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**A Study to Determine  
The Feasibility of Establishing  
a Neonatal Step-down Unit  
at Eisenhower Army Medical Center  
Fort Gordon, Georgia**

**A Graduate Management Project  
Submitted to the Faculty of  
Baylor University  
in Partial Fulfillment of the  
Requirements for the Degree  
of  
Master of Health Administration  
by  
Major Stephen Wilkinson, MS**

**28 June 1993**

**Running Head: NEONATAL STEP-DOWN UNIT**

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I am grateful to the many members of the

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Abstract

This study determined the feasibility of establishing a neonatal step-down unit (neonatal feed and grow unit/level II nursery) at Eisenhower Army Medical Center to recapture Civilian Health and Medical Program of the Uniformed Services (CHAMPUS) monies currently paid to the Medical College of Georgia, Augusta, Georgia. The author conducted a literature review using resources at the Academy of Health Sciences (AHS), U.S. Army, Fort Gordon, and civilian institutions; interviewed subject matter experts (SME) at the Office of the Surgeon General (OTSG), Health Services Command (HSC), Eisenhower Army Medical Center (EAMC), and other Army and civilian medical treatment facilities (MTFs). He developed a conceptual model of a neonatal step-down program; surveyed a hospital ward with respect to its suitability for use as a neonatal step-down unit; and determined the financial/funding implications of the step-down unit under the current Department of Defense (DOD) allocation system. Finally, the author presented his conclusions and recommendations in regard to the feasibility of establishing a neonatal step-down unit at EAMC.

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Background Information

Eisenhower Army Medical Center (EAMC) is a 430-bed acute care facility which provides primary, secondary, and tertiary health care in medicine, surgery, psychiatry, clinical psychology, child/adolescent psychiatry, pediatrics, obstetrics and gynecology, and family practice.

This hospital's main objective is to provide comprehensive health care services of the highest quality in a compassionate and timely manner to an active and retired military, and dependent population of over 90,000. As the Southwest regional referral center, EAMC provides tertiary care for an estimated 1.5 million beneficiaries in Georgia Kentucky, Alabama, South Carolina, Florida, Mississippi, and Puerto Rico.

Eisenhower currently operates a level I nursery consisting of 10 bassinets, which provides service for uncomplicated deliveries and healthy newborns. Infants with signs of medical complications and infants who require long-term cardiac or ventilator care are transferred to the Medical College of Georgia (MCG) which operates a level III nursery.

Conditions Which Prompted the Study

The primary condition which prompted the

initiation of this study was the request by the EAMC Gateway to Care Steering Committee to form a subcommittee to study a proposal to establish a Southeast Regional Feed and Grow Neonatal Unit (neonatal step-down unit/level II nursery) at EAMC.

The Catchment Area Management Program initiative, which gives hospital commanders responsibility for CHAMPUS dollars spent in their area, has made the ability to efficiently use allocated resources more important. This study will attempt to save some of these resources by determining the feasibility of establishing a neonatal step-down unit to recapture CHAMPUS dollars currently paid to the Medical College of Georgia for neonatal care.

#### Problem Statement

To determine if the establishment of a neonatal step-down unit (level II nursery) at Eisenhower Army Medical Center, Fort Gordon, Georgia, will save CHAMPUS expenditures currently paid for neonatal services received from civilian medical treatment facilities in the EAMC region.

#### Literature Review

Definite gains have been made in the last twenty years in the treatment of critically ill infants. Consequently the cost of this treatment has risen

sharply (Ewald, 1991). For this reason it is important to define the different levels of neonatal care. The most cost effective care is care provided at the appropriate level in a timely manner. For instance, level II nursery care provides an increase in quality of care without the associated costs of a level III nursery (Health Care Advisory Board (HCAB), April 1991; Ewald, 1991).

#### Levels of Care

Level I neonatal care is provided to a neonate requiring minimal care such as intermittent gavage feeding and phototherapy. Level II care requires modalities such as intravenous services, electronic monitoring, oxygen, or recovery from intensive care. Level III care is given to children requiring mechanical ventilation, exchange transfusions, complete parenteral nutrition, and extensive diagnostic evaluations (Ewald, 1991).

Usually, hospitals require that level II care patients have no need for mechanical ventilation, and/or no need for pulmonary artery catheterization (Teres & Steingrub, 1987). Although organizations such as the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) do not provide definitions for all levels of care, most hospitals develop their own

(Lawless, Zaritsky, Phipps, & Riley-Lawless, 1991).

For instance, Wilford Hall United States Air Force Medical Center (WHMC) uses the following level of care definitions:

Level I: "Generally referred to as Term Nursery; provides transitional and routine nursing care for stable newborns."

Level II: "Houses infants who do not require intensive care but require 6-12 hours of nursing care per day."

Level III: "Highest level of medical and nursing care; delivers care to the most critically ill infants." (WHMC NICC OI 168-9, November 1991)

EAMC uses the following level of care definitions:

Level I: "Hospital provides service for uncomplicated deliveries and newborn infants."

Level II: "Hospital provides service for both normal and high risk obstetrical patients and the management of newborns with selected illnesses."

Level III: "Hospital functions as a regional referral center to provide all aspects of perinatal care to include intensive care and a broad range of continuously available subspecialty consultation."

(EAMC Newborn Nursery SOP V7, March 1992)

Cost of Care

As more infants are born with low birth weight and at a gestational age of 28 weeks or less, cost of perinatal care is continuing to run higher. The average patient in this category spends 10 days in the intensive care, 20 days in an intermediate care ward, and 50 days in level I care (Ewald, 1991).

Average fees for a neonatologist range from \$1,054 for a full-term infant with no complications, to \$12,088 for a premature infant weighing less than 1000 grams. The average neonatologist fee for an infant weighing 1500 to 2500 grams that does not require ventilation was 33% less than those needing ventilation. These fees doubled for infants weighing between 1000 to 1500 grams (Resnick et al, September 1988).

Samson (1991) estimates that the fixed cost for any nursing service is \$71,122, and the marginal cost estimate for neonates weighing less than 1500 grams is \$11,522. He estimates that the fixed cost for tertiary care institutions is \$92,214, with the marginal cost estimate \$16,141 per case.

Mehl (March 1992) reports that tertiary care institutions in the Colorado region cost an average of \$1500 per day for neonates requiring ventilation care.

This equates to over \$150,000 per case for an average hospital stay of 137 days.

Terres and Steingrub (1987) felt that if intermediate care was used instead of intensive care for appropriate cases, costs of nursing care would drop due to the ratio of 3-4 patients per nurse as opposed to the standard 1-2 patients per nurse found in most intensive care units. Ewald (1991) lists \$500 as the average daily cost of level II neonatal care.

Samson (March 1991) reports that the direct cost of nursing care was higher in hospitals that experienced higher incidence of low birth weight infants. Samson also found that teaching hospitals experienced a higher cost for direct nursing care due to increased numbers of orders and treatments associated with teaching institutions.

#### Level II Staffing

##### Physician Staffing Requirements

Most states require a neonatologist either on site or on call 24 hours per day for level II nurseries. The normal response time required of the neonatologist is between five to twenty minutes. In states that do not require a neonatologist on call, staff pediatricians must be on call 24 hours per day. Some states also require that the pediatricians on call have

experience in neonatology (HCAB, March 1990). The Georgia Council on Maternal and Infant Health has established guidelines, which are not legally binding, that suggest level II nurseries be covered by neonatologists on an on-call basis only (HCAB, January 1990).

#### Nurse Staffing Requirements

The Committee on Hospital Care and the Pediatric Section of the Society of Critical Care Medicine (1983) recommends a patient-to-nurse ratio of one registered nurse (RN) per three patients for level II nurseries.

Most of the hospitals from several states surveyed by the HCAB compared in staffing to the NAACOG recommended staffing ratio of one RN per 3-4 infants in a level II nursery (HCAB, March 1990 & January 1990).

Some hospitals surveyed were augmented by licensed practical nurses on the level II nursery staff.

#### Nursing Staff Training Requirements

McMullen (Spring 1991) states, "there is no substitute for education, training, supervision, and collaboration in any intensive care setting." Evidence of this opinion can be seen in the case of Edwards v. Our Lady of Lourdes Hospital, 526 A. 2d 242, 217 N.J. Super. 448 (1987). In this case, baby Eugene Edwards, a baby born at 27 weeks gestation. experienced a number

of mishaps due to inexperience of the attending staff of the hospital's neonatal intensive care unit.

Baby Eugene went without oxygen for five to seven minutes because no back-up oxygen was available for his ventilator. An unsupervised medical student performed a venous cutdown in a femoral area (an improper location) of this premature infant. The inexperienced nursing graduate on duty at the time did not question the procedure or the expertise of the medical student to perform the procedure. The baby's leg eventually developed gangrene and had to be amputated at the hip. At trial, the baby was awarded \$1,267,530 in compensatory damages (McMullen, Spring 1991).

The Committee on Hospital Care and the Pediatric Section of the Society of Critical Care Medicine (1983) recommends that all RNs in the level II nursery:

....be trained in pediatric resuscitation procedures, respiratory care, electronic patient monitoring, and perinatal intensive care unit equipment usage, and should be able to recognize the psychotic (sic) needs of patients and their families. Essential skills should also include the ability to recognize, interpret, and record the often fluctuating signs and symptoms of critically ill patients, administer drugs and

parenteral fluids and electrolytes, and perform specialized nursing procedure. An adequate period of orientation including 'on-the-job education', should be provided. (p. 756)

Strickley, Forste, and Ellerbrock (1987) echo this concern for professional development and education of the nursing staff by positing that the success of the level II nursing unit depends on these two important areas.

The HCAB found that 50% of the nurses providing level II nursing care had been trained in level III care in a number of hospitals they surveyed. Those nurses without level II experience attended between a two to six week series of classes. These classes were followed by several months of rotations through another hospital's level II nursery before assuming their duties. Completion of the American Academy of Pediatrics and the American Heart Association's "Neonatal Advance Life Support (NALS)" course is also normally required by most hospitals (HCAB, March 1990).

#### Purpose

The purpose is to determine the feasibility of establishing a neonatal step-down unit (level II nursery) at Eisenhower Army Medical Center, Fort Gordon, Georgia. Specifically, a cost/benefit analysis

was conducted using information from the Financial Analysis Support System (FASS).

#### Method and Procedures

The author conducted a literature review using resources at the Academy of Health Sciences, U.S. Army, Fort Gordon, and civilian institutions. The author used this information to further determine trends and developments in regard to neonatal intermediate care in the delivery of modern health care.

The author contacted the Office of the Surgeon General and Health Services Command to determine if regulations, guidelines, requirements, or restrictions exist, or are pending, that pertain to the establishment and operation of neonatal step-down units within the Army Medical Department. Also, this information was reviewed to identify problems associated with establishing and operating a neonatal step-down program.

