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NURSING CARE HOUR STANDARDS STUDY
HCSD Report #81-009
Part I - Section A

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HCSD Report #81-009 (Part I - Section A)

Nursing Care Hour Standards Study Part I Section A
Patient Classification System Model Development

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September 1981

Final Report

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER HCSD Rpt #81-009	2. GOVT ACCESSION NO. AD-A109883	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Nursing Care Hour Standards Study (Parts IA and B and Parts II thru VIII)	5. TYPE OF REPORT & PERIOD COVERED Final - Apr 77 - Sep 81	
7. AUTHOR(s) Susie M. Sherrod, LTC, ANC, US Army Terry M. Rauch, CPT, MSC, US Army Patricia A. Twist, DAC	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Health Care Studies Division (HSHA-CHC) Academy of Health Sciences US Army Fort Sam Houston, TX 78234	8. CONTRACT OR GRANT NUMBER(s)	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Health Services Command HSPA-N Fort Sam Houston, TX 78234	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	12. REPORT DATE Sep 81	
	13. NUMBER OF PAGES	
	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Active Army, Personnel, Management, Decision, Manpower, Medical, Planning		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The intent of the study was to develop an improved patient classification system which would provide a better staffing mix based on quantified direct nursing care requirements for critical care, medical/surgical, obstetric, psychiatric, neonatal, and pediatric inpatient clinical services. The study was conducted in four phases over a period of four years ending in February 1981. Phase One addressed the development of the direct nursing care activities tasking document; Phase Two established the minimal essential mean tasking time for each		

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direct nursing care activity; in Phase Three nursing activities frequency rate survey provided the documentation of the patients' need for direct care; and Phase Four addressed the development and testing of a multidimensional factor-evaluation designed patient classification system for critical care, medical/surgical, obstetric, psychiatric, neonatal, and pediatrics.

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TABLE OF CONTENTS

	Page
List of Tables	iii
List of Illustrations	iv
Abstract	v
Acknowledgements	vii
A. Introduction	1
B. Statement of the Problem	1
C. Literature Review	2
D. Purpose of Study	3
E. Study Objectives	4
F. Study Question	4
G. Definition of Terms	4
H. Assumptions	6
I. Limitation of the Study	6
J. Research Procedures	6
1. Phase One: Direct Nursing Care Activities	7
1.1 Objectives	7
1.2 Methodology	7
1.3 Data Analysis	9
2. Phase Two: Minimal Essential Mean Tasking Time Determination. . 15	
2.1 Objectives	15
2.2 Study Question	15
2.3 Methodology	15
2.4 Data Collection	16
2.5 Data Analysis	16

	Page
K. Findings	26
L. References	28
Appendix A: Standardized Instructions for Observers	34
Appendix B: Tasking Document - Definitive Operational Description of Each Direct Nursing Care Activity	48
Appendix C: Minimal Essential Mean Tasking Time for Each Direct Nursing Care Activity	80
Appendix D: Minimal Essential Mean Tasking Time for Adult Direct Nursing Care Activities - Descriptive Statistics for Critical Care, Medical/Surgical, Obstetrics and Psychiatry	91
Appendix E: Minimal Essential Mean Tasking Time - Descriptive Statistics for Newborn Nursery, Intermediate and Neonatal Intensive Care, Pediatrics and Pediatric Intensive Care	105
Appendix F: Mean Number of Personnel Required in Performing Observed Direct Nursing Care Activity by Type of Clinical Unit	118
Appendix G: Minimal Essential Mean Tasking Time in Minutes for Each Direct Nursing Care Activity by Adult Age Group . . .	128
Appendix H: Minimal Essential Mean Tasking Time in Minutes for each Direct Nursing Care Activity by Pediatric Age Group . . .	151
Appendix I: Minimal Essential Mean Tasking Time in Minutes for each Direct Nursing Care Activity by Sex of the Adult Patient	164

LIST OF TABLES

Table	Page
1. Group Composition by Clinical Unit for Homogeneity Determination . .	17
2. Group Composition by Clinical Unit for Determination of Mean Number of Personnel Observed Performing Each Direct Nursing Care Activity	18
3. Percentage Table for Care Provider Mix for Critical Care	19
4. Percentage Table for Care Profider Mix for Medical/Surgical	20
5. Percentage Table for Care Provider Mix for Obstetrics	21
6. Percentage Table for Care Provider Mix for Psychiatry	22
7. Percentage Table for Care Provider Mix for Neonatal	23
8. Percentage Table for Care Provider Mix for Pediatrics	24
9. Adult Age Groups	25
10. Pediatric Age Groups	25

LIST OF ILLUSTRATIONS

Figure	Page
1. Data Collection Instrument - AHS Form 329 (ot) Minimal Essential Tasking Time Determination	10
2. Direct Nursing Care Activities Pattern Form	12
3. Inpatient Data Form - AHS Form 322 (ot)	14

ABSTRACT

The intent of the study was to develop an improved patient classification system which would provide a better staffing mix based on quantified direct nursing care requirements for critical care, medical/surgical, obstetric, psychiatric, neonatal, and pediatric inpatient clinical services.

The Nursing Care Hour Standards Study was conducted in four phases over a period of four years ending in February 1981. Phase One addressed the development of the direct nursing care activities tasking document; Phase Two established the minimal essential mean tasking time for each direct nursing care activity; in Phase Three nursing activities frequency rate survey provided the documentation of the patients' need for direct care; and Phase Four addressed the development and testing of a multidimensional factor-evaluation designed patient classification system for critical care, medical/surgical, obstetric, psychiatric, neonatal, and pediatrics.

In Phase One the direct nursing care activities tasking document was developed through retrospective clinical record review, literature review, and expert nursing opinion. When consensus of opinion by the professional nurses had been established, then each of the 357 direct nursing care activities were operationally defined to establish specificity. In Phase Two the observers were selected and subjected to a prescribed period of standardized instructions. When observer reliability was demonstrated, the study team conducted on-site observations, utilizing nine acute care medical treatment facilities ranging in size from 50 to 600 inpatient beds. Timed observations were taken from all shifts, seven days a week, over a one year period, utilizing continuous observation, with observers "shadowing" nursing personnel. In Phase Three, direct nursing care activity frequency surveys were conducted in four acute care medical treatment facilities ranging in size from 250 to 500 inpatient beds. The patients' needs for direct care were documented by panels of professional nurses over a six month period. Phase Four addressed the development of a multidimensional factor-evaluation designed patient classification system. The system consisted of six subsystems: (1) critical care; (2) medical/surgical; (3) obstetric; (4) psychiatric; (5) neonatal; and (6) pediatric. Each sub-system has five components: (1) patient classification instrument mathematical model; (2) patient classification instrument; (3) patient classification instrument instructional information; (4) patient classification tabulation form; and (5) a methodology for determining care provider mix.

In Phase One the data analysis of the 528 inpatient clinical records generated a nominal listing of direct nursing care activities for each inpatient clinical service. The content validity was examined by comparing the direct nursing care activities tasking document with authoritative literature; unanimous agreement was obtained from the professional nurses included with the Delphi studies as to clarity, validity, representativeness of the population, and specificity. The results of this phase of the study provided a data base for developing a model for direct nursing care activities so that these observable nursing care activities could undergo timed measurements. In Phase Two the timed observations of the 357 direct nursing care activities generated 37,000 timed measurements. These data were analyzed using a one-way analysis of variance with a Scheffé technique to assess the differences among facilities on overall

mean times. All timed measurements within the 95% confidence interval for the mean were utilized in determining: (1) minimal essential mean tasking time for adult direct nursing care activities; (2) minimal essential mean tasking time for pediatric direct nursing care requirements; (3) mean number of personnel required to perform direct nursing care activities; and (4) personnel mix percentage scores for each direct nursing care activity. The data generated during Phase Three were displayed to demonstrate the frequency distribution of each direct nursing care activity. To determine the hours of direct nursing care required for variable groups of patients, the documented direct care requirements were utilized in conjunction with the appropriate minimal essential mean tasking time, and the mean number of personnel required to perform direct nursing care activities. The categories of care were established by calculating the total hours of care for each of the 720 cases, and then plotting these cases on a frequency distribution by hours of care required. The distribution of data was then analyzed for groupings of cases, and categories of care were established around these groupings. Six categories of care were established with care requirements ranging from <1 through 36 plus hours of care within the 24-hour time frame. In Phase Four extensive validity and reliability estimates were computed for the patient classification system. Correlation coefficients were computed for content validity, criterion-related validity, interrater reliability and internal consistency, and the findings from these studies demonstrated validity and reliability of the patient classification system.

The resulting patient classification system measures direct nursing care activities and determines the best mix by skill level of care providers for critical care, medical/surgical, obstetric, psychiatric, neonatal, and pediatric clinical services. The patient classification system utilizes the factor-evaluation design, is multidimensional, and is designed for automated or manual implementation.

Based upon a thorough literature review and the findings from this study it has been determined that currently available patient classification systems do not adequately quantify the direct nursing care requirements for a variety of clinical services. The present study results demonstrate that patients within the same category of care have different direct nursing care requirements, hence a different mix of care providers may be required to meet these needs. The findings also show that the "hours of care" within each patient care indicator is the principal determinant for defining the optimal care-provider mix. The proposed patient classification system must be subjected to long-term evaluative studies on the utilization of the automated and manual system. Moreover, a methodology for determining the indirect care requirements must be developed and subjected to extensive validity and reliability studies utilizing multiple medical treatment facilities.

ACKNOWLEDGEMENTS

My sincere thanks and appreciation are offered to the Department of Nursing at all of the US Army Hospitals who graciously cooperated with and participated in our study efforts at their sites. Special thanks are expressed to CPT Terry M. Rauch, MSC, for his assistance in experimental design and statistical analysis of data, and to Patricia A. Twist for her contributions in designing the multiple data collection instruments, data collection and manual mathematical computations. Additional thanks are offered to all members of the Health Care Studies Division for their assistance in data transcription and reduction process, typing support for the manuscripts, and moral support throughout the study. Special recognition must be given to COL Ellen J. Gann, ANC, Study Monitor, for the administrative support rendered throughout conduct of this study; for, without this support, the study could not have been completed in a timely fashion.

NURSING CARE HOUR STANDARDS STUDY: PART I - SECTION A PATIENT CLASSIFICATION SYSTEM MODEL DEVELOPMENT

A. INTRODUCTION

A survey conducted within the U.S. Army Medical Department indicated that nurse managers were unable to objectively quantify direct nursing care requirements and the manpower needed to meet these requirements. The Army staffing guides for nursing departments are derived from historical data considering occupied beds and available staff. The Joint Commission on Accreditation of Hospitals Nursing Service Standard III (1980) indicates that "the Nursing Department shall define, implement, and maintain a system for determining patient requirements for nursing care on the basis of demonstrated patient need, appropriate nursing intervention and priority for care and that specific nursing personnel for each nursing care unit shall be commensurate with the patient care requirements and staff expertise..." However, the current staffing guide does not recognize the patient's nursing care requirements. The Professional Services Review Organization which is mandated by PL 92-603 requires documentation of quality nursing care. None of these requirements can be met adequately with the current system since the system does not provide a substantive measure of the workload factor and data base for sound quality assessment of services provided. To compensate for this inadequacy, departments of nursing collect other data which they believe will indicate some of the dimensions of the recurring workload. The data generated are difficult to interpret and generally do not provide standardized information that is usable by the Health Services Command for determining staffing requirements or as indicating workload. The impact of these requirements are compounded by the fact health care has changed markedly in the last ten years through the use of increasingly complex technology, specialization, assumption of more time consuming tasks, increasing emphasis on health teaching, personalization of service to clients and ongoing evaluation of performance. The impact of these changes has significantly altered the nature, and increased the volume, of the nursing service workload. Departments of nursing, normally the largest manpower consuming service in the hospital, are tasked to provide economical quality nursing care. Managing the quality, quantity, and utilization of personnel to accomplish this goal, however, remains a most persistent, critical, and time consuming problem. If nursing managers are to make sound administrative decisions, they must (1) measure the appropriate nursing care activities and (2) use the best measuring tool available. The best tool would be an acceptable reference standard, namely, the number of hours of nursing care required to meet safe essential patient care needs with the proper mix by skill level of care providers. The present study had attempted to develop and provide such a tool.

B. STATEMENT OF THE PROBLEM

While studies have been conducted on multiple patient classification systems, a valid, reliable, multidimensional, factor-evaluation designed patient classification system which quantifies direct nursing care requirements and staffing mix for a variety of clinical services was not available. In order to correct for these deficiencies, a system must have: (1) quantitative measurement of many different factors, rather than a single, subjective

decision based upon limited prototype descriptions of patients; (2) greater sensitivity to patient differences than the current classification systems demonstrate; (3) more comprehensive range of patient needs assessment; (4) a methodology for determining the personnel mix utilizing hours of care within patient care indicators; (5) greater predictive ability; and (6) viable validity and reliability check.

C. LITERATURE REVIEW.

Nursing staffing requirements have been estimated through the use of variables which were considered to be predictive of workload, for example, census, patient days, occupied beds, and nursing hours per bed. These means of estimating nursing requirements may have been adequate before proliferating technology and specialization changed the character and practice of nursing. However, these variables do not correlate well with current nursing needs or patients' needs for nursing care.

The original Army Patient Classification Study was conducted by Claussen (1955) at Walter Reed Army Medical Center and resulted in a Nine Category Scale of Patient Needs. Subsequent testing and revision refined the Army Classification Instrument into four categories with quantitative determinations of total personnel requirements (United States Army Medical Department, 1971). According to Abdellah and Levine (1965) the Army method of classification has served as a model for many of the prototype evaluation instruments which followed. However, limitations of this system have been identified as follows: 1) major emphasis on the physical aspects of care with little attention to psychological, teaching or assessment; 2) unrepresentative sample; 3) scope limited to adult Medical/Surgical patients; and 4) the use of ambiguous terminology.

In the 1960's, management engineering, operations research and systems analysis techniques provided new approaches to the analysis of workload. A number of the most highly regarded of these approaches will be discussed. One of the most notable of these studies was conducted by Connor (1961) who devised the Johns Hopkins Patient Classification System. The system consisted of simple descriptions of patients which permitted them to be categorized; he showed that certain patient parameters could be used to classify patients into three categories, reflecting three levels of need for nursing services. No measurement was implied by these nominal categories and Connor believed that measurement was necessary for more sophisticated kinds of classification.

The CASH (Commission for Administrative Services in Hospitals) System was developed as a quality of care measurement; however, it was later adapted for determining staffing requirements. In the CASH System the standard care-hours per patient day and care-hours by category of care needs were determined (Edgecrumbs, 1965; CASH, 1965). In this system nursing care has been classified into activities or tasks and the standard time for a task has been determined. These series of studies were limited to average medical and surgical patients from ten to ninety years old. However, all intensive, obstetric, psychiatric and neonatal patients were excluded (CASH, 1966).

Other studies have focused on highly selective aspects of patient classification such as intensive care patient population (Hudson, Caruthers and Lantiegne, 1979 and Hern, 1974) and the use of "patient age" as criterion for staffing (Jacobs, Patchin and Anderson, 1969). Other areas of concern

include: staffing based upon formal and informal methods of calculation (Poland, English, Thornton and Owens, 1970; Georgette, 1970; Clark and Diggs, 1971; Ramey, 1973; McCormick, Roche and Steinwachs, 1973; Miller, 1976; Norby, Freund and Wagner, 1977; Murphy, Dunlap, Williams and McAthie, 1978); the use of computer technology to determine patient needs and nurse staffing (Murray, 1971 and Duraiswamy, Welton and Reisman, 1981); accountability and cost analysis in the Nursing Department (McNally, 1979; Holbrook, 1972; Blanco, Stahl and Williams, 1973; Diggs, 1973; Foster, 1973; Simborg, 1976); the quality of nursing care (Aydelotte, 1973; Aydelotte, 1974; Jelinek, Haussmann, Hegyvary and Newman, 1974; Bailit, Lewis, Hochheiser and Bush, 1975). In studies which focused on the quality of care, patient needs assessment remained a basic requirement prior to any evaluation of care provided. Therefore, the patient classification methodology was used to provide the baseline data for studies of quality patient care. Lindeman (1974) found that a need for valid and reliable methods for establishing nursing staffing patterns ranked high among priorities in clinical nursing research; this finding was reinforced by Gortner (1980) who reported that clinical approaches to patient and unit management will be subjected to major evaluation within the next decade.

The literature review indicated that none of the patient classification systems were subjected to extensive validity and reliability testing and with the exception of the studies on patient classification conducted by McCartner, McKee and Cady (1970) and Giovannetti and Associates (1970), the selected literature did not reflect the training of raters as a critical consideration in the testing of patient classification systems.

The literature review indicated that a valid, reliable, multidimensional, factor-evaluation designed patient classification system was currently not available. The Patient Classification systems reviewed were limited in scope, (addressing only selected clinical services: and the data were not systematized, standardized and detailed enough to adequately quantify the direct care requirements for critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric patients. The mathematical models reflected in the literature review were not designed for manual and automated implementation, thereby, limiting the applicability of the systems. To this date no published studies were found that established the mix by skill level of care providers utilizing the hours of care within each patient care indicator. No studies have been reported on utilizing a 24-hour retrospective assessment for establishing the patient care requirements and mix by skill level of care providers required to meet these needs.

D. PURPOSE OF STUDY

The intent of the study was to develop an improved patient classification system which would provide a better staffing mix based on quantified direct nursing care requirements for critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric inpatient clinical services.

E. STUDY OBJECTIVES

The study was designed to achieve seven objectives:

1. To develop a direct nursing care activities tasking document.
2. To determine minimal essential mean tasking times for frequently occurring direct nursing care activities.
3. To determine the skill level and number of nursing personnel performing the direct nursing care activities.
4. To determine the frequency rate of the direct nursing care activities by documentation of care requirements.
5. To determine categories of care utilizing the documented direct nursing care requirements, minimal essential mean tasking time, and the mean number of nursing personnel required to perform the direct nursing care activity.
6. To develop a factor-evaluation designed patient classification system for critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric clinical services; which would provide a better staffing mix based on quantified direct care requirements.
7. To determine the validity and reliability of the critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric patient classification sub-systems.

F. STUDY QUESTION

What effect do age, and sex of patients have on the minimal essential mean tasking time for each direct nursing care activity?

G. DEFINITION OF TERMS

1. DIRECT PATIENT CARE: All care given by nursing personnel in the presence of patients; those nursing activities that are carried out with or for the patient, are behavioral in nature, and are observable.
2. MINIMAL ESSENTIAL TASKING TIME: The average time required to perform the nursing activity. No measurement of quality of performance is assumed during the measurements. However, the nursing activity must fall within the definitive operational definition to be included in the study.
3. TASKING TIME: The mean direct care time for the nursing activity. Preparation and tear-down are not included in this measurement.
4. FACTOR: The individual direct nursing care activities.
5. PATIENT CARE INDICATOR: A clustering of individual direct nursing care activities around a discrete type of patient need or dimension.

6. **MULTIDIMENSIONALITY:** The patient classification design, e.g., the instrument will display more than two dimensions of patient need for direct nursing care.

7. **FACTOR-EVALUATION DESIGNED INSTRUMENT:** An instrument designed to allow for evaluation and rating of each individual direct nursing care activity and the overall ratings are utilized for determining direct nursing care requirements and consequently the category of care.

8. **PROTOTYPE EVALUATION DESIGNED INSTRUMENT:** An instrument designed with several categories of care, which are defined by a description of the characteristics of a typical patient.

9. **PATIENT CLASSIFICATION INSTRUMENT:** A scaling device that provides the assessment, definition and classification instructions for rating the direct nursing care requirements.

10. **PATIENT CLASSIFICATION SYSTEM:** The categorization of patients according to direct nursing care requirements and the quantification of man-hour efforts.

11. **CATEGORY OF CARE:** The grouping of patients according to the direct nursing requirements.

12. **INPATIENT:** Any child or adult who has been admitted to the medical treatment facility.

13. **PROFESSIONAL NURSE:** A registered nurse who has graduated from a professional nursing program and has successfully met a state's requirement for licensure.

14. **TECHNICAL NURSING PERSONNEL:** Those individuals who have received technical training in an approved civilian or military program.

15. **PARAPROFESSIONAL NURSING PERSONNEL:** Those individuals who have graduated from a civilian or military course for nursing assistants.

16. **NURSING ACTIVITY FREQUENCY RATE:** The number of times that the direct nursing care activity was required for a patient during the 24-hour rating period.

