004	1.150	0.170	0.926	0.74	28.6	0.96	29.0	0.49	0.54
10:45	10:45	0.50	37.1	35.9	7.4	24	35.3	1.00	0.005	1.130	0.178	0.946	0.94	24.0	0.98	24.4	0.41	0.75
11:15	11:15	1.00	37.0	36.0	7.4	30	35.2	0.99	0.006	1.130	0.194	0.943	1.01	30.5	0.97	30.9	0.41	0.96
11:45	11:45	1.50	37.1	35.9	7.4	31	35.3	1.00	0.006	1.140	0.165	0.971	0.94	31.2	0.98	31.6	0.38	1.15
12:15	12:15	2.00	37.4	35.9	7.4	30	35.6	0.99	0.002	1.140	0.186	0.951	0.97	30.5	0.97	30.9	0.42	1.36
12:45	12:45	2.50	37.3	35.0	7.4	35	35.5	1.00	0.005	1.140	0.174	0.964	0.96	35.0	0.98	35.5	0.40	1.55
13:15	13:15	3.00	37.5	35.8	7.4	33	35.6	0.99	0.005	1.140	0.164	0.964	0.90	33.3	0.97	33.9	0.39	1.75
13:45	13:45	3.50	37.5	35.7	7.4	41	35.7	0.98	0.004	1.130	0.153	0.995	1.10	42.1	0.96	42.7	0.30	1.90
14:15	14:15	4.00	37.7	35.9	7.4	32	35.9	1.00	0.006	1.130	0.126	1.040	1.33	32.0	0.98	32.5	0.20	2.00
14:45	14:45	4.50	37.6	36.2	7.4	35	35.9	1.00	0.006	1.130	0.118	1.020	1.02	35.2	0.98	35.7	0.25	2.12
15:15	15:15	5.00	37.5	35.7	7.4	38	35.8	1.01	0.004	1.130	0.100	1.040	1.07	37.6	0.99	38.2	0.20	2.22
15:45	15:45	5.50	37.8	35.6	7.4	37	36.1	1.00	0.003	1.140	0.097	1.050	1.04	37.2	0.98	37.8	0.20	2.32
16:15	16:15	6.00	37.6	34.8	7.4	37	35.8	0.99	0.003	1.140	0.097	1.060	1.18	37.4	0.97	38.0	0.18	2.41
16:45	16:45	6.50	37.8	35.0	7.4	36	35.9	1.02	0.002	1.130	0.092	1.050	1.13	35.5	1.00	36.0	0.18	2.50
17:15	17:15	7.00	37.9	35.4	7.4	37	36.2	1.00	0.001	1.140	0.094	1.040	0.93	37.2	0.98	37.8	0.22	2.62
17:45	17:45	7.50	37.6	36.3	7.4	37	35.7	1.00	0.001	1.130	0.106	1.030	1.05	37.0	0.98	37.6	0.22	2.73
18:15	18:15	8.00	38.2	35.8	7.4	36	36.3	1.00	0.001	1.120	0.102	1.020	1.01	36.0	0.98	36.6	0.22	2.84

----- FLAPNO=2616 DATE=01/18/96 ANIMAL/SIDE=96-47-7-L PHASE=2 FLAPWT=26.52 DOSETIME=9:59 GROUP=EtOH MEDVOL=524 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.98	35.7	38.4	7.4	35	33.9	1.02	0.002	1.110	0.055	0.574	0.10	34.3	1.03	34.0	1.24	0.01
9:15	9:15	-0.73	36.7	37.5	7.4	29	34.8	1.01	0.004	1.130	0.091	0.806	0.27	28.7	1.02	28.4	0.74	0.20
9:30	9:30	-0.48	36.9	37.7	7.4	29	34.9	0.99	0.004	1.120	0.098	0.925	0.48	29.3	1.00	29.0	0.44	0.30
9:45	9:45	-0.23	37.0	37.1	7.4	28	35.0	1.01	0.003	1.130	0.116	0.894	0.48	27.9	1.01	27.6	0.54	0.44
10:00	9:59	0.00	36.5	37.7	7.4	28	35.1	1.00	0.005	1.130	0.184	0.924	0.87	28.0	1.01	27.7	0.47	0.55
10:30	10:30	0.52	35.7	39.2	7.4	27	35.1	0.98	0.004	1.130	0.204	0.929	1.00	27.6	0.99	27.3	0.45	0.78
11:00	11:00	1.02	36.0	39.4	7.4	30	35.2	1.00	0.012	1.120	0.172	0.976	1.11	30.0	1.01	29.7	0.33	0.94
11:30	11:30	1.52	35.7	39.5	7.4	29	35.2	0.99	0.015	1.140	0.209	0.927	0.91	29.3	1.00	29.0	0.48	1.18
12:00	12:00	2.02	36.0	40.1	7.4	40	35.4	1.01	0.006	1.140	0.171	0.981	1.04	39.8	1.01	39.4	0.36	1.36
12:30	12:30	2.52	36.0	40.0	7.4	36	35.5	1.00	0.008	1.140	0.195	0.948	0.97	36.2	1.00	35.8	0.43	1.58
13:00	13:00	3.02	36.1	40.0	7.4	35	35.6	0.99	0.008	1.140	0.223	0.935	1.05	35.4	1.00	35.0	0.46	1.81
13:30	13:30	3.52	36.1	39.8	7.4	35	35.6	1.01	0.007	1.140	0.232	0.947	1.17	34.8	1.01	34.5	0.44	2.02
14:00	14:00	4.02	36.1	39.9	7.4	35	35.6	0.99	0.008	1.140	0.228	0.905	0.94	35.4	1.00	35.0	0.53	2.29
14:30	14:30	4.52	36.2	39.6	7.4	41	35.6	0.98	0.008	1.130	0.230	0.920	1.06	41.8	0.99	41.4	0.47	2.52
15:00	15:00	5.02	36.3	39.3	7.4	38	35.7	0.99	0.008	1.130	0.188	0.943	0.96	38.4	1.00	38.0	0.42	2.73
15:30	15:30	5.52	36.5	38.7	7.4	37	35.8	1.01	0.007	1.140	0.196	0.941	0.95	36.8	1.01	36.5	0.45	2.96
16:00	16:00	6.02	36.5	38.7	7.4	39	35.8	1.00	0.005	1.140	0.200	0.961	1.09	39.2	1.00	38.8	0.40	3.16
16:30	16:30	6.52	36.5	38.5	7.4	40	35.8	1.00	0.007	1.140	0.196	0.947	0.98	40.2	1.00	39.8	0.43	3.38

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2616 DATE=01/18/96 ANIMAL/SIDE=96-47-7-L PHASE=2 FLAPWT=26.52 DOSETIME=9:59 GROUP=EtoH MEDVOL=524 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	7:02	36.5	38.6	7.4	41	35.7	1.00	0.004	1.140	0.189	0.952	0.98	41.2	1.00	40.8	0.42	3.59
17:30	17:30	7:52	36.5	39.1	7.4	43	35.7	1.00	0.007	1.130	0.173	0.951	0.93	43.0	1.01	42.6	0.40	3.79
18:00	18:00	8:02	36.5	39.8	7.4	52	35.4	0.99	0.004	1.130	0.136	0.992	0.96	52.5	1.00	52.0	0.31	3.94

----- FLAPNO=2617 DATE=01/24/96 ANIMAL/SIDE=96-50-10-R PHASE=1 FLAPWT=21.77 DOSETIME=10:15 GROUP=No Topical MEDVOL=516 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1:00	36.5	36.6	7.4	40	35.1	1.00	0.003	1.150	0.036	0.728	0.08	40.2	0.99	40.4	1.16	0.01
9:30	9:30	-0:75	36.7	35.9	7.4	35	35.2	1.01	0.003	1.140	0.044	0.859	0.15	34.8	1.00	35.0	0.78	0.20
9:45	9:45	-0:50	36.8	35.2	7.4	34	35.3	1.00	0.005	1.140	0.055	0.976	0.30	34.2	0.99	34.4	0.45	0.32
10:00	10:00	-0:25	36.9	34.6	7.4	34	35.4	0.98	0.003	1.140	0.062	0.995	0.41	34.7	0.97	34.9	0.39	0.41
10:15	10:15	0:00	37.1	34.3	7.4	34	35.6	1.00	0.004	1.150	0.070	1.040	0.60	34.0	0.99	34.2	0.30	0.49
10:45	10:45	0:50	37.1	33.9	7.4	36	35.5	1.00	0.001	1.140	0.089	1.060	1.10	36.2	0.99	36.4	0.22	0.60
11:15	11:15	1:00	37.1	32.5	7.4	33	35.4	0.99	0.006	1.140	0.106	1.050	1.11	33.3	0.98	33.5	0.25	0.72
11:45	11:45	1:50	37.1	32.6	7.4	36	35.5	0.98	0.004	1.140	0.108	1.050	1.16	36.7	0.97	36.9	0.24	0.84
12:15	12:15	2:00	37.2	31.6	7.4	37	35.6	1.01	0.007	1.150	0.123	1.040	1.05	36.6	1.00	36.8	0.31	1.00
12:45	12:45	2:50	37.2	32.7	7.4	39	35.5	1.00	0.005	1.140	0.100	1.060	1.19	39.2	0.99	39.4	0.22	1.11
13:15	13:15	3:00	37.2	32.9	7.4	39	35.4	1.00	0.006	1.140	0.122	1.030	1.05	39.0	0.99	39.2	0.30	1.26
13:45	13:45	3:50	37.2	32.1	7.4	41	35.3	0.99	0.003	1.140	0.133	1.030	1.18	41.6	0.98	41.9	0.30	1.41
14:15	14:15	4:00	37.2	32.8	7.4	43	35.4	1.01	0.007	1.140	0.155	1.060	1.85	42.8	1.00	43.0	0.22	1.52
14:45	14:45	4:50	37.2	32.5	7.4	45	35.3	0.98	0.004	1.140	0.138	1.030	1.22	45.9	0.97	46.2	0.30	1.67
15:15	15:15	5:00	37.2	30.3	7.4	49	35.5	1.02	0.005	1.140	0.096	1.080	1.52	48.3	1.01	48.6	0.17	1.75
15:45	15:45	5:50	37.2	31.8	7.4	50	35.7	1.01	0.003	1.130	0.127	1.040	1.38	49.8	1.00	50.0	0.25	1.88
16:15	16:15	6:00	37.1	32.3	7.4	51	35.5	1.00	0.005	1.150	0.129	1.060	1.38	51.3	0.99	51.6	0.25	2.00
16:45	16:45	6:50	37.2	32.3	7.4	51	35.7	1.02	0.002	1.160	0.143	1.080	1.76	50.0	1.01	50.3	0.22	2.11
17:15	17:15	7:00	37.2	31.4	7.4	53	35.7	1.00	0.004	1.130	0.122	1.060	1.69	53.3	0.99	53.6	0.19	2.21
17:45	17:45	7:50	37.2	33.0	7.4	54	35.9	0.99	0.002	1.150	0.127	1.060	1.39	54.8	0.98	55.1	0.24	2.33
18:15	18:15	8:00	37.1	33.1	7.4	62	35.9	1.00	0.002	1.140	0.095	1.080	1.55	62.0	0.99	62.4	0.17	2.41

----- FLAPNO=2618 DATE=01/24/96 ANIMAL/SIDE=96-50-10-L PHASE=2 FLAPWT=23.76 DOSETIME=10:00 GROUP=EtoH MEDVOL=566 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1:00	36.0	38.7	7.4	61	35.1	1.01	0.002	1.100	0.020	0.735	0.05	60.7	1.10	55.7	0.93	0.01
9:15	9:15	-0:75	36.6	35.8	7.4	37	35.1	1.01	0.003	1.150	0.070	0.871	0.24	36.6	1.10	33.6	0.71	0.19
9:30	9:30	-0:50	37.1	34.2	7.4	35	35.3	1.01	0.002	1.170	0.096	0.901	0.35	34.8	1.10	31.9	0.68	0.36
9:45	9:45	-0:25	37.0	32.8	7.4	37	35.3	0.99	0.003	1.150	0.098	0.977	0.55	37.6	1.07	34.4	0.43	0.47
10:00	10:00	0:00	37.1	32.7	7.4	33	35.1	1.00	0.003	1.150	0.110	0.996	0.69	33.0	1.09	30.3	0.39	0.56