Wilford Hall United States Air Force Medical Center (WHMC), Walter Reed Army Medical Center (WRAMC), Irwin Army Community Hospital (IACH), and University Hospital of Augusta were contacted to obtain copies of their operating procedures for use as a base from which to develop guidelines for the operation of a neonatal step-down program. Additionally, questions were asked

in an effort to ascertain common difficulties and to make an assessment of their implications to the EAMC scenario. Questions asked included but were not limited to the following:

1. What difficulties/problems were encountered by your facility when implementing the neonatal step-down nursery?
2. What training is required for nurses working in your neonatal step-down unit?
3. Was your respiratory therapy staff trained to work with neonates?
4. Are your nurses trained to set up oxygen hoods, monitoring equipment, infusion pumps, and ventilators?
5. Is your laboratory capable of performing micro laboratory procedures?
6. Is your radiology department accustomed to performing portable chest films and abdominal films on small infants?
7. Were any personnel in your hospital required to undergo additional training when you established the neonatal step-down unit?

Based on the literature review and interviews with key members of the medical, administrative, and nursing staffs, a conceptual model of a neonatal step-down program was developed.

In conjunction with nursing service representatives, a hospital ward was surveyed with respect to its suitability for use as the proposed neonatal step-down unit. Suitability was established using requirements established in the Georgia Guidelines for Level II Care.

The author also determined the financial/funding implications of the neonatal step-down program by comparing the current cost of providing services under the CHAMPUS Program to the estimated cost of the same services at EAMC.

Finally, conclusions were drawn with regard to the feasibility of establishing a neonatal step-down unit at EAMC and a recommendation formulated.

#### Results

This study determined that establishing a neonatal step-down unit at EAMC would not recapture enough of the CHAMPUS monies currently being paid to the Medical College of Georgia and other civilian MTFs for level II care of neonates in the Eisenhower region. The author found that the occupancy rate for such a unit during the first and subsequent years would need to be 91% and 77%, respectively. Historically, an occupancy rate over 75% for a neonatal step-down unit is unlikely.

Discussion

Contact with HSC and OTSG

Initial contact at HSC was with COL Nancy McFaddin, Senior Nursing Staff Officer, HSC Nursing Division. COL McFaddin knew of no HSC or OTSG regulations, guidelines, requirements, or restrictions pertaining to the establishment or operation of neonatal step-down units within the Army Medical Department. She provided the names of points of contact for neonatal step-down units within HSC and suggested I contact the OTSG Clinical Policy Division.

A representative from the OTSG Clinical Policy Division referred the author to COL Leonard Wiseman, the OTSG Neonatal Consultant. A telephonic interview with COL Wiseman revealed again that there is no official OTSG policy pertaining to the establishment and operation of neonatal step-down units. The decision to establish such a unit is left up to the MTF Commander's discretion.

Although no definitive guidance was found at HSC or OTSG, the representatives did share the opinion that neonatal step-down units were beneficial and saved money for the MTFs that have them.

Input from Hospitals with Neonatal Step-down Units

Other DOD and civilian medical treatment

facilities with existing level II neonatal programs were contacted to obtain copies of their operating procedures. These operating procedures were used as a base from which to develop guidelines for the operation of a neonatal step-down unit, and to ascertain common difficulties encountered.

Interviews with the head nurses of neonatal step-down units from WRAMC, IACH, WHMC, and the University Hospital of Augusta, revealed that training of neonatal step-down unit nursing personnel was their major concern. Each head nurse was of the opinion that completion of the "Neonatal Advance Life Support (NALS)" course should be required of nurses who staff level II nurseries. This course is a self-instructional course and requires completion of a written test and practical examination. The representatives of these facilities felt that this training course allowed their units to compensate for difficulties that sometimes arise, such as lack of immediate respiratory or laboratory technician support.

In addition to the above interviews, two initial interviews were conducted with Dr. David Harris, an endocrinologist, and Dr. Kenneth Azubuike, a neonatologist, both of St. Francis Hospital, Tulsa, Oklahoma. These gentlemen reported that level II care

has proven to be beneficial and has reduced costs at other facilities. The doctors also indicated that in many instances expectant mothers are more at ease with the knowledge that their child will be delivered at a hospital staffed to handle potential problems.

#### Conceptual Model

To facilitate the potential implementation of this neonatal step-down unit program, operational guidelines were established. Policies and procedures were developed for admission, transfer, and discharge for the nursery (see Appendix B) using copies of operating procedures from WHMC, WRAMC, IACH, and University Hospital of Augusta. Operating procedures were also developed for admission of infants requiring special considerations (see Appendix C).

#### Transportation

The Air Force C-9 transport system from Scott Air Force Base, Illinois could be used to transport level II neonate patients to EAMC. Currently, the Air Force does not charge DOD medical treatment facilities for the use of this system.

#### Ward Selection

In conjunction with SFC William J. Brennan, Wardmaster, Newborn Nursery, and Mr. Jack Keith, Engineer Liaison Officer, EAMC, the author conducted a

survey of room 6A-29. This room is adjacent to the current EAMC newborn nursery. The survey was conducted using the Guidelines for Perinatal Care and the Georgia Perinatal Guidelines as a reference (American Academy of Pediatrics and the American College of Obstetricians and Gynecologists (AAP/ACOG), 1992; The Georgia Department of Human Resources, 1987).

The Guidelines for Perinatal Care and the Georgia Perinatal Guidelines suggest eight electrical outlets, two oxygen outlets, two compressed air outlets, and two suction outlets per patient station. In addition, each electrical outlet should be connected to both regular and auxiliary power. The suggested floor space requirement is 4 feet between incubators/bassinets and 5 foot wide aisles.

Use of room 6A-29 would require no ward modification since it meets all of the above guidelines. Room 6A-29 is suitable for a level II nursery mission and could be used as depicted in Appendix D.

#### Cost Analysis

Appendix E is the cost analysis for this proposed intermediate care nursery. Since the impetus behind the establishment of the nursery was to save CHAMPUS dollars, a FASS computer run was obtained which showed

a CHAMPUS expenditure of \$2,644,523 for level II neonatal care in FY 1992 (Appendix G). A description of the diagnostic related groups (DRGs) found in the FASS computer run can be found in the CHAMPUS Policy Manual, Volume II, Chapter 3 (see extract provided in Appendix J). Subtracting the \$824,478 of billed institutional charges for what is normally level III care (labeled ICU/CCU on the FASS run; 31% of the total), and 31% of the total amount paid by the government for professional costs (\$347,304), leaves \$1,712,381 of level II neonatal care that is potentially recoverable in the EAMC region. Level I care was excluded by omitting Level I DRGs from the FASS run.

The expected CHAMPUS recovery of this proposed 4-bed Intermediate Care Nursery is \$547,500 per year at 75% occupancy (Appendix F). Total start-up cost for the first year is \$668,201 (Appendix E). The start-up cost includes equipment and staffing costs. The expected total costs for the first year is \$120,701. Less the equipment costs of \$107,966, the expected yearly CHAMPUS costs for subsequent years is \$12,735.

One other issue to consider is the third party insurance collection potential of this initiative. Although third party insurance collection will

fluctuate from year to year, there is definite potential for recovery of funds. For instance the FASS system shows that \$34,892 of the total amount paid by the government for neonatal care in 1992 was paid for families with other health insurance as the primary payor. In 1991 the total amount for all neonatal care was \$358,849. This equates to about \$243,130 in level I and II nursery charges over the two year period. The EAMC Patient Administrator estimates that 50% of billed charges are normally collected.

Since the proposed level II nursery would only operate 4 beds, the establishment of the nursery would not have a significant impact upon the hospital's respiratory therapy, laboratory, and radiology departments. The hours of coverage provided by these departments will not increase as a result of the establishment of the nursery. Also, level II RNs are capable of drawing blood to expedite laboratory requirements.

An increase in CHAMPUS costs of \$60,000 was assumed, due to the need for one staff pediatrician to actively participate in running the intermediate care nursery. This workload could be provided by a CHAMPUS partner (see Appendix H).

Recommendation

EAMC should not plan for the establishment of a neonatal step-down unit program at this time. Based upon the above discussion, the establishment of such a program does not appear feasible. The occupancy rate for the unit during the first and subsequent years would need to be 91% and 77%, respectively, just to break even.

References

- American Academy of Pediatrics and the American College of Obstetricians and Gynecologist. (1992).  
Guidelines for perinatal care Washington: Library of Congress.
- Azubuiké, K. 16 July 92 Personal Interview.
- CHAMPUS Policy Manual, Volume II, Chapter 3.
- Committee on Hospital Care and the Pediatric Section of the Society of Critical Care Medicine. (1983).  
Guidelines for pediatric intensive care units.  
Critical Care Medicine 11 (9), 753-760.
- Edwards v. Our Lady of Lourdes Hospital, 526 A. 2d 242, 217 N.J. Super. 448 (1987).
- Eisenhower Army Medical Center, Fort Gordon, GA:  
Standard Operating Procedure V7, Level of care provided in the newborn nursery. 7 March 1992.
- Ewald, U. (1991). What is the actual cost of neonatal intensive care? International Journal of Technology Assessment in Health Care 7 (1), 155-161.
- Georgia Department of Human Resources. (1987). Georgia Perinatal Guidelines.
- Harris, D.W. 16 July 92 Personal Interview.
- Health Care Advisory Board. (1991, April). Benefits of establishing a level II nursery (Neonatology No. 065-13-000). Washington, DC: Author.

- Health Care Advisory Board. (1990, March). Level 2 nurseries (Neonatology No. 065-07-000). Washington, DC: Author.
- Health Care Advisory Board. (1990, January). Staffing arrangements for level II nurseries at non-teaching community hospitals. (Neonatology No. 065-06-000). Washington, DC: Author.
- Lawless, S., Zaritsky, A., Phipps, J. & Riley-Lawless, K. (1991). Characteristics of pediatric intermediate care units in pediatric training programs. Critical Care Medicine, 1004-1007.
- McMullen, P. (1991, Spring). Intensive care means intensive training and intensive supervision. Nursing Connections 4 (1), 49-50.
- Mehl, A.L. (1992, March). The cost-benefit threshold [Letter to the editor]. Clinical Pediatrics, 190-191.
- Resnick, M.B., Ariet, M., Carter, R.L., Bucciarelli, R.L., Furlough, R.R., Evans, J.H., McCloud, A.J., Cruz, A.C., Curran, J.S., & Ausbon, W.W. (1988, September). Prospective pricing model for neonatologists and obstetricians in tertiary care centers. Pediatrics 82(3), 442-446.
- Samson, L.F. (1991, March). Predicting marginal cost of directing nursing care for newborns. JONA 21(3), 42-

47.

Strickley, C.S., Forste, N.T., & Ellerbrock, S.J.

(1987, October). Intermediate care - not a stepdown:

An overview. Nursing Management, 72A-72H.

Teres, D. & Steingrub, J. (1987). Can intermediate care

substitute for intensive care? Critical Care

Medicine, 280.

Wilford Hall USAF Medical Center, Lackland AFB, TX:

Neonatal Intensive Care Complex Operating

Instruction 168-9 Admission criteria for the

neonatal intensive care complex. 21 November 1991.

APPENDIX A  
DEFINITIONS

**DEFINITIONS**

**High risk infants:** patients born with conditions of prematurity, respiratory disorders, birth defects, fever, low blood count, or bacteria infections.