17. **TRAINED OBSERVER:** An individual who has received standardized training with the same instruments, subjects, and conditions.

18. **TRAINED RATER:** A registered professional nurse who has received standardized training in the use of the nursing activities frequency rate instrument and the Patient Classification Instrument.

19. **EXPERIENCE LEVEL:** The grade, rank and military occupational specialty.

20. CONTENT VALIDITY: The validity of the data collection instrument that has been established by pointing out the authority for the direct nursing care activities.

21. CRITERION-RELATED VALIDITY: The extent to which the instrument corresponds to the observed and timed direct nursing care activities for individual patients for the 24-hour study period.

22. INTERRATER RELIABILITY: The extent to which two independently trained raters rate the same patient at the same time and yield consistent results for both category and total score.

23. INTERNAL CONSISTENCY: The extent to which two independently trained raters' responses to the various patient care indicators were consistent.

H. ASSUMPTIONS

The investigator made three assumptions:

1. Direct nursing care activities can be operationally defined and measured. The mean time derived from these measurements can be applied to other patients and adequately represent the individual patients' direct nursing care requirements.

2. Registered professional nurses can assess and quantify direct nursing care requirements autonomously, regardless of the type of medical treatment facility, type of nursing unit, patient care delivery system, and/or administrative structure.

3. Professional characteristics such as education and experience level of the registered professional nurses do not affect the classification of patients.

I. LIMITATION OF THE STUDY

A patient classification system for the US Army Medical Department must meet the needs of a variety of medical treatment facilities and clinical services. These facilities range in size from <50 to 800 beds with different physical facilities, available support services, teaching and non-teaching, and practicing either functional, team or primary nursing. Therefore, the present study was limited to direct nursing care activities and the resultant patient classification system measures only direct patient care.

J. RESEARCH PROCEDURES

Part I Patient Classification System Model Development was conducted in three phases. Phase one addressed the development of a direct nursing care activities tasking document; phase two established the minimal essential mean tasking time for each direct nursing care activity; and in phase three the nursing activities frequency rate survey provided the documentation of patients' need for direct nursing care.

1. Phase One: Direct Nursing Care Activities Tasking Document.

1.1 Objectives

In phase one of the study the major focus was the development of a model for direct nursing care activities so that these observable nursing care activities could undergo timed measurements. The objectives for phase one were:

- a. The generation of a direct nursing care activities tasking document through retrospective clinical record review, nursing literature review and expert opinion.
- b. The determination of the representativeness of the direct nursing care activities tasking document.
- c. The development of definitive operational descriptions of each direct nursing care activity and then the subsection of these definitions to expert opinion for the determination of clarity, face-validity, representativeness of the population, and specificity of the operational definitions.
- d. The conduct of a pilot study for the determination of sample size, duration of study, the number and type of clinical services studied.
- e. The pretesting of data collection instruments.
- f. The selection of test sites.

1.2 Methodology

a. Direct Nursing Care Activities Tasking Document.

A comprehensive retrospective clinical record review was conducted, and the records were randomly selected from the admission and disposition roster at Brooke Army Medical Center between the period January-June 1977. The review of each clinical record was limited to the physical order form, standard and special nursing documentation forms, and the unit dose pharmacy form. The total of 528 clinical records were included in the retrospective clinical record review with a minimum of 24 clinical records from the following clinical services: (1) intensive care areas of medical intensive care, surgical intensive care, thoracic-cardiovascular intensive care, coronary care, neurosurgery intensive care, neonatal, and pediatric intensive care; (2) medical/surgical clinical services to include general medicine, general surgery, orthopedics, gastroenterology, oncology, neurosurgery, thoracic surgery, and urology; (3) pediatric clinical services to include newborn nursery; (4) obstetric and gynecological clinical services; and (5) psychiatric clinical services. Each direct nursing care activity was tabulated, then plotted on a frequency distribution. An indepth literature review was conducted to determine which direct nursing care activities were considered to be within the framework of nursing practice. The literature review consisted of assessing a minimum of two current nursing reference textbooks and these findings were compared to the initial direct

nursing care activities tasking document established during the retrospective clinical record review. An expert opinion survey was conducted to determine if the direct nursing care activities tasking document generated through the retrospective clinical record review and the nursing literature review was within the framework of nursing practice. The direct nursing care activities tasking document was subjected to review by three doctoral prepared nurses to determine content validity, representativeness, and to make a professional judgment as to the appropriateness of the listed direct nursing care activities. The Delphi method was utilized for eliciting the opinions of experts. The Delphi studies were conducted utilizing a two-step questionnaire, with revision of the questionnaire between the first and second questionnaire and a feedback report after the second questionnaire.

b. Representativeness of the Direct Nursing Care Activities Tasking Document at the Care Provider Level. A survey questionnaire was utilized to determine if the direct nursing care activities tasking document was acceptable at the care provider level. The survey was conducted within selected inpatient nursing care units at Brooke Army Medical Center and US Darnall Army Community Hospital. The professional nurses included within this survey evaluated this document for face validity and added additional direct nursing care activities when appropriate. Those additional direct nursing activities were then subjected to a literature review and expert opinion consensus.

c. Definitive Operational Description of Direct Nursing Care Activities. Each of the 357 direct nursing care activities included on the direct nursing care activities tasking document was operationally defined to establish specificity by delineating the beginning and ending points for each direct nursing care activity and to numerate the major steps considered appropriate. The definitive operational description of each direct nursing care activity was subjected to doctoral prepared nurses to determine clarity, face validity, and representativeness of the population, and specificity of the operational definitions. The Delphi method was utilized for eliciting the opinions of experts. The Delphi studies were conducted utilizing a two-step questionnaire, with revision of the questionnaire between the first and second questionnaire and a feedback report after the second questionnaire.

d. Direct Nursing Care Activities Pilot Study. The pilot study was designed for: (a) evaluating the definitive operational description of each direct nursing care activity included on the direct nursing care activities tasking document; (b) pretesting the data collection instrument for face validity, utility, and readability; and (c) determining sample size, duration of study, and the number and type of clinical services studied. The pilot study was conducted at Brooke Army Medical Center. The direct nursing care activities tasking document generated through the retrospective clinical record review, nursing literature review, and expert opinion was the source for the direct nursing care activities subjected to these timed measurements. The observers were selected and trained utilizing standardized techniques and instructions. Each observer was provided with the operational definition of each direct nursing care activity to be timed, and then each observer measured a total of twenty direct nursing care activities and repeated the

process three times to develop a proficiency level. When observer reliability had been established then the observations were taken from all shifts, seven days a week, over a six-month period, utilizing continuous observation, with observers "shadowing" nursing personnel.

e. Data Collection Instrument - AHS Form 329(OT) Minimal Essential Tasking Time Determination is illustrated in Figure 1. The data collection instrument was designed for the collection of the following data points for each timed observation: (1) direct nursing care activity time; (2) age and sex of patient; (3) patient constraints; (4) time of day; (5) presence or absence of patients' ability to assist; and (6) number and skill level of nursing personnel. Standardized instructions were developed for utilization by the observers. Detailed instructions were established to provide consistent guidance for the purpose of establishing and maintaining observer reliability. These observer instructions established the following coding system for all variables addressed during this data collection effort: (1) code numbers for medical treatment facilities; (2) code numbers for type clinical unit; (3) code numbers for direct nursing care activities; (4) code number for skill level by type of care provider; (5) code numbers for sex; (6) code numbers for level of patient assistance; (7) code number for constraints; and (8) criteria for recording calendar date, time of day, direct nursing care activity time and age of patient. The standardized instructions for observers are located in Appendix A.

f. Selection of Test Sites. The selection criteria for medical treatment facilities as test sites were size, geographical location, population served, clinical services provided, and type of physical facility available. The Health Services Command listing of size was utilized as the selection criteria for inclusion within the study. The operating beds within the medical treatment facilities were as follows: (1) medical centers 325-810; (2) large Army community medical treatment facilities 75-215; and (3) small Army community medical treatment facilities 20-55. The US Army Health Services Command mission assignment lists were utilized as an indicator for population served and for the determination of clinical services authorized and/or modified. The geographical location and type of physical facility were established by comparison of all medical treatment facilities within the Continental United States.

1.3 Data Analysis

a. Direct Nursing Care Activities Tasking Document. The data analysis of the retrospective clinical record review generated a listing of direct nursing care activities for each inpatient clinical service and established the initial framework for the direct nursing care activities tasking document. The findings from the indepth nursing literature review, and expert opinion were compatible with the retrospective clinical record review.

b. Representativeness of the Direct Nursing Care Activities Tasking Document at the Care Provider Level. The results generated by the survey questionnaire were analyzed and there was consensus of opinion among the professional nurses at Brooke Army Medical Center and US Darnall Community Hospital.

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[illegible]

c. Definitive Operational Description of Direct Nursing Care Activities. The definitive operational description of each direct nursing care activity was subjected to expert opinion review and there was unanimous agreement among the nurses included within the survey on the second questionnaire. The definitive operational descriptions of each direct nursing care activity included on the tasking document are located in Appendix B.

d. Direct Nursing Care Activities Pilot Study. The analysis of these pilot study data served to identify those direct nursing care activities with a wide range of scores which were modified by developing additional definitive operational descriptions for each direct nursing care activity presenting a wide range of scores. Subsequent data analysis produced a lower range of scores. Those direct nursing care activities which did not conform to the established definitive operational description were identified and those direct nursing care activities' operational descriptions were corrected to meet the measurement requirements of the study. Those activities which presented a wide range of scores and which were not corrected by the above identified problems were evaluated to determine what other factors could have generated a wide range of scores. The other factors subjected to additional analysis were the presence or absence of the patients' ability to assist and whether or not the activity was performed with or for the patient. The range of scores appeared to be influenced by these two factors, however, a much larger data base than this pilot study was indicated for adequate statistical comparison to be accomplished.

e. Data Collection Instrument Minimal Essential Tasking Time Data From AHS Form 329(OT) as illustrated in Figure 1. The data collection instruments were evaluated for face validity, utility, and readability during the direct nursing care activities pilot study. The observers experienced some difficulties with the recording of multiple data points with each measurement. To correct this identified utility problem the recording of constraint codes were utilized to reduce the volume of the recordings. In the recording of the personnel data it was considered too time-consuming to locate and record the 96 different personnel codes, therefore, longhand recording of each of these data points was determined to be more feasible. After these minor revisions in recording methodology and format for ease of recording, there was consensus of opinion among the observers that the minimal essential tasking time data form be accepted and utilized as the major data collection form for Phase Two of the study, which addressed minimal essential tasking time determination. Two additional data collection forms were designed and tested during this pilot study. The first form developed was the direct nursing care activities pattern form and this form generated the unique direct nursing care activities patterns for the clinical unit and is illustrated at Figure 2. The data generated provided useful information to the observer, e.g., peak direct care activity times, routine times for performing the direct nursing care activities, scheduled patient teaching sessions, routine surgery days, major diagnostic tests, and direct nursing care activities that were day-specific. The second form developed was the inpatient data form AHS Form 322(OT) and is illustrated in Figure 3. This form provided the observer with the following inpatient data: (1) name; (2) age; (3) sex; (4) constraints; and (5) special direct nursing care requirements. Based upon the analysis of the data generated during the pilot study it was determined

Figure 2

DIRECT NURSING CARE ACTIVITIES PATTERN FORM

DATE _____

MTF _____

CLINICAL UNIT _____

HEAD NURSE _____

WARD MASTER _____

1. PEAK NURSING ACTIVITY TIMES

DAY	MORNING	EVENING
MONDAY	_____	_____
TUESDAY	_____	_____
WEDNESDAY	_____	_____
THURSDAY	_____	_____
FRIDAY	_____	_____
SATURDAY	_____	_____
SUNDAY	_____	_____

2. ROUTINE TIMES FOR PERFORMING NURSING ACTIVITIES

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____

Figure 2 con't

12. _____
13. _____
14. _____
15. _____

3. SCHEDULED PATIENT TEACHING SESSIONS

1. _____
2. _____
3. _____
4. _____
5. _____

4. ROUTINE SURGERY DAYS/MAJOR DIAGNOSTIC TEST

1. _____
2. _____
3. _____

5. NURSING ACTIVITIES THAT ARE DAY - SPECIFIC

1. _____
2. _____
3. _____
4. _____
5. _____

INPATIENT DATA FORM

DATE: _____

HEAD NURSE: _____

WARD/UNIT #: _____

WARDMASTER:

[illegible]

that a minimum of thirty measurements for each direct nursing care activity from the major clinical areas at the principal test facility was required and that a minimum of thirty measurements for each direct nursing care activity from across the major clinical areas were required from the other eight medical treatment facilities.

f. Selection of Test Sites. The selection of the medical treatment facilities as test sites was based upon the analysis of the US Army Health Services Command assignments list, and the types of physical facilities available within the continental United States. The following medical treatment facilities were selected to participate in the study:

Brooke Army Medical Center
Fitzsimons Army Medical Center
Eisenhower Army Medical Center
Letterman Army Medical Center
William Beaumont Army Medical Center
Martin US Army Community Hospital, Fort Benning
Darnall US Army Community Hospital, Fort Hood
Silas B. Hayes US Army Community Hospital, Fort Ord
Reynolds US Army Community Hospital, Fort Sill
Tuttle US Army Community Hospital, Fort Stewart
Womack US Army Community Hospital, Fort Bragg

2. Phase Two: Minimal Essential Mean Tasking Time Determination.

2.1 Objectives.

In phase two the major purpose was to establish the minimal essential mean tasking time for each of the 357 direct nursing care activities included on the direct nursing care activities tasking document. The objectives for phase two were:

a. To determine the minimal essential mean tasking time requirement for frequently occurring direct nursing care activities within the critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric clinical services.

b. To determine the skill level and number of nursing personnel performing the direct nursing care activities.

2.2 Study Question.

To what effect do age, and sex of patients have on the minimal essential mean tasking time for each direct nursing care activity?

2.3 Methodology.

In phase two the observers were selected and subjected to a prescribed period of standardized instructions. When observer reliability

was demonstrated, the study team conducted on-site observations, utilizing nine acute care medical treatment facilities ranging in size from 50 to 530 operating beds. The following medical treatment facilities were utilized for phase two study efforts:

Code Number	Medical Treatment Facility	Number Operating Beds
01	Brooke Army Medical Center	530
03	Eisenhower Army Medical Center	325
04	Letterman Army Medical Center	300
08	William Beaumont Army Medical Center	370
10	Martin US Army Community Hospital	215
15	Darnall US Army Community Hospital	190
19	Silas B. Hayes US Army Community Hospital	135
22	Reynolds US Army Community Hospital	130
27	Tuttle US Army Community Hospital	50

A briefing was provided at each of the test sites and the Department of Nursing was informed as to the purpose of the study, conduct of the study, and the kind of assistance the nursing personnel must provide in support of the study team.

2.4 Data Collection.

Timed observations were taken from all shifts, seven days a week, over a one year period, utilizing continuous observation, with observers "shadowing" nursing personnel. A member of the study team was available by pager for those direct nursing care activities that were infrequently occurring, that is, to assure an adequate sample size for those direct nursing care activities which impact upon nursing time. The length of the data collection period was determined by the design, size and clinical services available for each medical treatment facility. The Aristo stopwatch APOLLO 613 timer were the instruments utilized to measure each direct nursing care activity in minutes and seconds. The data points collected for each timed observation were: (a) direct nursing care activity time in minutes and seconds; (b) age and sex of patient; (c) patient constraints; (d) time of day; (e) presence or absence of patients' ability to assist; and (f) number by skill level of care providers. On-site measurements were conducted on the following types of clinical services: (a) medical; (b) surgical; (c) pediatric; (d) newborn nursery; (e) obstetric; and (f) psychiatric. Measurements were obtained from the following types of intensive care units: (a) medical intensive care; (b) surgical intensive care/trauma unit; (c) thoracic-cardiovascular intensive care; (d) neuro-surgery intensive care; (e) coronary care; (f) neonatal intermediate and intensive care; and (g) pediatric intensive care.

2.5 Data Analysis.

Timed observations of the 357 direct nursing care activities generated 37,000 time measurements; approximately 27,000 adult measurements and 10,000 pediatric measurements. It is of interest to note that actual recorded man-hour expenditure for the major portion of phase two data collection was 7,000 man-hours, or approximately five measurements per

man-hour. The data were then carefully reviewed by the project officer with unusable data being purged. After the data were transcribed to key-tape by the Production Control Branch of Health Care Systems Support Activity (HCSSA), Health Services Command (HSC), a purging program designed jointly by the project officer and HCSSA was employed to highlight possible errors such as improper task codes, unlikely times, improper provider codes, etc. The project officer reviewed each of the possible errors, correcting and accepting where possible and eliminating the unacceptable data. The data were analyzed using a one-way analysis of variance with a Scheffé technique to assess differences between facilities. This technique was utilized since the Scheffé uses a single range value for all comparisons, which is appropriate for examining possible linear combinations of group means, and comparing means, not just pairs. Thus, it is more feasible than other tests, and the Scheffé's greatest advantage is the handling of unequal cell size.

To meet the first stated objective for phase two all timed measurements within the 95 percent confidence interval for the mean were utilized in determining the minimal essential mean tasking time for adult and pediatric direct nursing care activities. Mean times were computed to establish the homogeneity of the data among the clinical units. Appendix C displays the minimal essential mean tasking time in minutes by unit types. The composition of these groups are displayed in Table 1.

Table 1
Group Composition by Clinical Units

GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V	GROUP VI	GROUP VII
01 Medical Intensive Care	10 Obstetrics	18 Psychiatry	10 Obstetrics	01 Medical Intensive Care	06 Pediatric Intensive Care	10 Obstetrics
02 Surgical Intensive Care			11 Gynecology	02 Surgical Intensive Care		11 Gynecology
03 Thoracic-Cardiovascular Intensive Care			15 Medicine	03 Thoracic-Cardiovascular Intensive Care	07 Neonatal Intensive Care	15 Medicine
04 Coronary Care			16 Surgery	04 Coronary Care	08 Pediatrics	16 Surgery
05 Neurosurgery Intensive Care			18 Psychiatry	05 Neurosurgery Intensive Care	09 Newborn Nursery	
				10 Obstetrics		
				11 Gynecology		
				15 Medicine		
				16 Surgery		
				18 Psychiatry		

Descriptive statistics for adult direct nursing care activities for critical care, medical/surgical, obstetric and psychiatric clinical services are located at Appendix D. These data are displayed for each direct nursing care activity. The descriptive statistics presented are: mean activity time in minutes, standard deviation, variance, range, sample size for facilities within the 95 percent confidence interval for mean. Of the 357 direct nursing care activities included within these analysis only 40 direct nursing care activities from the nine test sites were outside the 95 percent confidence interval for the mean. The large standard deviations reveal the wide range of time values that most of the direct nursing care activities experience. Since this is expected, the large standard deviations are somewhat encouraging in that they tend to indicate a representative sample. Unfortunately, five of the psychiatric direct nursing care activities had unacceptably small sample sizes. Mean times for these five direct nursing care activities were, therefore, established by consensus nursing opinion.

Descriptive statistics for pediatric direct nursing care activities for newborn nursery, intermediate and neonatal intensive care, pediatrics and pediatric intensive care are located at Appendix E. The data are displayed for each direct nursing care activity by mean activity time in minutes, standard deviation, variance, range, sample size and facilities within the 95 percent confidence interval for mean. Of the 357 direct nursing care activities included within these analyses 62 of the direct nursing care activities from the nine test sites were outside of the 95 percent confidence interval for the mean. However, one must use caution when interpreting these findings, as age influences the minimal essential mean tasking time and the age groups among the test facilities were not strictly comparable. Moreover, to compute significance scores for each direct nursing care activity requires a representative sample for each age group from each medical treatment facility included with the data collection efforts.

The second objective addressed in phase two was to determine the skill level and number of nursing personnel performing the direct nursing care activities. The data were analyzed to determine the number of personnel performing the direct nursing care activities. The mean number of personnel observed in performing the required direct nursing care activities by groups of Clinical Codes are presented in Appendix F. The composition of these clinical groups are displayed in Table 2.