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2618 DATE=01/24/96 ANIMAL/SIDE=96-50-10-L PHASE=2 FLAPWT=23.76 DOSETIME=10:00 GROUP=EtoH MEDVOL=566 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:30	10:30	0.50	37.2	31.9	7.4	34	35.1	0.99	0.001	1.140	0.126	1.020	1.04	34.3	1.08	31.5	0.30	0.71
11:00	11:00	1.00	37.4	31.1	7.4	33	35.4	1.01	0.001	1.150	0.149	1.010	1.06	32.8	1.10	30.1	0.36	0.89
11:30	11:30	1.50	37.5	31.2	7.4	36	35.4	0.99	0.003	1.150	0.153	1.010	1.07	36.5	1.07	33.5	0.35	1.07
12:00	12:00	2.00	37.6	31.1	7.4	38	35.6	1.01	0.007	1.140	0.165	0.983	1.01	37.8	1.10	34.7	0.40	1.26
12:30	12:30	2.50	37.3	30.6	7.4	41	35.2	0.98	0.002	1.150	0.174	0.980	1.01	41.8	1.07	38.4	0.42	1.47
13:00	13:00	3.00	37.4	30.8	7.4	47	35.6	1.00	0.004	1.140	0.178	0.974	1.05	47.2	1.09	43.3	0.42	1.68
13:30	13:30	3.50	37.3	30.9	7.4	47	35.2	1.02	0.003	1.140	0.180	0.979	1.10	46.1	1.11	42.3	0.41	1.89
14:00	14:00	4.00	37.1	31.1	7.4	53	35.1	1.02	0.002	1.140	0.160	1.010	1.22	52.0	1.11	47.6	0.33	2.06
14:30	14:30	4.50	37.0	30.5	7.4	55	34.9	1.00	0.003	1.140	0.156	0.990	1.02	55.0	1.09	50.4	0.38	2.25
15:00	15:00	5.00	36.9	30.8	7.4	58	34.8	1.02	0.004	1.140	0.156	1.010	1.17	56.9	1.11	52.1	0.33	2.41
15:30	15:30	5.50	37.0	28.3	7.4	61	34.8	1.01	0.002	1.140	0.153	1.010	1.16	60.4	1.10	55.4	0.33	2.58
16:00	16:00	6.00	37.1	29.5	7.4	63	34.9	1.00	0.003	1.150	0.145	1.010	1.01	63.0	1.09	57.8	0.35	2.76
16:30	16:30	6.50	37.0	29.7	7.4	66	34.8	1.00	0.002	1.150	0.144	1.020	1.09	66.0	1.09	60.5	0.33	2.92
17:00	17:00	7.00	36.9	29.0	7.4	68	34.8	1.01	0.002	1.150	0.154	1.010	1.09	67.7	1.10	62.0	0.36	3.10
17:30	17:30	7.50	37.0	28.7	7.4	70	34.9	1.00	0.002	1.150	0.155	1.020	1.18	70.0	1.09	64.2	0.33	3.26
18:00	18:00	8.00	37.0	28.8	7.4	73	34.9	1.01	0.002	1.150	0.155	1.010	1.09	72.6	1.10	66.6	0.36	3.44

----- FLAPNO=2619 DATE=01/25/96 ANIMAL/SIDE=96-49-12-R PHASE=2 FLAPWT=23.06 DOSETIME=10:15 GROUP=EtoH MEDVOL=530 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.1	29.1	7.4	34	34.7	1.02	0.002	1.120	0.093	0.884	0.39	33.3	1.04	32.6	0.63	0.01
9:30	9:30	-0.75	36.5	29.2	7.4	32	35.0	1.00	0.004	1.130	0.141	0.914	0.63	32.0	1.02	31.3	0.56	0.15
9:45	9:45	-0.50	36.8	33.6	7.3	31	35.1	1.00	0.003	1.130	0.175	0.910	0.78	31.2	1.02	30.5	0.57	0.29
10:00	10:00	-0.25	36.9	31.9	7.4	51	35.3	0.98	0.004	1.120	0.094	1.050	1.29	52.0	1.00	51.0	0.18	0.34
10:15	10:15	0.00	36.9	31.5	7.4	35	34.9	0.99	0.005	1.130	0.160	0.979	1.03	35.4	1.01	34.6	0.39	0.43
10:45	10:45	0.50	37.1	29.5	7.4	32	35.2	0.99	0.003	1.140	0.195	0.959	1.06	32.5	1.01	31.8	0.46	0.67
11:15	11:15	1.00	37.1	33.9	7.4	32	35.3	1.00	0.007	1.130	0.215	0.923	1.00	32.0	1.02	31.3	0.54	0.94
11:45	11:45	1.50	37.2	32.3	7.4	33	35.3	1.00	0.005	1.140	0.198	0.934	0.94	33.0	1.02	32.3	0.54	1.20
12:15	12:15	2.00	37.1	33.9	7.4	37	35.3	1.00	0.005	1.140	0.201	0.930	0.93	37.0	1.02	36.2	0.55	1.48
12:45	12:45	2.50	37.1	33.4	7.4	36	35.2	1.01	0.005	1.140	0.196	0.942	0.96	35.8	1.03	35.1	0.52	1.74
13:15	13:15	3.00	37.1	33.6	7.4	39	35.3	1.03	0.006	1.150	0.194	0.927	0.84	38.0	1.05	37.3	0.59	2.03
13:45	13:45	3.50	37.1	34.0	7.4	46	35.3	0.99	0.005	1.130	0.187	0.946	0.99	46.5	1.01	45.5	0.47	2.27
14:15	14:15	4.00	37.2	33.1	7.4	50	35.3	0.99	0.008	1.130	0.154	0.988	1.03	50.8	1.01	49.7	0.36	2.45
14:45	14:45	4.50	37.2	30.4	7.4	52	35.3	1.00	0.008	1.140	0.154	1.020	1.22	52.0	1.02	50.9	0.31	2.61
15:15	15:15	5.00	37.2	33.2	7.4	49	35.5	0.99	0.008	1.150	0.127	1.020	0.92	49.7	1.01	48.7	0.33	2.78
15:45	15:45	5.50	37.2	31.6	7.4	49	35.5	0.98	0.006	1.140	0.121	1.030	1.05	50.0	1.00	49.0	0.28	2.92
16:15	16:15	6.00	37.2	33.9	7.4	50	35.5	0.99	0.008	1.120	0.115	1.060	1.12	50.5	1.01	49.5	0.15	2.99
16:45	16:45	6.50	37.3	29.5	7.4	50	35.5	1.01	0.008	1.130	0.118	1.040	1.22	49.5	1.03	48.5	0.24	3.11
17:15	17:15	7.00	37.3	29.1	7.4	50	35.5	1.00	0.007	1.130	0.111	1.030	1.04	50.0	1.02	49.0	0.26	3.24
17:45	17:45	7.50	37.3	33.1	7.4	44	35.5	1.01	0.007	1.120	0.106	1.030	1.10	43.8	1.03	42.9	0.24	3.36

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2619 DATE=01/25/96 ANIMAL/SIDE=96-49-12-R PHASE=2 FLAPWT=23.06 DOSETIME=10:15 GROUP=EtoH MEDVOL=530 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:15	18:15	8:00	37.3	32.5	7.4	47	35.5	1.02	0.010	1.080	0.149	0.974	1.31	46.1	1.04	45.1	0.28	3.50

----- FLAPNO=2620 DATE=01/25/96 ANIMAL/SIDE=96-49-12-L PHASE=1 FLAPWT=21.86 DOSETIME=10:00 GROUP=No Topical MEDVOL=507 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1:00	35.7	31.1	7.4	37	34.2	1.00	0.005	1.120	0.122	0.814	0.38	37.2	0.97	38.1	0.84	0.01
9:15	9:15	-0:75	36.2	31.3	7.4	36	34.7	1.02	0.005	1.140	0.181	0.857	0.62	35.5	0.99	36.3	0.79	0.21
9:30	9:30	-0:50	36.3	29.0	7.4	38	34.9	1.00	0.006	1.140	0.210	0.890	0.82	38.2	0.97	39.1	0.68	0.38
9:45	9:45	-0:25	36.4	32.4	7.4	36	34.9	1.01	0.007	1.140	0.232	0.883	0.88	35.8	0.98	36.7	0.71	0.56
10:00	10:00	0:00	36.5	29.1	7.4	37	35.1	1.01	0.006	1.140	0.255	0.865	0.91	36.8	0.98	37.7	0.76	0.74
10:30	10:30	0:50	36.7	28.4	7.4	38	35.1	1.00	0.005	1.140	0.287	0.843	0.95	38.2	0.97	39.1	0.81	1.15
11:00	11:00	1:00	36.6	31.8	7.4	39	35.1	0.99	0.005	1.140	0.311	0.815	0.94	39.4	0.97	40.3	0.88	1.59
11:30	11:30	1:50	36.7	31.4	7.4	41	35.1	1.01	0.008	1.130	0.336	0.796	0.98	40.6	0.99	41.6	0.93	2.05
12:00	12:00	2:00	36.8	31.3	7.4	44	35.2	1.01	0.007	1.130	0.336	0.781	0.94	43.6	0.99	44.6	0.97	2.54
12:30	12:30	2:30	36.8	31.7	7.4	60	35.2	1.00	0.017	1.120	0.257	0.861	0.93	60.0	0.98	61.4	0.71	2.89
13:00	13:00	3:00	36.8	31.5	7.4	55	35.1	1.01	0.009	1.130	0.234	0.892	0.95	54.5	0.99	55.7	0.66	3.22
13:30	13:30	3:50	36.8	31.7	7.4	57	35.2	1.01	0.008	1.130	0.213	0.908	0.92	56.4	0.99	57.8	0.62	3.53
14:00	14:00	4:00	37.1	32.0	7.4	54	35.2	0.98	0.007	1.130	0.177	0.962	1.01	55.1	0.96	56.4	0.45	3.76
14:30	14:30	4:50	36.8	31.8	7.4	60	35.3	0.98	0.008	1.130	0.174	0.973	1.06	61.5	0.95	63.0	0.42	3.97
15:00	15:00	5:00	36.7	29.1	7.4	59	35.3	0.99	0.007	1.140	0.159	0.997	1.06	59.9	0.96	61.3	0.39	4.16
15:30	15:30	5:50	36.6	31.7	7.4	61	34.9	1.01	0.010	1.130	0.157	0.982	0.99	60.7	0.98	62.1	0.41	4.36
16:00	16:00	6:00	36.6	31.3	7.4	63	35.0	1.02	0.009	1.120	0.143	0.983	0.98	61.8	1.00	63.2	0.38	4.56
16:30	16:30	6:50	36.8	30.1	7.4	64	35.0	1.02	0.007	1.130	0.143	1.000	1.05	63.1	0.99	64.5	0.36	4.74
17:00	17:00	7:00	36.8	31.0	7.4	67	35.0	0.99	0.008	1.120	0.148	0.995	1.12	67.7	0.97	69.3	0.34	4.91
17:30	17:30	7:50	36.8	29.5	7.4	69	35.1	0.99	0.010	1.100	0.150	0.995	1.33	69.7	0.97	71.3	0.29	5.05
18:00	17:45	7:75	36.9	30.0	-	-	35.8	1.00	0.008	1.130	0.104	1.030	0.96	-	0.98	-	0.27	5.12

----- FLAPNO=2621 DATE=01/31/96 ANIMAL/SIDE=96-46-8-R PHASE=1 FLAPWT=24.64 DOSETIME=10:30 GROUP=No Topical MEDVOL=463 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1:00	36.9	31.2	7.4	37	35.8	1.02	0.002	1.130	0.037	0.908	0.16	36.5	0.91	40.9	0.55	0.01
9:45	9:45	-0:75	36.6	31.4	7.4	37	35.4	0.99	0.004	1.140	0.137	0.828	0.43	37.6	0.88	42.1	0.75	0.20
10:00	10:00	-0:50	36.8	29.9	7.4	33	35.6	1.01	0.003	1.150	0.222	0.834	0.69	32.8	0.90	36.8	0.77	0.39
10:15	10:15	-0:25	36.8	33.7	7.4	33	35.6	0.99	0.004	1.140	0.268	0.800	0.78	33.5	0.88	37.6	0.82	0.59
10:30	10:30	0:00	36.9	32.2	7.4	32	35.5	1.01	0.004	1.150	0.296	0.815	0.87	31.8	0.90	35.7	0.82	0.80
11:00	11:00	0:50	36.9	33.1	7.4	32	35.7	1.01	0.007	1.140	0.326	0.815	0.98	31.7	0.90	35.5	0.80	1.20
11:30	11:30	1:00	36.9	27.8	7.4	32	35.7	0.99	0.004	1.140	0.340	0.808	1.01	32.5	0.88	36.4	0.80	1.60