**High risk obstetrical patients:** patients with certain underlying medical conditions, to include, hypertension, diabetes, gestational diabetes, toxemia's, sickle cell disease, drug or alcohol abuse, or poor prenatal care. Advanced maternal age, teenage mothers, and known fetal anomalies or problems are also factors which will place a patient in this category.

**Intermittent gavage feeding:** interval forced feeding through a tube passed into the stomach.

**Normal obstetrical patient:** patients with no underlying medical problems, good prenatal care, normal laboratory studies, and no identifiable fetal problems.

**Social admissions:** well infants readmitted from home because of mother's medical condition.

**Uncomplicated deliveries:** Vaginal deliveries with no trauma or significant lacerations of the cervix.

**APPENDIX B**  
**STANDARD OPERATING PROCEDURE**  
**XXX1**

INTERMEDIATE CARE NURSERY  
DWIGHT DAVID EISENHOWER ARMY MEDICAL CENTER  
FORT GORDON, GEORGIA 30905-5650

Standard Operating  
Procedure XXXI

SUBJECT: Admission, Transfer, and Discharge for the Intermediate Care Nursery.

1. PURPOSE: To establish guidelines for admission, transfer (in-hospital), and discharge of patients for the Intermediate Care Nursery.

2. SCOPE: This policy applies to all health care team members assigned to the Intermediate Care Nursery.

3. RESPONSIBILITY:

a. Each individual assigned to the Intermediate Care Nursery will adhere to this policy.

b. The head nurse will orient all new nursing personnel to this policy.

c. The Chief, Newborn Services will orient all medical personnel to this policy.

4. ADMISSION CRITERIA:

a. Newborn infants may be admitted directly from Labor and Delivery, the Newborn Nursery, or the Operating Room.

b. Newborns may be transferred to EAMC's Intermediate Care Nursery from other hospitals' nurseries after being accepted by the Chief, Newborn Services in consultation with the Attending Pediatrician and Intermediate Care Nursery Head Nurse.

c. Newborns may be admitted to the nursery after an "outside" delivery at home, enroute to EAMC or in the emergency room. The physician on call will be notified about the admission as soon as possible.

d. All live born infants delivered at EAMC shall be admitted to the Newborn Nursery. Initial assessment and prenatal risk evaluation shall guide subsequent placement in the

**Standard Operating  
Procedure XXXI**

**SUBJECT: Admission, Transfer, and Discharge Policy and Procedure  
for the Intermediate Care Nursery**

**Intermediate Nursery or transfer to a Level III facility.  
Observation of the infants clinical course guides subsequent  
placement prior to discharge.**

**e. Neonates (birth to 28 days) - May be admitted from  
outside the hospital with approval from the Chief, Newborn  
Services in coordination with the head nurse of this service or  
their representative. Disapproval will be based on prohibiting  
factors referenced in the ADMISSION POLICY (INFANTS REQUIRING  
SPECIAL CONSIDERATIONS).**

**f. Social Admissions - Well infants readmitted from home  
because of mother's medical condition. These infants will be  
admitted for rooming-in with their mothers on approval by the  
Obstetric service in collaboration with the Postpartum Nursing  
Unit. The infant's care will be supervised by the Newborn  
Service physician and nursing staff. If the mother's condition  
precludes rooming-in the infant's admission to the intermediate  
care nursery will require approval of the Chief, Newborn Service  
or his/her representative in coordination with the head nurse of  
this service. See Policy for ADMISSION POLICY (INFANTS REQUIRING  
SPECIAL CONSIDERATION).**

**g. "High risk" infants will be transferred to a Level III  
facility, or admitted to the Intermediate Care Nursery from the  
delivery room, operating room, or outside the hospital based on  
the level of medical nursing care required. The following are  
guidelines for placement of these infants:**

**Transfer to Level III facility**

- (1) Clinically unstable infants who require vital  
signs and continuous observation by medical  
and/or nursing staff.**
- (2) Infant requiring more than 40% oxygen by hood  
or any type of mechanical ventilation.**
- (3) Weight less than 1.5 kilogram.**
- (4) Infants displaying significant apnea and  
bradycardia.**
- (5) Infants in an NPO status for over 24 hours or  
not tolerating feedings.**

Standard Operating  
Procedure XXX1

SUBJECT: Admission, Transfer, and Discharge Policy and Procedure  
for the Intermediate Care Nursery

- (6) Infants requiring parenteral nutrition or an intravenous solution greater than 10% Dextrose solution.
- (7) Potential medical diagnosis for these infants include.
  - Extra corporeal membrane oxygen candidates
  - Infants with gestation less than 36 weeks
  - Persistent respiratory distress
  - Persistent hypoglycemia
  - Hemolytic disease
  - Drug withdrawal
  - Infants of diabetic mothers
  - congenital anomalies requiring close observation or surgical care
  - Asphyxiated or infants with shock
  - Infants with impaired neurologic status; seizures
  - Cardiac disorders
  - Post operative infants
  - Physiologically unstable infants
  - Renal complications requiring peritoneal dialysis
  - Significant blood loss

Admission to Intermediate Care

- (1) Transfers from Level III facilities:
  - Clinically stable infants requiring vital signs every eight hours
  - Infants requiring no more than 40% oxygen therapy per hood
  - Weight greater than 1.5 kilograms
  - No significant apnea or bradycardia requiring bagging
  - Tolerating feedings
  - If not tolerating feeds, not NPO greater than 24 hours
  - Requiring IV therapy no greater than 10% dextrose

**Standard Operating**

**Procedure XXX1**

**SUBJECT: Admission, Transfer, and Discharge Policy and Procedure for the Intermediate Care Nursery**

**(2) Transfers from the Newborn Nursery:**

- Term infants requiring 5% Dextrose IV therapy for Glucose stabilization
- Term infants requiring increased observation for sepsis and prophylactic antibiotic therapy
- Term infants with increased oxygen needs of not more than 40% per hood

h. Infants over 28 days of age will be admitted to the Intermediate Care nursery for care which cannot or is not provided in the Newborn Nursery to the degree possible for optimal patient care. These admissions must be approved by the Chief, Newborn Services or his/her representative and coordinated with the Head Nurse, Newborn Nursery. This will remain an exception rather than the rule.

i. Infants considered for admission who are suspected of potential or diagnosed infectious disease processes - refer to **ADMISSION POLICY (INFANTS REQUIRING SPECIAL CONSIDERATION)**.

**5. IN HOUSE TRANSFER CRITERIA:**

Must be sufficiently broad to ensure optimal patient care for the entire patient population. This includes consideration of the physical environment, nursing, patient ratios, monitoring equipment and therapeutic requirements. In-house patient transfers must be fully discussed with the Chief of Service or representative and the Head nurse or representative of each unit involved prior to transfer to ensure that optimal age-specific patient care is continued until discharge.

**Transfers from the Intermediate Nursery to the Newborn Nursery or to Rooming In** - when vital signs are stable in an open crib, on room air, are nipping all feedings, are off intravenous fluids and have a weight of at least 1.7 kilograms. Oral medications, intravenous antibiotics, phototherapy for bilirubin less than 20mg/dl, pending consultations or diagnostic procedures are not contraindications for transfer to the Newborn Nursery if other criteria are met.

**Standard Operating**

**Procedure XXX1**

**SUBJECT: Admission, Transfer, and Discharge Policy and Procedure for the Intermediate Care Nursery**

**Transfer to the Pediatric Ward - May be considered for patients greater than 1 week of age and who do not require intensive care monitoring or support.**

**Transfer to the Pediatric Intermediate Care Unit - May be considered for patients greater than 28 days of age who require intermediate care. The motivation for these transfers may be the need for bed space for neonates born in this facility or transferred from other hospitals.**

**6. DISCHARGE CRITERIA:**

**a. Discharge from the Newborn/Intermediate care nurseries are allowed when the following criteria are fully met:**

**(1) Adequate feedings have been demonstrated when administered by the primary care taker or the method of feeding can be administered at the receiving medical facility.**

**(2) The infant is thermostable in an open crib or the receiving medical facility has the capability of continuing mechanical thermoregulatory support.**

**(3) All age-specific care requirements can be feasibly given at home or the receiving medical facility and any equipment required has been secured with appropriate operational instructions given to the care-giver.**

**(4) After psychosocial needs as well as a safe discharge environment have been addressed and issues that require further resolution have been referred to the appropriate agency for follow-up.**

**(5) Discharge physical, discharge instructions, discharge orders, discharge medications/equipment have all been completed or arranged.**

**(6) Follow-up care is ensured and possible for the family.**

**(7) Appropriate referrals have been arranged and reviewed with the family/care-giver.**

DEPARTMENT OF NURSING  
DWIGHT DAVID EISENHOWER ARMY MEDICAL CENTER  
FORT GORDON, GEORGIA 30905-5650

SOP# XXX1

APPROVED BY CLINICAL HEAD NURSE

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APPROVED BY CHIEF, NEWBORN SERVICES

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**APPENDIX C**  
**STANDARD OPERATING PROCEDURE**

**XXX2**

INTERMEDIATE CARE NURSERY  
DWIGHT DAVID EISENHOWER ARMY MEDICAL CENTER  
FORT GORDON, GEORGIA 30905-5650

Standard Operating  
Procedure XXX2

SUBJECT: Admission of Infants Requiring Special Consideration

1. PURPOSE: To establish a policy for the admission of those infants who require special consideration. To provide guidance for medical and nursing staff members in the categories of infant who may be admitted to the ward from sources outside EAMC and/or require implementation of precautions to prevent risk to other infants on the ward.

2. SCOPE: This policy applies to all medical and nursing staff assigned to the Intermediate Care Nursery. The Intermediate Care Nursery does not have an isolation room. This policy is to ensure that patients with known or suspected communicable or infectious disease and/or requiring protective isolation will be appropriately placed at EAMC. Appropriate placement will include isolation required and age-specific medical nursing care.

3. RESPONSIBILITY:

a. Each individual assigned to the Intermediate Care Nursery will familiarize themselves with this policy.

b. The Head Nurse or Wardmaster will orient new nursery staff to this policy.

c. The Chief, Newborn Service will orient all medical staff to this policy.

4. GENERAL:

a. The following categories of infants may be admitted or readmitted to the Intermediate Care Nursery after special consideration and approval of the Chief, Newborn Services or his/her representative.

- (1) Infants born under "unsterile" conditions (ie. mothers with suspected or proved infections, or out of hospital deliveries).
- (2) Infants transferred from another hospital's newborn service.
- (3) Infants readmitted after discharge.