Table 2
Group Composition by Clinical Unit

GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V	GROUP VI
01 Medical Intensive Care	01 Medical Intensive Care	10 Obstetrics	18 Psychiatry	06 Pediatric Intensive Care	01 Medical Intensive Care
02 Surgical Intensive Care	02 Surgical Intensive Care			07 Neonatal Intensive Care	02 Surgical Intensive Care
03 Thoracic-Cardiovascular Intensive Care	03 Thoracic-Cardiovascular Intensive Care			08 Pediatrics	03 Thoracic-Cardiovascular Intensive Care
04 Coronary Care	04 Coronary Care			09 Newborn Nursery	04 Coronary Care
05 Neurosurgery Intensive Care	05 Neurosurgery Intensive Care				05 Neurosurgery Intensive Care
	10 Obstetrics				06 Pediatric Intensive Care
	11 Gynecology				07 Neonatal Intensive Care
	15 Medicine				08 Pediatrics
	16 Surgery				09 Newborn Nursery
	18 Psychiatry				10 Obstetrics
					11 Gynecology
					15 Medicine
					16 Surgery
					18 Psychiatry

The findings indicate that the mean number of personnel observed performing these activities displayed a relatively even distribution across the preselected clinical groups.

The second variable considered in meeting objective number two was to determine the skill level of nursing personnel performing the direct nursing care activities. Each of the 357 direct nursing care activities were examined independently. The percentage scores for three groups of care providers were established for the critical care, medical/surgical, obstetric, psychiatric, neonatal and pediatric clinical services. Tables 3-8 display the percentage tables for care provider mix for each of these clinical services.

Table 3
Percentage Table for Care Provider Mix for Critical Care

	* Professional	Technical	Paraprofessional
Hygiene	21	71	8
Nutrition/ Elimination	36	58	6
Mobility/ Exercise/ Safety	34	60	6
Medication	88	12	0
Vital Signs/ Assessment/ Diagnostic Test	49	48	3
Psychological/ Patient Teaching	65	35	0
Gastrointestinal	59	41	0
Respiratory	39	58	3
Cardiovascular/ Temperature Regulation	69	30	1
Skin	41	52	7
Skeletal/ Neurological/EENT	32	55	13
Urological/ Gynecological	27	66	7
Other Therapeutic Activities/ Modalities	46	49	5

* Professional = Registered Professional Nurses
 (ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
 (DAC GS 5-6, 91C10-40 and 91B40)

Paraprofessional = Nursing Assistants
 (DAC GS 3-4 and 91B10-30)

Table 4

Percentage Table for Care Provider Mix for Medical/Surgical

	* Professional	Technical	Paraprofessional
Hygiene	15	61	24
Nutrition/ Elimination	25	55	20
Mobility/ Exercise Safety	26	53	21
Medication	90	9	1
Vital Signs/ Assessment/ Diagnostic Test	30	47	23
Psychological/ Patient Teaching	60	28	12
Gastrointestinal	39	41	20
Respiratory	29	56	15
Cardiovascular/ Temperature Regulation	75	21	4
Skin	23	55	22
Skeletal/ Neurological/EENT	46	33	21
Urological/ Gynecological	37	50	13
Other Therapeutic Activities/ Modalities	54	36	10

* Professional = Registered Professional Nurses
(ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
(DAC GS 5-6, 91C10-40, and 91B40)

Paraprofessional = Nursing Assistants
(DAC GS 3-4 and 91B10-30)

Table 5

Percentage Table for Care Provider Mix for Obstetrics

	* Professional	Technical	Paraprofessional
Hygiene	15	61	24
Nutrition/ Elimination	24	55	21
Mobility/ Exercise/ Safety	26	54	20
Psychological/ Patient Teaching	60	28	12
Vital Signs/ Assessment/ Diagnostic Test	28	48	24
Medication	89	9	2
Gastrointestinal	40	39	21
Respiratory	37	47	16
Cardiovascular	74	21	5
Skin	25	52	23
Skeletal/ Urological/ Gynecological	33	47	20
Obstetrical	65	25	10
Other Therapeutic Activities/ Modalities	42	43	15

* Professional = Registered Professional Nurses
(ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
(DAC GS 5-6, 91C10-40, and 91B40)

Paraprofessional = Nursing Assistants
(DAC GS 3-4 and 91B10-30)

Table 6
Percentage Table for Care Provider Mix for Psychiatry

	* Professional	Technical	Paraprofessional
Psychiatric	19	60	21
Psychological	53	33	14
Neurological	73	24	3
Medication	90	8	2
Nutrition	20	57	23
Vital Signs/ Assessment	25	48	27
Patient Teaching	83	10	7
Diagnostic Test	47	40	13
Hygiene	12	64	24
Elimination	31	51	18
Mobility/ Exercise	31	49	20
Other Therapeutic Activities/ Modalities	47	38	15

* Professional = Registered Professional Nurses
(ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
(DAC GS 5-6, 91C10-40, 91F10-40 and 91B40)

Paraprofessional = Nursing Assistants
(DAC GS 3-4 and 91B10-30)

Table 7

Percentage Table for Care Provider Mix for Neonatal

	* Professional	Technical	Paraprofessional
Hygiene	52	36	12
Nutrition/ Elimination	60	29	11
Mobility/ Exercise/ Safety	61	31	8
Psychological/ Family Teaching	64	28	8
Vital Signs/ Assessment Diagnostic Test	65	26	9
Gastrointestinal	84	15	1
Respiratory	78	19	3
Cardiovascular/ Temperature Regulation	86	11	3
Skin	60	26	14
EENT	79	17	4
Urological	64	24	12
Medication	84	15	1
Other Therapeutic Activities/ Modalities	49	40	11

* Professional = Registered Professional Nurses
(ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
(DAC GS 5-6, 91C10-40, and 91B40)

Paraprofessional = Nursing Assistants
(DAC GS 3-4 and 91B10-30)

Table 8
Percentage Table for Care Provider Mix for Pediatrics

	* Professional	Technical	Paraprofessional
Hygiene	40	43	17
Nutrition/ Elimination	57	30	13
Mobility/ Exercise/ Safety	57	32	11
Medication	84	15	1
Vital Signs/ Assessment/ Diagnostic Test	62	27	11
Gastrointestinal	84	15	1
Respiratory	76	21	3
Cardiovascular/ Temperature Regulation	87	11	2
Skin	55	40	5
Skeletal/ Neurological/ EENT	81	13	6
Urological	70	18	12
Psychological/ Patient and Family Teaching	62	30	8
Other Therapeutic Activities/ Modalities	67	23	10

* Professional = Registered Professional Nurses
(ANC and DAC GS 7-13)

Technical = Licensed Vocational/Technical Nurses
(DAC GS 5-6, 91C10-40, and 91B40)

Paraprofessional = Nursing Assistants
(DAC GS 3-4 and 91B10-30)

The study question addressed to what effect do age and sex of patients have on the minimal essential mean tasking time for each direct nursing care activity?

The data were analyzed by age group to determine if the findings by age group were comparable. The adult age groups considered in these analyses were as displayed in Table 9.

Table 9

Adult Age Groups

Group	Age Range
I	16 through 25 years
II	26 through 55 years
III	56 through 65 years
IV	66 through 75 years
V	76 through 99 years

The results from these analyses indicated that the minimal essential mean tasking time in minutes by age groups show a relatively even distribution. The minimal essential mean tasking time in minutes for each direct nursing care activity by adult age group are located in Appendix G.

The pediatric age groups considered in these analyses were as presented in Table 10.

Table 10

Pediatric Age Groups

Group	Age Range
I	<1 through 2 years
II	3 through 5 years
III	6 through 11 years
IV	12 through 15 years

The findings from these analyses indicated that the minimal essential mean tasking time in minutes by age groups were not evenly distributed (Appendix H). The evidence provided by these data suggest that age of the pediatric patient affected the minimal essential mean tasking time in minutes for those identified direct nursing care activities subjected to these analyses. Table 11 presents the minimal essential mean tasking time in minutes for those identified direct nursing care activities across the pediatric age groups.

Table 11

Pediatric Minimal Essential Mean Tasking Time in Minutes for
Seven Direct Nursing Care Activities by Age Group

Direct Nursing Care Activity	Group I	Group II	Group III	Group IV
Bathing, Complete	6.2989	9.5243	18.4939	24.8400
Bathing, Assist with Back and Legs	*	8.3150	10.3250	16.5500
Incontinent Care	2.4697	4.8500	5.3343	7.9350
Venipuncture, Blood Sample	6.8153	6.0943	3.6018	4.6242
Venipuncture, Blood Culture	6.9200	5.0233	2.9700	3.7600
Intravenous Infusion, Initiating	15.0481	12.6200	8.1669	8.1669
Wound Irrigation	7.7758	10.5000	16.2373	16.2673

The data were subjected to additional analyses to determine to what effect do sex of patients have on the minimal essential mean tasking time for each direct nursing care activity. Descriptive statistics were computed by sex for the adult patient and the mean activity time in minutes, standard deviation, variance and sample size for each direct nursing care activity by sex are presented in Appendix I. In those activities with an adequate sample size the minimal essential mean tasking time showed a relatively even distribution. However, the sample size for many of the direct nursing care activities was not adequate for statistical comparison. It is of interest to note that the overall mean tasking time for adult male patients was 4.32 minutes, while the overall mean for adult female patients was 4.42 minutes. Descriptive statistics were computed by sex of the pediatric patient and in those direct nursing care activities with an adequate sample size the minimal essential mean tasking time showed a relatively even distribution. The sample size for many of the pediatric direct care activities was not adequate for statistical comparison. The overall mean tasking time for the male pediatric patient was 3.83 minutes and the female pediatric patient was 3.55 minutes.

K. FINDINGS.

The data analysis of the 528 inpatient clinical records generated a nominal listing of direct nursing care activities for each inpatient clinical service and established the initial framework for the direct

nursing care activities tasking document. The content validity was examined by comparing the direct nursing care activities tasking document with authoritative literature; unanimous agreement was obtained from the professional nurses included within the Delphi studies as to clarity, validity, representativeness of the population and specificity of the operational definitions. The results of phase one provided a data base for developing a model for direct nursing care activities so that these observable nursing care activities could undergo timed measurements.

Timed observations of the 357 direct nursing care activities generated 37,000 timed measurements. These data were analyzed using a one-way analysis with a Scheffe technique to determine differences between facilities. All timed measurements within the 95% confidence interval for the mean were utilized in determining the following: (1) minimal essential mean tasking time for adult direct nursing care activities; (2) minimal essential mean tasking time for pediatric direct nursing care activities; (3) mean number of personnel required to perform direct nursing care activities; and (4) personnel mix percentage scores for each direct nursing care activity.

Moreover, the results were utilized to identify those direct nursing care activities which most influence the total patient care requirements. These groupings of direct nursing care activities were considered to be patient care indicators. The patient care indicators identified included: (1) hygiene; (2) nutrition/elimination; (3) mobility/exercise/safety; (4) psychological/patient teaching; (5) vital signs/assessment/diagnostic tests; (6) medication; (7) gastrointestinal; (8) respiratory; (9) cardiovascular/temperature regulation; (10) skin; (11) skeletal/neurological/EENT; (12) urological/gynecological; (13) obstetric; (14) psychiatric; and (15) other therapeutic activities/modalities.

L. REFERENCES.

1. Accreditation Manual for Hospitals, AMH 81 Edition, Joint Commission on Accreditation of Hospitals, pp. 115-121. Joint Commission on Accreditation of Hospitals, 875 North Michigan Avenue, Chicago, Ill., 60611.
2. Ambrose, David M. Physicians and nurses rank importance of nursing activities. Hospitals, J.A.H.A., 1977, 51, 115-118.
3. Aydelotte, Myrtle K. Standard 1: Staffing for quality care. Journal of Nursing Administration, 1973, 3, 33-36.
4. Aydelotte, Myrtle K. Nurse Staffing Methodology: A Review and Critique of Selected Literature (U.S. National Institutes of Health Pub. No. 73-433). Washington: U.S. Government Printing Office, 1973.
5. Bailit, Howard, Lewis, Judy, Hochheiser, Louis, and Bush, Nancy. Assessing the quality of care. Nursing Outlook, 1975, 23, 153-59.
6. Barham, Virginia Z. and Schneider, William R. MATRIX: a unique patient classification system. Journal of Nursing Administration, 1980, 10, 25-31.
7. Berry, Velma I and Reichelt, Paul A. Using routinely collected data for staffing decisions, Hospitals, J.A.H.A., 1977, 51, 89-92.
8. Birckhead, Loretta Macon. Nursing and the technetronic age. Journal of Nursing Administration, 1978, 8, 16-19.
9. Cash, A Study of Nursing Time Requirements for Patients of Various Age Groups. Commission for Administrative Services in Hospitals, 1966.
10. Cassem, Ned H. Reply to Tom Sharkey, R.N.. Journal of Critical Care, 1978, 7, 508.
11. Chagnon, M., Audette, L., and Tilquin, C. Patient classification by care required. DIMENSIONS in Health Service, 1977, 54, 32-36.
12. Chagnon, Monique, Audette, Lise-Marie, Lebrun, Louise and Tilquin, Charles. A patient classification system by level of nursing care requirements. Nursing Research, 1978, 27, 107-12.
13. Chagnon, Monique, Audette, Lise-Marie, Lebrun, Louise, and Tilquin, Charles. Validation of patient classification through evaluation of the nursing staff degree of occupation. Medical Care, 1978, 16, 465-75.
14. Clark, Louise E. Can the nursing workload be measured? Supervisor Nurse, 1970, 1, 14-24.
15. Clark, Louise E. and Diggs, Walter W. Quantifying patient care needs. Hospitals, J.A.H.A., 1971, 45, 96-100.
16. Clark, Louise E. A model of nurse staffing for effective patient care. Journal of Nursing Administration, 1977, 7, 22-27.

17. Claussen, Esther. Categorization of Patients According to Nursing Care Needs. Military Medicine, 1955, 116, 209-214.
18. Cochran, Jeannette. Patient acuity system for nurse staffing. Hospital Progress, 1975, 56, 51-54.
19. Cochran, Jeanette. Refining a patient-acuity system over four years. Hospital Progress, 1979, 60, 55-60.
20. Connor, Robert J. A Hospital Inpatient Classification System. Doctoral Dissertation, John Hopkins University, 1960.
21. Connor, Robert J. Effective use of nursing resources. Hospitals, J.A.H.A., 1961, 35, 30-39.
22. Corpuz, Tita. Primary nursing meets needs, expectations of patients and staff. Hospitals, J.A.H.A., 1977, 51, 95-98.
23. Densen, Paul M. and Jones, Ellen W. 14. The patient classification for long-term care developed by four research groups in the United States. Medical Care 1976, 14, 126-33.
24. Des Ormeaux, Susan P. Implementation of the CASH patient classification system for staffing determination. Supervisor Nurse, 1977, 8, 29-35.
25. Diggs, Walter W. Patient Mix: the missing ingredient in understanding hospital costs. Hospital Topics, 1973, 51, 15-15.
26. Duraiswamy, N., Welton, R., and Reisman, A. Using computer simulation to predict ICU staffing needs. Journal of Nursing Administration, 1981, 11, 39-44.
27. Edgecumbe, Robert H. The CASH approach to hospital management engineering. Hospitals, J.A.H.A., 1965, 39, 70-74.
28. Eusano, Patricia L. Effective scheduling--the foundation for quality care. Journal of Nursing Administration, 1978, 8, 12-17.
29. Finlayson, Hal. The NUMBERS approach to nursing management. DIMENSIONS in Health Service, 1976, 53, 39-44.
30. Foley, William J. and Schneider, Donald P. A comparison of the level of care predictions of six long-term care patient assessment systems. American Journal of Public Health, 1980, 70, 1152-61.
31. Friss, Lois. What do nurses do? Journal of Nursing Administration, 1977, 7, 24-28.
32. Gardner, Mary Anne. The Development of a Patient Classification System for Medical/Surgical Patients in an Acute Care Setting. Monterrey, California: Naval Postgraduate School, June 1979.
33. Georgette, Janet Kinney. Staffing by patient classification. Nursing Clinics of North America, 1970, 5, 329-39.
34. Giovannetti, Phyllis. Understanding patient classification systems. Journal of Nursing Administration, 1979, 9, 4-9.

35. Giovannetti, Phyllis and McKague, Laverne. Patient Classification System and Staffing By Workload Index: A Working Manual. Available from Hospital Systems Study Group. 3337 8th Street East at Acadia Drive, Saskatoon, Saskatchewan, Canada S7H4K1.
36. Gortner, Susan R. Nursing Research: out of the past and into the future. Nursing Research, 1980, 29, 204-07.
37. Haussman, R.K. Dieter, Hegyvary, Sue Thomas, Newman, John F., and Bishop, Anelle C. Monitoring quality of nursing care, methodology Health Services Research, 1974, 9, 135-48.
38. Hearn, Catherine Rhys and Potts, D. The effect of patients' individual characteristics upon activity times for items of nursing care. International Journal of Nursing Studies, 1978, 15, 23-30.
39. Hegyvary, Sue Thomas and Haussmann, R.K. Dieter. Monitoring nursing care quality. Journal of Nursing Administration, 1975, 5, 17-26.
40. Holbrook, Fred K. Charging by level of nursing care. Hospitals, J.A.H.A., 1972, 46, 80-88.
41. Howarth, Margaret Helen. Activity sampling in nursing. International Journal of Nursing Studies, 1976, 13, 47-53.
42. Huckabay, Loucine M.D. and Skonieczny, Ruth. Patient classification systems: the problems faced. Nursing and Health Care, 1981, 2, 89-102.
43. Hudson, Judith, Caruthers, Tina Etling, and Latiegné, Karen. Intensive care nursing requirements: resource allocation according to patient status. Critical Care, 1977, 7, 69-75.
44. Hurtado, Arnold V. and Greenlick, Merwyn R. A Disease Classification System for analysis of medical care utilization, with a note on symptom classification. Health Services Research, 1971, 6, 235-50.
45. Jacobs, Stanley E., Patchin, Naomi and Anderson, Glen L., Older Patients Get More Care, Hospitals, J.A.H.A., 43, 47-49.
46. Jelinek, Richard C., Haussmann, R.K. Dieter, Hegyvary, Sue T., and Newman, John F. A Methodology for Monitoring Quality of Nursing Care (HRA 74-25). U.S. Department of Health, Education, and Welfare, Bureau of Health Resources Development, Division of Nursing, Bethesda, Maryland, January 1974.
47. Kaplan, Robert S. Analysis and control of nurse staffing. Health Services Research, 1975, 10, 27896.
48. Kessner, David M., Kalk, Carolyn E., and Singer, James. Assessing health quality--the case for tracers. The New England Journal of Medicine, 1973, 288, 189-94.
49. Kraegel, Janet M., Schmidt, Virginia, Shukla, Ramesh K., and Goldsmith, Charles E. A system of patient care based on patient needs. Nursing Outlook, 1972, 20, 257-64.
50. Kuhn, Barbara G. Prediction of nursing requirements from patient characteristics. International Journal of Nursing Studies, 1980, 17, 5-15.

51. MacDonell, J.A. 15. Canadian experience with patient care classification. Medical Care, 1976, 14, 134-37.
52. McCartney, Richard A., McKee, Barbara, and Cady, Lee D. Nurse Staffing Systems. Hospitals, J.A.H.A., 1970, 44, 102-05.
53. McClain, John O. and Rao, Vithala R. Trade-offs and conflicts in evaluation of health system alternatives: methodology for analysis. Health Services Research, 1974, 9, 35-52.
54. McWhirt, Frances D. Staffing in a Psychiatric unit. Supervisor Nurse, 1977, 8, 27-31.
55. McCormick, Patricia, Roche, Joan M., and Steinwachs, Donald M. Predicting nurse staffing. Hospitals, J.A.H.A., 1973, 47, 68-70.
56. McPhail, Aileen. The meaning of patient classification. DIMENSIONS in Health Service, 1975, 52, 30-1.
57. Meyer, Diane. GRASP system covers all nursing activities. Journal of Nursing Administration, 1980, 10, 42.
58. Meyer, Diane. Workload management system ensures stable nurse-patient ratio. Hospitals, J.A.H.A., 1978, 52, 81-85.
59. Michela, William A. Staffing patterns in medical and surgical units. Hospitals, J.A.H.A., 1979, 53, 29-30.
60. Miller, Elizabeth A. Staffing with the aid of dependency indices. Nursing Times, 1976, 72, 113-15.
61. Mills, Richard. A simple method for predicting days of increased patient census. Journal of Nursing Administration, 1977, 7, 15-20.
62. Minetti, Robert and Hutchinson, Joseph. System achieves optimal staffing. Hospitals, J.A.H.A., 1975, 49, 61-62.
63. Munson, Fred and Clinton, Jacqueline. Defining nursing assignment patterns. Nursing Research, 1979, 28, 243-49.
64. Murphy, Laurel N., Dunlay, Marjorie S., Williams, Margaret A., and McAthie, Marylou. Methods for Studing Nurse Staffing in a Patient Unit (HRA 78-3). U.S. Department of Health, Education, and Welfare, Bureau of Health Manpower, Division of Nursing, Hyattsville, Maryland, May 1978.
65. Nield, Margaret. Developing a projected nurse staffing program. Supervisor Nurse, 1975, 6, 17-18.
66. Norby, Ronald B., Freund, Louis E., and Wagner, Barry. A nurse staffing system based upon assignment difficulty. Journal of Nursing Administration, 1977, 7, 2-24.
67. Nursing Staff Requirements for In-Patient Health Care Services. American Nurses' Association Commission on Nursing Services, 1977.
68. Nyberg, Jan and Simler, Monica. Developing a Framework for an integrated nursing department. Journal of Nursing Administration, 1979, 9, 9-15.