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLINKRODT BSA

----- FLAPNO=2621 DATE=01/31/96 ANIMAL/SIDE=96-46-8-R PHASE=1 FLAPWT=26.64 DOSETIME=10:30 GROUP=No Topical MEDVOL=463 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
12:00	12:00	1.50	36.9	32.2	7.4	34	35.7	0.99	0.007	1.130	0.354	0.794	1.03	34.3	0.88	38.5	0.81	2.00
12:30	12:30	2.00	37.0	29.4	7.4	40	35.8	1.02	0.006	1.140	0.298	0.846	0.99	39.4	0.91	44.2	0.73	2.37
13:00	13:00	2.50	37.0	28.2	7.4	41	35.8	1.00	0.008	1.140	0.304	0.828	0.95	41.0	0.89	46.0	0.76	2.75
13:30	13:30	3.00	37.0	32.6	7.4	40	35.8	1.01	0.009	1.140	0.275	0.862	0.96	39.8	0.90	44.6	0.68	3.09
14:00	14:00	3.50	37.0	31.2	7.4	41	35.8	1.00	0.009	1.140	0.276	0.862	0.96	41.0	0.89	46.0	0.68	3.42
14:30	14:30	4.00	37.1	31.7	7.4	41	35.8	1.00	0.007	1.130	0.278	0.852	0.97	41.2	0.89	46.2	0.67	3.76
15:00	15:00	4.50	37.0	31.1	7.4	37	35.8	1.01	0.010	1.140	0.283	0.845	0.93	36.8	0.90	41.3	0.72	4.12
15:30	15:30	5.00	37.0	32.0	7.4	45	35.8	0.98	0.008	1.130	0.285	0.840	0.96	46.2	0.87	51.7	0.69	4.47
16:00	16:00	5.50	37.1	31.2	7.4	45	35.9	0.99	0.010	1.130	0.232	0.906	0.99	45.7	0.88	51.2	0.54	4.73
16:30	16:30	6.00	37.1	27.4	7.4	41	35.9	1.00	0.009	1.130	0.230	0.897	0.95	41.2	0.89	46.2	0.56	5.02
17:00	17:00	6.50	37.0	26.0	7.4	43	35.9	0.98	0.011	1.140	0.232	0.915	0.98	44.1	0.87	49.4	0.53	5.28
17:30	17:30	7.00	37.0	31.7	7.4	44	35.9	0.98	0.009	1.140	0.241	0.901	0.97	44.9	0.87	50.3	0.57	5.57
18:00	18:00	7.50	37.1	29.6	7.4	45	36.0	0.99	0.010	1.130	0.228	0.914	1.01	45.5	0.88	51.0	0.52	5.83
18:30	18:30	8.00	37.1	30.1	7.5	46	35.9	0.98	0.010	1.120	0.198	0.935	1.02	46.9	0.87	52.6	0.44	6.05

----- FLAPNO=2622 DATE=01/31/96 ANIMAL/SIDE=96-46-8-L PHASE=2 FLAPWT=22.75 DOSETIME=10:15 GROUP=ECHO MEDVOL=574 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.7	32.5	7.4	52	34.6	1.01	0.003	1.110	0.094	0.873	0.38	51.5	1.12	46.6	0.63	0.01
9:30	9:30	-0.75	36.6	30.2	7.4	45	34.6	1.00	0.004	1.140	0.163	0.926	0.74	45.0	1.11	40.7	0.56	0.15
9:45	9:45	-0.50	36.6	29.0	7.4	41	34.6	1.02	0.004	1.150	0.234	0.901	0.92	40.4	1.12	36.5	0.67	0.32
10:00	10:00	-0.25	36.7	29.7	7.4	40	34.7	0.99	0.004	1.130	0.251	0.875	0.97	40.4	1.09	36.5	0.67	0.48
10:15	10:15	0.00	36.6	30.1	7.4	43	34.6	1.02	0.005	1.140	0.276	0.851	0.94	42.4	1.12	38.3	0.77	0.68
10:45	10:45	0.50	36.8	29.4	7.4	44	34.7	1.00	0.003	1.130	0.267	0.875	1.04	44.0	1.11	39.8	0.67	1.01
11:15	11:15	1.00	36.8	30.0	7.4	44	34.7	1.00	0.005	1.150	0.277	0.860	0.94	44.2	1.10	40.0	0.76	1.39
11:45	11:45	1.50	36.7	30.6	7.4	45	34.7	1.02	0.005	1.140	0.286	0.854	0.98	44.3	1.12	40.1	0.77	1.78
12:15	12:15	2.00	36.8	29.6	7.4	46	34.7	1.02	0.005	1.140	0.278	0.873	1.02	45.3	1.12	41.0	0.71	2.13
12:45	12:45	2.50	36.8	26.7	7.4	50	34.7	0.99	0.006	1.150	0.284	0.871	1.00	50.8	1.09	45.9	0.72	2.50
13:15	13:15	3.00	36.8	27.9	7.4	56	34.7	1.01	0.005	1.150	0.275	0.854	0.91	55.7	1.11	50.4	0.78	2.89
13:45	13:45	3.50	36.8	27.7	7.4	61	34.7	1.00	0.006	1.140	0.278	0.863	0.98	61.0	1.11	55.2	0.73	3.25
14:15	14:15	4.00	36.8	28.1	7.4	64	34.7	0.99	0.006	1.130	0.261	0.854	0.92	65.0	1.09	58.7	0.72	3.61
14:45	14:45	4.50	36.7	26.9	7.4	66	34.7	0.98	0.006	1.140	0.242	0.876	0.89	67.7	1.08	61.2	0.68	3.95
15:15	15:15	5.00	36.8	29.7	7.4	66	34.7	1.02	0.005	1.140	0.235	0.885	0.90	65.0	1.12	58.8	0.68	4.29
15:45	15:45	5.50	36.8	30.0	7.4	70	34.8	1.01	0.006	1.130	0.238	0.890	0.97	69.3	1.12	62.7	0.64	4.61
16:15	16:15	6.00	36.8	25.7	7.4	73	34.8	0.99	0.006	1.130	0.238	0.897	1.00	73.7	1.09	66.7	0.61	4.92
16:45	16:45	6.50	36.7	27.0	7.4	77	34.7	0.99	0.007	1.130	0.236	0.903	1.01	78.2	1.09	70.7	0.59	5.21
17:15	17:15	7.00	36.8	25.1	7.4	81	34.8	0.99	0.006	1.140	0.236	0.908	0.99	81.8	1.09	74.0	0.61	5.52
17:45	17:45	7.50	36.7	27.2	7.4	83	34.8	1.00	0.009	1.140	0.231	0.909	0.96	83.0	1.11	75.0	0.61	5.82
18:15	18:15	8.00	36.8	29.8	7.5	84	34.8	1.00	0.012	1.120	0.231	0.891	0.96	84.0	1.11	76.0	0.60	6.12

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2623 DATE=02/01/96 ANIMAL/SIDE=96-51-5-R PHASE=1 FLAPWT=19.93 DOSETIME=10:15 GROUP=No Topical MEDVOL=534 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:14	-1.02	36.2	29.9	7.4	102	34.8	1.01	0.004	1.110	0.136	0.759	0.38	101.5	1.03	98.6	1.06	0.01
9:30	9:30	-0.75	36.2	30.2	7.4	54	34.7	1.02	0.004	1.120	0.173	0.902	0.78	53.2	1.04	51.7	0.67	0.19
9:45	9:45	-0.50	36.2	27.5	7.4	45	34.7	1.00	0.005	1.120	0.222	0.907	1.02	45.2	1.02	44.0	0.64	0.35
10:00	10:00	-0.25	36.3	27.1	7.4	42	34.7	0.98	0.005	1.120	0.270	0.854	1.00	42.9	1.01	41.7	0.78	0.54
10:15	10:15	0.00	36.4	27.2	7.4	41	34.7	1.00	0.005	1.120	0.300	0.833	1.03	41.2	1.02	40.0	0.86	0.76
10:45	10:45	0.50	36.4	29.2	7.4	40	34.8	1.00	0.005	1.120	0.314	0.805	0.98	40.0	1.03	38.9	0.95	1.23
11:15	11:15	1.00	36.5	29.2	7.4	40	34.8	0.98	0.007	1.120	0.345	0.788	1.02	40.8	1.01	39.7	0.98	1.72
11:45	11:45	1.50	36.5	26.6	7.4	38	34.8	1.00	0.008	1.130	0.364	0.754	0.95	38.2	1.02	37.1	1.13	2.29
12:15	12:15	2.00	36.5	26.2	7.4	35	34.8	1.00	0.009	1.130	0.370	0.729	0.90	35.0	1.03	34.0	1.21	2.89
12:45	12:45	2.50	36.5	29.1	7.4	40	34.7	0.98	0.008	1.130	0.375	0.740	0.94	40.8	1.01	39.7	1.15	3.46
13:15	13:15	3.00	36.5	25.8	7.4	48	34.7	1.00	0.008	1.140	0.370	0.740	0.91	48.0	1.03	46.7	1.20	4.07
13:45	13:45	3.50	36.5	26.0	7.4	50	34.7	1.01	0.009	1.130	0.352	0.778	0.97	49.8	1.03	48.4	1.07	4.60
14:15	14:15	4.00	36.5	25.8	7.4	55	34.7	1.00	0.009	1.140	0.326	0.821	0.99	55.3	1.02	53.7	0.96	5.08
14:45	14:45	4.50	36.5	29.5	7.4	55	34.7	1.01	0.012	1.120	0.322	0.793	0.95	54.5	1.04	52.9	0.99	5.57
15:15	15:15	5.00	36.5	28.8	7.4	56	34.7	1.01	0.012	1.120	0.327	0.769	0.90	55.4	1.04	53.9	1.07	6.11
15:45	15:45	5.50	36.6	27.7	7.4	60	34.8	0.99	0.008	1.120	0.321	0.782	0.93	60.9	1.01	59.2	1.00	6.61
16:15	16:15	6.00	36.6	28.5	7.4	62	34.8	1.00	0.010	1.130	0.336	0.842	1.13	62.3	1.02	60.6	0.86	7.04
16:45	16:45	6.50	36.5	24.1	7.4	63	34.8	1.01	0.008	1.130	0.321	0.799	0.95	62.7	1.03	60.9	1.00	7.54
17:15	17:15	7.00	36.6	27.4	7.4	63	34.8	1.00	0.011	1.120	0.350	0.804	1.07	63.0	1.03	61.2	0.95	8.02
17:45	17:44	7.48	36.6	26.7	7.4	64	34.8	1.02	0.007	1.120	0.316	0.803	0.97	62.7	1.05	61.0	0.97	8.49
18:15	18:15	8.00	36.6	27.9	7.4	66	34.8	1.02	0.009	1.120	0.308	0.814	0.98	65.0	1.04	63.2	0.94	8.97