**Standard Operating**

**Procedure XXX2**

**SUBJECT: Admission of Infants Requiring Special Consideration**

b. Infants, in category a. will be admitted using the routine intermediate care nursery admission policy. As with any infant admitted to the nursery, "universal precautions", to include good hand washing technique, will be instituted.

c. Infants in category b. & c. will be considered on a case by case basis. The following are to be considered, but are not all inclusive:

- (1) staffing: patient ratio/acuity
- (2) availability of beds
- (3) availability of required medical specialist (ie. pediatric surgeon, cardiologist, ect.)
- (4) availability of required support equipment/supplies (ie. HFV, Ventilators, etc.)
- (5) suspected or known infecting organism
- (6) the Intermediate Care Nursery does not have a designated isolation room

d. Infants in category b. & c. with a known or suspected infecting organism will be admitted to EAMC in a manner that will not jeopardize the health of infants with immature immune systems in the nursery. The following will be the stages of all admissions of this nature:

- (1) If intermediate care is not required, the infant will be admitted to the pediatric unit.
- (2) If intermediate care is required, the infant will be admitted to the pediatric intermediate unit. Medical management will be the responsibility of the Pediatric Department.
- (3) If the infant is harboring a known organism that requires no more than the standard universal precautions and meets all other admission criteria (ref. Admission, Transfer, and Discharge Policy), the infant may be admitted to the Intermediate Care Nursery if approved by the Chief, Newborn Services.

DEPARTMENT OF NURSING  
DWIGHT DAVID EISENHOWER ARMY MEDICAL CENTER  
FORT GORDON, GEORGIA 30905-5650

SOP# XXX2

APPROVED BY CLINICAL HEAD NURSE

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APPROVED BY CHIEF, NEWBORN SERVICES

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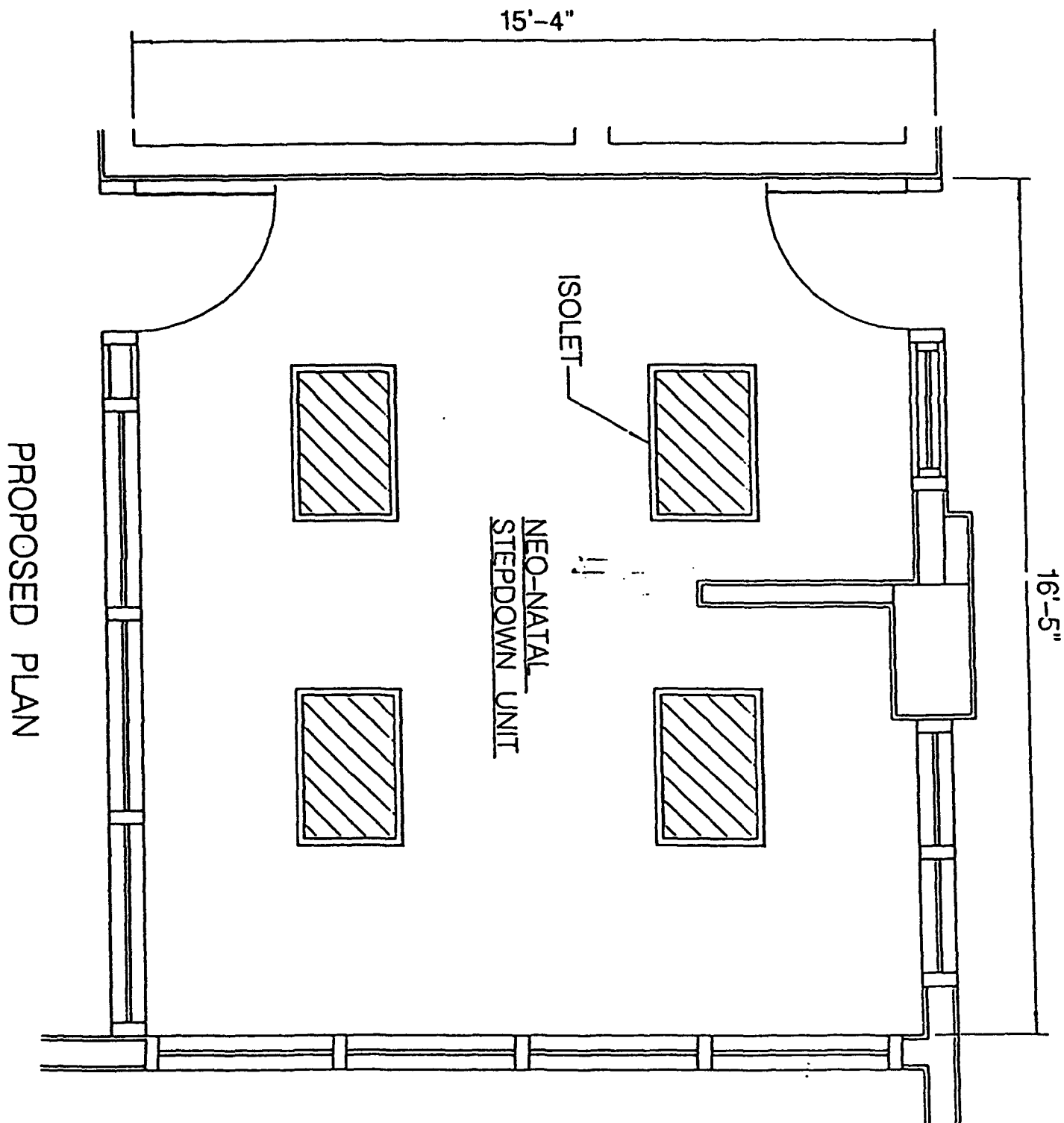
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APPENDIX D  
NEONATAL STEP-DOWN UNIT  
DIAGRAM

Neonatal Step-down Unit

37



APPENDIX E  
DETAILED COST ANALYSIS  
EAMC REGION  
NEONATAL STEP-DOWN UNIT

## Neonatal Step-down Unit

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### Detailed Cost Analysis - EAMC Region - Neonatal Step-down Unit

1. Potentially recoverable Level II costs in the EAMC Region (page 17): \$1,712,381

2. Expected recoverable CHAMPUS cost (Appendix F): \$547,500

Medical Treatment Facility (MTF) Impact: Cost to MTF to begin service.

3. \*Expected Increase: 54 neonatal level II admissions

4. Salaries of Intermediate Care Nursery Staff (Appendix H)  
\$500,235 + \$60,000 = \$560,235

5. Supplies and Equipment Costs (Appendix I): \$107,966

6. Ward Modifications: 0

7. Total MTF Cost (lines 4+5+6): \$668,201

8. Total expected savings (costs):

(line 2 - line 7)  
First Year  
(\$120,701)

(line 2 - line 4)  
Second Year  
(\$12,735)

\* 54 admissions equate to approximately 31% of the 174 regional Level II neonatal cases. (See Appendix G)

APPENDIX F

EXPECTED RECOVERABLE CHAMPUS COSTS

EXPECTED RECOVERABLE CHAMPUS COSTS

## Neonatal Step-down Unit

41

Average Intermediate Care Nursery bed days is 20 days.

$365/20 = 18.25$ , thus each intermediate care bassinet has a capacity of approximately 18.25 neonates per year.

$18.25 \times 4 \text{ bassinets} \times 20 \text{ bed days} = 1,460 \text{ available bed days per year}$

$\$500 \text{ average daily intermediate care cost} \times 1,460 \text{ available bed days} = \$730,000.$

\* Average occupancy rate for Intermediate Care Nursery is 75%.  
75% of \$730,000 is \$547,500.

\* Occupancy rates of the Level II nursery units at WRAMC, IACH, and University Hospital currently average 75%.

**APPENDIX G**  
**FINANCIAL ANALYSIS SUPPORT SYSTEM**  
**EAMC AND REGIONAL MTFs**

# Neonatal Step-down Unit

je No. 1  
11/93

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## EISENHOWER ARMY MEDICAL CENTER AND REGIONAL MTF'S

### NEONATAL CASES

| ICAL                    | PROVIDER | DATE      | DATE      | TOTAL AMT<br>PAID BY GOVT | TOTAL AMT<br>PAID BY GOVT | GOVT<br>PAID  | TOTAL AMT<br>BILLED FOR | BILLED<br>INST     | BILLED<br>INST     | BEN<br>FIC | BED CAT | PATIENT |           |
|-------------------------|----------|-----------|-----------|---------------------------|---------------------------|---------------|-------------------------|--------------------|--------------------|------------|---------|---------|-----------|
| NR                      | DRG ID   | ADMIN     | DISCHARGE | FOR ENTIRE<br>ENCOUNTER   | FOR ALL PROF<br>SERVICES  | TOTAL<br>INST | ALL INST<br>SERVICES    | MURSERY<br>CHARGES | ICU/CCU<br>CHARGES | DAYS       | GRY     | ID      |           |
| Fox AH Redstone Arsenal |          |           |           |                           |                           |               |                         |                    |                    |            |         |         |           |
| 92                      | 627      | 610711167 | 03/25/92  | 03/29/92                  | 3177                      | 694           | 2483                    | 5958               | 160                | 900        | 4       | 1       | 308958301 |
| 92                      | 619      | 630845288 | 05/26/92  | 06/03/92                  | 4170                      | 126           | 4044                    | 5982               | 3872               | 0          | 8       | 1       | 310848725 |
| 92                      | 618      | 630845288 | 02/03/92  | 02/24/92                  | 22631                     | 4933          | 17698                   | 27357              | 9680               | 5094       | 29      | 1       | 318142374 |
| 92                      | 626      | 630845288 | 10/05/91  | 10/14/91                  | 11172                     | 1473          | 9699                    | 8453               | 2420               | 2264       | 9       | 1       | 325317057 |
| 92                      | 607      | 630845288 | 06/11/92  | 07/03/92                  | 31591                     | 61            | 31530                   | 24092              | 18484              | 566        | 39      | 1       | 349074949 |
| 92                      | 618      | 630845288 | 05/28/92  | 06/02/92                  | 7780                      | 1226          | 6553                    | 5425               | 1452               | 1132       | 5       | 1       | 352767224 |
| 92                      | 617      | 610711167 | 03/21/92  | 04/17/92                  | 11178                     | 0             | 11178                   | 34796              | 0                  | 8100       | 27      | 1       | 354651393 |
| 92                      | 612      | 630845288 | 06/22/92  | 07/20/92                  | 14577                     | 2193          | 12384                   | 37502              | 16275              | 0          | 28      | 1       | 356325306 |
| 92                      | 627      | 630845288 | 07/28/92  | 08/06/92                  | 2664                      | 25            | 2639                    | 11139              | 4325               | 0          | 9       | 1       | 359342568 |
| Subtotal **             |          |           |           |                           | 108941                    | 10731         | 98209                   | 160704             | 56668              | 18056      | 158     |         |           |