69. Overton, P., Harrison, F., and Stinson, S. Patient classification by types of care. DIMENSIONS in Health Service, 1977, 54, 27-30.
70. Patterson, D. An exercise in patient classification as a means of calculating staffing requirements. Jamaican Nurse, 1976, 16, 7-8.
71. Plummer, Johanna. Patient classification proves staffing needs. DIMENSIONS in Health Service, 1976, 53, 36-37.
72. Poland, Marilyn, English, Nellie, Thorton, Nancy and Owens, Donna. PETO: A system for Assessing and Meeting Patient Care Needs. American Journal of Nursing, 1970, 7, 1479-1482.
73. Preston, Ruth A. Add meaning to your hospital census. Nursing Outlook, 1962, 10, 466-8.
74. Price, Elmina M. Staffing: the most basic nursing service problem. Supervision Nurse, 1975, 6, 27-31.
75. Ramey, Irene G. Eleven steps to proper staffing, Hospitals, J.A.H.A., 1973, 47, 98-104.
76. Reinert, Pamela and Grant, Donald R. A classification system to meet today's needs. Journal of Nursing Administration, 1981, 11, 21-26.
77. Rinehart, Elma L. Management of Nursing Care. New York: MacMillan Company, 1969.
78. Roehrl, Patricia Kelly. Patient classification: a pilot test. Supervisor Nurse, 1979, 10, 21-27.
79. Ryan, Betty Jane. Nursing care plans: a systems approach to developing criteria for planning and evaluation. Journal of Nursing Administration, 1973, 3, 50-58.
80. Ryan, Tula, Barker, Betty L., and Marciante, F. Anthony. A system for determining appropriate nurse staffing. Journal of Nursing Administration, 1975, 5, 30-38.
81. Schmied, Elsie. Allocation of resources: preparation of the nursing department budget. Journal of Nursing Administration, 1977, 7, 31-36.
82. Selvaggi, Lois M., Eriksen, Lillian, Keon, Pat, and MacKinnon, Harold A. Implementing a quality assurance program in nursing. Journal of Nursing Administration, 1976, 6, 37-43.
83. Sheppard, Robert. Nurses help conduct time study. Hospital Topics, 1975, 53, 4-5.
84. Simborg, Donald W. Rational staffing of hospital nursing services by functional activity budgeting. Public Health Reports, 1976, 91, 118-21.
85. Smalley, Harold E. and Freeman, John R. Hospital Industrial Engineering. New York: Reinhold Publishing Corporation, 1966, pp. 237-44.
86. Steinwachs, Donald M. and Mushlin, Alvin I. The Johns Hopkins ambulatory care coding scheme. Health Services Research, 1978, 13, 36-49.

87. Thomas, Lauraine A. Predicting change in nursing values. Journal of Nursing Administration, 1971, 1, 50-58.
88. Tien, James M. Methods for Assessing Inpatient Nurse Staffing Requirements (R-1469-NYC). New York City: The Rand Institute, April 1974.
89. Trivedi, Vandanjumar M. and Hancock, Walton M. Measurement of nursing work load using head nurses' perceptions. Nursing Research, 1975, 24, 371-76.
90. Vaughan, Robert G. and MacLeod, Vernon. Nurse staffing studies: no need to reinvent the wheel. Journal of Nursing Administration, 1980, 10, 9-15.
91. Ventura, Marlene R., Hageman, Paul T., Slakter, Malcolm J., and Fox, Richard N. Interrater reliabilities for two measures of nursing care quality. Research in Nursing and Health, 1980, 3, 25-32.
92. Weinstein, Bernard M. and Lesser, Doris. Health Manpower. Hospitals, J.A.H.A., 1974, 48, 67-72.
93. Williams, Margaret A. Quantification of direct nursing care activities. Journal of Nursing Administration, 1977, 7, 15-51.
94. Wolfe, Harvey and Young, John P. Staffing the nursing unit, Nursing Research, 1965, 14, 236-243.
95. Fine, Ruth B. Controlling nurses' workloads. American Journal of Nursing, 1974, 74, 2206-07.

APPENDIX A
Standardized Instructions for Observers

STANDARDIZED INSTRUCTIONS FOR OBSERVERS

1. The purpose of the standardized instructions will be for establishing observer reliability.
2. The observer will be familiarized with the direct nursing care activities being measured and will learn the operational definition of each direct nursing care activity included on the tasking document. The observer will learn how to utilize the Aristo Stopwatch for measuring and will demonstrate proficiency in timing and recording of the observed data.
3. The observer will measure a total of twenty direct nursing care activities, and these measurements will be repeated three times or until a proficiency level is demonstrated.
4. The observer will utilize the following criteria when measuring the direct nursing care activities:
 - a. Each timed measurement will begin when the individual being rated arrives at the bedside, and will terminate when the activity has been completed and the rated individual departs the bedside.
 - b. Each observer will follow this procedure should the direct nursing care activity be interrupted for any reason. The Aristo Stopwatch will be stopped and the timing will begin when the direct nursing care activity being measured has been resumed. If the direct nursing care activity is not resumed by the rated individual then this observation will be voided.
 - c. Each observer will void any observation that is not consistent with the operational definition, or when the rated individual combines two or more direct nursing care activities.
 - d. Each observer will void any observation that includes non-nursing personnel, i.e., physicians, physical therapists, respiratory technicians and/or occupational therapists. The exception to this criteria is when the definitive operational definition includes these personnel.
5. To reduce the redundancy of the operational definition for each direct nursing care activity the following steps that are appropriate to all nursing activities have been identified:
 - a. Identify and screen the patient.
 - b. Explain the procedure to the patient.
 - c. Raise, lower, or adjust the bed before and after the direct nursing care activity.
 - d. Clean and straighten area.

6. Each participating clinical unit will be given the following general instructions on the nature of the study:

a. The purpose of the study is to determine direct nursing care requirements by developing an improved patient classification system which would provide a better staffing mix based on quantified direct care requirements.

b. The rated individual should perform the direct nursing care activity as it should/would be done if the observer were not present.

c. The observation times will cover the 24-hour day and will include weekdays and weekends. The observation schedule will be determined by the number of occupied beds so that the number of observations will be proportional to the number of beds and/or direct nursing care activity level. The study day hours will be 0700 one day to 0700 the following day.

7. The observer will report to the head nurse prior to each observation period. This courtesy report will assure the head nurse that your measurements are for the stated purpose of the study and may alleviate some of the anxiety generated by the presence of the observer.

8. The Tasking Time Data Collection Instrument will be utilized during Phase II of the study.

9. The observer will provide the following general information. (Example: MEDICAL TREATMENT FACILITY 01.)

a. Code number for the medical treatment facilities are:

- (1) Brooke Army Medical Center = 01
- (2) Fitzsimons Army Medical Center = 02
- (3) Eisenhower Army Medical Center = 03
- (4) Letterman Army Medical Center = 04
- (5) William Beaumont Army Medical Center = 08
- (6) Martin US Army Community Hospital, Fort Benning = 10
- (7) Darnall US Army Community Hospital, Fort Hood = 15
- (8) Silas B. Hayes US Army Community Hospital, Fort Ord = 19
- (9) Reynolds US Army Community Hospital, Fort Sill = 22
- (10) Tuttle US Army Community Hospital, Fort Stewart = 27
- (11) Womack US Army Community Hospital, Fort Bragg = 11

b. Name of Observer.

10. The observer will record the following information on each task measured:

a. Calendar Date - Example: 13 Jul 78.

b. Time - 24-hour clock - Example: 0710.

c. Code number for Type Unit/Ward # - Example: 01/42E.

- (1) Medical Intensive Care = 01
- (2) Surgical Intensive Care = 02
- (3) Thoracic-Cardiovascular Intensive Care = 03
- (4) Coronary Care = 04

- (5) Neurosurgery Intensive Care = 05
- (6) Pediatric Intensive Care = 06
- (7) Neonatal Intensive Care = 07
- (8) Pediatrics = 08
- (9) Newborn Nursery = 09
- (10) Obstetrics = 10
- (11) Gynecology = 11
- (12) Medicine = 15
- (13) Surgery = 16
- (14) Psychiatry = 18

d. Nursing Activity Code - Example: 0101.

- (1) Bathing, Complete = 0101
- (2) Bathing, Assist with Back and Legs = 0102.
- (3) Bathing, Utensils Provided = 0113
- (4) Tub Bath = 0116
- (5) Sitting Shower/Shower with Assistance = 0115
- (6) AM Care = 0104
- (7) AM Care, Partial = 0114
- (8) AM Care, Utensils Provided = 0112
- (9) Oral Hygiene = 0103
- (10) PM Care = 0105
- (11) Nail Care = 0106
- (12) Shampoo = 0107
- (13) Shaving = 0108
- (14) Occupied Bed = 0109
- (15) Unoccupied Bed = 0110
- (16) Changing Bottom Sheet = 0111
- (17) Changing Top Sheet = 0117
- (18) Changing Bed Linen Protector/Chux = 0118
- (19) Feeding = 0201
- (20) Fluid = 0202
- (21) Snack = 0203
- (22) Serving Meal Tray, Preparation Required = 0204
- (23) Serving Meal Tray, No Preparation Required = 0211
- (24) Special Feeding - Nasogastric = 0205
- (25) Special Feeding - Gastrostomy = 0206
- (26) Special Feeding - Hyperalimentation/Intravenous = 0207
- (27) Special Feeding - Nasogastric, Continuous Infusion Pump = 0209
- (28) Special Feeding - Nasogastric, Continuous with Gastric Feeding Equipment = 0210
- (29) Measuring and Recording Intake = 0208
- (30) Measuring and Recording Output - Urine = 0301
- (31) Measuring and Recording Output - Liquid Feces = 0302
- (32) Measuring and Recording Output - Vomitus = 0303
- (33) Measuring and Recording Output - Drainage Bottles, All Types = 0304
- (34) Output Weight - Diaper/Bed Linens = 0308
- (35) Giving a Bedpan = 0305
- (36) Giving a Urinal = 0306
- (37) Incontinent Care = 0307
- (38) Mobility - Ambulating First Time - 0401
- (39) Mobility - Bed to Floor = 0402

- (40) Mobility - Bed to Chair = 0403
- (41) Mobility - Bedside Commode = 0404
- (42) Mobility - Assistance While Walking = 0405
- (43) Mobility - Sitting on Side of Bed = 0406
- (44) Changing Patient's Position in Bed = 0501
- (45) Adjusting Position of Bed = 0502
- (46) Turning Frame, All Types = 0503
- (47) Mobility - Bed to Stretcher = 0504
- (48) Adjusting Siderail = 0505
- (49) Adjusting Restraint = 0506
- (50) Fowlers/Trendelenburg Position = 0507
- (51) Exercise - Active = 0601
- (52) Exercise - Passive = 0602
- (53) Orientation to Clinical Unit = 0701
- (54) Explanation of Procedures and Tests = 0702
- (55) Answering Patient's Question = 0703
- (56) Visiting with Patients/Purposeful Interaction = 0704
- (57) Blood Pressure, Manual = 0801
- (58) Pulse - Radial/Brachial = 0802
- (59) Pulse - Apical = 0803
- (60) Pulse - Pedal/Femoral/Popliteal = 0809
- (61) Pulse - Doppler = 0810
- (62) Respirations = 0804
- (63) Temperature - Oral, Electronic/Mercury = 0805
- (64) Temperature - Rectal, Electronic/Mercury = 0806
- (65) Temperature - Axillary, Electronic/Mercury = 0807
- (66) Oral Temperature, Pulse, & Respirations = 0808
- (67) Rectal/Axillary Temperature, Apical Pulse and Respirations = 0811
- (68) Ambulatory Weight = 0901
- (69) Bed Scale Weight = 0902
- (70) Abdominal Girth Measurement = 0903
- (71) Extremity Circumference Measurement = 0904
- (72) Monitor Leads Application/Exchange = 1001
- (73) Rhythm Strip - Monitor = 1002
- (74) Rhythm Strip - ECG Machine = 1010
- (75) 12 Lead ECG = 1003
- (76) Central Venous Pressure = 1004
- (77) Heart Sounds Assessment = 1005
- (78) Pulmonary Artery Pressure Wedge = 1006
- (79) Pulmonary Artery Pressure = 1007
- (80) Monitor Reading - Blood Pressure/Heart Rate/Pulmonary Artery Pressure/Central Venous Pressure = 1008
- (81) Rhythm Strip Measurements = 1009
- (82) Cardiac Output Measurement = 1011
- (83) Adjusting Cardiac Monitor/Connecting Leads/Reset Alarm = 1012
- (84) Pupil Reflexes = 1101
- (85) Mental Alertness = 1102
- (86) Sensory Discrimination = 1103
- (87) Orientation = 1104
- (88) Motor/Sensory Testing = 1105
- (89) Vital Capacity = 1201
- (90) Pulmonary Assessment = 1202
- (91) Bowel Sound Assessment = 2701

- (92) Nasogastric Tube - Insertion = 1301
- (93) Nasogastric Tube - Irrigation = 1302
- (94) Nasogastric Tube - Instillation = 1311
- (95) Nasogastric Tube - Removal = 1303
- (96) Enema - Cleansing = 1304
- (97) Enema - Retention = 1305
- (98) Fecal Impaction - Assessment/Removal = 1312
- (99) Colostomy - Irrigation = 1306
- (100) Colostomy - Dressing Change = 1307
- (101) Dressing Change - Ileostomy/Ileoconduit = 1310
- (102) Lavage = 1308
- (103) Paracentesis = 1309
- (104) Endoscopy = 1313
- (105) Saline Irrigation - Gastric = 1314
- (106) Proctoscopy = 1315
- (107) Rectal Tube Insertion = 1316
- (108) Rectal Tube Removal = 1317
- (109) Oxygen Administration - Nasal = 1401
- (110) Oxygen Administration - Mask = 1402
- (111) Oxygen Administration - Prongs = 1403
- (112) Oxygen Administration - Mist with Collar/Face Tent = 1424
- (113) Croup Tent = 1425
- (114) Endotracheal/Tracheostomy Tube Pressure Cuff = 1404
- (115) Tracheostomy - Changing Tube = 1405
- (116) Tracheostomy - Cleaning Cannula = 1408
- (117) Tracheostomy - Dressing Change = 1423
- (118) Chest Tube - Insertion = 1428
- (119) Chest Tube - Care = 1406
- (120) Chest Tube - Changing Bottles = 1407
- (121) Chest Tube - Removal = 1429
- (122) Chest Pulmonary Therapy - Frappage with Postural Drainage = 1409
- (123) IPPB Treatment = 1415
- (124) Maximist Treatment = 1427
- (125) Blow Bottles = 1418
- (126) Cough and Deep Breathe = 1419
- (127) Incentive Spirometer = 1420
- (128) Positioning for X-Ray = 1422
- (129) Respiratory Resuscitation = 1416
- (130) Extubation = 1430
- (131) Intubation = 1421
- (132) Suctioning - Oral = 1411
- (133) Suctioning - Tracheostomy = 1412
- (134) Suctioning - Naso-Tracheal = 1413
- (135) Suctioning - Endotracheal = 1414
- (136) Suctioning - Bulb Syringe = 1426
- (137) Thoracentesis = 1417
- (138) Bronchoscopy = 1431
- (139) Venipuncture - Blood Sample = 1501
- (140) Venipuncture - Blood Culture = 1502
- (141) Arterial Puncture - Blood Gases = 1503
- (142) Intravenous/Arterial Line - Blood Sample = 1515
- (143) Intravenous Infusion - Initiating = 1505
- (144) Intravenous Infusion - Flow Rate = 1504
- (145) Intravenous Infusion - Changing IV Bottle = 1506

- (146) Intravenous Infusion - IV Push Medication = 1507
- (147) Intravenous Infusion - IV Catheter Care = 1508
- (148) Intravenous Infusion - Piggy-Back Medication = 1509
- (149) Intravenous Infusion - Infusion Pump Setup = 1511
- (150) Intravenous Infusion - Platelets/Plasma = 1520
- (151) Intravenous Infusion - Blood = 1514
- (152) Intravenous or Arterial Line - Termination = 1510
- (153) Arterial Line - Arterial Line Setup = 1517
- (154) Arterial Line - Initiation = 1528
- (155) Arterial Line - Swan-Ganz Catheter Setup = 1518
- (156) Swan-Ganz Catheter Initiation = 1526
- (157) Swan-Ganz Catheter Removal = 1527
- (158) Arterial Line - Transducer Exchange = 1516
- (159) Surgical Intravenous Initiation, Cut Down = 1529
- (160) Cardiopulmonary Resuscitation = 1522
- (161) Cardioversion = 1523
- (162) Rotating Tourniquets = 1524
- (163) Arterial Infusion - Medication = 1525
- (164) External Pacemaker = 1521
- (165) Elastic Stockings = 1512
- (166) Ace Bandage = 1513
- (167) Decubitus Care = 1601
- (168) Skin Care = 1602
- (169) Suture/Skin Clip Removal, 15 or More = 1603
- (170) Suture/Skin Clip Removal, Less than 15 = 1622
- (171) Small Dressing Change, Less than 4" x 8" = 1604
- (172) Large Dressing Change, 4" x 8" or Greater = 1605
- (173) Reinforcing Dressing = 1606
- (174) Wound Irrigation = 1607
- (175) Soaking Hand = 1608
- (176) Soaking Feet = 1609
- (177) Hot Compress = 1610
- (178) Hot Compress - Continuous Application = 1618
- (179) Application of K-Pad = 1623
- (180) Cold Compress = 1611
- (181) Sitz Bath = 1612
- (182) Surgical Prep, Local = 1613
- (183) Surgical Prep, 3-Way = 1614
- (184) Wound Culture = 1615
- (185) Heat Lamp = 1616
- (186) Back Rub = 1617
- (187) Air Floatation/Alternating Pressure Mattress = 1619
- (188) Isolation, Gowning and Gloving = 1620
- (189) Death Care = 1621
- (190) Eye Care = 1701
- (191) Irrigation - Eye = 1702
- (192) Irrigation - Ear = 1703
- (193) Irrigation - Throat = 1704
- (194) Instillation of Drops - Eye = 1705
- (195) Instillation of Drops - Ear = 1706
- (196) Instillation of Drops - Nose = 1707
- (197) Culture - Nose = 1708
- (198) Culture - Throat = 1709
- (199) Culture - Sputum = 1710