----- FLAPNO=2624 DATE=02/01/96 ANIMAL/SIDE=96-51-5-L PHASE=2 FLAPWT=21.06 DOSETIME=10:00 GROUP=EtoH MEDVOL=499 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	35.0	29.3	7.4	41	34.2	1.00	0.004	1.120	0.077	0.905	0.34	41.0	0.96	42.6	0.61	0.01
9:15	9:15	-0.75	36.0	26.0	7.4	35	34.9	1.01	0.005	1.130	0.151	0.914	0.68	34.8	0.97	36.2	0.62	0.16
9:30	9:30	-0.50	36.1	29.9	7.4	33	34.9	1.00	0.005	1.120	0.207	0.898	0.91	33.2	0.96	34.5	0.63	0.32
9:45	9:45	-0.25	36.4	29.7	7.4	30	35.0	1.01	0.004	1.110	0.259	0.869	1.06	29.7	0.97	30.9	0.69	0.50
10:00	10:00	0.00	36.7	28.0	7.4	29	35.3	1.00	0.005	1.110	0.283	0.834	1.01	29.1	0.96	30.3	0.78	0.69
10:30	10:30	0.50	36.8	31.1	7.4	33	35.5	0.98	0.006	1.110	0.313	0.805	1.01	33.8	0.94	35.2	0.85	1.11
11:00	11:00	1.00	36.9	28.0	7.4	32	35.6	1.01	0.008	1.110	0.308	0.805	0.98	31.7	0.97	33.0	0.88	1.55
11:30	11:30	1.50	37.0	30.5	7.4	34	35.5	1.01	0.010	1.120	0.342	0.780	0.98	33.7	0.97	35.0	0.98	2.04
12:00	12:00	2.00	37.0	30.4	7.4	39	35.6	1.03	0.011	1.110	0.364	0.744	0.96	38.0	0.99	39.6	1.07	2.58
12:30	12:30	2.50	37.0	32.0	7.4	51	35.7	1.01	0.014	1.110	0.291	0.825	0.97	50.5	0.97	52.5	0.82	2.99
13:00	13:00	3.00	37.0	29.6	7.4	54	35.7	1.01	0.014	1.120	0.273	0.830	0.89	53.7	0.97	55.9	0.83	3.40
13:30	13:30	3.50	37.6	30.0	7.4	60	35.7	0.99	0.015	1.120	0.250	0.860	0.90	60.9	0.95	63.4	0.73	3.77
14:00	14:00	4.00	37.5	28.4	7.4	63	35.8	0.98	0.016	1.110	0.241	0.872	0.95	64.3	0.94	66.9	0.66	4.10
14:30	14:30	4.50	37.0	28.0	7.4	68	35.7	1.02	0.016	1.120	0.205	0.935	1.02	67.0	0.98	69.7	0.53	4.37
15:00	15:00	5.00	37.0	28.8	7.4	66	35.7	1.00	0.019	1.110	0.215	0.890	0.89	66.3	0.96	69.0	0.62	4.68
15:30	15:30	5.50	37.1	30.0	7.4	70	35.7	0.98	0.017	1.100	0.220	0.895	0.99	71.8	0.94	74.7	0.57	4.96

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2624 DATE=02/01/96 ANIMAL/SIDE=96-51-5-L PHASE=2 FLAPWT=21.06 DOSETIME=10:00 GROUP=EtoH MEDVOL=499 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:00	16:00	6.00	37.1	29.9	7.4	69	35.7	0.99	0.020	1.100	0.219	0.893	0.96	69.7	0.95	72.5	0.58	5.26
16:30	16:30	6.50	37.0	29.5	7.4	65	35.8	1.01	0.018	1.110	0.237	0.932	1.23	64.4	0.97	66.9	0.51	5.51
17:00	17:00	7.00	37.1	24.6	7.4	66	35.8	1.01	0.019	1.120	0.226	0.912	1.00	65.3	0.97	68.0	0.60	5.81
17:30	17:30	7.50	37.0	27.8	7.4	71	35.8	1.02	0.021	1.120	0.232	0.875	0.86	69.6	0.98	72.4	0.71	6.17
18:00	18:00	8.00	37.1	30.1	7.4	69	35.8	1.02	0.021	1.110	0.238	0.878	0.94	68.0	0.98	70.7	0.67	6.50

----- FLAPNO=2626 DATE=02/07/96 ANIMAL/SIDE=96-128-5-L PHASE=2 FLAPWT=25.75 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=439 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.3	33.3	7.4	77	34.5	1.00	0.002	1.180	0.049	0.732	0.10	77.4	0.84	91.5	1.04	0.01
9:15	9:14	-0.73	36.3	35.5	7.4	57	35.4	1.02	0.004	1.160	0.161	0.724	0.36	56.2	0.86	66.4	1.03	0.25
9:30	9:30	-0.47	36.5	36.0	7.4	53	35.6	1.02	0.004	1.190	0.219	0.791	0.54	52.2	0.86	61.7	0.94	0.50
9:45	9:45	-0.22	36.7	34.2	7.4	52	35.7	1.00	0.005	1.140	0.268	0.794	0.76	52.3	0.84	61.8	0.80	0.70
10:00	9:58	0.00	36.7	34.4	7.4	46	35.6	1.01	0.005	1.150	0.304	0.793	0.84	45.5	0.85	53.8	0.84	0.88
10:30	10:30	0.53	36.7	34.1	7.4	47	35.6	0.99	0.006	1.170	0.307	0.812	0.84	47.7	0.83	56.4	0.82	1.32
11:00	11:00	1.03	37.0	34.0	7.4	43	35.7	0.97	0.008	1.180	0.326	0.829	0.91	44.3	0.82	52.4	0.79	1.72
11:30	11:30	1.53	37.0	34.2	7.4	45	35.7	0.98	0.003	1.180	0.326	0.826	0.91	45.9	0.83	54.3	0.81	2.12
12:00	12:00	2.03	37.1	33.0	7.4	45	35.9	0.98	0.008	1.140	0.310	0.817	0.93	45.9	0.83	54.3	0.74	2.49
12:30	12:30	2.53	37.1	33.3	7.4	47	35.9	1.03	0.009	1.140	0.310	0.860	1.08	45.6	0.87	53.9	0.67	2.83
13:00	13:00	3.03	37.0	33.8	7.4	48	35.9	1.00	0.007	1.130	0.297	0.825	0.95	48.2	0.84	57.0	0.71	3.18
13:30	13:30	3.53	37.1	33.8	7.4	47	35.9	0.99	0.010	1.110	0.280	0.844	1.02	47.7	0.83	56.4	0.61	3.49
14:00	14:00	4.03	37.1	34.1	7.4	47	35.9	1.00	0.011	1.160	0.284	0.894	1.03	47.0	0.85	55.6	0.62	3.80
14:30	14:30	4.53	37.0	34.2	7.4	50	35.9	0.98	0.014	1.170	0.285	0.862	0.88	51.0	0.83	60.3	0.70	4.15
15:00	15:00	5.03	37.2	34.2	7.4	55	35.9	1.00	0.015	1.110	0.261	0.848	0.94	55.3	0.84	65.3	0.61	4.45
15:30	15:30	5.53	37.2	33.9	7.4	56	36.1	0.99	0.015	1.130	0.261	0.852	0.88	56.6	0.84	66.9	0.64	4.77
16:00	16:00	6.03	37.1	33.8	7.4	55	36.1	1.00	0.014	1.130	0.252	0.870	0.92	55.0	0.85	65.0	0.61	5.08
16:30	16:30	6.53	37.2	33.8	7.4	65	36.1	1.00	0.015	1.130	0.249	0.877	0.92	65.0	0.85	76.8	0.59	5.37
17:00	17:00	7.03	37.2	33.7	7.4	69	36.2	1.01	0.015	1.130	0.238	0.869	0.85	68.7	0.85	81.2	0.61	5.68
17:30	17:30	7.53	37.3	33.8	7.4	60	36.2	1.00	0.017	1.110	0.234	0.868	0.90	60.3	0.84	71.3	0.56	5.96
18:00	18:00	8.03	37.3	33.9	7.4	69	36.2	1.00	0.016	1.120	0.240	0.859	0.86	69.0	0.85	81.6	0.61	6.26

----- FLAPNO=2627 DATE=02/08/96 ANIMAL/SIDE=96-128-4-R PHASE=2 FLAPWT=30.38 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=560 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	35.8	40.2	7.4	75	35.1	0.99	0.000	1.140	0.102	0.811	0.31	75.8	1.07	70.2	0.64	0.01
9:30	9:29	-0.77	35.6	40.3	7.4	61	34.8	1.01	0.000	1.140	0.150	0.858	0.53	60.7	1.08	56.3	0.56	0.14
9:45	9:45	-0.50	35.2	39.5	7.4	57	34.6	1.01	0.000	1.130	0.206	0.867	0.78	56.4	1.09	52.3	0.52	0.28

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2627 DATE=02/08/96 ANIMAL/SIDE=96-128-4-R PHASE=2 FLAPWT=30.38 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=560 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.25	35.1	39.4	7.4	56	34.6	0.98	0.000	1.150	0.252	0.824	0.77	57.1	1.06	53.0	0.63	0.44
10:15	10:15	0.00	35.0	40.1	7.4	49	34.4	1.01	0.000	1.160	0.291	0.820	0.86	48.8	1.08	45.2	0.67	0.61
10:45	10:45	0.50	35.2	40.4	7.5	48	34.3	0.98	0.000	1.160	0.310	0.820	0.91	49.0	1.06	45.4	0.66	0.94
11:15	11:15	1.00	34.3	40.5	7.4	48	34.6	0.98	0.003	1.150	0.330	0.782	0.89	49.2	1.05	45.6	0.71	1.29
11:45	11:45	1.50	35.0	40.6	7.4	54	34.6	1.00	0.004	1.150	0.327	0.803	0.93	54.3	1.07	50.3	0.68	1.63
12:15	12:15	2.00	35.2	40.2	7.4	56	34.8	1.00	0.006	1.140	0.318	0.809	0.94	56.0	1.08	51.9	0.65	1.96
12:45	12:45	2.50	35.2	40.3	7.4	64	34.9	1.00	0.005	1.150	0.310	0.833	0.96	64.3	1.07	59.6	0.62	2.27
13:15	13:15	3.00	35.5	39.6	7.4	71	35.1	0.99	0.004	1.140	0.289	0.846	0.97	72.1	1.06	66.8	0.57	2.56
13:45	13:45	3.50	35.7	39.1	7.4	72	35.2	1.00	0.004	1.150	0.258	0.862	0.88	72.0	1.08	66.7	0.57	2.84
14:15	14:15	4.00	35.6	39.0	7.4	75	35.1	1.01	0.003	1.130	0.233	0.869	0.88	74.3	1.09	68.8	0.52	3.10
14:45	14:45	4.50	35.7	39.0	7.4	70	35.2	1.01	0.005	1.150	0.221	0.917	0.93	69.3	1.05	72.2	0.46	3.33
15:15	15:15	5.00	35.7	38.6	7.4	76	35.1	0.98	0.002	1.160	0.217	0.937	0.96	77.9	1.06	69.6	0.43	3.55
15:45	15:45	5.50	35.7	37.4	7.4	74	35.2	0.99	0.003	1.150	0.209	0.929	0.93	75.1	1.06	69.6	0.43	3.76
16:15	16:15	6.00	35.7	37.3	7.4	72	35.2	1.00	0.004	1.150	0.210	0.901	0.83	72.0	1.08	66.7	0.49	4.01
16:45	16:45	6.50	35.8	37.0	7.4	78	35.2	1.00	0.004	1.100	0.207	0.925	1.16	78.4	1.07	72.7	0.34	4.18
17:15	17:15	7.00	35.7	37.3	7.4	81	35.2	0.99	0.003	1.130	0.215	0.911	0.97	81.8	1.07	75.8	0.43	4.39
17:45	17:45	7.50	35.7	36.9	7.4	81	35.2	0.98	0.004	1.140	0.232	0.909	0.99	83.1	1.05	77.0	0.44	4.62
18:15	18:15	8.00	35.7	36.6	7.4	79	35.2	1.00	0.004	1.150	0.234	0.894	0.90	79.4	1.07	73.6	0.50	4.87