# Neonatal Step-down Unit

D No. 2  
11/93

44

EISENHOWER ARMY MEDICAL CENTER  
AND REGIONAL MTF'S

## NEONATAL CASES

| CAL                   | PROVIDER      | DATE     | DATE      | TOTAL AMT    | TOTAL AMT    | GOVT   | TOTAL AMT  | BILLED  | BILLED  | BEN     |           |
|-----------------------|---------------|----------|-----------|--------------|--------------|--------|------------|---------|---------|---------|-----------|
| R                     | DRG ID        | ADMIN    | DISCHARGE | PAID BY GOVT | PAID BY GOVT | PAID   | BILLED FOR | INST    | INST    | FIC     |           |
|                       |               |          |           | FOR ENTIRE   | FOR ALL PROF | TOTAL  | ALL INST   | NURSERY | ICU/CCU | BED CAT | PATIENT   |
|                       |               |          |           | ENCOUNTER    | SERVICES     | INST   | SERVICES   | CHARGES | CHARGES | DAYS    | GRY ID    |
| Noble AN Ft McClellan |               |          |           |              |              |        |            |         |         |         |           |
| 12                    | 607 630312913 | 12/17/91 | 01/14/92  | 27705        | 6740         | 20965  | 34482      | 24645   | 0       | 28 1    | 323874756 |
| 12                    | 626 430654870 | 01/23/92 | 03/05/92  | 88145        | 6498         | 81647  | 184950     | 0       | 16030   | 42 1    | 325647213 |
| 12                    | 627 630312913 | 12/29/91 | 01/06/92  | 4656         | 1922         | 2734   | 13504      | 3040    | 0       | 8 1     | 325986867 |
| 12                    | 607 630312913 | 11/28/91 | 01/07/92  | 32461        | 918          | 31543  | 76146      | 35200   | 0       | 40 1    | 337678310 |
| 12                    | 612 630312913 | 04/15/92 | 05/06/92  | 15335        | 3850         | 11485  | 30639      | 18480   | 0       | 21 1    | 348580314 |
| 12                    | 613 630312913 | 12/15/91 | 01/03/92  | 16383        | 3837         | 12546  | 29076      | 16720   | 0       | 19 1    | 357432261 |
| Subtotal **           |               |          |           | 184686       | 23766        | 160919 | 368796     | 98085   | 16030   | 158     |           |

# Neonatal Step-down Unit

No. 3  
1/93

45

EISENHOWER ARMY MEDICAL CENTER  
AND REGIONAL MTF'S

## NEONATAL CASES

| AL                  | PROVIDER      | DATE OF ADMIN | DATE OF DISCHARGE | TOTAL AMT PAID BY GOVT FOR ENTIRE ENCOUNTER | TOTAL AMT PAID BY GOVT FOR ALL PROF SERVICES | GOVT PAID TOTAL INST | TOTAL AMT BILLED FOR ALL INST SERVICES | BILLED INST NURSERY CHARGES | BILLED INST ICU/CCU CHARGES | BEN FIC BED CAT PATIENT DAYS GRY ID |
|---------------------|---------------|---------------|-------------------|---------------------------------------------|----------------------------------------------|----------------------|----------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| Lyster AN Ft Rucker |               |               |                   |                                             |                                              |                      |                                        |                             |                             |                                     |
| 1                   | 627 636005396 | 02/08/92      | 02/13/92          | 3963                                        | 961                                          | 3002                 | 9547                                   | 0                           | 6960                        | 5 1 322866850                       |
| 1                   | 611 590634434 | 02/02/92      | 02/21/92          | 21291                                       | 2888                                         | 18403                | 14841                                  | 6215                        | 5008                        | 19 1 336358512                      |
| 1                   | 626 581685139 | 08/22/92      | 08/27/92          | 9447                                        | 17                                           | 9430                 | 6548                                   | 3000                        | 0                           | 5 1 342390150                       |
| 1                   | 611 590634434 | 02/03/92      | 02/22/92          | 28779                                       | 6463                                         | 22317                | 30258                                  | 13560                       | 8764                        | 38 1 343121487                      |
| Subtotal **         |               |               |                   | 63480                                       | 10329                                        | 53151                | 61194                                  | 22775                       | 20732                       | 67                                  |

# Neonatal Step-down Unit

1 No. 4  
11/93

46

## EISENHOWER ARMY MEDICAL CENTER AND REGIONAL MTF'S

### NEONATAL CASES

| CAL                            | PROVIDER      | DATE     | DATE      | TOTAL AMT    | TOTAL AMT    | GOVT   | TOTAL AMT  | BILLED  | BILLED  | BEN  |           |         |
|--------------------------------|---------------|----------|-----------|--------------|--------------|--------|------------|---------|---------|------|-----------|---------|
| R                              | DRG ID        | ADMIN    | DISCHARGE | PAID BY GOVT | PAID BY GOVT | PAID   | BILLED FOR | INST    | INST    | FIC  | BED CAT   | PATIENT |
|                                |               |          |           | FOR ENTIRE   | FOR ALL PROF | TOTAL  | ALL INST   | NURSERY | ICU/CCU |      | DAYS      | GRY ID  |
|                                |               |          |           | ENCOUNTER    | SERVICES     | INST   | SERVICES   | CHARGES | CHARGES |      |           |         |
| Eisenhower Army Medical Center |               |          |           |              |              |        |            |         |         |      |           |         |
| 2                              | 622 586002053 | 03/13/92 | 04/08/92  | 60862        | 5145         | 55717  | 107602     | 0       | 19080   | 26 1 | 323845934 |         |
| 2                              | 618 586002053 | 01/24/92 | 02/07/92  | 15523        | 2275         | 13248  | 16997      | 7465    | 1590    | 23 1 | 325929900 |         |
| 2                              | 616 586002053 | 01/25/92 | 02/14/92  | 27210        | 2498         | 24712  | 57950      | 3715    | 7155    | 20 1 | 325996435 |         |
| 2                              | 627 586002053 | 01/15/92 | 01/23/92  | 4251         | 874          | 3377   | 9050       | 0       | 6360    | 8 1  | 331484456 |         |
| 2                              | 621 586002053 | 02/28/92 | 03/04/92  | 1817         | 353          | 1464   | 2961       | 1670    | 0       | 5 1  | 342484341 |         |
| 2                              | 614 586002053 | 02/26/92 | 03/05/92  | 5222         | 224          | 4999   | 4704       | 3000    | 0       | 8 1  | 346117778 |         |
| 2                              | 627 586002053 | 02/14/92 | 02/29/92  | 7311         | 1803         | 5508   | 25608      | 0       | 1500    | 15 1 | 348292421 |         |
| 2                              | 626 586002053 | 02/05/92 | 02/09/92  | 12345        | 157          | 12188  | 10769      | 0       | 3180    | 4 1  | 354292011 |         |
| 2                              | 607 586002053 | 05/03/92 | 05/10/92  | 25891        | 0            | 25891  | 10513      | 0       | 5565    | 7 1  | 354525703 |         |
| Subtotal **                    |               |          |           | 160433       | 13329        | 147103 | 246155     | 15850   | 44430   | 116  |           |         |

## Neonatal Step-down Unit

No. 5  
1/93

47

EISENHOWER ARMY MEDICAL CENTER  
AND REGIONAL MTF'S

## NEONATAL CASES

| AL                   | PROVIDER      | DATE OF ADMIN | DATE OF DISCHARGE | TOTAL AMT PAID BY GOVT FOR ENTIRE ENCOUNTER | TOTAL AMT PAID BY GOVT FOR ALL PROF SERVICES | GOVT PAID TOTAL INST | TOTAL AMT BILLED FOR ALL INST SERVICES | BILLED INST NURSERY CHARGES | BILLED INST ICU/CCU CHARGES | BEN FIC BED CAT PATIENT DAYS GRY ID |
|----------------------|---------------|---------------|-------------------|---------------------------------------------|----------------------------------------------|----------------------|----------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| Martin AM Ft Benning |               |               |                   |                                             |                                              |                      |                                        |                             |                             |                                     |
| 2                    | 626 580572412 | 10/15/91      | 10/20/91          | 17161                                       | 1021                                         | 16140                | 6466                                   | 0                           | 1560                        | 5 1 301054754                       |
| 2                    | 611 576000722 | 10/24/91      | 11/04/91          | 29015                                       | 1002                                         | 28013                | 16956                                  | 6342                        | 4500                        | 11 1 308460709                      |
| 2                    | 626 580572412 | 01/15/92      | 02/21/92          | 44842                                       | 2844                                         | 41998                | 58837                                  | 0                           | 35040                       | 37 1 308652963                      |
| 2                    | 627 141338307 | 01/02/92      | 01/12/92          | 6221                                        | 2507                                         | 3714                 | 17314                                  | 4800                        | 5525                        | 10 1 311160961                      |
| 2                    | 607 581685139 | 03/28/92      | 04/22/92          | 22089                                       | 2139                                         | 19949                | 26974                                  | 15000                       | 0                           | 25 1 324121127                      |
| 2                    | 621 581685139 | 07/24/92      | 07/28/92          | 1132                                        | 0                                            | 1132                 | 2249                                   | 780                         | 0                           | 4 1 324698835                       |
| 2                    | 612 581685139 | 10/07/91      | 10/24/91          | 17911                                       | 2618                                         | 15293                | 36444                                  | 5400                        | 4800                        | 17 1 324839207                      |
| 2                    | 623 580572412 | 05/18/92      | 05/27/92          | 22764                                       | 5696                                         | 17068                | 21762                                  | 0                           | 3440                        | 9 1 325041249                       |
| 2                    | 612 581954432 | 06/25/92      | 07/24/92          | 32581                                       | 1324                                         | 31256                | 75655                                  | 5665                        | 16986                       | 29 1 325753267                      |
| 2                    | 614 581685139 | 06/24/92      | 06/28/92          | 4367                                        | 500                                          | 3867                 | 2591                                   | 1185                        | 0                           | 4 1 326135875                       |
| 2                    | 607 581685139 | 03/27/92      | 05/08/92          | 46655                                       | 6756                                         | 39899                | 80911                                  | 22800                       | 25200                       | 80 1 326615478                      |
| 2                    | 627 581685139 | 10/22/91      | 10/31/91          | 2627                                        | 0                                            | 2627                 | 6007                                   | 0                           | 0                           | 9 1 335772046                       |
| 2                    | 626 381360529 | 04/24/92      | 05/01/92          | 13772                                       | 1627                                         | 12145                | 17657                                  | 0                           | 6685                        | 7 1 338476374                       |
| 2                    | 623 581685139 | 11/04/91      | 11/13/91          | 13809                                       | 3834                                         | 9976                 | 12357                                  | 0                           | 3000                        | 9 1 342082579                       |
| 2                    | 622 580572412 | 02/06/92      | 02/15/92          | 45606                                       | 10559                                        | 35048                | 37355                                  | 0                           | 7640                        | 9 1 342088929                       |
| 2                    | 626 580572412 | 02/20/92      | 03/01/92          | 17206                                       | 1111                                         | 16095                | 20505                                  | 0                           | 8120                        | 10 1 342088929                      |
| 2                    | 614 581685139 | 11/12/91      | 11/19/91          | 4555                                        | 688                                          | 3867                 | 2296                                   | 1770                        | 0                           | 7 1 342192031                       |
| 2                    | 626 581954432 | 01/24/92      | 04/07/92          | 81293                                       | 10216                                        | 71077                | 139224                                 | 40239                       | 16092                       | 74 1 342711011                      |
| 2                    | 627 581685139 | 10/05/91      | 10/11/91          | 3436                                        | 810                                          | 2626                 | 10707                                  | 3600                        | 0                           | 6 1 343645675                       |
| 2                    | 626 580572412 | 10/13/91      | 10/22/91          | 17359                                       | 1255                                         | 16104                | 32050                                  | 0                           | 12105                       | 9 1 343925279                       |
| 2                    | 607 581685139 | 10/22/91      | 11/23/91          | 29455                                       | 4980                                         | 24475                | 60798                                  | 19200                       | 0                           | 32 1 343925279                      |
| 2                    | 626 720408982 | 01/25/92      | 02/21/92          | 51175                                       | 1212                                         | 49963                | 99968                                  | 0                           | 17010                       | 27 1 345151563                      |
| 2                    | 627 581685139 | 03/27/92      | 04/09/92          | 3806                                        | 1193                                         | 2613                 | 19163                                  | 0                           | 6000                        | 13 1 346333776                      |
| 2                    | 622 581685139 | 05/10/92      | 05/19/92          | 23592                                       | 3125                                         | 20467                | 14898                                  | 5400                        | 0                           | 9 1 349584824                       |
| 2                    | 613 581685139 | 12/02/91      | 12/08/91          | 7724                                        | 962                                          | 6763                 | 12728                                  | 3600                        | 0                           | 6 1 349870764                       |
| 2                    | 611 581685139 | 09/26/91      | 10/07/91          | 15621                                       | 1753                                         | 13868                | 13202                                  | 6600                        | 0                           | 11 1 350390473                      |
| 2                    | 611 581685139 | 03/09/92      | 03/25/92          | 20095                                       | 2416                                         | 17679                | 31604                                  | 9600                        | 0                           | 16 1 350508556                      |
| 2                    | 614 581685139 | 09/30/91      | 10/11/91          | 4737                                        | 1041                                         | 3696                 | 8223                                   | 6600                        | 0                           | 11 1 350856834                      |
| 2                    | 614 581954432 | 07/10/92      | 08/01/92          | 4240                                        | 136                                          | 4104                 | 19489                                  | 11258                       | 894                         | 22 1 352192796                      |
| 2                    | 626 581954432 | 01/04/92      | 01/15/92          | 11556                                       | 1206                                         | 10350                | 13007                                  | 6031                        | 894                         | 11 1 355033584                      |
| 2                    | 619 581685139 | 12/08/91      | 12/13/91          | 4561                                        | 594                                          | 3967                 | 2326                                   | 1380                        | 0                           | 5 3 357208447                       |
| 2                    | 627 581685139 | 02/18/92      | 02/22/92          | 3295                                        | 682                                          | 2613                 | 3465                                   | 0                           | 600                         | 4 1 357621888                       |
| 2                    | 618 581685139 | 09/29/91      | 10/03/91          | 6191                                        | 0                                            | 6191                 | 6118                                   | 0                           | 2400                        | 4 1 357698095                       |
| 2                    | 619 581954432 | 04/21/92      | 04/28/92          | 5389                                        | 1041                                         | 4349                 | 8257                                   | 3608                        | 0                           | 7 1 358285356                       |
| Subtotal **          |               |               |                   | 635841                                      | 76849                                        | 558993               | 937563                                 | 180858                      | 178491                      | 549                                 |