- (200) Pin Care = 1801
- (201) Head Tongs Care = 1802
- (202) Bed Cradle = 1803
- (203) Foot Board = 1804
- (204) Ice Pack = 1805
- (205) Extremity Traction - Application = 1806
- (206) Extremity Traction - Adjust = 1809
- (207) Extremity Elevation = 1807
- (208) Cast Care = 1808
- (209) Seizure Care = 1810
- (210) Circulation Check = 1811
- (211) Catheterization - Foley = 1901
- (212) Catheterization - Straight = 1902
- (213) Foley Catheter Care = 1903
- (214) Foley Catheter Removal = 1907
- (215) Condom Catheter Application = 1912
- (216) Bladder Irrigation = 1916
- (217) Urine Specimen - Routine = 1904
- (218) Urine Specimen - Clean Catch/Foley = 1905
- (219) Perineal Care = 1906
- (220) Douche = 1908
- (221) Dilatation and Curettage = 1909
- (222) Vaginal/Pelvic Examination = 1910
- (223) Urinary Bladder Training = 1911
- (224) Peritoneal Dialysis - Initiation = 1913
- (225) Peritoneal Dialysis - Exchange of Dialysis Solutions = 1914
- (226) Peritoneal Dialysis - Removing Dialysis Catheter = 1915
- (227) Sponging = 2001
- (228) Hypothermia/Hyperthermia Treatment = 2002
- (229) Oral Medication = 2101
- (230) Intramuscular Medication = 2102
- (231) Subcutaneous Medication = 2103
- (232) Suppository, Rectal/Vaginal = 2104
- (233) Topical Medication = 2105
- (234) Sublingual Medication = 2106
- (235) Bone Marrow Aspiration = 2201
- (236) Lumbar Puncture = 2202
- (237) Liver Biopsy = 2208
- (238) Urine Testing - Protein = 2204
- (239) Urine Testing - Specific Gravity = 2206
- (240) Urine Testing - Sugar and Acetone = 2207
- (241) Guaiac Testing - Feces/Vomit/GI Drainage = 2209
- (242) Collection of Feces Sample = 2210
- (243) Hematocrit = 2211
- (244) Teaching - Medication Administration = 2301
- (245) Teaching - Insulin Administration = 2312
- (246) Teaching - Colostomy Care = 2302
- (247) Teaching - Ileostomy/Ileoconduit Care = 2314
- (248) Teaching - Urine Testing = 2304
- (249) Teaching - Blow Bottles/Incentive Spirometer = 2305
- (250) Teaching - Postural Drainage = 2303
- (251) Teaching - Dietary Explanation = 2306
- (252) Teaching - Preoperative Instruction = 2307

- (253) Teaching - Diagnostic Test = 2308
- (254) Teaching - Disease/Condition Related = 2309
- (255) Teaching - Chemotherapy Instructions = 2310
- (256) Teaching - Dressing Change = 2311
- (257) Teaching - Diabetic = 2313
- (258) Labor Room Examination and Preparation, Routine = 2434
- (259) Fetal Heart Tones, Manual = 2412
- (260) Fetal Heart Tones, Doppler = 2413
- (261) Dilatation and Effacement Assessment = 2403
- (262) Dilatation and Effacement Assessment, Assisting Physician = 2404
- (263) Vulvar/Anal Area Prep = 2401
- (264) Support During Contraction = 2402
- (265) Manual Contraction Assessment = 2410
- (266) Ultrasonic Transducer - Application = 2429
- (267) Tocotransducer - Application = 2428
- (268) Tocotransducer and Ultrasonic Transducer - Application = 2432
- (269) Adjust Ultrasonic Transducer/Tocotransducer = 2435
- (270) Monitoring Fetal Heart Tones, Ultrasonic Transducer = 2436
- (271) Monitoring Fetal Heart Tones, Ultrasonic Transducer and
Uterine Contraction/Tocotransducer = 2437
- (272) Amniotomy = 2423
- (273) Fetal Electrode Insertion = 2405
- (274) Fetal Electrode Insertion, Assisting Physician = 2406
- (275) Intrauterine Catheter Insertion = 2407
- (276) Intrauterine Catheter Insertion, Assisting Physician = 2408
- (277) Fetal Electrode Insertion/Intrauterine Catheter Insertion = 2430
- (278) Fetal Electrode Insertion/Intrauterine Catheter Insertion,
Assisting Physician = 2431
- (279) Internal or External Monitoring - Uterine Contraction/Fetal
Heart Tones = 2409
- (280) Pitocin Induction = 2427
- (281) Pitocin Induction, Assisting Physician = 2411
- (282) Fetal Scalp Sampling, Assisting Physician = 2414
- (283) Observation and Assessment, Second Stage of Labor = 2433
- (284) Routine Delivery Room Functions = 2415
- (285) Fundus Massage = 2416
- (286) Changing Perineal Pad = 2417
- (287) Perineal Suture Care = 2418
- (288) Teaching - Perineal Suture Care = 2419
- (289) Teaching - Breast Feeding = 2426
- (290) Teaching - Breast Care = 2420
- (291) Oxytocin Challenge Test = 2421
- (292) Non-Stress Test = 2422
- (293) Amniocentesis = 2424
- (294) Newborn Identification Procedure = 2425
- (295) Feeding - Graduated Feeder, Premature = 2501
- (296) Feeding - Bottle = 2501
- (297) Feeding - Oral-Gastric Tube = 2503
- (298) Feeding - Oral-Jejunostomy Tube = 2504
- (299) Assessing Gastric Residual = 2505
- (300) Bubbling Baby, Eructate = 2506
- (301) Diaper Change = 2507
- (302) Shirt Change = 2541
- (303) Urine Collection Bag - Application = 2508

- (304) Changing Linens, Newborn = 2509
- (305) Holding Newborn/Infant = 2510
- (306) Radiant Warmer - Application = 2511
- (307) Isolette - Application = 2512
- (308) Temperature Regulation - Plastic Wrap Application = 2513
- (309) Temperature Regulation - K-Pad Application = 2514
- (310) Temperature Probe - Application/Exchange = 2515
- (311) Oxyhood - Application/Replacement = 2516
- (312) Oxygen Analyzer - Utilization = 2517
- (313) Phototherapy Treatment - Application = 2518
- (314) Abdominal Girth Measurement = 2519
- (315) Chest Measurement = 2520
- (316) Body Length Measurement = 2521
- (317) Head Circumference Measurement = 2522
- (318) Weight - Neonate/Infant = 2523
- (319) Umbilical Cord - Care = 2524
- (320) Prophylactic Eye Care = 2525
- (321) Blood Pressure - Arteriosonde = 2526
- (322) Blood Pressure - Umbilical Artery = 2527
- (323) Newborn Pulmonary Assessment = 2528
- (324) Reflexes Assessment, Newborn = 2529
- (325) Initial Newborn Assessment = 2543
- (326) Blood Sample - Heel Stick = 2530
- (327) Blood Sample - Dextrostick = 2531
- (328) Intravenous Infusion - Initiating Scalp Vein = 2532
- (329) Intravenous Arterial Infusion - Umbilical Cannulation = 2533
- (330) Intravenous Arterial Infusion - Removing Umbilical Catheter =
2534
- (331) Intravenous Arterial Infusion - Transfusion Exchange = 2535
- (332) Ventricular Tap = 2536
- (333) Bladder Tap = 2537
- (334) Circumcision = 2538
- (335) Newborn Septic Workup = 2539
- (336) Physical Examination = 2540
- (337) Umbilical Cord - Culture = 2542
- (338) Umbilical Cord - Clamp = 2544
- (339) One Hour of One-to-One Observation - Arms Length = 2601
- (340) One Hour of One-to-One Observation - Constant/Close = 2602
- (341) Situational Observation = 2603
- (342) Group Therapy = 2604
- (343) Appearance, Behavior and Conversation Assessment = 2605
- (344) Extrapyramidal Syndrome Assessment = 2606
- (345) Patient Government Session = 2607
- (346) Planned Recreational Activity Session = 2608
- (347) Leather Restraint Application, 2-Point = 2609
- (348) Leather Restraint Application, 4-Point = 2610
- (349) Body Restraint - Application = 2611
- (350) Physically Restraining Patient = 2612
- (351) Placing Patient into Seclusion Room = 2613
- (352) Electroconvulsive Therapy, Assisting Physician = 2614
- (353) Individual Support Therapy - All Nursing Personnel = 2615
- (354) Individual Therapy - Contract Interview/Primary Therapist = 2616
- (355) Occupational Therapy, Nursing Support Required = 2617

- (356) Intake Interview, Interdisciplinary = 2618
 (357) Intake Interview, Admission = 2619

e. Nursing Activity Time - Minutes and Seconds - Example:

Min	Sec
3	41

f. Rank/Grade, MOS (if military), and Number of Care Providers -

Examples:

MAJ	66H	1
GS9		1

leave blank 

- (1) 66J 2LT = 001
- (2) 66J 1LT = 002
- (3) 66H 1LT = 003
- (4) 66H CPT = 004
- (5) 66H MAJ = 005
- (6) 66H LTC = 006
- (7) 66H COL = 007
- (8) 66G 1LT = 008
- (9) 66G CPT = 009
- (10) 66G MAJ = 010
- (11) 66G LTC = 011
- (12) 66G COL = 012
- (13) 66D 1LT = 013
- (14) 66D CPT = 014
- (15) 66D MAJ = 015
- (16) 66D LTC = 016
- (17) 66D COL = 017
- (18) 66C 1LT = 018
- (19) 66C CPT = 019
- (20) 66C MAJ = 020
- (21) 66C LTC = 021
- (22) 66C COL = 022
- (23) 66A CPT = 023
- (24) 66A MAJ = 024
- (25) 66A LTC = 025
- (26) 66A COL = 026
- (27) 66A BG = 027
- (28) 66B 1LT = 028
- (29) 66B CPT = 029
- (30) 66B MAJ = 030
- (31) 66B LTC = 031
- (32) 66B COL = 032
- (33) 66E 1LT = 033
- (34) 66E CPT = 034
- (35) 66E MAJ = 035
- (36) 66E LTC = 036
- (37) 66E COL = 037
- (38) 66F 1LT = 038
- (39) 66F CPT = 039
- (40) 66F MAJ = 040

(41) 66F LTC = 041
(42) 66F COL = 042
(43) DAC GS 3 = 043
(44) DAC GS 4 = 044
(45) DAC GS 5 = 045
(46) DAC GS 6 = 046
(47) DAC GS 7 = 047
(48) DAC GS 8 = 048
(49) DAC GS 9 = 049
(50) DAC GS 10 = 050
(51) DAC GS 11 = 051
(52) DAC GS 12 = 052
(53) DAC GS 13 = 053
(54) 91B10 PVT = 054
(55) 91B10 PFC = 055
(56) 91B10 SP4 = 056
(57) 91B20 PVT = 057
(58) 91B20 PFC = 058
(59) 91B20 SP4 = 059
(60) 91B20 SP5 = 060
(61) 91B30 SP5 = 061
(62) 91B30 SSG E6 = 062
(63) 91B40 SFC E7 = 063
(64) 91B50 E8 & E9 = 064
(65) 91B5M 1SG E8 = 065
(66) 91B Other = 066
(67) 91C10 PVT = 067
(68) 91C10 PFC = 068
(69) 91C10 SP4 = 069
(70) 91C20 PFC = 070
(71) 91C20 SP4 = 071
(72) 91C20 SP5 = 072
(73) 91C30 SP6 = 073
(74) 91C40 SFC E7 = 074
(75) 91C50 MSG E8 = 075
(76) 91C50 SGM E9 = 076
(77) 91C Other = 077
(78) 91D10 PVT = 078
(79) 91D10 PFC = 079
(80) 91D10 SP4 = 080
(81) 91D20 PFC = 081
(82) 91D20 SP4 = 082
(83) 91D20 SP5 = 083
(84) 91D30 SSG E6 = 084
(85) 91D40 SFC E7 = 085
(86) 91D Other = 086
(87) 91F10 PVT = 087
(88) 91F10 PFC = 088
(89) 91F10 SP4 = 089
(90) 91F20 PFC = 090
(91) 91F20 SP4 = 091
(92) 91F20 SP5 = 092
(93) 91F30 SSG E6 = 093

- (94) 91F40 SFC E7 = 094
- (95) 91F Other = 095
- (96) All "Others" = 096

g. Code Age in DAYS or MONTHS or YEARS -

Examples:

- (1) For 1-30 days, record in DAYS - 30 days (same as 31)
- (2) For 1-11 months, record in MONTHS - 3 months
- (3) For 1-99+ years, record in YEARS - 2 years (maximum "99")

h. Sex - Male/Female codes - Example: 1

- (1) Male = 1
- (2) Female = 2

i. Code number for level of patient assistance - Example: 1

- (1) Present = 1
- (2) Absent = 2
- (3) Unknown = 3

j. Code number for constraints - Example: 01

- (1) Intravenous Line (IV) = 01
- (2) Arterial Line (Arterial, Swan-Ganz) (AL) = 02
- (3) Central Venous Pressure Line (CVPL) = 03
- (4) Cardiac Monitor (KDC Monitor, Neonatal Monitor, Cavitron, Monitor, etc.) = 04
- (5) Respirator/Endotracheal Tube = 05
- (6) Foley Catheter = 06
- (7) Oxygen Administration (Face Mask, Mist Collar, Nasal Prongs, Ultrasonic Mist, Face Tent) (All Types Oxygen or Humidification) = 07
- (8) Endotracheal Tube = 08
- (9) Nasogastric Tube (N/G Tube)/Oral Gastric Tube = 09
- (10) Chest Tube = 10
- (11) Head Tongs (Crutchfield, Gardner-Wells) = 11
- (12) Stryker/Foster Frame/Circoelectric Bed = 12
- (13) Roto-Rest Bed = 13
- (14) Condom Catheter = 14
- (15) Restraints = 15
- (16) Extremity Cast = 16
- (17) Body Cast = 17
- (18) Hemovac/Drainage Tubes = 18
- (19) Tracheostomy = 19
- (20) Abduction Pillow = 20
- (21) Gastrostomy/Enterostomy Tube = 21
- (22) Hypothermia/Hyperthermia Blanket = 22
- (23) Mesh Bed = 23
- (24) Supra-pubic Catheter = 24
- (25) Hemodialysis Shunt = 25
- (26) Extremity Traction (Non-Invasive)(Sling, Velpeaus Sling) = 26
- (27) Rectal Tube = 27

- (28) Tocotransducer = 28
- (29) Ultrasonic Transducer = 29
- (30) Fetal Electrode = 30
- (31) Intrauterine Catheter = 31
- (32) Isolettes (Armstrong) All Types = 32
- (33) Urine Collection Bags/Pediatric = 33
- (34) Temperature Probe = 34
- (35) Oxyhood = 35
- (36) Umbilical Vein/Artery Infusion System = 36
- (37) Colostomy/Ileostomy/Ileoconduit Bag = 37
- (38) Bed Cradle = 38
- (39) Pelvic Traction = 39
- (40) Radiant Warmer = 40
- (41) Extremity Splint/Brace = 41
- (42) Uterostomy Tube = 42
- (43) Nephrostomy Tube = 43
- (44) Blind (Temporary/Permanent) = 44
- (45) Loss of Voice (Temporary/Permanent)(Aphasic) = 45
- (46) Loss of Extremity = 46
- (47) Deaf = 47
- (48) Obese Male (more than 220 pounds) = 48
- (49) Obese Female (more than 180 pounds) = 49
- (50) Croup Tent = 50
- (51) Non=English Speaking = 51
- (52) Respirator/Tracheostomy Tube = 52
- (53) Telethermometer = 53
- (54) Extremity Traction (Invasive) = 54
- (55) Cervical Traction = 55
- (56) External Pacemaker = 56
- (57) Neck Brace/Cervical Collar = 57
- (58) Clavicle Splint = 58
- (59) Sand Bags = 59
- (60) Paralysis/Hemiplegia/Paraplegia/Quadriplegia = 60

APPENDIX B

Tasking Document - Definitive Operational Description
of Each Direct Nursing Care Activity

DEFINITIVE OPERATIONAL DISCRIPTION OF EACH NURSING
ACTIVITY INCLUDED ON THE TASKING DOCUMENT

1. The purpose of the operational definition for each task is to establish the beginning and ending point for each task, and to numerate the major steps considered appropriate for each task.
2. To reduce the redundancy of the operational definition, the following steps appropriate to all nursing activities have been identified.
 - a. Identify and screen the patient.
 - b. Explain the procedure to the patient.
 - c. Raise, lower or adjust the bed before and after the nursing activity.
 - d. Clean and straighten area.

DEFINITIVE OPERATIONAL DESCRIPTION OF EACH NURSING ACTIVITY
INCLUDED ON THE TASKING DOCUMENT

ACTIVITIES OF DAILY LIVING

HYGIENE:

- 0101 BATHING, COMPLETE: Place equipment at bedside; remove pajamas, bathe face, chest, abdomen and extremities; change water, bathe back, buttocks and perineal area; replace pajamas; and remove equipment from area.
- 0102 BATHING, ASSIST WITH BACK AND LEGS: Place equipment at bedside; remove pajamas, allow for patient bathing as if in attendance; change water; then bathe back and lower extremities; replace pajamas and remove equipment from area.
- 0103 ORAL HYGIENE: Place equipment at bedside, turn patient to his/her side, cleanse gums, teeth and mouth with applicators; then remove equipment from area.
- 0104 AM CARE: Place equipment at bedside, assist patient with bathing face, hands, and brushing teeth; then remove equipment from area.
- 0105 PM CARE: Place equipment at bedside; bathe face and hands, brush teeth, and rub back; tighten and straighten bed linens; then remove equipment from area.
- 0106 NAIL CARE: Place equipment at bedside, wash hands/feet and nails, trim and clean finger/toe nails, remove equipment from area.
- 0107 SHAMPOO: Place equipment at bedside; position patient, wet hair and apply shampoo, lather and rinse, dry hair with towel, comb and brush hair; and then remove equipment from area.
- 0108 SHAVING: Place equipment at bedside; wet and lather face/or use an electric razor and shave face; then remove equipment from area.
- 0109 OCCUPIED BED: Place linen at bedside; turn patient on side, roll linen to one side of bed, replace with clean linen, turn patient to freshly made side of bed, remove soiled linen and complete bed making; then remove soiled linen from area.
- 0110 UNOCCUPIED BED: Place linen at bedside, remove soiled linen, place bottom sheet on mattress, then place top sheet; change pillow cases; remove soiled linen from area.
- 0111 CHANGING BOTTOM SHEET: Place linen at bedside, remove bottom sheet, replace with clean sheet, straighten top sheet; then remove soiled linen from area.
- 0112 AM CARE, UTENSILS PROVIDED: Place equipment at bedside, and then remove equipment from area when patient finishes AM care.

- 0113 BATHING, UTENSILS PROVIDED: Place equipment at bedside, allow time for patient to bathe and change pajamas; then remove equipment from area.
- 0114 AM CARE, PARTIAL: Place equipment at bedside, prepare bath water; put tooth paste on tooth brush; and remove equipment from area when patient has completed AM Care.
- 0115 SITTING SHOWER/SHOWER WITH ASSISTANCE: Upon arrival in the shower room, assist patient in undressing, into shower, with bath and hair shampoo, assist in redressing, and back into the wheelchair. (Must remain with patient and provide assistance during the entire procedure.)
- 0116 TUB BATH: Upon arrival in bathroom, assist patient in undressing, into bathtub, with bath and assist in redressing; then back into the wheelchair. (Must be in constant attendance.)
- 0117 CHANGING TOP SHEET: Place linen at bedside, remove top sheet, replace with clean sheet; then remove soiled linen from area.
- 0118 CHANGING BED LINEN PROTECTOR/CHUX: Upon arrival at bedside, position patient, remove soiled chux, place clean chux under patient, straighten bed; then remove used chux from area.

NUTRITION:

- 0201 FEEDING: Place meal tray at bedside; place towel or napkin as bib; prepare the food, feed patient slowly with appropriate utensils; then remove tray from area.
- 0202 FLUID: Place fluids at bedside, place plastic drinking tube in liquid, give fluid to patient, then remove drinking cup and/or place within reach at patient's bedside.
- 0203 SNACK: Place snack at bedside and, if required, prepare food for eating.
- 0204 SERVING MEAL TRAY, PREPARATION REQUIRED: Place tray at bedside, prepare food and utensils, and prepare towel or napkin as bib.
- 0205 SPECIAL FEEDING - NASOGASTRIC: Place feeding at bedside, unclamp tube, assess placement of tube, administer tube feeding, flush tube with water, clamp tube, record, and then remove feeding equipment from area.
- 0206 SPECIAL FEEDING - GASTROSTOMY: Place feeding at bedside, uncoil and unclamp tube, administer feeding, flush tube with water, clamp tube, recoil and replace tube, and then remove feeding equipment from area.
- 0207 SPECIAL FEEDING - HYPERALIMENTATION, INTRAVENOUS: Determine calibration of infusion equipment. Place hyperalimentation fluids at bedside, exchange filter and tubing, establish scheduled flow rate, record, and then remove equipment from area.
- 0208 MEASURING AND RECORDING INTAKE: Place calibrated cylinder/container at bedside; measure or calculate fluids and record amount on Intake and Output Record; then remove used equipment from area.