----- FLAPNO=2628 DATE=02/08/96 ANIMAL/SIDE=96-128-4-L PHASE=2 FLAPWT=25.65 DOSETIME=10:00 GROUP=EIOH MEDVOL=513 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	36.7	32.5	7.4	37	35.4	1.00	0.000	1.100	0.173	0.752	0.50	37.0	0.99	37.4	0.81	0.01
9:15	9:15	-0.75	37.1	32.4	7.4	32	35.4	1.00	0.005	1.140	0.242	0.829	0.76	32.2	0.98	32.5	0.72	0.19
9:30	9:30	-0.50	36.9	33.4	7.4	31	35.3	0.99	0.004	1.130	0.285	0.808	0.87	31.5	0.97	31.8	0.74	0.38
9:45	9:45	-0.25	36.9	32.7	7.5	30	35.2	1.00	0.004	1.130	0.315	0.788	0.91	30.2	0.98	30.5	0.80	0.58
10:00	10:00	0.00	36.7	33.3	7.4	30	35.3	1.01	0.005	1.130	0.372	0.758	0.99	29.7	1.00	30.1	0.88	0.80
10:30	10:30	0.50	36.8	34.2	7.4	29	34.9	1.00	0.000	1.160	0.387	0.755	0.96	29.1	0.98	29.5	0.94	1.27
11:00	11:00	1.00	36.7	34.2	7.4	29	34.9	1.00	0.000	1.140	0.400	0.732	0.98	29.0	0.99	29.3	0.95	1.74
11:30	11:30	1.50	36.7	34.2	7.4	32	34.9	1.02	0.002	1.130	0.403	0.721	0.98	31.4	1.01	31.7	0.98	2.23
12:00	12:00	2.00	36.8	34.2	7.4	33	35.1	1.00	0.008	1.130	0.342	0.775	0.94	33.0	0.99	33.4	0.83	2.65
12:30	12:30	2.50	37.0	33.6	7.4	38	35.1	0.99	0.007	1.130	0.281	0.839	0.94	38.6	0.97	39.0	0.67	2.98
13:00	13:00	3.00	37.0	33.6	7.4	39	35.3	1.00	0.006	1.150	0.299	0.824	0.90	39.2	0.98	39.7	0.76	3.36
13:30	13:30	3.50	37.1	33.6	7.4	45	35.4	1.02	0.006	1.140	0.292	0.847	0.98	44.3	1.00	44.9	0.70	3.71
14:00	14:00	4.00	37.1	33.6	7.4	45	35.4	1.00	0.005	1.130	0.275	0.857	0.99	45.0	0.99	45.5	0.64	4.03
14:30	14:30	4.50	37.1	32.9	7.4	47	35.4	1.00	0.006	1.130	0.251	0.874	0.96	47.2	0.98	47.8	0.60	4.33
15:00	15:00	5.00	37.1	33.9	7.4	51	35.4	0.97	0.005	1.130	0.237	0.886	0.95	52.8	0.95	53.5	0.55	4.60
15:30	15:30	5.50	37.1	33.1	7.4	53	35.4	1.00	0.003	1.140	0.231	0.906	0.97	53.3	0.98	53.9	0.54	4.87
16:00	16:00	6.00	37.1	32.6	7.4	57	35.4	1.00	0.002	1.150	0.237	0.905	0.96	57.0	0.99	57.7	0.57	5.16
16:30	16:30	6.50	37.1	32.8	7.4	62	35.4	1.00	0.002	1.140	0.231	0.919	1.04	62.0	0.99	62.7	0.52	5.42

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLINKRODT BSA

----- FLAPNO=2628 DATE=02/08/96 ANIMAL/SIDE=96-128-4-L PHASE=2 FLAPWT=25.65 DOSETIME=10:00 GROUP=EEOH MEDVOL=513 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	7.00	37.1	32.9	7.4	65	35.5	1.02	0.005	1.130	0.213	0.910	0.95	64.0	1.00	64.8	0.52	5.68
17:30	17:30	7.50	37.1	32.7	7.4	68	35.5	1.00	0.004	1.120	0.209	0.902	0.94	68.0	0.99	68.8	0.51	5.94
18:00	18:00	8.00	37.2	32.7	7.4	69	35.5	1.00	0.001	1.140	0.213	0.911	0.93	69.0	0.99	69.8	0.54	6.20

----- FLAPNO=2629 DATE=02/14/96 ANIMAL/SIDE=96-56-5-R PHASE=2 FLAPWT=26.12 DOSETIME=10:15 GROUP=3 mg HD MEDVOL=536 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	36.3	33.0	7.4	47	35.1	0.99	0.003	1.150	0.148	0.801	0.42	47.5	1.02	46.0	0.79	0.01
9:30	9:30	-0.75	36.6	33.1	7.4	43	35.1	0.99	0.005	1.140	0.224	0.847	0.75	43.4	1.02	42.1	0.67	0.18
9:45	9:45	-0.50	37.7	32.8	7.4	41	35.0	0.98	0.004	1.140	0.277	0.822	0.86	41.8	1.01	40.5	0.72	0.36
10:00	10:00	-0.25	36.7	32.4	7.4	42	35.1	1.02	0.001	1.140	0.310	0.799	0.91	41.2	1.05	39.9	0.80	0.56
10:15	10:15	0.00	36.8	32.0	7.4	39	35.1	1.02	0.005	1.140	0.329	0.783	0.91	38.4	1.05	37.2	0.83	0.76
10:45	10:45	0.50	36.7	32.0	7.4	38	34.8	1.01	0.007	1.140	0.331	0.805	0.97	37.6	1.04	36.4	0.78	1.15
11:15	11:15	1.00	36.7	32.4	7.4	38	34.9	1.00	0.005	1.150	0.332	0.786	0.90	38.2	1.03	37.0	0.83	1.57
11:45	11:45	1.50	36.6	32.0	7.4	47	34.9	1.01	0.006	1.130	0.316	0.829	1.03	46.8	1.04	45.3	0.69	1.92
12:15	12:15	2.00	36.7	32.2	7.4	57	34.9	1.00	0.005	1.110	0.260	0.864	1.04	57.3	1.02	55.5	0.56	2.20
12:45	12:45	2.50	36.7	32.2	7.4	93	35.1	0.99	0.003	1.140	0.278	0.857	0.97	93.9	1.03	91.0	0.64	2.52
13:15	13:15	3.00	36.7	31.6	7.4	92	35.1	0.99	0.002	1.140	0.256	0.883	0.99	93.4	1.02	90.4	0.58	2.81
13:45	13:45	3.50	36.8	32.1	7.4	76	35.1	1.00	0.003	1.150	0.210	0.917	0.89	76.4	1.03	74.0	0.53	3.08
14:15	14:15	4.00	37.0	31.7	7.4	65	35.1	0.98	0.003	1.140	0.193	0.940	0.95	66.7	1.01	64.6	0.45	3.30
14:45	14:45	4.50	36.9	31.9	7.4	69	35.1	1.00	0.006	1.130	0.186	0.956	1.03	69.3	1.03	67.1	0.40	3.50
15:15	15:15	5.00	36.9	31.3	7.4	66	35.1	1.02	0.004	1.140	0.168	0.971	0.97	64.7	1.05	62.7	0.40	3.70
15:45	15:45	5.50	36.9	31.0	7.4	63	35.1	1.02	0.002	1.150	0.162	0.974	0.91	61.8	1.05	59.8	0.41	3.90
16:15	16:15	6.00	36.9	31.7	7.4	67	35.1	1.00	0.004	1.140	0.164	0.989	1.06	67.3	1.03	65.2	0.35	4.07
16:45	16:45	6.50	36.9	31.2	7.4	64	35.2	0.99	0.003	1.140	0.159	0.971	0.92	65.0	1.02	62.9	0.38	4.27
17:15	17:15	7.00	37.0	31.5	7.4	59	35.1	0.99	0.005	1.140	0.157	0.986	0.99	59.9	1.02	58.0	0.35	4.44
17:45	17:45	7.50	37.0	31.5	7.4	61	35.3	0.97	0.009	1.110	0.163	0.983	1.21	63.2	1.00	61.2	0.28	4.58
18:15	18:15	8.00	37.0	31.4	7.4	52	35.3	0.98	0.008	1.110	0.154	0.944	0.88	53.1	1.01	51.4	0.37	4.77

----- FLAPNO=2630 DATE=02/14/96 ANIMAL/SIDE=96-56-5-L PHASE=2 FLAPWT=25.66 DOSETIME=10:30 GROUP=EEOH MEDVOL=529 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:30	9:30	-1.00	36.1	31.5	7.4	50	34.8	0.99	0.004	1.100	0.174	0.825	0.62	50.8	1.00	49.8	0.63	0.01
9:45	9:45	-0.75	37.2	32.0	7.4	46	35.9	0.99	0.003	1.150	0.234	0.816	0.69	46.7	1.00	45.8	0.77	0.20
10:00	10:00	-0.50	37.1	31.7	7.4	43	35.4	0.99	0.004	1.150	0.319	0.769	0.83	43.7	1.00	42.8	0.88	0.42
10:15	10:15	-0.25	37.3	30.4	7.4	44	35.4	1.00	0.005	1.140	0.366	0.741	0.90	44.0	1.02	43.2	0.93	0.65
10:30	10:30	0.00	37.8	29.8	7.4	37	35.8	1.00	0.005	1.130	0.392	0.729	0.97	37.0	1.02	36.3	0.94	0.89

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENROOT BSA

----- FLAPNO=2630 DATE=02/14/96 ANIMAL/SIDE=96-56-5-L PHASE=2 FLAPWT=25.66 DOSETIME=10:30 GROUP=EtoH MEDVOL=529 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:00	11:00	0.50	37.7	29.9	7.4	39	35.7	1.00	0.006	1.150	0.396	0.731	0.93	39.0	1.02	38.3	0.98	1.38
11:30	11:30	1.00	37.7	29.9	7.4	35	35.8	1.00	0.005	1.130	0.412	0.724	1.00	35.2	1.01	34.5	0.94	1.85
12:00	12:00	1.50	37.8	29.8	7.4	42	35.7	0.99	0.008	1.110	0.390	0.716	0.97	42.6	1.00	41.8	0.91	2.31
12:30	12:30	2.00	37.8	29.6	7.4	45	35.8	1.00	0.006	1.130	0.380	0.752	0.99	45.0	1.02	44.1	0.88	2.75
13:00	13:00	2.50	37.9	29.7	7.4	55	35.8	1.02	0.006	1.150	0.372	0.760	0.94	54.2	1.03	53.2	0.93	3.21
13:30	13:30	3.00	37.8	29.7	7.4	56	35.8	1.00	0.004	1.150	0.297	0.851	0.98	56.0	1.02	54.9	0.70	3.56
14:00	14:00	3.50	38.0	29.8	7.4	54	35.8	1.00	0.002	1.140	0.284	0.844	0.95	54.0	1.02	53.0	0.69	3.91
14:30	14:30	4.00	37.9	29.5	7.4	50	35.8	0.99	0.003	1.140	0.287	0.884	1.11	50.8	1.00	49.8	0.59	4.20
15:00	15:00	4.50	37.9	30.0	7.4	50	35.8	1.00	0.006	1.130	0.258	0.882	1.02	50.3	1.01	49.3	0.58	4.49
15:30	15:30	5.00	37.9	27.6	7.4	51	35.9	1.01	0.003	1.140	0.224	0.922	1.01	50.5	1.03	49.5	0.51	4.75
16:00	16:00	5.50	37.9	30.0	7.4	54	35.9	0.99	0.003	1.150	0.192	0.949	0.94	52.9	1.04	51.9	0.48	4.99
16:30	16:30	6.00	37.9	29.4	7.4	56	35.9	0.99	0.005	1.140	0.176	0.967	0.99	56.6	1.01	55.5	0.40	5.19
17:00	17:00	6.50	37.9	29.1	7.4	61	35.8	0.98	0.003	1.140	0.161	0.979	0.98	62.6	0.99	61.4	0.37	5.37
17:30	17:30	7.00	37.8	29.1	7.4	61	35.8	0.99	0.004	1.150	0.170	0.990	1.04	61.6	1.01	60.5	0.37	5.55
18:00	18:00	7.50	38.0	29.3	7.4	60	35.9	0.98	0.006	1.120	0.166	0.980	1.14	61.5	0.99	60.4	0.32	5.71
18:30	18:30	8.00	38.0	28.8	7.4	62	35.9	0.99	0.008	1.130	0.176	0.975	1.08	62.9	1.00	61.8	0.36	5.89