## Neonatal Step-down Unit

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05/11/93

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EISENHOWER ARMY MEDICAL CENTER  
AND REGIONAL MTF'S

## NEONATAL CASES

| FISCAL YEAR           | PROVIDER DRG ID | DATE OF ADMIN | DATE OF DISCHARGE | TOTAL AMT PAID BY GOVT FOR ENTIRE ENCOUNTER | TOTAL AMT PAID BY GOVT FOR ALL PROF SERVICES | GOVT PAID TOTAL INST | TOTAL AMT BILLED FOR ALL INST SERVICES | BILLED INST MURSEY CHARGES | BILLED INST ICU/CCU CHARGES | BEN FIC BED CAT DAYS | PATIENT ID |
|-----------------------|-----------------|---------------|-------------------|---------------------------------------------|----------------------------------------------|----------------------|----------------------------------------|----------------------------|-----------------------------|----------------------|------------|
| ** Winn AM Ft Stewart |                 |               |                   |                                             |                                              |                      |                                        |                            |                             |                      |            |
| 1992                  | 621 311126469   | 07/16/92      | 07/23/92          | 2049                                        | 801                                          | 1248                 | 7370                                   | 0                          | 3644                        | 7 1                  | 301848799  |
| 1992                  | 627 580568702   | 12/26/91      | 01/01/92          | 3349                                        | 811                                          | 2539                 | 3764                                   | 0                          | 0                           | 6 1                  | 306260665  |
| 1992                  | 627 580593388   | 01/08/92      | 01/13/92          | 2738                                        | 481                                          | 2258                 | 3412                                   | 220                        | 1720                        | 5 1                  | 307454558  |
| 1992                  | 626 311126469   | 06/21/92      | 06/28/92          | 11311                                       | 1008                                         | 10304                | 18702                                  | 0                          | 1822                        | 7 1                  | 307656539  |
| 1992                  | 607 311126469   | 02/21/92      | 04/03/92          | 21675                                       | 150                                          | 21525                | 55887                                  | 0                          | 8199                        | 42 1                 | 307860744  |
| 1992                  | 626 311126469   | 11/07/91      | 11/18/91          | 12380                                       | 2112                                         | 10268                | 19926                                  | 0                          | 3360                        | 11 1                 | 311264662  |
| 1992                  | 613 580593388   | 10/17/91      | 11/12/91          | 6841                                        | 997                                          | 5843                 | 13575                                  | 0                          | 10660                       | 26 1                 | 311368983  |
| 1992                  | 614 580568702   | 06/09/92      | 06/22/92          | 4446                                        | 765                                          | 3681                 | 3980                                   | 3380                       | 0                           | 13 1                 | 314560623  |
| 1992                  | 626 311126469   | 10/02/91      | 10/09/91          | 11279                                       | 976                                          | 10304                | 8226                                   | 0                          | 840                         | 7 1                  | 314742061  |
| 1992                  | 626 311126469   | 12/29/91      | 01/30/92          | 27614                                       | 452                                          | 27162                | 53813                                  | 0                          | 18975                       | 32 1                 | 314966434  |
| 1992                  | 626 581091080   | 05/06/92      | 05/11/92          | 11196                                       | 1628                                         | 9569                 | 9173                                   | 0                          | 2930                        | 5 1                  | 315664795  |
| 1992                  | 627 580568702   | 01/14/92      | 01/24/92          | 3249                                        | 746                                          | 2503                 | 7214                                   | 4250                       | 0                           | 10 1                 | 316056317  |
| 1992                  | 616 311126469   | 01/14/92      | 03/30/92          | 130114                                      | 16442                                        | 113671               | 202930                                 | 0                          | 25508                       | 76 1                 | 321060093  |
| 1992                  | 627 311126469   | 04/30/92      | 05/06/92          | 3654                                        | 842                                          | 2811                 | 6069                                   | 0                          | 0                           | 6 1                  | 321506527  |
| 1992                  | 627 311126469   | 01/11/92      | 01/15/92          | 3047                                        | 207                                          | 2840                 | 1376                                   | 0                          | 0                           | 4 1                  | 323196239  |
| 1992                  | 626 311126469   | 01/26/92      | 01/30/92          | 11441                                       | 1138                                         | 10304                | 4724                                   | 0                          | 911                         | 4 1                  | 324751697  |
| 1992                  | 627 580568702   | 12/19/91      | 12/23/91          | 2540                                        | 0                                            | 2540                 | 1430                                   | 880                        | 0                           | 4 1                  | 324915246  |
| 1992                  | 621 311126469   | 06/30/92      | 07/11/92          | 7354                                        | 2015                                         | 5339                 | 12461                                  | 0                          | 4122                        | 22 1                 | 325031787  |
| 1992                  | 621 580568702   | 12/06/91      | 12/10/91          | 1519                                        | 432                                          | 1087                 | 1570                                   | 880                        | 0                           | 4 1                  | 325041380  |
| 1992                  | 627 311126469   | 12/16/91      | 12/20/91          | 3574                                        | 734                                          | 2840                 | 1743                                   | 0                          | 0                           | 4 1                  | 325127219  |
| 1992                  | 626 311126469   | 11/21/91      | 12/01/91          | 12679                                       | 2402                                         | 10277                | 23936                                  | 1260                       | 5880                        | 10 1                 | 325149137  |
| 1992                  | 627 580593388   | 10/27/91      | 11/02/91          | 2922                                        | 664                                          | 2258                 | 4294                                   | 210                        | 2050                        | 6 1                  | 325382068  |
| 1992                  | 613 311126469   | 04/10/92      | 04/27/92          | 8412                                        | 1122                                         | 7290                 | 12572                                  | 0                          | 0                           | 17 1                 | 325606769  |
| 1992                  | 626 311126469   | 10/14/91      | 10/21/91          | 11686                                       | 1409                                         | 10277                | 20026                                  | 0                          | 5880                        | 7 1                  | 325747690  |
| 1992                  | 607 311126469   | 03/28/92      | 04/16/92          | 21115                                       | 886                                          | 20229                | 14818                                  | 0                          | 911                         | 19 1                 | 325847060  |
| 1992                  | 607 580568702   | 04/16/92      | 04/27/92          | 20153                                       | 664                                          | 19489                | 5457                                   | 4675                       | 0                           | 11 1                 | 325847060  |
| 1992                  | 627 311126469   | 07/23/92      | 07/31/92          | 3793                                        | 959                                          | 2834                 | 18544                                  | 0                          | 5466                        | 8 1                  | 325872273  |
| 1992                  | 619 311126469   | 04/19/92      | 04/29/92          | 4720                                        | 433                                          | 4287                 | 5171                                   | 0                          | 0                           | 10 1                 | 326589603  |
| 1992                  | 621 311126469   | 12/26/91      | 01/06/92          | 1816                                        | 646                                          | 1170                 | 8389                                   | 0                          | 0                           | 11 1                 | 326657556  |
| 1992                  | 614 311126469   | 08/09/92      | 08/14/92          | 3133                                        | 294                                          | 2839                 | 7091                                   | 0                          | 1822                        | 5 1                  | 327482399  |
| 1992                  | 612 311126469   | 11/14/91      | 11/29/91          | 15528                                       | 3653                                         | 11875                | 26065                                  | 4200                       | 4200                        | 15 1                 | 327672557  |
| 1992                  | 627 580568702   | 05/10/92      | 05/21/92          | 2494                                        | 0                                            | 2494                 | 8882                                   | 0                          | 0                           | 11 1                 | 328574283  |
| 1992                  | 613 311126469   | 06/06/92      | 06/21/92          | 7708                                        | 400                                          | 7308                 | 16220                                  | 0                          | 2733                        | 15 1                 | 330266500  |
| 1992                  | 614 311126469   | 07/14/92      | 07/25/92          | 4928                                        | 738                                          | 4190                 | 7873                                   | 0                          | 911                         | 11 1                 | 332254807  |
| 1992                  | 621 311126469   | 05/23/92      | 05/27/92          | 1536                                        | 319                                          | 1217                 | 4438                                   | 0                          | 911                         | 4 1                  | 334554761  |
| 1992                  | 627 580593388   | 04/24/92      | 04/28/92          | 868                                         | 126                                          | 742                  | 2053                                   | 880                        | 0                           | 4 1                  | 335958122  |
| 1992                  | 626 580568702   | 01/04/92      | 01/11/92          | 11279                                       | 2083                                         | 9196                 | 4474                                   | 2975                       | 0                           | 7 1                  | 340821983  |
| 1992                  | 626 311126469   | 02/12/92      | 04/05/92          | 44652                                       | 5901                                         | 38751                | 48521                                  | 23816                      | 911                         | 53 1                 | 341423202  |
| 1992                  | 614 311126469   | 10/30/91      | 11/05/91          | 3806                                        | 414                                          | 3393                 | 4409                                   | 0                          | 0                           | 6 1                  | 341811961  |
| 1992                  | 613 311126469   | 11/19/91      | 11/29/91          | 7399                                        | 132                                          | 7267                 | 5347                                   | 4200                       | 0                           | 10 1                 | 342013580  |
| 1992                  | 613 311126469   | 11/19/91      | 11/28/91          | 9314                                        | 1979                                         | 7335                 | 4394                                   | 3580                       | 0                           | 9 1                  | 342013580  |