- 0209 SPECIAL FEEDING - NASOGASTRIC, CONTINUOUS WITH INFUSION PUMP: Place equipment at bedside; remove and/or position feeding bottle, connect to feeding tube, set up through flow rate adjuster of equipment, establish flow rate, record on Intake and Output Record; then remove equipment from area.
- 0210 SPECIAL FEEDING - NASOGASTRIC, CONTINUOUS FEEDING WITH GASTRIC FEEDING EQUIPMENT: Place equipment at bedside; connect to feeding tube/nasogastric tube, adjust flow rate, record on Intake and Output Record; then remove equipment from area.
- 0211 SERVING MEAL TRAY, NO PREPARATION REQUIRED: Place tray at bedside.

ELIMINATION:

- 0301 MEASURING AND RECORDING OUTPUT - URINE: Place calibrated cylinder at bedside; measure or calculate volume, record amount on Intake and Output Record; then remove equipment from area.
- 0302 MEASURING AND RECORDING OUTPUT - LIQUID FECES: Remove bedpan from patient's bedside; measure feces in calibrated cylinder, record amount on Intake and Output Record.
- 0303 MEASURING AND RECORDING OUTPUT - VOMITUS: Remove emesis from patient's bedside, measure vomitus in calibrated cylinder, record amount on Intake and Output Record.
- 0304 MEASURING AND RECORDING OUTPUT - DRAINAGE BOTTLES, ALL TYPES: Place calibrated cylinder at bedside, pour contents from drainage bottle into calibrated cylinder, measure or calculate volume, replace drainage bottle, record amount on Intake and Output Record, and then remove equipment from area.
- 0305 GIVING A BEDPAN: Place bedpan at bedside, place patient on bedpan, provide toilet tissue, remove patient from bedpan, cover bedpan, and remove from area.
- 0306 GIVING A URINAL: Place urinal at patient's bedside, remove cover, adjust patient's pajamas for placement of urinal, remove urinal from patient, replace cover; then remove urinal from area.
- 0307 INCONTINENT CARE: Place equipment at patient's bedside, bathe buttocks, perineum and thighs; change bedding; then remove equipment and soiled linen from area.
- 0308 OUTPUT WEIGHT - DIAPERS/BED LINENS: Upon the completion of the procedure for diaper change/bed linen change, remove items to be weighed, weigh on weight scales, and then record results.

MOBILITY:

- 0401 MOBILITY - AMBULATING FIRST TIME: Assist patient into sitting position or side of bed; then into upright standing position; walk with patient; then assist patient back into bed.
- 0402 MOBILITY - BED TO FLOOR: Assist patient into sitting position on side of bed, then slowly bring patient into an upright position; then assist back into bed.
- 0403 MOBILITY - BED TO CHAIR: Position chair/wheelchair at bedside, assist patient into sitting position, slowly bring patient into an upright standing position; then assist into chair and back to bed.
- 0404 MOBILITY - BEDSIDE COMMODE: Position commode chair next to bedside, assist patient into sitting position, slowly bring patient into an upright standing position, assist patient onto commode chair, and then assist patient back into bed.
- 0405 MOBILITY - ASSISTANCE WHILE WALKING: Assist patient into a sitting position on side of bed, then into an upright standing position, then with ambulation, and then back into bed.
- 0406 MOBILITY - SITTING ON SIDE OF BED: Assist patient into sitting position on side of bed; then assist patient back into supine position.

CHANGING POSITION:

- 0501 CHANGING PATIENT'S POSITION IN BED: Remove support pillows, reposition patient; apply support pillows.
- 0502 ADJUSTING POSITION OF BED: Raise, lower or adjust position of bed.
- 0503 TURNING FRAME, ALL TYPES: Remove or secure support pillows and devices, place and secure restraining straps, unlock frame, turn frame according to specifications, lock frame, remove restraining straps, adjust pillows and support devices.
- 0504 MOBILITY - BED TO STRETCHER: Place stretcher at bedside, transfer patient to stretcher, fasten safety straps or adjust side rail, remove stretcher from bedside (or reverse procedure).
- 0505 ADJUSTING SIDE RAIL: Changing position of side rail, i.e., up, down, or removal.
- 0506 ADJUSTING RESTRAINT: Upon arrival at bedside, replace or apply restraints to upper and/or lower extremities, and then depart from area.
- 0507 FOWLERS/TRENDELENBURG POSITION: Upon arrival at bedside, position bed in either Fowlers or Trendelenburg position, assess comfort of patient in this position, and then depart from area.

EXERCISE:

- 0601 EXERCISE - ACTIVE: Supervise the patient as he/she actively performs the prescribed exercise program.
- 0602 EXERCISE - PASSIVE: Manually moving patient's extremities through the prescribed exercise program.

PSYCHOLOGICAL:

- 0701 ORIENTATION TO CLINICAL UNIT: Instructing on the use of the nurse's call system, the hospital bed, and the layout of the physical facility.
- 0702 EXPLANATION OF PROCEDURES AND TESTS: Instructing patient on what he/she can expect from procedure/test, what the health care personnel will be doing during the procedure/test, and why such procedure/test is being done.
- 0703 ANSWERING PATIENT'S QUESTION: Time spent in answering patient's question or in response to the patient call system.
- 0704 VISITING WITH PATIENT/PURPOSEFUL INTERACTION: Time spent at patient's bedside without providing any direct physical care to patient which is not in response to patient call system or patient question.

PHYSIOLOGICAL PARAMETERS

VITAL SIGNS:

- 0801 BLOOD PRESSURE, MANUAL: Place equipment at bedside, place cuff around extremity, position stethoscope, measure blood pressure, remove cuff, record results; remove equipment from area.
- 0802 PULSE - RADIAL/BRACHIAL: Place fingers over pulse and count rate, remove fingers from pulse area and record results.
- 0803 PULSE - APICAL: Place equipment at bedside, place stethoscope over apex of heart and count rate, remove stethoscope, record pulse rate, and then remove equipment from area.
- 0804 RESPIRATIONS: Count respiratory rate, and/or count and calculate rate, and then record.
- 0805 TEMPERATURE - ORAL, ELECTRONIC/MERCURY: Place equipment at bedside, place probe or thermometer under tongue, measure temperature, remove temperature probe or thermometer, record and then remove equipment from area.
- 0806 TEMPERATURE - RECTAL, ELECTRONIC/MERCURY: Place equipment at bedside, adjust clothing, insert temperature probe or thermometer in anus, measure temperature, remove temperature probe or thermometer, record, and then remove equipment from area.

- 0807 TEMPERATURE - AXILLARY, ELECTRONIC/MERCURY: Place equipment at bedside, place temperature probe or thermometer in axillary area, measure temperature, remove temperature probe or thermometer, record and then remove equipment from area.
- 0808 ORAL TEMPERATURE, PULSE AND RESPIRATIONS: Place equipment at bedside, position temperature probe or thermometer. Place fingers over radial artery pulse and count rate. Count respiratory rate while fingers are placed over radial artery pulse. Remove fingers from radial artery pulse rate, record results of measurements, and then remove equipment from area.
- 0809 PULSE - PEDAL/FEMORAL/POPITEAL: Place fingers on the artery pulse and count rate. Remove fingers from pulse area and record results.
- 0810 PULSE - DOPPLER: Place equipment at bedside, place sensor over pulse area, assess and record pulse rate; then remove equipment from area (Types of equipment may vary).
- 0811 RECTAL/AXILLARY TEMPERATURE, APICAL PULSE, AND RESPIRATIONS: Place equipment at bedside, position temperature probe. Place stethoscope over apex of heart and count rate. Count and calculate respiratory rate. Remove temperature probe or thermometer, record results of measurements; then remove equipment from area.

BODY WEIGHT/SELECTED MEASUREMENTS:

- 0901 AMBULATORY WEIGHT: Place equipment at bedside, assist patient onto the scales, balance scales, read and record weight reading, assist patient off the scales, and then remove equipment from area.
- 0902 BED SCALE WEIGHT: Place equipment at bedside, assist patient onto the scales, read and record weight reading, assist patient in getting off the scales, and then remove equipment from area.
- 0903 ABDOMINAL GIRTH MEASUREMENT: Upon arrival at bedside, expose abdominal area, measure girth, record and then depart from area.
- 0904 EXTREMITY CIRCUMFERENCE MEASUREMENT: Upon arrival at bedside, place tape measure around the extremity/extremities and assess measurement; then record results.

CARDIAC ACTIVITY:

- 1001 MONITOR LEADS APPLICATION/EXCHANGE: Place equipment at bedside, exchange leads/or apply new leads, and then remove equipment from area.
- 1002 RHYTHM STRIP - MONITOR: Obtain 20-second strip, record name, date and time, then file for future use.

- 1003 12 LEAD ECG: Place equipment at bedside, connect leads to patient and obtain ECG. Record name, date and time on ECG. Remove leads and clean skin, then remove equipment from area.
- 1004 CENTRAL VENOUS PRESSURE: Set up equipment for measurement of pressure, position patient and assess sternal angle, measure pressure, restore equipment to original position, and record results.
- 1005 HEART SOUNDS ASSESSMENT: Place stethoscope at bedside, arrange pajamas for visual access of chest, assess and record findings; remove stethoscope from area.
- 1006 PULMONARY ARTERY PRESSURE WEDGE: Upon arrival at bedside, flush line, slowly inject air into Swan-Ganz Catheter, assess and calculate wedge pressure, and record the results.
- 1007 PULMONARY ARTERY PRESSURE: Check placement of equipment, read, and record pressure readings.
- 1008 MONITOR READING - BLOOD PRESSURE/HEART RATE/PULMONARY ARTERY PRESSURE/CENTRAL VENOUS PRESSURE: Upon arrival at bedside, assess and record findings.
- 1009 RHYTHM STRIP MEASUREMENTS: Upon obtaining the rhythm strip, measure P-R interval, S-T segment, and assess for arrhythmic pattern; then record results.
- 1010 RHYTHM STRIP - ECG MACHINE: Place equipment at bedside, prepare equipment for use, apply limb leads, obtain 20-second strip, record name, date and time, remove limb leads; then remove equipment from area.
- 1011 CARDIAC OUTPUT MEASUREMENT: Place equipment at bedside, assist physician with measurement, then remove equipment from area.
- 1012 ADJUSTING CARDIAC MONITOR/CONNECTING LEADS/RESET ALARM: Upon arrival at the bedside, adjust cardiac monitor, connect leads or reset the alarm; then depart the area.

NEUROLOGICAL:

- 1101 PUPIL REFLEXES: Place equipment at bedside, adjust room lighting, assess pupillary reflexes with flashlight and remove equipment from area.
- 1102 MENTAL ALERTNESS: Upon arrival at bedside, make inquiries within the framework of interviewing that will give information about the patient's orientation, memory, intellectual performance, and judgement; then record results.
- 1103 SENSORY DISCRIMINATION: The utilization of those approaches which will indicate that the examiner is screening for pain, vibration, light touch, and stereognosis intact, and then record results.

- 1104 ORIENTATION: Upon arrival at bedside, make inquiries within the framework of interviewing that will give information about patient's orientation for time, place and person, and then record results.
- 1105 MOTOR/SENSORY TESTING: Upon arrival at the bedside, assess extremities for sensation awareness and muscle strength.

RESPIRATORY ASSESSMENT:

- 1201 VITAL CAPACITY: Place equipment at bedside. Utilizing the spirometer determine the respiration reserve volume, the tidal volume and the expiratory reserve volume. Calculate and record results and then remove equipment from area.
- 1202 PULMONARY ASSESSMENT: Upon arrival initiate assessment by auscultation of the lungs, and/or percussion of the chest wall over the involved areas. Assess symmetry of chest and determine if respiratory movement is abdominal or thoracic.

THERAPEUTIC ACTIVITIES/MODALITIES

GASTROINTESTINAL:

- 1301 NASOGASTRIC TUBE - INSERTION: Place equipment at bedside, secure towel around patient's neck, give patient glass of water, instruct patient on how to swallow tube, lubricate tube, insert tube, assess for placement, tape in position, then remove equipment from area/or when non-responsive omit glass of water and instructions.
- 1302 NASOGASTRIC TUBE - IRRIGATION: Place irrigation solution at bedside, unclamp or disconnect tube, irrigate tubing with asepto syringe, reclamp or reconnect tubing; then remove equipment from area.
- 1303 NASOGASTRIC TUBE - REMOVAL: Place towel around patient's neck, position patient, remove tape, clamp tube and remove tubing, and then remove equipment from area.
- 1304 ENEMA - CLEANSING: Place equipment at bedside, position patient, lubricate tubing, insert rectal tube, administer solution; then remove equipment from area.
- 1305 ENEMA - RETENTION: Place equipment at bedside, position patient, administer solution; then remove equipment from area.
- 1306 COLOSTOMY - IRRIGATION: Place equipment at bedside, remove colostomy bag/dressing, administer irrigation solution, allow for return of fluid and feces, cleanse skin and stoma, reapply colostomy bag/dressing; then remove equipment from area.
- 1307 COLOSTOMY - DRESSING CHANGE: Place equipment at bedside, remove soiled dressing, cleanse skin and stoma, apply clean dressing, and then remove equipment from area.

- 1308 LAVAGE: Place equipment at bedside, secure towel around patient's neck, insert stomach tube, assess placement, lavage gastric contents, remove tube, and then remove equipment from area.
- 1309 PARACENTESIS: Place equipment at bedside, measure vital signs, prepare patient and tray for procedure, support patient during the procedure, measure vital signs, and then remove equipment from area.
- 1310 DRESSING CHANGE - ILEOSTOMY/ILEOCONDUIT: Place equipment at bedside, remove ileostomy bag or dressing, cleanse skin and stoma area, replace ileostomy bag or dressing, and remove equipment from area.
- 1311 NASOGASTRIC TUBE - INSTILLATION: Place medication, and/or normal saline at bedside, unclamp or disconnect tube, instill solution with aseptic syringe, reclamp or reconnect tubing; then remove equipment from area.
- 1312 FECAL IMPACTION ASSESSMENT/REMOVAL: Upon arrival at bedside, position patient, put on rubber gloves, assess for fecal impaction and then manually break up fecal mass; then remove used equipment from area.
- 1313 ENDOSCOPY: Upon arrival at patient's area, place equipment, assess baseline vital signs (BP, R.R. & T.). Support patient during the procedure, repeat vital signs; then remove equipment from area.
- 1314 SALINE IRRIGATION - GASTRIC: Place equipment at bedside, and utilize the stomach tube/nasogastric tube and irrigate with saline solution, then remove equipment from area.
- 1315 PROCTOSCOPY: Upon arrival at patient's area, place equipment, support patient during the procedure; then remove equipment from area.
- 1316 RECTAL TUBE INSERTION: Place equipment at bedside, insert rectal tube, connect to drainage bag; then remove used equipment from area.
- 1317 RECTAL TUBE REMOVAL: Place equipment at bedside, remove rectal tube and drainage bag; then remove equipment from area.

RESPIRATORY:

- 1401 OXYGEN ADMINISTRATION - NASAL: Place equipment at bedside, turn on oxygen, lubricate and insert nasal catheter, secure with tape; evaluate and regulate oxygen flow rate.
- 1402 OXYGEN ADMINISTRATION - MASK: Place equipment at bedside, turn on oxygen, fit the mask over the mouth and nose, adjust headband, evaluate fit and patient's adjustment to the equipment, and regulate oxygen flow rate.
- 1403 OXYGEN ADMINISTRATION - PRONGS: Place equipment at bedside, fit nasal prongs and adjust headband, regulate oxygen rate; evaluate patient's adjustment to oxygen and equipment.

- 1404 ENDOTRACHEAL/TRACHEOSTOMY TUBE PRESSURE CUFF: Place equipment at bedside, release/or inflate cuff. Restore equipment for future use.
- 1405 TRACHEOSTOMY - CHANGING TUBE: Place equipment at bedside, untie tracheostomy strings, remove and replace tracheostomy tube, cleanse skin, tie tracheostomy strings, and then remove equipment from area.
- 1406 CHEST TUBE - CARE: Set up equipment at bedside, remove dressing around chest tube, cleanse skin, replace dressing, tape securely, and then remove used equipment from area.
- 1407 CHEST TUBE - CHANGING BOTTLES: Place prepared chest tube bottles at bedside, clamp chest tube, change drainage tube and bottles, secure drainage bottles and tops with tape, unclamp chest tube, and then remove used equipment from area.
- 1408 TRACHEOSTOMY - CLEANING CANNULA: Place or utilize equipment at bedside, complete tracheostomy suction, remove, clean and replace inner tube, and then remove soiled equipment and replace with clean equipment.
- 1409 CHEST PULMONARY THERAPY - FRAPPAGE WITH POSTURAL DRAINAGE: Upon arrival at bedside, position patient, initiate treatment by auscultation of lung fields. Perform percussion to each involved segment followed by vibration.
- 1410 NOT USED
- 1411 SUCTIONING - ORAL: Place equipment or set up equipment at bedside, suction oral cavity with suction catheter/oral suction tip, flush catheter before and after each aspiration, replace used equipment or remove used equipment from area.
- 1412 SUCTIONING - TRACHEOSTOMY: Set up equipment, put on sterile gloves, suction and flush catheter before and after each aspiration, replace used equipment, and remove used equipment from area.
- 1413 SUCTIONING - NASO-TRACHEAL: Set up equipment at bedside, put on sterile gloves, pass nasal catheter and suction, flush catheter before and after each aspiration, replace used equipment, and then remove used equipment from area.
- 1414 SUCTIONING - ENDOTRACHEAL: Set up sterile equipment at bedside, put on sterile gloves, suction through endotracheal tube, flush catheter before and after each use, bag breathe between each aspiration, remove gloves, replace used equipment, and then remove used equipment from area.
- 1415 IPPB TREATMENT: Place equipment in position of use, assist patient during the treatment, and replace equipment after use.
- 1416 RESPIRATORY RESUSCITATION: Place equipment at bedside. Check all equipment, assist physician with insertion of endotracheal/tracheostomy tube, bag breathe as indicated, connect respirator; then remove equipment from area.

- 1417 THORACENTESIS: Place equipment at bedside, obtain vital signs, assist physician and support patient during the procedure, repeat vital signs, measure and record aspiration fluids, and then remove equipment from area.
- 1418 BLOW BOTTLES: Place equipment at bedside, assist with placement of bottles, have patient perform procedure; then locate equipment at bedside for next treatment.
- 1419 COUGH AND DEEP BREATHE: Upon arrival at bedside, have patient cough and deep breathe, if cough productive then dispose of sputum.
- 1420 INCENTIVE SPIROMETER: Place spirometer at bedside, assist patient during the procedure to determine proper usage of spirometer, and then remove or replace to storage area at bedside.
- 1421 INTUBATION: Place equipment at bedside, assist physician during the intubation process, tape endotracheal tube in place and remove equipment from area.
- 1422 POSITIONING FOR X-RAY: Upon arrival at bedside, assist with positioning of X-Ray film; then assist with removal of exposed film.
- 1423 TRACHEOSTOMY - DRESSING CHANGE: Place equipment at bedside, remove soiled dressing, cleanse skin, replace dry dressing, change tracheostomy ties as indicated, and then remove soiled equipment from area.
- 1424 OXYGEN ADMINISTRATION - MIST WITH COLLAR/FACE TENT: Place equipment at bedside, turn on oxygen, position equipment; then secure, evaluate, and regulate oxygen flow rate.
- 1425 CROUP TENT: Place equipment at bedside, position equipment over the bed, fill vaporizer with solution, place thermometer, assess status of patient's adjustment to croup tent, assess temperature inside croup tent; then depart from area.
- 1426 SUCTIONING, BULB SYRINGE: Upon arrival at the bedside, utilize the bulb syringe to suction the nose or mouth or both nose and mouth.
- 1427 MAXIMIST TREATMENT: Upon arrival at bedside, prepare nebulizer, position patient, assure proper breathing technique and administer treatment. (Nursing personnel may not stay in attendance during the procedure as not all patients require constant nursing attention.)
- 1428 CHEST TUBE - INSERTION: Place all equipment at bedside, assist physician with insertion of chest tube, prepare water-sealed drainage bottles, tape all connections and drainage bottles; then remove equipment from area.
- 1429 CHEST TUBE - REMOVAL: Place equipment at bedside, assist physician with removal of chest tube, apply pressure dressing; then remove equipment from area.
- 1430 EXTUBATION: Place equipment at bedside, assist physician with removal of endotracheal tube; then remove equipment from area.

- 1431 BRONCHOSCOPY: Place equipment at bedside, assist physician with the procedure, then remove equipment from area.