----- FLAPNO=2632 DATE=02/15/96 ANIMAL/SIDE=96-56-4-L PHASE=2 FLAPWT=27.24 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=583 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	35.6	32.0	7.4	97	34.6	0.99	0.003	1.120	0.051	0.778	0.14	98.0	1.11	87.2	0.75	0.01
9:15	9:15	-0.75	34.5	31.0	7.4	70	34.3	1.00	0.005	1.130	0.125	0.796	0.36	70.4	1.12	62.6	0.73	0.19
9:30	9:30	-0.50	34.9	34.8	7.4	71	34.7	0.99	0.006	1.140	0.176	0.860	0.61	71.7	1.11	63.8	0.61	0.35
9:45	9:45	-0.25	35.1	35.0	7.4	55	34.7	0.99	0.005	1.140	0.199	0.864	0.70	55.6	1.11	49.5	0.60	0.50
10:00	10:00	0.00	35.1	34.5	7.4	51	34.6	0.98	0.005	1.130	0.245	0.840	0.83	52.0	1.10	46.3	0.63	0.65
10:30	10:30	0.50	35.1	35.0	7.4	46	34.7	1.00	0.003	1.140	0.265	0.848	0.90	46.2	1.12	41.2	0.64	0.97
11:00	11:00	1.00	35.3	34.5	7.4	47	34.8	1.01	0.007	1.120	0.282	0.830	0.95	46.5	1.13	41.4	0.65	1.30
11:30	11:30	1.50	35.3	34.7	7.4	51	34.9	1.00	0.009	1.100	0.301	0.812	1.01	51.0	1.12	45.4	0.63	1.61
12:00	12:00	2.00	35.4	34.0	7.4	60	34.9	0.99	0.008	1.110	0.302	0.816	1.00	60.6	1.11	54.0	0.64	1.93
12:30	12:30	2.50	35.3	34.4	7.4	69	34.9	1.00	0.011	1.110	0.297	0.814	0.97	69.3	1.12	61.7	0.65	2.26
13:00	13:00	3.00	35.4	34.2	7.4	69	34.9	1.00	0.010	1.110	0.288	0.821	0.96	69.3	1.12	61.7	0.63	2.57
13:30	13:30	3.50	35.4	34.1	7.4	80	34.9	1.01	0.011	1.120	0.291	0.823	0.94	79.6	1.13	70.9	0.66	2.90
14:00	14:00	4.00	35.3	34.5	7.4	81	34.9	1.00	0.008	1.130	0.307	0.812	0.94	81.0	1.12	72.1	0.70	3.25
14:30	14:30	4.50	35.4	34.0	7.4	85	34.9	1.02	0.012	1.120	0.318	0.784	0.91	83.3	1.15	74.2	0.75	3.63
15:00	15:00	5.00	35.4	34.0	7.4	84	34.9	0.99	0.007	1.120	0.387	0.722	0.95	84.8	1.11	75.5	0.87	4.06
15:30	15:30	5.50	35.4	33.8	7.4	86	34.9	1.01	0.012	1.110	0.401	0.716	0.99	85.1	1.13	75.8	0.88	4.50
16:00	16:00	6.00	35.4	33.5	7.4	87	35.0	1.00	0.012	1.120	0.375	0.742	0.96	87.0	1.12	77.4	0.83	4.92
16:30	16:30	6.50	35.4	34.2	7.4	78	35.1	0.99	0.014	1.110	0.392	0.717	0.96	78.8	1.11	70.1	0.86	5.35
17:00	17:00	7.00	35.3	34.6	7.4	74	35.1	1.00	0.008	1.130	0.380	0.713	0.89	74.4	1.12	66.2	0.91	5.80
17:30	17:30	7.50	35.4	34.3	7.4	73	35.1	0.99	0.012	1.100	0.503	0.656	1.11	74.1	1.11	66.0	0.96	6.29

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2632 DATE=02/15/96 ANIMAL/SIDE=96-56-4-L PHASE=2 FLAPWT=27.24 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=583 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	LACT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
18:00	18:00	8.00	35.4	33.6	7.4	70	34.9	1.00	0.011	1.120	0.402	0.693	0.92	70.0	1.12	62.3	0.94	6.76

----- FLAPNO=2633 DATE=02/21/96 ANIMAL/SIDE=96-66-11-R PHASE=2 FLAPWT=21.39 DOSETIME=10:14 GROUP=3 mg HD MEDVOL=511 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	LACT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-0.98	36.3	36.4	7.4	33	34.6	0.99	0.005	1.120	0.213	0.795	0.64	33.3	0.97	33.9	0.90	0.01
9:30	9:30	-0.73	36.6	35.7	7.4	32	34.9	0.99	0.005	1.140	0.288	0.792	0.81	32.5	0.97	33.0	0.96	0.25
9:45	9:45	-0.48	36.8	35.5	7.4	29	35.0	1.01	0.005	1.140	0.349	0.764	0.91	28.9	0.99	29.3	1.06	0.52
10:00	10:00	-0.23	36.8	35.4	7.4	31	35.1	1.01	0.004	1.140	0.391	0.728	0.94	30.8	0.99	31.3	1.16	0.81
10:15	10:14	0.00	36.8	35.2	7.4	31	35.1	1.00	0.004	1.150	0.384	0.736	0.92	31.2	0.98	31.6	1.16	1.08
10:45	10:45	0.52	36.9	35.3	7.4	32	35.0	1.00	0.005	1.150	0.402	0.742	0.97	32.2	0.98	32.7	1.14	1.66
11:15	11:15	1.02	37.0	35.3	7.4	36	35.1	0.98	0.003	1.140	0.358	0.777	0.98	36.7	0.96	37.3	1.00	2.16
11:45	11:45	1.52	36.9	35.6	7.4	39	35.1	1.00	0.004	1.140	0.337	0.798	0.97	39.2	0.98	39.8	0.95	2.64
12:15	12:15	2.02	36.9	35.2	7.4	47	35.1	1.02	0.006	1.150	0.266	0.871	0.93	46.3	1.00	47.0	0.79	3.04
12:45	12:45	2.52	36.9	34.8	7.4	50	35.1	1.01	0.004	1.160	0.227	0.902	0.86	49.5	0.99	50.3	0.73	3.40
13:15	13:15	3.02	36.9	34.4	7.4	50	35.1	1.00	0.006	1.170	0.179	0.962	0.83	50.0	0.98	50.8	0.58	3.69
13:45	13:45	3.52	36.9	34.8	7.4	49	35.1	1.01	0.005	1.150	0.159	0.986	0.94	48.8	0.99	49.5	0.46	3.93
14:15	14:15	4.02	36.8	34.5	7.4	48	35.1	0.99	0.005	1.160	0.153	1.010	0.99	48.5	0.97	49.2	0.42	4.13
14:45	14:45	4.52	36.8	34.5	7.4	50	35.1	1.00	0.007	1.160	0.140	0.992	0.79	50.0	0.98	50.8	0.47	4.37
15:15	15:15	5.02	36.8	33.9	7.4	49	35.1	0.99	0.004	1.150	0.131	1.010	0.91	49.5	0.97	50.3	0.39	4.56
15:45	15:45	5.52	36.9	33.9	7.4	56	35.1	1.01	0.005	1.150	0.136	1.020	1.01	55.7	0.99	56.6	0.37	4.75
16:15	16:15	6.02	36.9	33.9	7.4	55	35.1	1.00	0.008	1.150	0.136	1.010	0.91	55.0	0.98	55.9	0.39	4.94
16:45	16:45	6.52	36.9	33.9	7.4	58	35.1	1.01	0.004	1.160	0.131	1.030	0.98	57.4	0.99	58.3	0.37	5.13
17:15	17:15	7.02	36.9	33.8	7.4	55	35.1	0.98	0.007	1.140	0.136	1.000	0.92	56.1	0.96	57.0	0.38	5.32
17:45	17:45	7.52	36.9	33.9	7.5	72	34.8	0.99	0.005	1.150	0.148	1.000	0.95	72.7	0.97	73.9	0.42	5.53
18:15	18:15	8.02	36.9	33.4	7.5	51	35.0	0.97	0.007	1.150	0.148	0.990	0.88	52.6	0.96	53.4	0.44	5.75

----- FLAPNO=2634 DATE=02/21/96 ANIMAL/SIDE=96-66-11-L PHASE=2 FLAPWT=25.14 DOSETIME=9:59 GROUP=E:COH MEDVOL=565 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	LACT ROSA	LACT ATEV	LACT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.98	35.4	38.1	7.4	37	33.9	0.99	0.002	1.160	0.196	0.819	0.57	37.6	1.07	34.5	0.80	0.01
9:15	9:15	-0.73	36.5	37.9	7.4	39	34.6	1.00	0.004	1.150	0.210	0.889	0.79	39.2	1.08	36.0	0.62	0.16
9:30	9:30	-0.48	36.7	38.1	7.4	39	34.6	1.02	0.001	1.150	0.283	0.834	0.89	38.2	1.11	35.1	0.77	0.36
9:45	9:45	-0.23	36.9	38.1	7.4	39	34.8	0.99	0.000	1.160	0.338	0.790	0.91	39.4	1.08	36.2	0.87	0.58
10:00	9:59	0.00	37.1	38.1	7.4	38	34.8	1.00	0.004	1.130	0.355	0.788	1.03	38.2	1.08	35.1	0.81	0.77
10:30	10:30	0.52	37.1	37.8	7.4	37	34.9	1.02	0.004	1.160	0.365	0.782	0.96	36.3	1.11	33.3	0.92	1.24
11:00	11:00	1.02	37.2	37.8	7.4	38	34.9	1.01	0.003	1.150	0.388	0.768	1.01	37.8	1.09	34.7	0.92	1.70

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2634 DATE=02/21/96 ANIMAL/SIDE=96-66-11-L PHASE=2 FLAPWT=25.14 DOSETIME=9:59 GROUP=EIOH MEDVOL=565 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
11:30	11:30	1.52	37.3	38.0	7.4	30	35.1	0.99	0.002	1.150	0.394	0.735	0.94	30.3	1.08	27.8	0.98	2.19
12:00	12:00	2.02	37.3	38.1	7.4	43	35.1	1.00	0.002	1.150	0.391	0.756	0.99	43.0	1.09	39.5	0.94	2.66
12:30	12:30	2.52	37.0	36.9	7.4	47	34.8	1.01	0.004	1.160	0.376	0.783	0.99	46.8	1.09	43.0	0.90	3.11
13:00	13:00	3.02	37.0	36.9	7.4	52	34.8	0.99	0.002	1.160	0.352	0.811	1.00	52.8	1.07	48.5	0.82	3.52
13:30	13:30	3.52	37.0	36.3	7.4	63	34.8	1.01	0.002	1.150	0.314	0.835	0.99	62.4	1.10	57.3	0.76	3.90
14:00	14:00	4.02	36.9	36.3	7.4	58	34.8	1.00	0.002	1.150	0.246	0.894	0.95	58.0	1.09	53.3	0.61	4.21
14:30	14:30	4.52	37.0	35.8	7.4	63	34.8	1.02	0.004	1.150	0.243	0.927	1.07	62.1	1.10	57.0	0.54	4.48
15:00	15:00	5.02	37.0	35.6	7.4	60	34.8	0.99	0.002	1.150	0.225	0.921	0.97	60.9	1.07	56.0	0.54	4.75
15:30	15:30	5.52	37.0	36.0	7.4	63	34.8	0.99	0.004	1.150	0.215	0.948	1.04	63.6	1.08	58.5	0.48	4.98
16:00	16:00	6.02	37.0	35.7	7.4	64	34.9	0.99	0.005	1.130	0.200	0.956	1.12	64.6	1.08	59.4	0.41	5.19
16:30	16:30	6.52	37.0	35.4	7.4	71	34.9	1.00	0.006	1.150	0.184	0.958	0.93	71.0	1.09	65.2	0.46	5.42
17:00	17:00	7.02	37.0	35.4	7.4	69	34.8	0.97	0.005	1.160	0.184	0.986	1.03	71.1	1.06	65.3	0.40	5.62
17:30	17:30	7.52	37.0	35.1	7.4	73	34.8	1.00	0.005	1.140	0.177	0.957	0.94	73.4	1.08	67.4	0.43	5.84
18:00	18:00	8.02	37.0	34.8	7.4	66	34.8	0.98	0.009	1.150	0.169	0.979	0.94	67.7	1.06	62.2	0.40	6.04