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## NEONATAL CASES

| FISCAL         | PROVIDER | DATE      | DATE      | TOTAL AMT    | TOTAL AMT    | GOVT  | TOTAL AMT  | BILLED  | BILLED  | BEN     |         |           |
|----------------|----------|-----------|-----------|--------------|--------------|-------|------------|---------|---------|---------|---------|-----------|
| YEAR           | DRG ID   | OF        | OF        | PAID BY GOVT | PAID BY GOVT | PAID  | BILLED FOR | INST    | INST    | FIC     |         |           |
|                |          | ADMIN     | DISCHARGE | FOR ENTIRE   | FOR ALL PROF | TOTAL | ALL INST   | NURSERY | ICU/CCU | BED CAT | PATIENT |           |
|                |          |           |           | ENCOUNTER    | SERVICES     | INST  | SERVICES   | CHARGES | CHARGES | DAYS    | GRY ID  |           |
| 1992           | 627      | 586000433 | 01/21/92  | 02/05/92     | 3278         | 1008  | 2270       | 8882    | 3100    | 0       | 15 1    | 342506784 |
| 1992           | 607      | 311126469 | 02/06/92  | 02/11/92     | 5429         | 93    | 5336       | 4308    | 0       | 0       | 5 1     | 343513429 |
| 1992           | 607      | 580593388 | 02/11/92  | 02/28/92     | 15428        | 1064  | 14364      | 8523    | 0       | 7310    | 17 1    | 343513429 |
| 1992           | 613      | 581091080 | 04/17/92  | 04/22/92     | 6888         | 19    | 6870       | 5031    | 0       | 2680    | 5 1     | 343931248 |
| 1992           | 618      | 580593388 | 06/03/92  | 06/25/92     | 8634         | 3027  | 5608       | 21435   | 220     | 9030    | 22 1    | 344770203 |
| 1992           | 626      | 311126469 | 11/26/91  | 12/04/91     | 11704        | 1437  | 10268      | 15900   | 1900    | 2520    | 8 1     | 345173380 |
| 1992           | 623      | 311126469 | 07/21/92  | 07/29/92     | 13106        | 2158  | 10948      | 13912   | 0       | 4555    | 8 1     | 346735994 |
| 1992           | 626      | 581581103 | 08/31/91  | 11/08/91     | 66274        | 12940 | 53334      | 102740  | 13470   | 29250   | 69 1    | 348580863 |
| 1992           | 627      | 311126469 | 12/15/91  | 12/24/91     | 5045         | 2261  | 2784       | 16548   | 1300    | 3360    | 9 1     | 349790017 |
| 1992           | 626      | 311126469 | 10/20/91  | 10/30/91     | 13782        | 2358  | 11424      | 28288   | 0       | 6720    | 10 1    | 351064739 |
| 1992           | 621      | 581034851 | 12/10/91  | 12/23/91     | 10872        | 2554  | 8318       | 12285   | 226     | 7219    | 15 1    | 354282503 |
| 1992           | 619      | 311126469 | 03/23/92  | 03/31/92     | 4526         | 221   | 4305       | 5311    | 0       | 0       | 8 1     | 356975983 |
| 1992           | 613      | 580568702 | 03/31/92  | 04/07/92     | 7795         | 1217  | 6578       | 3989    | 0       | 0       | 7 1     | 356975983 |
| 1992           | 627      | 580568702 | 05/16/92  | 05/21/92     | 3716         | 1195  | 2521       | 3572    | 2125    | 0       | 5 1     | 358464502 |
| 1992           | 607      | 311126469 | 11/26/91  | 01/01/92     | 26469        | 4891  | 21578      | 32404   | 14280   | 1680    | 36 1    | 358905335 |
| 1992           | 627      | 580593388 | 10/09/91  | 10/19/91     | 2258         | 0     | 2258       | 5689    | 630     | 2870    | 10 1    | 358920393 |
| 1992           | 607      | 581034851 | 03/06/92  | 04/30/92     | 28995        | 312   | 28683      | 40732   | 0       | 26726   | 55 1    | 359412884 |
| ** Subtotal ** |          |           |           |              |              |       |            |         |         |         |         |           |
|                |          |           |           |              | 715510       | 94716 | 620795     | 1019871 | 92657   | 218286  | 848     |           |

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## NEONATAL CASES

| FISCAL YEAR                   | PROVIDER DRG ID | DATE OF ADMIN | DATE OF DISCHARGE | TOTAL AMT PAID BY GOVT FOR ENTIRE ENCOUNTER | TOTAL AMT PAID BY GOVT FOR ALL PROF SERVICES | GOVT PAID TOTAL INST | TOTAL AMT BILLED FOR ALL INST SERVICES | BILLED INST NURSERY CHARGES | BILLED INST ICU/CCU CHARGES | BEN FIC BED CAT PATIENT DAYS GRY ID |
|-------------------------------|-----------------|---------------|-------------------|---------------------------------------------|----------------------------------------------|----------------------|----------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| ** Blanchfield AM Ft Campbell |                 |               |                   |                                             |                                              |                      |                                        |                             |                             |                                     |
| 1992                          | 619 620476822   | 10/16/91      | 10/22/91          | 6336                                        | 459                                          | 5877                 | 2957                                   | 760                         | 0                           | 6 1 313962004                       |
| 1992                          | 614 626002627   | 11/08/91      | 11/25/91          | 10212                                       | 924                                          | 9288                 | 18986                                  | 13770                       | 0                           | 34 1 315462621                      |
| 1992                          | 627 626002627   | 02/17/92      | 02/28/92          | 3002                                        | 716                                          | 2286                 | 9647                                   | 4570                        | 0                           | 11 1 317740701                      |
| 1992                          | 627 620476822   | 03/31/92      | 04/08/92          | 8058                                        | 4241                                         | 3817                 | 11122                                  | 0                           | 6600                        | 8 1 318466146                       |
| 1992                          | 621 620476822   | 02/14/92      | 02/28/92          | 4342                                        | 2193                                         | 2149                 | 10373                                  | 1330                        | 5175                        | 14 1 322433092                      |
| 1992                          | 627 626002627   | 11/06/91      | 11/15/91          | 5279                                        | 3002                                         | 2277                 | 4961                                   | 3240                        | 0                           | 9 1 325721210                       |
| 1992                          | 626 620521201   | 10/07/91      | 10/15/91          | 11481                                       | 1223                                         | 10259                | 6716                                   | 680                         | 3220                        | 8 1 327962942                       |
| 1992                          | 607 620476822   | 11/19/91      | 11/27/91          | 30539                                       | 894                                          | 29645                | 7733                                   | 0                           | 5550                        | 8 1 329256443                       |
| 1992                          | 607 626002627   | 11/27/91      | 12/26/91          | 20646                                       | 2904                                         | 17741                | 15072                                  | 11745                       | 0                           | 29 1 329256443                      |
| 1992                          | 626 620476822   | 12/04/91      | 12/10/91          | 24005                                       | 4034                                         | 19971                | 14736                                  | 0                           | 8400                        | 12 1 330562429                      |
| 1992                          | 612 620476822   | 10/05/91      | 10/14/91          | 12095                                       | 1634                                         | 10461                | 12869                                  | 0                           | 7425                        | 9 3 332966318                       |
| 1992                          | 619 620476822   | 08/08/92      | 08/15/92          | 6906                                        | 634                                          | 6273                 | 1316                                   | 950                         | 0                           | 7 1 336796452                       |
| 1992                          | 621 620476822   | 10/21/91      | 11/01/91          | 13213                                       | 1559                                         | 11654                | 7188                                   | 1710                        | 2850                        | 15 1 339678031                      |
| 1992                          | 627 620476822   | 01/19/92      | 01/25/92          | 4943                                        | 1108                                         | 3835                 | 5534                                   | 0                           | 1745                        | 6 3 340023639                       |
| 1992                          | 627 620476822   | 10/18/91      | 10/28/91          | 5679                                        | 1853                                         | 3826                 | 9453                                   | 1140                        | 3300                        | 10 1 341325066                      |
| 1992                          | 623 620476822   | 11/01/91      | 11/14/91          | 20383                                       | 5653                                         | 14730                | 26288                                  | 0                           | 3                           | 13 1 342211750                      |
| 1992                          | 621 610482973   | 03/12/92      | 03/16/92          | 1874                                        | 465                                          | 1409                 | 2144                                   | 1840                        | 0                           | 8 1 342639953                       |
| 1992                          | 627 626002627   | 04/06/92      | 04/11/92          | 2746                                        | 459                                          | 2287                 | 3730                                   | 1711                        | 0                           | 5 1 343051646                       |
| 1992                          | 618 620476822   | 01/01/92      | 01/06/92          | 10266                                       | 1430                                         | 8835                 | 8862                                   | 0                           | 4125                        | 5 1 343774657                       |
| 1992                          | 626 620476822   | 11/15/91      | 11/28/91          | 17288                                       | 3343                                         | 13944                | 27211                                  | 0                           | 9825                        | 13 1 345671209                      |
| 1992                          | 616 620476822   | 01/10/92      | 02/01/92          | 30104                                       | 1847                                         | 28257                | 31490                                  | 0                           | 15450                       | 22 1 346441906                      |
| 1992                          | 627 610482973   | 02/19/92      | 02/23/92          | 2595                                        | 262                                          | 2333                 | 1267                                   | 920                         | 0                           | 4 1 347784459                       |
| 1992                          | 613 620476822   | 01/21/92      | 01/28/92          | 17589                                       | 3682                                         | 13907                | 20842                                  | 0                           | 10050                       | 14 1 348308742                      |
| 1992                          | 627 626002627   | 12/27/91      | 12/31/91          | 2782                                        | 450                                          | 2333                 | 5663                                   | 1620                        | 0                           | 4 1 348874315                       |
| 1992                          | 607 620476822   | 11/22/91      | 12/30/91          | 37858                                       | 8482                                         | 29376                | 42227                                  | 0                           | 26400                       | 38 1 351070175                      |
| 1992                          | 607 620476822   | 04/04/92      | 04/10/92          | 31036                                       | 1373                                         | 29663                | 5581                                   | 570                         | 2475                        | 6 1 352321623                       |
| 1992                          | 614 626002627   | 01/07/92      | 01/15/92          | 8654                                        | 1333                                         | 7321                 | 15781                                  | 8592                        | 0                           | 16 1 352541933                      |
| 1992                          | 607 620476822   | 10/04/91      | 11/06/91          | 36828                                       | 7407                                         | 29421                | 38295                                  | 0                           | 23925                       | 33 1 352757331                      |
| 1992                          | 619 620476822   | 04/21/92      | 04/27/92          | 6585                                        | 708                                          | 5877                 | 3593                                   | 760                         | 0                           | 6 1 352773895                       |
| 1992                          | 619 620476822   | 03/26/92      | 04/05/92          | 13971                                       | 8129                                         | 5841                 | 17836                                  | 0                           | 7650                        | 10 1 354492451                      |
| 1992                          | 614 610482973   | 01/10/92      | 01/20/92          | 3824                                        | 398                                          | 3427                 | 2832                                   | 2300                        | 0                           | 10 1 355541315                      |
| 1992                          | 619 626002627   | 12/28/91      | 01/01/92          | 5961                                        | 1106                                         | 4855                 | 6478                                   | 2360                        | 0                           | 8 1 356125882                       |
| 1992                          | 626 610703799   | 02/01/92      | 02/29/92          | 69039                                       | 7224                                         | 61815                | 134770                                 | 0                           | 0                           | 28 1 356604859                      |
| 1992                          | 623 620476822   | 02/12/92      | 02/20/92          | 18967                                       | 4192                                         | 14775                | 10823                                  | 0                           | 1055                        | 8 1 357299532                       |
| 1992                          | 627 610482973   | 02/05/92      | 02/10/92          | 2634                                        | 302                                          | 2333                 | 1818                                   | 1150                        | 0                           | 5 1 357299532                       |
| 1992                          | 612 620476822   | 04/04/92      | 04/21/92          | 20452                                       | 4314                                         | 16138                | 22570                                  | 0                           | 12375                       | 17 1 359512606                      |
| ** Subtotal **                |                 |               |                   | 528172                                      | 89937                                        | 438235               | 568765                                 | 61718                       | 157598                      | 459                                 |