CARDIOVASCULAR:

- 1501 VENIPUNCTURE - BLOOD SAMPLE: Place equipment at bedside. Apply tourniquet to extremity, cleanse site, perform venipuncture and withdraw blood sample, and then apply pressure to puncture site. Apply labels on blood tubes and remove equipment from area.
- 1502 VENIPUNCTURE - BLOOD CULTURE: Place equipment at bedside, apply tourniquet to extremity, clean site, perform venipuncture and withdraw blood sample, and then apply pressure to puncture site. Apply labels on blood culture bottle and remove equipment from area.
- 1503 ARTERIAL PUNCTURE - BLOOD GASES: Place equipment at bedside, locate arterial puncture site, perform puncture and draw blood, and then place sample on ice. Apply pressure to puncture site; then label sample and remove equipment from area.
- 1504 INTRAVENOUS INFUSION - FLOW RATE: Upon arrival at bedside, calculate and adjust flow rate as specified.
- 1505 INTRAVENOUS INFUSION - INITIATING: Place equipment at bedside, apply tourniquet to extremity, cleanse site, perform venipuncture and connect IV tubing, apply ointment and dressing, and tape securely. Calculate and regulate flow rate, record on Intake and Output Record, and remove equipment from area.
- 1506 INTRAVENOUS INFUSION - CHANGE IV BOTTLE: Place equipment at bedside, remove used IV container and replace with new IV container, remove equipment from area.
- 1507 INTRAVENOUS INFUSION - IV PUSH MEDICATION: Place equipment at bedside, select site for injection of solution utilizing existing system, administer IV solution, and remove equipment from area.
- 1508 INTRAVENOUS INFUSION - IV CATHETER CARE: Place equipment at bedside, remove dressing from IV catheter site, cleanse skin, apply ointment, replace dressing and then date, time and initial the dressing, change IV tubing, and remove equipment from area.
- 1509 INTRAVENOUS INFUSION - PIGGY-BACK MEDICATION: Place equipment at bedside, select site for administration of solution utilizing existing systems, record on Intake and Output Record, and remove equipment from area.
- 1510 INTRAVENOUS OR ARTERIAL LINE - TERMINATION: Place equipment at bedside, remove dressing and terminate IV or arterial catheter/needle, apply pressure to site, and record on Intake and Output Record if appropriate; remove equipment from area.
- 1511 INTRAVENOUS INFUSION - INFUSION PUMP SET-UP: Place equipment at bedside, set up IV tubing and adjust flow rate. Record on Intake and Output Record and remove used equipment from area.

- 1512 ELASTIC STOCKINGS: Place stockings at bedside. Expose lower extremities, and then put elastic stockings on lower extremities.
- 1513 ACE BANDAGE: Place equipment at bedside, wrap extremity securely with ace bandage and secure in place with tape or metal hooks.
- 1514 INTRAVENOUS INFUSION - BLOOD: Place equipment at bedside, assure correct transfusion, etc., connect to present intravenous system, record on Intake and Output Record, and remove equipment from area.
- 1515 INTRAVENOUS/ARTERIAL LINE - BLOOD SAMPLES: Place equipment at bedside, clear system, obtain blood sample through stopcock, flush system, label samples, and then remove equipment from bedside.
- 1516 ARTERIAL LINE - TRANSDUCER EXCHANGE: Place equipment at bedside, set up transducer tray and IV solution, calibrate the cardiac monitor, and measure the transducer current with a mercury sphygmomanometer; remove equipment from area.
- 1517 ARTERIAL LINE - ARTERIAL LINE SETUP: Place equipment at bedside, set up transducer tray, IV solution and cardiac monitor. Assist physician with insertion of arterial catheter. Calibrate the cardiac monitor, and measure the transducer current with a mercury sphygmomanometer; remove equipment from area.
- 1518 ARTERIAL LINE - SWAN GANZ CATHETER SETUP: Place equipment at bedside, set up transducer tray, IV solution and cardiac monitor. Assist physician with the insertion of the Swan Ganz catheter. Calibrate the cardiac monitor and then measure the transducer current with a mercury sphygmomanometer. Measure and record pulmonary artery pressure and/or PAEDP wedge. Remove equipment from area.
- 1519 NOT USED
- 1520 INTRAVENOUS INFUSION - PLATELETS/PLASMA: Place equipment at bedside, connect to present intravenous system, record on Intake and Output Record; and remove used equipment from area.
- 1521 EXTERNAL PACEMAKER: Place equipment at bedside, assess vital signs (BP, P & R), assist physician with the procedure, repeat the vital signs (BP, P & R); then remove equipment from area.
- 1522 CARDIOPULMONARY RESUSCITATION: Upon arrival at bedside, perform any or all aspects of cardiopulmonary resuscitation.
- 1523 CARDIOVERSION: Place equipment at bedside, assess vital signs (BP, P & R), assist physician with the procedure as required, repeat vital signs BP, P & R); then remove equipment from area.
- 1524 ROTATING TOURNIQUETS: Upon arrival at bedside, place/replace tourniquets, assess status of extremities and cardiovascular system, record findings, and then depart from area.

- 1525 ARTERIAL INFUSION - MEDICATION: Place equipment at bedside, determine site for injection of solution utilizing infusion system. Administer medication as instructed, assess pulses of the extremity, evaluate immediate reactions of patient, record on Intake and Output Record; then remove equipment from area.
- 1526 SWAN GANZ CATHETER - INITIATION: Place equipment at bedside, assist physician with the procedure as required, connect to arterial line setup, assess status of arterial infusion system; then remove equipment from area.
- 1527 SWAN GANZ CATHETER - REMOVAL: Place equipment at bedside, assist physician with the removal of the Swan Ganz catheter, apply dressing; then remove equipment from area.
- 1528 ARTERIAL LINE - INITIATION: Place equipment at bedside, assist physician with the procedure as required, connect to arterial line setup, assess status of arterial line; then remove equipment from area.
- 1529 SURGICAL INTRAVENOUS INITIATION, CUTDOWN: Place equipment at bedside, assist physician with the procedure as required, connect to intravenous line setup, assess status of intravenous line; then remove equipment from the area.

SKIN:

- 1601 DECUBITUS CARE: Place or position equipment at bedside, cleanse skin, apply heat lamp and/or expose to light.
- 1602 SKIN CARE: Place equipment at bedside, cleanse and dry areas for special care, apply lotion, and then remove equipment from area. (Buttocks, hips, shoulders, heels.)
- 1603 SUTURE/SKIN CLIP REMOVAL, > 15: Place equipment at bedside, remove dressing if required, remove sutures, then remove equipment from area.
- 1604 SMALL DRESSING CHANGE, < 4" x 8": Place equipment at bedside, remove soiled dressing, cleanse skin, apply dressing to site, and then remove equipment from area.
- 1605 LARGE DRESSING CHANGE, ≥ 4" x 8": Place equipment at bedside, remove soiled dressing, cleanse skin, apply dressing to site, and then remove equipment from area.
- 1606 REINFORCING DRESSING: Place equipment at bedside, apply dressing to present dressing for reinforcement, and then remove equipment from area.
- 1607 WOUND IRRIGATION: Place equipment at bedside, remove soiled dressing, irrigate and cleanse site, apply dressing and then remove equipment from area.
- 1608 SOAKING HAND: Place equipment at bedside, soak hand in solution basin, remove and towel dry hand, and then remove equipment from area.

- 1609 SOAKING FEET: Place equipment at bedside, soak feet in solution basin, remove and towel dry foot/feet, and remove equipment from area.
- 1610 HOT COMPRESS: Place equipment at bedside, apply hot compress to site, and then remove equipment from area.
- 1611 COLD COMPRESS: Place equipment at bedside, apply cold compress to site, and then remove equipment from area.
- 1612 SITZ BATH: Prepare sitz bath equipment, assist patient into sitz bath tub, assist patient from the tub and towel dry, and then assist patient back into bed.
- 1613 SURGICAL PREP, LOCAL: Place equipment at bedside, prepare skin for prep, shave area specified, and then remove used equipment from area.
- 1614 SURGICAL PREP, 3-WAY: Place equipment at bedside, prepare skin for prep, shave area specified, and then remove used equipment from bedside. Instruct patient to shower with surgical soap three times.
- 1615 WOUND CULTURE: Place equipment at bedside, remove soiled dressing, obtain culture from site, label culture, apply new dressing, and then remove equipment from area.
- 1616 HEAT LAMP: Place or position lamp at bedside, expose site, and apply heat lamp.
- 1617 BACK RUB: Place equipment at patient's bedside, remove pajama top, turn patient to expose back, rub back with lotion, replace pajama top, and then remove equipment from area.
- 1618 HOT COMPRESS - CONTINUOUS APPLICATION: Place equipment at bedside, continuously apply hot compress to site, and then remove equipment from area.
- 1619 AIR FLOATATION/ALTERNATING PRESSURE MATTRESS: Place equipment at bedside, apply air floatation or alternating pressure mattress to hospital bed. Remove soiled linens/equipment from area.
- 1620 ISOLATION, GOWNING AND GLOVING: Upon arrival at isolation area, wash hands, put on isolation gown, mask, and gloves, or when departing the isolation area, remove isolation gown, mask, and gloves; then wash hands.
- 1621 DEATH CARE: Place equipment at bedside, prepare patient and cover with a shroud. (Do not measure the time required for the family to view the body after death.)
- 1622 SUTURE/SKIN CLIP REMOVAL, < 15: Place equipment at bedside, remove dressing if required, remove sutures or skin clips, then remove equipment from area.
- 1623 APPLICATION OF K-PAD: Upon arrival at bedside, apply K-pad to prescribed area, then depart from area.

EENT:

- 1701 EYE CARE: Place equipment at bedside, cleanse eyes and apply solution/ointment as prescribed. Apply eye patch and then remove equipment from area.
- 1702 IRRIGATION - EYE: Place equipment at bedside, prepare eye for irrigation, utilizing syringe and basin irrigate eye/eyes, and then remove equipment from area.
- 1703 IRRIGATION - EAR: Place equipment at bedside. Utilizing syringe and basin, irrigate ear. Remove equipment from area.
- 1704 IRRIGATION - THROAT: Place equipment at bedside, have patient gargle the prescribed solution, and then remove equipment from area.
- 1705 INSTILLATION OF DROPS - EYE: Upon arrival at bedside, position patient, instill eye drops, and then remove equipment from area.
- 1706 INSTILLATION OF DROPS - EAR: Upon arrival at bedside, position patient, instill ear drops, and then remove equipment from area.
- 1707 INSTILLATION OF DROPS - NOSE: Upon arrival at bedside, position patient, instill nose drops, and then remove equipment from area.
- 1708 CULTURE - NOSE: Place equipment at bedside, position patient, obtain nose culture, label culture, and remove equipment from area.
- 1709 CULTURE - THROAT: Place equipment at bedside, position patient, obtain throat culture, label culture, and remove equipment from area.
- 1710 CULTURE - SPUTUM: Place equipment at bedside, position patient, have patient cough to obtain sputum, apply label to sputum specimen, and then remove equipment from area.

NEUROLOGICAL - SKELETAL:

- 1801 PIN CARE: Place equipment at bedside, cleanse pin site; then remove used equipment from area.
- 1802 HEAD TONGS CARE: Place equipment at bedside, cleanse area around head tongs, and then remove equipment from area.
- 1803 BED CRADLE: Place equipment at bedside and position bed cradle over patient.
- 1804 FOOT BOARD: Place equipment at bedside, position foot board into place and then align and position the extremities.
- 1805 ICE PACK: Place ice bag at bedside, remove old ice bag and replace with new ice bag, secure ice bag in place; then remove equipment from area.

- 1806 EXTREMITY TRACTION - APPLICATION: Place equipment at bedside, apply non-invasive type traction to extremity, apply weights, and then remove unused equipment from area.
- 1807 EXTREMITY ELEVATION: Place equipment at bedside, elevate extremity through use of pillows, bed adjustments and/or sling attachments.
- 1808 CAST CARE: Upon arrival at the bedside, assess for pain, swelling, numbness, tingling, coldness and bluish discoloration of the skin. Evaluate the patient's ability to move the part, and then assess the temperature of the cast and the skin area around the cast.
- 1809 EXTREMITY TRACTION - ADJUST: Upon arrival at the bedside, assess the position of the weights and the alignment of the traction equipment.
- 1810 SEIZURE CARE: Upon arrival in the patient's area, place padded tongue blade in position, and support patient during the seizure.
- 1811 CIRCULATION CHECK: Upon arrival at bedside check extremity for swelling, numbness, and tingling, evaluate temperature and color of the skin, and then assess the patient's ability to move the part.

UROLOGICAL - GYNECOLOGICAL:

- 1901 CATHETERIZATION - FOLEY: Place equipment at bedside, prepare patient and insert Foley Catheter, inflate balloon, tape catheter in position, connect to urinary drainage bag; then remove used equipment from area.
- 1902 CATHETERIZATION - STRAIGHT: Place equipment at bedside, prepare patient and insert catheter, empty bladder and remove straight catheter; then remove used equipment from area.
- 1903 FOLEY CATHETER CARE: Place equipment at bedside, cleanse area around catheter, apply ointment, and then remove used equipment from area.
- 1904 URINE SPECIMEN - ROUTINE: Place equipment at bedside, instruct patient on how to collect specimen, label specimen, and then remove specimen from area.
- 1905 URINE SPECIMEN - CLEAN CATCH/FOLEY: Place equipment at bedside, instruct patient on how to collect specimen or collect sample from Foley catheter, label specimen, and then remove specimen from area.
- 1906 PERINEAL CARE: Place equipment at bedside, prepare and cleanse perineal area (use bedpan with treatment solution/or bathe area); then remove equipment from area.
- 1907 FOLEY CATHETER REMOVAL: Place equipment at bedside, expose catheter and drainage system, deflate Foley balloon and remove Foley catheter. Measure urine and record on Intake and Output Record; then remove used equipment from area.

- 1908 DOUCHE: Place equipment at bedside, position patient on bedpan, administer douching solution, remove bedpan from under patient; then remove equipment from area.
- 1909 DILATATION AND CURETTAGE: Upon arrival in minor surgery room, position patient on the examination table, set up equipment and assist physician with the procedure. After completion of the procedure, apply perineal pad; then assist patient on stretcher.
- 1910 VAGINAL/PELVIC EXAMINATION: Assist patient onto examination table, position patient, set up equipment and assist physician with the procedure; then assist patient in getting off the examination table.
- 1911 URINARY BLADDER TRAINING: Upon arrival at bedside, clamp/unclamp catheter, record time and urine output if appropriate.
- 1912 CONDOM CATHETER APPLICATION: Upon arrival at bedside, apply condom catheter, connect to a urinary drainage bag; then depart the area.
- 1913 PERITONEAL DIALYSIS - INITIATION: Place equipment at bedside, assist physician with procedure as required, then remove equipment from area.
- 1914 PERITONEAL DIALYSIS - EXCHANGE OF DIALYSIS SOLUTIONS: Place equipment at bedside, administer dialysis solution, measure output of dialysis solution, record results; then remove used equipment from area.
- 1915 PERITONEAL DIALYSIS - REMOVING DIALYSIS CATHETER: Place equipment at bedside, assist physician with the removal of the dialysis catheter, apply dressing to area; then remove equipment from area.
- 1916 BLADDER IRRIGATION: Place equipment at bedside, set up equipment and irrigate bladder; then remove equipment from area.

BODY TEMPERATURE REGULATION:

- 2001 SPONGING: Place equipment at bedside, expose area for sponging, position ice bags, sponge skin with ordered solution and then remove used equipment from area.
- 2002 HYPOTHERMIA/HYPERTHERMIA TREATMENT: Place equipment at bedside, apply blankets, assess status of equipment. Insert rectal temperature probe for monitoring, and then remove unused equipment from area.

MEDICATION:

- 2101 ORAL: Upon arrival at bedside, obtain a glass of water and administer the oral medication.
- 2102 INTRAMUSCULAR: Place equipment at bedside, locate site for injection, administer medication, and then remove equipment from area.
- 2103 SUBCUTANEOUS: Place equipment at bedside, locate site for injection, administer medication, and then remove equipment from area.

- 2104 SUPPOSITORY, RECTAL/VAGINAL: Place equipment at bedside, prepare and administer suppository; then remove equipment from area.
- 2105 TOPICAL: Place equipment at bedside, locate and expose site for topical application of medication, apply medication, and then remove equipment from area.
- 2106 SUBLINGUAL: Place equipment at bedside, place medication under patient's tongue; then remove equipment from area.

DIAGNOSTIC TESTS:

- 2201 BONE MARROW ASPIRATION: Place equipment at bedside, assist physician with procedure, and then remove equipment from area.
- 2202 LUMBAR PUNCTURE: Place equipment at bedside, assist physician with procedure, and then remove equipment from area.
- 2203 NOT USED
- 2204 URINE TESTING - PROTEIN: Upon arrival at bedside, collect urine sample, utilizing test strip assess for albumin, compare test strip against standard, read and record results; then remove used equipment from area.
- 2205 NOT USED
- 2206 URINE TESTING - SPECIFIC GRAVITY: Place equipment at bedside, collect urine sample and utilizing a urometer, measure specific gravity, record results, and then remove equipment from area.
- 2207 URINE TESTING - SUGAR AND ACETONE: Place equipment at bedside, collect urine sample, measure sugar and acetone, record results, then remove equipment from area.
- 2208 LIVER BIOPSY: Place equipment at bedside, measure baseline vital signs, assist physician with the procedure, and then remove equipment from area. (All post-procedure vital signs will be counted as routine and separate from the procedure.)
- 2209 GUAIAAC TESTING - FECES/VOMITUS/GI DRAINAGE: Upon obtaining sample, test sample for guaiac, record results, and then remove from area.
- 2210 COLLECTION OF FECES SAMPLE: Upon obtaining a feces sample, place sample in collection container, label, and then remove from area.
- 2211 HEMATOCRIT: Upon obtaining the blood sample, process, assess, and record the results.

PATIENT TEACHING/NEONATAL AND PEDIATRIC FAMILY INSTRUCTION:

- 2301 TEACHING - MEDICATION ADMINISTRATION: Upon arrival at bedside, provide instruction on dosage, route, and specific drug related information.
- 2302 TEACHING - COLOSTOMY CARE: Upon arrival at bedside, provide instructions on the purpose, equipment and technique of colostomy irrigation, and colostomy bag care.
- 2303 TEACHING - POSTURAL DRAINAGE: Place equipment at bedside, provide instruction on the purpose, and technique for postural drainage.
- 2304 TEACHING - URINE TESTING: Place equipment at bedside, provide instructions on the purpose, and technique for the urine testing.
- 2305 TEACHING - BLOW BOTTLES/INCENTIVE SPIROMETER: Place equipment at bedside, instruct patient on the purpose and use of equipment.
- 2306 TEACHING - DIETARY EXPLANATION: Upon arrival at bedside, provide instruction on dietary requirements/restrictions.
- 2307 TEACHING - PREOPERATIVE INSTRUCTION: Upon arrival at bedside, provide instruction on preoperative and postoperative requirements. (Skin preparation, cough and deep breathe, ankle exercise and position change.)
- 2308 TEACHING - DIAGNOSTIC TEST: Upon arrival at the bedside, provide information on the purpose and requirements for the diagnostic test.
- 2309 TEACHING - DISEASE/CONDITION RELATED: Upon arrival at bedside, provide instruction on the nature and scope of the disease process, special care requirements, limitations and/or restrictions related to disease illness.
- 2310 TEACHING - CHEMOTHERAPY INSTRUCTION: Upon arrival at bedside, provide instructions on dosage, drug action, adverse effects; signs and symptoms which require medical evaluation.
- 2311 TEACHING - DRESSING CHANGE: Upon arrival at bedside, provide instruction on technique of dressing change, skin care and how to recognize abnormal conditions related to disease/injury.
- 2312 TEACHING - INSULIN ADMINISTRATION: Upon arrival at bedside, provide information on dosage, types of insulin, syringe utilization technique, care of equipment, rotation of sites, and specific drug related information.
- 2313 TEACHING - DIABETIC: Upon arrival at bedside, provide information on the disease process and care related to this process. (Signs and symptoms on insulin lack/overdosage, foot care, rotation of injection sites, exercise program, storage of medication, and maintenance of equipment.)
- 2314 TEACHING - ILEOSTOMY/ILEOCONDUIT CARE: Upon arrival at bedside, provide instructions on the purpose, equipment and care of the ileostomy or ileoconduit.