----- FLAPNO=2635 DATE=02/22/96 ANIMAL/SIDE=96-67-5-R PHASE=2 FLAPWT=24.24 DOSETIME=10:15 GROUP=EIOH MEDVOL=564 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-1.00	34.9	36.5	7.4	29	33.7	1.00	0.002	1.150	0.134	0.620	0.25	29.1	1.08	26.8	1.31	0.01
9:30	9:30	-0.75	35.7	35.5	7.4	29	34.2	0.99	0.005	1.130	0.194	0.812	0.59	29.4	1.07	27.1	0.78	0.20
9:45	9:45	-0.50	35.9	35.5	7.4	29	34.4	0.99	0.006	1.100	0.249	0.816	0.86	29.3	1.08	27.0	0.70	0.38
10:00	10:00	-0.25	36.1	35.6	7.4	29	34.4	1.00	0.005	1.110	0.287	0.796	0.90	29.1	1.08	26.8	0.77	0.57
10:15	10:15	0.00	36.1	35.2	7.4	28	34.8	0.99	0.008	1.110	0.309	0.800	0.97	28.4	1.07	26.2	0.76	0.76
10:45	10:45	0.50	36.2	33.8	7.4	28	34.4	0.99	0.009	1.140	0.323	0.796	0.91	28.3	1.08	26.0	0.84	1.18
11:15	11:15	1.00	36.1	33.3	7.4	30	34.4	0.99	0.006	1.130	0.347	0.785	0.99	30.5	1.07	28.0	0.84	1.60
11:45	11:45	1.50	36.1	33.4	7.4	30	34.4	1.00	0.010	1.130	0.363	0.780	1.01	30.2	1.08	27.7	0.86	2.03
12:15	12:15	2.00	36.1	32.7	7.4	35	34.5	1.00	0.007	1.140	0.368	0.752	0.93	35.0	1.09	32.2	0.96	2.51
12:45	12:45	2.50	36.1	32.7	7.4	51	34.5	1.00	0.008	1.130	0.360	0.763	0.96	51.3	1.08	47.2	0.90	2.97
13:15	13:15	3.00	36.0	32.5	7.4	51	34.5	0.99	0.012	1.130	0.270	0.881	1.04	51.8	1.07	47.6	0.61	3.27
13:45	13:45	3.50	36.1	33.7	7.4	62	34.5	1.01	0.009	1.130	0.235	0.904	1.00	61.4	1.10	56.5	0.56	3.55
14:15	14:15	4.00	36.3	33.3	7.4	62	34.7	1.00	0.012	1.140	0.236	0.905	0.95	62.0	1.09	57.1	0.58	3.84
14:45	14:45	4.50	36.4	33.1	7.4	64	34.7	1.00	0.009	1.140	0.226	0.923	1.00	64.0	1.09	58.9	0.54	4.11
15:15	15:15	5.00	36.4	32.7	7.4	72	34.8	0.99	0.009	1.130	0.231	0.934	1.13	72.7	1.08	66.9	0.48	4.35
15:45	15:45	5.50	36.4	32.2	7.4	79	34.7	1.00	0.008	1.140	0.214	0.919	0.93	79.4	1.08	73.1	0.54	4.62
16:15	16:15	6.00	36.5	32.3	7.4	87	34.8	1.01	0.010	1.140	0.220	0.923	0.97	86.1	1.10	79.3	0.54	4.89
16:45	16:45	6.50	36.4	32.5	7.4	98	34.8	0.99	0.010	1.130	0.223	0.919	1.01	99.0	1.08	91.1	0.52	5.15
17:15	17:15	7.00	36.4	32.2	7.4	101	34.8	1.01	0.011	1.100	0.302	0.858	1.20	100.0	1.10	92.0	0.61	5.46
17:45	17:45	7.50	36.4	31.9	7.4	106	34.8	1.00	0.012	1.130	0.297	0.861	1.06	106.0	1.09	97.5	0.67	5.79
18:15	18:15	8.00	36.5	31.5	7.5	105	34.8	1.00	0.015	1.110	0.328	0.825	1.10	105.0	1.09	96.6	0.71	6.14

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2636 DATE=02/22/96 ANIMAL/SIDE=96-67-5-L PHASE=2 FLAPWT=23.79 DOSETIME=9:59 GROUP=3 mg HD MEDVOL=526 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.98	35.3	35.3	7.4	48	33.9	0.99	0.002	1.120	0.137	0.723	0.34	48.7	1.00	48.1	0.99	0.01
9:15	9:15	-0.73	35.8	34.0	7.4	50	34.2	1.01	0.004	1.140	0.157	0.833	0.50	49.8	1.02	49.1	0.78	0.20
9:30	9:30	-0.48	36.2	32.8	7.4	52	34.4	0.99	0.003	1.130	0.172	0.897	0.73	52.5	1.00	51.8	0.58	0.35
9:45	9:45	-0.23	36.6	32.1	7.4	47	34.4	1.00	0.005	1.110	0.189	0.910	0.92	47.2	1.01	46.6	0.50	0.48
10:00	9:59	0.00	36.7	32.1	7.4	42	34.9	1.01	0.007	1.120	0.235	0.860	0.88	41.6	1.02	41.0	0.66	0.63
10:30	10:30	0.52	36.7	31.4	7.4	42	34.9	0.97	0.008	1.130	0.251	0.877	0.96	43.3	0.98	42.7	0.62	0.95
11:00	11:00	1.02	36.7	31.1	7.4	39	34.9	0.99	0.005	1.140	0.245	0.878	0.92	39.4	1.00	38.9	0.65	1.28
11:30	11:30	1.52	36.7	31.5	7.4	31	34.9	0.99	0.008	1.120	0.287	0.851	1.04	31.5	1.00	31.1	0.67	1.61
12:00	12:00	2.02	36.7	32.5	7.4	44	34.9	0.99	0.007	1.130	0.278	0.856	0.99	44.4	1.00	43.9	0.68	1.95
12:30	12:30	2.52	36.6	31.9	7.4	44	34.9	0.98	0.008	1.130	0.275	0.861	0.99	44.9	0.99	44.3	0.66	2.29
13:00	13:00	3.02	36.8	32.9	7.4	44	34.9	1.01	0.012	1.110	0.245	0.880	1.01	43.8	1.02	43.2	0.58	2.58
13:30	13:30	3.52	36.7	33.1	7.4	49	35.0	1.00	0.009	1.120	0.265	0.845	0.93	49.2	1.01	48.6	0.69	2.92
14:00	14:00	4.02	36.8	33.1	7.4	53	35.1	1.00	0.010	1.120	0.256	0.876	1.01	53.0	1.01	52.3	0.62	3.23
14:30	14:30	4.52	36.8	33.2	7.4	58	35.1	1.02	0.012	1.130	0.254	0.884	0.98	56.9	1.03	56.1	0.63	3.55
15:00	15:00	5.02	36.8	32.6	7.4	62	35.1	0.99	0.010	1.130	0.263	0.894	1.07	62.9	1.00	62.1	0.59	3.84
15:30	15:30	5.52	36.7	32.4	7.4	64	35.1	1.01	0.011	1.120	0.259	0.880	1.03	63.7	1.02	62.8	0.61	4.14
16:00	16:00	6.02	36.8	32.3	7.4	68	35.1	0.99	0.011	1.120	0.262	0.851	0.93	68.7	1.00	67.8	0.67	4.48
16:30	16:30	6.52	36.8	32.3	7.4	73	35.1	0.99	0.012	1.120	0.267	0.881	1.07	73.7	1.00	72.8	0.60	4.78
17:00	17:00	7.02	36.8	32.3	7.5	73	35.1	1.00	0.013	1.100	0.266	0.844	0.99	73.4	1.01	72.4	0.64	5.10
17:30	17:30	7.52	36.9	31.7	7.4	72	35.2	1.00	0.018	1.100	0.276	0.817	0.91	72.0	1.01	71.0	0.71	5.46
18:00	18:00	8.02	37.0	31.5	7.4	58	35.3	1.00	0.021	1.060	0.222	0.851	0.96	58.0	1.01	57.2	0.53	5.72

----- FLAPNO=2637 DATE=03/06/96 ANIMAL/SIDE=96-69-11-R PHASE=2 FLAPWT=27.5 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=486 NCSU=Yes -----																		
TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-0.97	35.9	33.9	7.4	32	34.6	0.99	0.002	1.140	0.153	0.628	0.29	32.5	0.92	34.7	1.10	0.01
9:15	9:15	-0.72	35.9	34.2	7.4	29	34.3	1.01	0.002	1.140	0.232	0.798	0.67	28.9	0.94	30.8	0.75	0.20
9:30	9:30	-0.47	36.1	33.8	7.4	30	34.4	1.03	0.005	1.150	0.301	0.802	0.85	29.3	0.96	31.3	0.78	0.39
9:45	9:45	-0.22	36.2	33.3	7.4	30	34.5	1.04	0.003	1.140	0.372	0.773	1.01	28.8	0.97	30.8	0.83	0.60
10:00	9:58	0.00	36.3	33.4	7.4	30	34.5	1.04	0.003	1.140	0.399	0.730	0.97	29.0	0.97	31.0	0.93	0.80
10:30	10:30	0.53	36.2	32.6	7.4	32	34.6	1.00	0.004	1.150	0.389	0.760	0.99	32.2	0.93	34.3	0.85	1.25
11:00	11:00	1.03	36.3	32.2	7.4	33	34.6	0.98	0.003	1.160	0.392	0.758	0.97	33.7	0.92	36.0	0.86	1.68
11:30	11:30	1.53	36.3	32.5	7.4	34	34.6	1.00	0.004	1.140	0.393	0.757	1.02	34.2	0.93	36.5	0.83	2.10
12:00	12:00	2.03	36.3	32.6	7.4	33	34.6	1.00	0.004	1.150	0.364	0.800	1.03	33.2	0.93	35.4	0.76	2.48
12:30	12:30	2.53	36.6	32.8	7.4	46	34.9	1.02	0.007	1.150	0.363	0.811	1.05	45.1	0.96	48.2	0.75	2.86
13:00	13:00	3.03	36.7	32.5	7.5	42	35.1	0.99	0.007	1.150	0.254	0.914	1.05	42.6	0.92	45.5	0.51	3.11
13:30	13:30	3.53	36.7	32.9	7.4	42	34.9	0.99	0.007	1.150	0.232	0.916	0.96	42.4	0.93	45.3	0.51	3.36
14:00	14:00	4.03	36.7	32.4	7.4	43	35.0	0.98	0.008	1.130	0.216	0.933	1.06	43.9	0.92	46.9	0.42	3.57
14:30	14:30	4.53	36.7	32.5	7.4	51	35.1	1.00	0.008	1.140	0.197	0.957	1.03	51.3	0.93	54.7	0.40	3.77
15:00	15:00	5.03	36.7	32.4	7.4	50	35.1	1.01	0.010	1.120	0.213	0.949	1.19	49.8	0.94	53.1	0.37	3.96
15:30	15:30	5.53	36.7	32.3	7.4	52	35.1	1.00	0.008	1.140	0.200	0.962	1.08	52.3	0.93	55.8	0.39	4.15

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2637 DATE=03/06/96 ANIMAL/SIDE=96-69-11-R PHASE=2 FLAPWT=27.5 DOSETIME=9:58 GROUP=3 mg HD MEDVOL=486 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
16:00	16:00	6.03	36.7	32.3	7.4	56	35.1	0.99	0.008	1.130	0.191	0.986	1.27	56.6	0.93	60.4	0.31	4.31
16:30	16:30	6.53	36.7	32.8	7.4	52	35.1	1.01	0.009	1.140	0.177	1.000	1.20	51.7	0.94	55.3	0.31	4.46
17:00	17:00	7.03	36.7	32.4	7.4	50	35.1	1.01	0.009	1.140	0.169	1.010	1.23	49.8	0.94	53.1	0.29	4.60
17:30	17:30	7.53	36.8	32.2	7.4	49	35.1	1.00	0.009	1.130	0.152	0.995	1.06	49.2	0.93	52.6	0.29	4.75
18:00	18:00	8.03	36.8	32.1	7.5	47	35.1	0.99	0.010	1.140	0.142	1.010	1.02	47.5	0.93	50.7	0.28	4.89