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| FISCAL YEAR               | PROVIDER DRG ID | DATE OF ADMIN | DATE OF DISCHARGE | TOTAL AMT PAID BY GOVT FOR ENTIRE ENCOUNTER | TOTAL AMT PAID BY GOVT FOR ALL PROF SERVICES | GOVT PAID TOTAL INST | TOTAL AMT BILLED FOR ALL INST SERVICES | BILLED INST NURSERY CHARGES | BILLED INST ICU/CCU CHARGES | BEN FIC BED CAT DAYS | PATIENT GRY ID |
|---------------------------|-----------------|---------------|-------------------|---------------------------------------------|----------------------------------------------|----------------------|----------------------------------------|-----------------------------|-----------------------------|----------------------|----------------|
| ** Moncrief AM Ft Jackson |                 |               |                   |                                             |                                              |                      |                                        |                             |                             |                      |                |
| 1992                      | 607 570339444   | 12/25/91      | 02/24/92          | 69455                                       | 9369                                         | 60086                | 144307                                 | 0                           | 46500                       | 61 1                 | 301838447      |
| 1992                      | 614 570339444   | 05/15/92      | 05/29/92          | 4033                                        | 148                                          | 3886                 | 10344                                  | 0                           | 775                         | 14 1                 | 322480021      |
| 1992                      | 623 570339444   | 10/24/91      | 11/25/91          | 35217                                       | 939                                          | 34278                | 79872                                  | 0                           | 24800                       | 32 1                 | 322827030      |
| 1992                      | 627 570339444   | 10/03/91      | 10/18/91          | 11235                                       | 2302                                         | 8933                 | 34094                                  | 0                           | 10850                       | 15 1                 | 325117275      |
| 1992                      | 626 570339444   | 12/26/91      | 01/01/92          | 10110                                       | 422                                          | 9688                 | 8973                                   | 300                         | 3100                        | 6 1                  | 325143472      |
| 1992                      | 621 570339444   | 02/06/92      | 02/17/92          | 6375                                        | 1320                                         | 5054                 | 17088                                  | 600                         | 10075                       | 15 1                 | 326273083      |
| 1992                      | 627 570339444   | 10/16/91      | 10/20/91          | 3000                                        | 333                                          | 2667                 | 1687                                   | 1200                        | 0                           | 4 1                  | 326960799      |
| 1992                      | 627 570339444   | 01/17/92      | 01/26/92          | 3856                                        | 1218                                         | 2638                 | 12558                                  | 300                         | 6200                        | 9 1                  | 327460560      |
| 1992                      | 621 570339444   | 01/22/92      | 01/26/92          | 1510                                        | 368                                          | 1142                 | 1536                                   | 1200                        | 0                           | 4 1                  | 328274755      |
| 1992                      | 613 570339444   | 02/04/92      | 02/27/92          | 11005                                       | 2172                                         | 8833                 | 25957                                  | 0                           | 17050                       | 23 1                 | 331280416      |
| 1992                      | 619 860492210   | 05/18/92      | 05/28/92          | 6662                                        | 0                                            | 6662                 | 16301                                  | 0                           | 14000                       | 10 1                 | 331670985      |
| 1992                      | 616 570339444   | 01/22/92      | 01/26/92          | 20040                                       | 368                                          | 19672                | 1714                                   | 900                         | 0                           | 4 1                  | 338480794      |
| 1992                      | 627 576000276   | 05/29/92      | 06/10/92          | 4402                                        | 1206                                         | 3196                 | 23788                                  | 4800                        | 3860                        | 12 1                 | 340821959      |
| 1992                      | 607 576000276   | 10/14/91      | 11/15/91          | 2534                                        | 2534                                         | 0                    | 29386                                  | 18295                       | 965                         | 32 1                 | 346304721      |
| 1992                      | 618 576000276   | 02/20/92      | 02/28/92          | 9104                                        | 1145                                         | 7959                 | 8061                                   | 4495                        | 0                           | 8 1                  | 349768289      |
| 1992                      | 626 576000276   | 05/14/92      | 06/16/92          | 41374                                       | 1335                                         | 40038                | 93621                                  | 9600                        | 16405                       | 33 1                 | 352329664      |
| 1992                      | 614 570339444   | 12/29/91      | 01/06/92          | 4637                                        | 698                                          | 3939                 | 9548                                   | 0                           | 6200                        | 8 1                  | 353558746      |
| 1992                      | 627 570339444   | 02/28/92      | 03/12/92          | 2913                                        | 1768                                         | 1145                 | 23222                                  | 0                           | 10075                       | 13 3                 | 356188714      |
| ** Subtotal **            |                 |               |                   | 247461                                      | 27647                                        | 219814               | 542060                                 | 41690                       | 170855                      | 303                  |                |
| *** Total ***             |                 |               |                   | 2644523                                     | 347304                                       | 2297220              | 3905108                                | 570301                      | 824478                      | 2658                 |                |

**APPENDIX H**  
**PERSONNEL REQUIREMENTS**

# Neonatal Step-down Unit

53

## Personnel Requirements:

| <u>Personnel</u>         | <u>Cost/Individual*</u> | <u>Total/Cost</u> |
|--------------------------|-------------------------|-------------------|
| 1 Captain (AN)           | \$69,215                | \$69,215          |
| 1 SFC (91C)              | \$44,955                | \$44,955          |
| 5 Neonatal Nurses (GS11) | \$51,901                | \$259,505         |
| 5 LPNs (GS5)             | \$28,312                | \$126,560         |

Total

\$500,235

Assumption of an increase in CHAMPUS due to one --  
 pediatrician's increased participation in the  
 intermediate care nursery. 20 clinic days/month x  
 10 Partnership CHAMPUS visits/day x 12 months x  
 \$25/visit = \$60,000.

60,000

\$560,235

\* These rates are from the FY 93 Army Composite  
 Standard Rate Schedule.

APPENDIX I  
EQUIPMENT/SUPPLY COSTS

APPENDIX I  
EQUIPMENT/SUPPLY COSTS

**Neonatal Step-down Unit****55****Equipment/Supply Costs:**

| <b><u>Item</u></b>      | <b><u>Cost*</u></b> | <b><u>Quantity</u></b> | <b><u>Total</u></b> |
|-------------------------|---------------------|------------------------|---------------------|
| Incubator               | \$9,860             | 4                      | \$39,440            |
| Infusion Pump           | \$2,200             | 4                      | \$ 8,800            |
| Cardiopulmonary monitor | \$7,870             | 4                      | \$31,480            |
| Phototherapy Units      | \$1,200             | 3                      | \$ 3,600            |
| Pulse Oximeter          | \$2,325             | 4                      | \$ 9,300            |
| Syringe Pumps           | \$2,000             | 2                      | \$ 4,000            |
| Neonatal Scale          | \$1,800             | 1                      | \$ 1,800            |
| Oxygen Blenders         | \$ 890              | 2                      | \$ 1,780            |
| Premie-t-shirts (Gross) | \$ 504              | 2                      | \$ 1,008            |
| Expendable supplies **  |                     |                        | \$ 6,758            |
|                         |                     | <b>Total</b>           | <b>\$107,966</b>    |

\* Costs are listed at current market prices.

\*\* Subject matter experts on the Gateway-to-Care Steering Committee estimated that supplies needed to maintain four level II infants for 30 days was approximately \$563.20 above present nursery costs. This equates to \$6,758.40 per year.

**APPENDIX J**  
**DRG DESCRIPTIONS**

DRG# Description

600 NEONATE, DIED W/IN ONE DAY OF BIRTH  
601 NEONATE, TRANSFERRED <5 DAYS OLD  
602 NEONATE, BIRTHWT <750G, DISCHARGED ALIVE  
603 NEONATE, BIRTHWT <750G, DIED  
604 NEONATE, BIRTHWT 750-999G, DISCHARGED ALIVE  
605 NEONATE, BIRTHWT 750-999G, DIED  
606 NEONATE, BIRTHWT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALIVE  
607 NEONATE, BIRTHWT 1000-1499G, W/O SIGNIF OR PROC, DISCHARGED ALIV  
608 NEONATE, BIRTHWT 1000-1499G, DIED  
609 NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, W MULT MAJOR PROB  
610 NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, W/O MULT MAJOR PR  
611 NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W MULT MAJOR PR  
612 NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W MAJOR PROB  
613 NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W MINOR PROB  
614 NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W OTHER PROB  
615 NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PROB  
616 NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, W/O MULT MAJOR PR  
617 NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MULT MAJOR PR  
618 NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MAJOR PROB  
619 NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MINOR PROB  
620 NO LONGER VALID  
621 NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W OTHER PROB  
622 NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, W MULT MAJOR PROB  
623 NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, W/O MULT MAJOR PROB  
624 NEONATE, BIRTHWT >2499G, W MINOR ABDOM PROCEDURE

DRG# Description

625 NO LONGER VALID

626 NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W MULT MAJOR PROB

627 NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W MAJOR PROB

628 NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W MINOR PROB

629 NO LONGER VALID

630 NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W OTHER PROB

631 BPD AND OTH CHRONIC RESPIRATORY DISEASES ARISING IN PERINATAL PE

632 OTHER RESPIRATORY PROBLEMS AFTER BIRTH

633 MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W CC

634 MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W/O CC