----- FLAPNO=2638 DATE=03/06/96 ANIMAL/SIDE=96-69-11-L PHASE=2 FLAPWT=29.16 DOSETIME=9:43 GROUP=3 mg HD MEDVOL=510 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
8:45	8:45	-0.97	36.3	38.8	7.4	51	34.9	1.01	0.004	1.140	0.112	0.547	0.18	50.7	0.99	51.6	1.23	0.01
9:00	9:00	-0.72	36.5	35.0	7.4	31	37.7	1.03	0.005	1.150	0.225	0.805	0.64	30.1	1.01	30.6	0.73	0.19
9:15	9:15	-0.47	37.6	34.6	7.4	26	35.8	1.03	0.003	1.140	0.300	0.815	0.91	25.4	1.01	25.8	0.69	0.36
9:30	9:30	-0.22	37.4	34.4	7.4	26	35.5	1.02	0.003	1.150	0.361	0.751	0.90	25.5	1.00	25.9	0.84	0.57
9:45	9:43	0.00	37.5	33.6	7.4	26	35.5	1.01	0.006	1.150	0.410	0.740	0.99	25.9	0.99	26.3	0.85	0.76
10:15	10:15	0.53	37.7	32.8	7.4	26	35.6	1.01	0.004	1.130	0.438	0.702	1.01	25.7	0.99	26.2	0.89	1.23
10:45	10:45	1.03	37.6	32.1	7.4	26	35.6	1.01	0.005	1.150	0.467	0.689	1.00	25.9	0.99	26.3	0.95	1.71
11:15	11:15	1.53	37.6	32.1	7.4	28	35.6	1.02	0.005	1.140	0.476	0.670	1.00	27.6	1.00	28.1	0.98	2.20
11:45	11:45	2.03	37.5	32.2	7.4	31	35.5	1.01	0.009	1.140	0.474	0.660	0.97	30.8	0.99	31.4	0.99	2.70
12:15	12:15	2.53	37.5	33.9	7.4	31	35.5	1.01	0.008	1.140	0.429	0.718	1.00	30.7	0.99	31.2	0.88	3.13
12:45	12:45	3.03	37.5	32.4	7.4	36	35.5	1.00	0.006	1.140	0.402	0.748	1.01	36.0	0.98	36.6	0.81	3.54
13:15	13:15	3.53	37.2	33.0	7.4	36	35.3	1.02	0.007	1.150	0.314	0.839	0.99	35.3	1.00	35.9	0.65	3.86
13:45	13:45	4.03	37.2	33.1	7.4	38	35.2	1.01	0.007	1.130	0.300	0.840	1.01	37.6	0.99	38.3	0.60	4.16
14:15	14:15	4.53	37.2	32.6	7.4	38	35.3	0.99	0.007	1.140	0.282	0.874	1.03	38.6	0.97	39.3	0.54	4.43
14:45	14:45	5.03	37.3	32.3	7.4	39	35.3	0.99	0.005	1.140	0.256	0.890	1.00	39.6	0.97	40.3	0.51	4.69
15:15	15:15	5.53	37.1	32.8	7.4	40	35.2	1.00	0.008	1.140	0.245	0.910	1.03	40.0	0.98	40.7	0.47	4.92
15:45	15:45	6.03	37.1	32.5	7.4	41	35.2	0.99	0.009	1.130	0.233	0.909	1.01	41.4	0.97	42.1	0.45	5.15
16:15	16:15	6.53	36.9	32.7	7.4	49	35.1	1.00	0.008	1.140	0.211	0.947	1.05	49.2	0.98	50.1	0.40	5.35
16:45	16:45	7.03	37.2	32.2	7.4	44	35.3	1.00	0.011	1.130	0.207	0.930	0.98	44.0	0.98	44.8	0.41	5.55
17:15	17:15	7.53	37.2	32.4	7.4	42	35.3	1.00	0.009	1.140	0.213	0.927	0.96	42.0	0.98	42.7	0.44	5.77
17:45	17:45	8.03	37.2	32.0	7.4	42	35.3	1.01	0.006	1.130	0.212	0.910	0.94	41.6	0.99	42.3	0.46	6.00

----- FLAPNO=2639 DATE=03/07/96 ANIMAL/SIDE=96-69-10-R PHASE=2 FLAPWT=29.31 DOSETIME=10:14 GROUP=3 mg HD MEDVOL=521 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:15	9:15	-0.98	35.9	32.8	7.4	32	34.1	1.01	0.004	0.960	0.178	0.628	0.52	31.8	1.01	31.7	0.68	0.01
9:30	9:30	-0.73	36.0	33.6	7.4	29	34.3	1.02	0.004	1.110	0.239	0.714	0.59	28.4	1.02	28.3	0.83	0.22
9:45	9:45	-0.48	36.1	33.1	7.4	45	34.3	0.99	0.005	1.120	0.288	0.761	0.79	45.5	0.99	45.3	0.73	0.40

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKROOT BSA

----- FLAPNO=2639 DATE=03/07/96 ANIMAL/SIDE=96-69-10-R PHASE=2 FLAPWT=29.31 DOSETIME=10:14 GROUP=3 mg HD MEDVOL=521 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
10:00	10:00	-0.23	36.2	32.1	7.4	33	34.4	1.03	0.006	1.110	0.283	0.797	0.88	32.0	1.03	31.9	0.66	0.56
10:15	10:14	0.00	36.1	32.5	7.4	31	34.3	1.03	0.006	1.110	0.330	0.751	0.90	30.2	1.03	30.1	0.75	0.74
10:45	10:45	0.52	36.3	32.2	7.4	27	34.4	1.00	0.009	1.120	0.394	0.688	0.89	27.1	1.00	27.0	0.88	1.19
11:15	11:15	1.02	36.3	31.8	7.4	26	34.4	1.00	0.011	1.120	0.431	0.669	0.93	26.0	1.00	25.9	0.92	1.66
11:45	11:45	1.52	36.3	31.6	7.4	27	34.4	1.01	0.014	1.130	0.441	0.654	0.90	26.9	1.01	26.8	0.98	2.15
12:15	12:15	2.02	36.3	32.5	7.4	33	34.5	1.00	0.011	1.130	0.439	0.669	0.93	33.0	1.00	32.9	0.94	2.62
12:45	12:45	2.52	36.6	32.1	7.4	36	34.7	0.98	0.015	1.120	0.372	0.742	0.94	36.9	0.98	36.8	0.75	2.99
13:15	13:15	3.02	36.6	31.9	7.4	41	34.7	1.01	0.012	1.120	0.315	0.803	0.96	40.6	1.01	40.4	0.66	3.32
13:45	13:45	3.52	36.6	31.4	7.4	51	34.7	1.00	0.014	1.120	0.239	0.863	0.88	51.0	1.00	50.8	0.53	3.59
14:15	14:15	4.02	36.6	31.9	7.4	46	34.7	1.01	0.015	1.120	0.243	0.867	0.90	45.8	1.01	45.6	0.52	3.85
14:45	14:45	4.52	36.6	32.0	7.4	47	34.7	1.01	0.015	1.130	0.242	0.878	0.90	46.8	1.01	46.6	0.52	4.10
15:15	15:15	5.02	36.6	32.0	7.4	50	34.7	1.01	0.014	1.130	0.242	0.887	0.94	49.8	1.01	49.6	0.50	4.35
15:45	15:45	5.52	36.6	31.9	7.4	52	34.7	1.00	0.015	1.110	0.230	0.888	0.97	52.0	1.00	51.8	0.45	4.58
16:15	16:15	6.02	36.6	30.6	7.4	53	34.7	0.98	0.015	1.130	0.226	0.886	0.86	54.1	0.98	53.9	0.49	4.83
16:45	16:45	6.52	36.6	31.5	7.4	54	34.7	0.98	0.015	1.110	0.227	0.883	0.93	54.4	0.98	54.2	0.45	5.05
17:15	17:15	7.02	36.5	31.5	7.4	54	34.6	1.01	0.014	1.120	0.225	0.917	1.04	53.5	1.01	53.3	0.42	5.26
17:45	17:45	7.52	36.4	30.7	7.4	54	34.6	0.99	0.015	1.110	0.231	0.907	1.06	54.5	0.99	54.3	0.41	5.47
18:15	18:15	8.02	36.4	30.8	7.5	54	34.6	0.99	0.019	1.110	0.224	0.892	0.94	54.5	0.99	54.3	0.44	5.69

----- FLAPNO=2640 DATE=03/07/96 ANIMAL/SIDE=96-69-10-L PHASE=2 FLAPWT=33.61 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=485 NCSU=Yes -----

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
9:00	9:00	-1.00	35.7	31.0	7.4	30	34.2	1.01	0.003	1.130	0.223	0.619	0.43	29.7	0.94	31.8	0.92	0.01
9:15	9:15	-0.75	36.1	31.4	7.4	27	34.5	0.99	0.007	1.130	0.315	0.668	0.67	27.4	0.92	29.3	0.81	0.21
9:30	9:30	-0.50	36.3	31.0	7.4	24	34.7	0.99	0.007	1.130	0.401	0.643	0.81	24.4	0.92	26.1	0.86	0.43
9:45	9:45	-0.25	36.5	31.1	7.4	25	34.7	1.02	0.008	1.130	0.472	0.598	0.87	24.5	0.95	26.2	0.97	0.67
10:00	10:00	0.00	36.5	30.5	7.4	27	34.7	1.04	0.006	1.130	0.506	0.572	0.90	26.0	0.97	27.8	1.04	0.93
10:30	10:30	0.50	36.8	30.7	7.4	30	34.7	0.98	0.008	1.120	0.544	0.545	0.93	30.6	0.92	32.8	1.01	1.43
11:00	11:00	1.00	36.8	30.4	7.4	28	35.1	1.00	0.008	1.120	0.577	0.529	0.96	28.1	0.93	30.1	1.05	1.96
11:30	11:30	1.50	36.8	31.3	7.4	26	34.9	1.00	0.010	1.130	0.589	0.533	0.97	26.0	0.93	27.8	1.07	2.49
12:00	12:00	2.00	36.8	30.6	7.4	34	35.1	0.99	0.011	1.140	0.454	0.685	0.97	34.3	0.93	36.8	0.80	2.89
12:30	12:30	2.50	36.9	31.7	7.4	36	35.1	0.99	0.012	1.140	0.452	0.677	0.95	36.5	0.92	39.1	0.81	3.30
13:00	13:00	3.00	36.9	33.2	7.4	40	35.1	1.01	0.013	1.120	0.406	0.711	0.96	39.6	0.94	42.4	0.74	3.67
13:30	13:30	3.50	36.7	34.0	7.4	43	35.1	1.00	0.014	1.110	0.338	0.776	0.97	43.2	0.93	46.2	0.59	3.96
14:00	14:00	4.00	36.9	33.6	7.4	46	35.3	0.99	0.014	1.120	0.313	0.823	1.01	46.7	0.92	50.0	0.52	4.22
14:30	14:30	4.50	37.0	33.1	7.4	44	35.3	1.00	0.015	1.120	0.228	0.890	0.93	44.2	0.93	47.3	0.41	4.43
15:00	15:00	5.00	37.0	33.4	7.4	49	35.3	1.01	0.014	1.120	0.206	0.912	0.92	48.5	0.94	51.9	0.38	4.62
15:30	15:30	5.50	37.0	32.7	7.4	47	35.3	1.00	0.015	1.110	0.239	0.890	1.02	47.0	0.93	50.3	0.39	4.81
16:00	16:00	6.00	37.1	32.5	7.4	47	35.3	1.00	0.015	1.100	0.226	0.916	1.15	47.2	0.93	50.5	0.33	4.98
16:30	16:30	6.50	37.0	31.6	7.4	48	35.4	1.02	0.017	1.110	0.250	0.901	1.11	47.1	0.95	50.4	0.38	5.17

TASK 92-31 DATA LISTING OF VIABLE FLAPS FOR EXPERIMENTS
USING ISLER GENETICS PIGS AND MALLENKRODT BSA

----- FLAPNO=2640 DATE=03/07/96 ANIMAL/SIDE=96-69-10-L PHASE=2 FLAPWT=33.61 DOSETIME=10:00 GROUP=3 mg HD MEDVOL=485 NCSU=Yes -----
(continued)

TARG TIME	ACTL TIME	REL- TIME	AIR TEMP	HUMI DITY	ART MEDPH	BP MEAN	MED TEMP	MEAN FLOW	LACT ATEA	DEXT ROSA	LACT ATEV	DEXT ROSV	LACT DEXT	VRE- SIST	ADJ FLOW	ADJ RESIS	GLUC UTIL	CUM GLUC
17:00	17:00	7.00	37.0	31.9	7.4	39	35.4	1.00	0.016	1.110	0.205	0.949	1.17	39.0	0.93	41.7	0.29	5.31
17:30	17:30	7.50	37.0	32.0	7.4	43	35.4	1.01	0.017	1.120	0.195	0.939	0.98	42.8	0.94	45.8	0.32	5.47
18:00	18:00	8.00	37.0	31.7	7.4	43	35.4	1.01	0.018	1.110	0.158	0.978	1.06	42.8	0.94	45.8	0.24	5.59