OBSTETRICAL:

- 2401 VULVAR/ANAL AREA PREP: Set up equipment at bedside, position patient, cleanse and lather area, shave area, rinse and dry shaved area; then remove equipment from area.
- 2402 SUPPORT DURING CONTRACTION: Upon arrival at bedside, verbally reassure patient, provide touch support as indicated, encourage and demonstrate proper breathing and then depart patient's area.
- 2403 DILATATION AND EFFACEMENT ASSESSMENT: Set up equipment at bedside, position patient for procedure, perform vaginal examination for assessment of dilatation level and effacement; then remove equipment from area.
- 2404 DILATATION AND EFFACEMENT ASSESSMENT, ASSISTING PHYSICIAN: Set up equipment at bedside, position patient for procedure, assist physician with the examination; then remove used equipment from area.
- 2405 FETAL ELECTRODE INSERTION: Set up equipment at bedside, position patient, insert fetal electrode, secure monitor leads to patient's lower extremity, connect, assess and record fetal heart rate; then remove used equipment from area.
- 2406 FETAL ELECTRODE INSERTION, ASSISTING PHYSICIAN: Set up equipment at bedside, position patient, assist physician with procedure, secure monitor leads to patient's lower extremity, connect equipment, assess and record fetal heart rate; then remove used equipment from area.
- 2407 INTRAUTERINE CATHETER INSERTION: Set up equipment at bedside, position patient, insert catheter, connect monitoring equipment, flush catheter with water; then remove used equipment from area.
- 2408 INTRAUTERINE CATHETER INSERTION, ASSISTING PHYSICIAN: Set up equipment at bedside, position patient, assist physician with procedure, connect monitoring equipment, flush catheter with sterile water; then remove used equipment from area.
- 2409 INTERNAL OR EXTERNAL MONITORING - UTERINE CONTRACTION/FETAL HEART TONES: Upon arrival at bedside, assess and calculate the amplitude and duration of the contractions, then assess fetal heart tones, and record fetal heart tones and contraction findings.
- 2410 MANUAL CONTRACTION ASSESSMENT: Upon arrival at bedside, expose abdominal area, place hand over uterus and assess strength and duration of uterine contraction.
- 2411 PITOCIN INDUCTION, ASSISTING PHYSICIAN: Place equipment at bedside, assess fetal heart tones, assess BP, P & R, assist physician with initiation and regulation of pitocin infusion, and then place hand over the abdomen until the patient gets a regular contraction.
- 2412 FETAL HEART TONES, MANUAL: Upon arrival at bedside, expose abdominal area, assess fetal heart tones with fetoscope, record FHT's, then remove equipment from area.

- 2413 FETAL HEART TONES, DOPPLER: Upon arrival at bedside, expose abdominal area, assess fetal heart tones utilizing the doptone, record results; then remove equipment from area.
- 2414 FETAL SCALP SAMPLING, ASSISTING PHYSICIAN: Set up equipment at bedside, position patient, assist physician with procedure, label blood samples; then remove used equipment from area,
- 2415 ROUTINE DELIVERY ROOM FUNCTIONS: Upon arrival in delivery room, assist patient onto table and position, set up delivery trays, perform surgical scrub, assess status of mother and fetus, provide assistance to physician and patient during the delivery room process. Establish the airway, determine apgar score, obtain cord blood, clamp umbilical cord, provide prophylactic eye care, stabilize neonate's temperature, administer vitamin K, and then complete identification of neonate. Assist physician with delivery of placenta, massage fundus and determine level of fundus, administer medications to patient, complete delivery records, reposition patient, and transport to stretcher and transport to recovery room.
- 2416 FUNDUS MASSAGE: Upon arrival at bedside, expose patient's lower abdominal area, massage fundus and assess height of uterus; then record.
- 2417 CHANGING PERINEAL PAD: Place supplies at bedside, assess amount of bleeding, change perineal pads; then remove used supplies from area.
- 2418 PERINEAL SUTURE CARE: Cleanse area with antiseptic solution, irrigate with water, dry suture area, and apply heat lamp to suture line.
- 2419 TEACHING - PERINEAL SUTURE CARE: Place equipment at bedside, instruct patient on technique of perineal care, i.e., cleanse area with antiseptic solution, irrigate with water, dry suture area. Then apply heat lamp to suture line.
- 2420 TEACHING - BREAST CARE: Upon arrival at bedside, instruct patient on how to cleanse area around nipple, the need for wearing a support bra, and how to recognize minor signs and symptoms of problems that may occur with breast feeding.
- 2421 OXYTOCIN CHALLENGE TEST: Sep up equipment at bedside, assess baseline vital signs and fetal heart rate, set up and initiate intravenous infusion, set up Harvard infusion pump, regulate flow rate on Harvard infusion pump, assess status of patient (TPR & BP) and fetus (FHT's).
- 2422 NON-STRESS TEST: Set up equipment at bedside, assess baseline vital signs and fetal heart tones; monitor and assess fetal heart tones, fetal movement, and uterine activity.
- 2423 AMNIOTOMY: Set up equipment at bedside, position patient for procedure, assess fetal heart rate, assess patient's vital signs, assist physician with procedure; then remove used equipment from area.
- 2424 AMNIOCENTESIS: Set up equipment at bedside, assess vital signs of patient, assess fetal heart tones, assist physician with procedure, label specimens; then remove equipment from area.

- 2425 NEWBORN IDENTIFICATION PROCEDURE: Apply bracelet to lower extremity, obtain foot prints, and apply identification card to bed.
- 2426 TEACHING - BREAST FEEDING: Provide instructions on the technique of breast feeding; observe mother during the feeding process to assess proper technique.
- 2427 PITOCIN INDUCTION: Place equipment at bedside, assess FHT's, assess BP, P & R, initiate intravenous infusion, regulate flow rate, place hand over abdomen until the patient gets a regular contraction.
- 2428 TOCOTRANSDUCER - APPLICATION: Upon arrival at bedside, position patient, expose abdominal area, apply tocotransducer, connect to monitoring equipment, assess status of contraction; then depart patient area.
- 2429 ULTRASONIC TRANSDUCER - APPLICATION: Upon arrival at bedside, position patient, expose abdominal area, locate fetal heart tones, apply ultrasonic transducer, connect to monitoring equipment, assess status of fetal heart tones; then depart patient's area.
- 2430 FETAL ELECTRODE INSERTION/INTRAUTERINE CATHETER INSERTION: Set up equipment at bedside, position patient, insert fetal electrode, secure monitor leads to patient's lower extremity, connect, assess and record fetal heart rate. Set up equipment, insert catheter, connect monitoring equipment, flush catheter with water, then remove used equipment from area.
- 2431 FETAL ELECTRODE INSERTION/INTRAUTERINE CATHETER INSERTION, ASSISTING PHYSICIAN: Set up equipment at bedside, position patient for procedure, assist physician with procedure, secure monitor leads to patient's lower extremity, connect equipment, assess and record fetal heart tones. Set up equipment, assist physician with procedure, connect monitoring equipment, flush intrauterine catheter with sterile water, assess and record uterine contractions; then remove used equipment from area.
- 2432 TOCOTRANSDUCER AND ULTRASONIC TRANSDUCER - APPLICATION: Upon arrival at bedside, position patient, expose abdominal area, apply tocotransducer and ultrasonic transducer, connect to monitoring equipment, assess status of contractions and fetal heart tones; then depart area.
- 2433 OBSERVATION AND ASSESSMENT, SECOND STAGE OF LABOR: When complete dilatation of the cervix occurs, a member of the nursing staff remains in constant attendance to evaluate amplitude and duration of each contraction, assess fetal heart tones and to encourage proper breathing and bearing down efforts.
- 2434 LABOR ROOM EXAMINATION AND PREPARATION, ROUTINE: When patient arrives in the examination room, the following nursing activities are appropriate: urine sample analysis for protein; obtain weight; position on examination table; measure and record vital signs and fetal heart tones; perform or assist with vaginal examination; then prep as required and administer enema.
- 2435 ADJUST ULTRASONIC TRANSDUCER/TOCOTRANSDUCER: Upon arrival at bedside, adjust ultrasonic transducer and/or tocotransducer.

2436 MONITORING FETAL HEART TONES, ULTRASONIC TRANSDUCER: Upon arrival at bedside, utilize the monitoring equipment to assess fetal heart tones.

2437 MONITORING FETAL HEART TONES, ULTRASONIC TRANSDUCER AND UTERINE CONTRACTION, TOCOTRANSDUCER: Upon arrival at bedside, utilize the monitoring equipment to assess the fetal heart tones and uterine contractions.

PEDIATRIC:

2501 FEEDING - GRADUATED FEEDER, PREMATURE: Place equipment at bedside, pick up baby, wrap in blanket, hold in feeding position, feed baby, bubble baby, reposition in bed (Isolette, Incubator, etc.), and then remove equipment from area.

2502 FEEDING - BOTTLE: Place equipment at bedside, pick up baby, wrap in blanket, hold in feeding position, feed baby, bubble baby, reposition in bed, and then remove equipment from bedside.

2503 FEEDING - ORAL-GASTRIC TUBE: Place equipment at bedside, position baby, insert feeding tube, assess placement, check stomach for residual, instill feeding, remove feeding tube, bubble baby, position, and then remove equipment from bedside.

2504 FEEDING - ORAL-JEJUNOSTOMY TUBE: Place equipment at bedside, uncoil and unclamp tube, assess placement, administer feeding; flush tube with water, clamp tube, recoil and replace tube and then remove feeding equipment from area.

2505 ASSESSING GASTRIC RESIDUAL: Place equipment at bedside, position baby, insert oral-gastric feeding tube, aspirate stomach contents, remove oral-gastric feeding tube, calculate/measure volume, record results, and then remove equipment from area.

2506 BUBBLING BABY, ERUCTATE: Upon arrival at bedside, pick up baby, and hold infant upright, patting and/or rubbing on the back, and then position back into bed.

2507 DIAPER CHANGE: Upon arrival at bedside, expose baby, remove soiled diaper, cleanse buttocks and genitalia, diaper baby, position and cover baby, and then remove equipment from area.

2508 URINE COLLECTION BAG - APPLICATION: Place equipment at bedside, expose area, apply urine collection bag, and then remove equipment from area.

2509 CHANGING LINENS, NEWBORN: Place equipment at bedside, change crib sheet, cover crib sheet with diaper, position baby, and remove soiled linen from area.

2510 HOLDING BABY - NEWBORN/INFANT: Upon arrival at bedside, wrap baby in blanket, pick up and hold baby (may be standing or sitting during the procedure) and when completed position baby in bed, then cover with blanket.

- 2511 RADIANT WARMER - APPLICATION: Set up equipment, place baby in bed, apply temperature probe; then assess status of baby and equipment.
- 2512 ISOLETTE - APPLICATION: Set up equipment, place baby in bed, apply temperature probe; then assess status of baby and equipment.
- 2513 TEMPERATURE REGULATION - PLASTIC WRAP APPLICATION: Place equipment at bedside, wrap baby in plastic wrap, and then remove equipment from area.
- 2514 BODY TEMPERATURE REGULATION - K-PAD APPLICATION: Place equipment at bedside, regulate temperature of unit, while holding baby, place K-Pad on bed, cover completely with blanket, place baby on K-Pad; then remove used equipment from area.
- 2515 TEMPERATURE PROBE - APPLICATION/EXCHANGE: Upon arrival at bedside, tape temperature probe to exposed skin surface.
- 2516 OXYHOOD - APPLICATION/REPLACEMENT: Place oxyhood over infant's head, position oxygen sensor equipment and position additional tubing if required.
- 2517 OXYGEN ANALYZER - UTILIZATION: Upon arrival at bedside, assess the oxygen concentration utilizing the oxygen analyzer; adjust if indicated and record results.
- 2518 PHOTOTHERAPY TREATMENT - APPLICATION: Place equipment at bedside, expose baby, apply eye pads, and position phototherapy lights.
- 2519 ABDOMINAL GIRTH MEASUREMENT: Place measuring tape at bedside, expose and measure abdominal girth, record results, and then store tape measure at bedside.
- 2520 CHEST MEASUREMENT: Place measuring tape at bedside, obtain chest measurement, record results, then store tape measure at bedside.
- 2521 BODY LENGTH MEASUREMENT: Place measuring tape at bedside, measure body length, record results; then store tape measure at bedside.
- 2522 HEAD CIRCUMFERENCE MEASUREMENT: Place measuring tape at bedside, measure head circumference, record results; then store tape measure at bedside.
- 2523 BODY WEIGHT - NEONATE/INFANT: Upon arrival at bedside, remove clothing, place baby on balanced Infant Weight Scales, assess and record weight, return baby to bed, dress baby, and remove used equipment from area.
- 2524 UMBILICAL CORD - CARE: Place equipment at bedside, cleanse umbilicus with antiseptic solution, expose to air and dry; then remove equipment from bedside.
- 2525 PROPHYLACTIC EYE CARE: Place equipment at bedside, cleanse eyelids, pull lower lid down and instill prophylactic solution (Silver nitrate solution 1%) into conjunctival sac; then remove equipment from area.

- 2526 BLOOD PRESSURE - ARTERISONDE: Upon arrival at bedside, apply electrode gel to cuff, position cuff around extremity, measure blood pressure, remove cuff, cleanse gel from extremity, store equipment at bedside, and then record results.
- 2527 BLOOD PRESSURE - UMBILICAL ARTERY: Assess placement of equipment, read and record pressure reading.
- 2528 NEWBORN PULMONARY ASSESSMENT: Upon arrival at bedside, assess for skin color, respiratory grunting, nasal flaring, respiratory rate, sternal retractions and apnea; then record results of assessment.
- 2529 REFLEX ASSESSMENT, NEWBORN: Upon arrival at bedside, assess and record the rooting, sucking, grasp, swallowing, moro, and tonic neck reflexes.
- 2530 BLOOD SAMPLE - HEEL STICK: Place equipment at bedside, expose lower extremity, cleanse skin, utilizing a lancet puncture heel, obtain desired sample, apply pressure to puncture site, label specimen, and then remove used equipment from bedside.
- 2531 BLOOD SAMPLE - DEXTROSTICK: Place equipment at bedside, expose lower extremity, cleanse area, utilizing a lancet puncture heel, obtain desired blood sample, apply pressure to puncture site, process sample for 15 seconds, read and record results; then remove equipment from area.
- 2532 INTRAVENOUS INFUSION - INITIATING SCALP VEIN: Place equipment at bedside, hold and/or restrain during procedure, prep area, select site and perform venipuncture, tape into place, connect to intravenous solution, record on Intake and Output Record; then remove equipment from area.
- 2533 INTRAVENOUS/ARTERIAL INFUSION - UMBILICAL CANNULATION: Set up equipment, expose baby, hold and/or restrain during the procedure, assist physician as required, connect to transducer and/or intravenous infusion solution; then remove used equipment from area.
- 2534 INTRAVENOUS/ARTERIAL INFUSION - REMOVING UMBILICAL CATHETER: Upon arrival at bedside, slowly remove catheter, apply pressure to prescribed area, and then remove used equipment from area.
- 2535 INTRAVENOUS/ARTERIAL INFUSION - TRANSFUSION EXCHANGE: Set up equipment, hold and/or restrain during the procedure, follow established blood transfusion procedure, assist physician as required, monitor vital signs; then remove used equipment from area.
- 2536 VENTRICULAR TAP: Set up equipment, expose baby, hold and/or restrain during the procedure, assist physician as required, label specimen; then remove used equipment from area.
- 2537 BLADDER TAP: Place equipment at bedside, prepare baby for procedure, assist physician during the procedure, label specimen, return baby to bed, and then remove used equipment from area.
- 2538 CIRCUMCISION: Place equipment in treatment room, secure baby in restraints, assist physician with procedure, apply dressing to surgical site, remove restraints and return baby to newborn nursery.

- 2539 NEWBORN SEPTIC WORK-UP: Place equipment at bedside, obtain cultures from axilla, groin, umbilicus, rectum, stomach (gastric contents), nose throat and eyes. Label specimens and remove used equipment from area.
- 2540 PHYSICAL EXAMINATION: Prepare baby for examination by the physician, hold baby as required, and remove used equipment from the area at the completion of the examination.
- 2541. SHIRT CHANGE: Upon arrival at bedside, change soiled shirt, position baby; then remove soiled shirt from area.
- 2542 UMBILICAL CORD - CULTURE: Place equipment at bedside, expose umbilical area, obtain culture; then remove equipment from area.
- 2543 INITIAL NEWBORN ASSESSMENT: Upon arrival at bedside, assess for signs of neonatal distress, congenital anomalies and general appearance.
- 2544 UMBILICAL CORD - CLAMP APPLICATION/REMOVAL: Place equipment at the bedside, apply or remove the umbilical cord clamp; then remove equipment from area.

PSYCHIATRIC:

- 2601 ONE HOUR OF ONE-ON-ONE OBSERVATION - ARMS LENGTH: Assignment of one member of the nursing team to one patient. Patient requires constant evaluation as to: (1) general appearance, manner, and attitude; (2) consciousness; (3) activity; (4) affect; (5) thought disturbance; (6) memory and; (7) judgement and insight. The safety of the patient is of utmost importance.
- 2602 ONE HOUR OF ONE-ON-ONE OBSERVATION - CONSTANT/CLOSE: Assignment of one member of the nursing team to constantly evaluate the patient. The observations should include the following: (1) general appearance, manner, and attitude; (2) consciousness; (3) activity; (4) affect; (5) thought disturbances; (6) memory and; (7) judgement and insight.
- 2603 SITUATIONAL OBSERVATION: Assignment of one member of the nursing team to observe the patient during a specific activity (observation required only during the specific activity).
- 2604 GROUP THERAPY: Upon arrival in the therapy room, assume the role of leader/co-leader for group therapy.
- 2605 APPEARANCE, BEHAVIOR, AND CONVERSATION ASSESSMENT: Upon arrival in the ward day room area, the individual assigned this task will observe a group of patients for appearance, behavior and conversation.
- 2606 EXTRAPYRAMIDAL SYNDROME ASSESSMENT: Upon arrival at bedside, assess muscle tone and associated movement, i.e., appearance (tremor at rest, poverty of motion); muscle tone (increased), voluntary movement (strength normal or decreased), coordination (slowed), and reflexes if indicated.

- 2607 PATIENT GOVERNMENT SESSION: Upon arrival in the conference room, stays as resource person to the patients during the patient government session.
- 2608 PLANNED RECREATIONAL ACTIVITY SESSION: Assignment of a number of the nursing team to supervise the patients during the activity.
- 2609 LEATHER RESTRAINT APPLICATION - TWO-POINT: Place equipment at bedside, position patient, as applying leather restraints to two of the extremities. Assess patient's reactions and/or adjustment to the restraints.
- 2610 LEATHER RESTRAINT APPLICATION - FOUR-POINT: Place equipment at bedside, position patient, as applying leather restraints to all four extremities. Assess patient's reaction and/or adjustment to the restraints.
- 2611 BODY RESTRAINT - APPLICATION: Place equipment at bedside, place patient in body restraint. Assess patient's reaction and/or adjustment to the restraints.
- 2612 PHYSICALLY RESTRAINING PATIENT: Upon arrival at patient's area manually restrain patient as required until other therapies can be instituted, i.e., leather restraints, medications, and/or seclusion room.
- 2613 PLACING PATIENT INTO SECLUSION ROOM: Upon arrival at the patient's area, manually restrain patient, and then transport into the seclusion room.
- 2614 ELECTROCONVULSIVE THERAPY, ASSISTING PHYSICIAN: Assist patient onto the treatment table, assist physician with the treatment, provide support to the patient during the procedure, and then transport to the recovery room.
- 2615 INDIVIDUAL SUPPORT THERAPY - ALL NURSING PERSONNEL: Upon contact with patient, assesses mental status and: (1) inquires within the framework of interviewing that will give information about the patient's prevailing need or problem, permits ventilation of the feelings and thoughts, clarifies or interprets information, provides suggestions or instructions, intervenes actively as necessary; (2) encourages patient involvement in treatment activities and provides psychological support by participating with patient in these activities; and (3) encourages resocialization by participating with patient during meals, coffee break, shopping, walks, etc.
- 2616 INDIVIDUAL THERAPY - CONTACT INTERVIEW/PRIMARY THERAPIST: Refers to the assignment of a nursing team member to a patient throughout patient's hospitalization. The assignment includes developing a therapeutic relationship; formulating goals and interventions; evaluating treatment process.
- 2617 OCCUPATIONAL THERAPY, NURSING SUPPORT REQUIRED: Refers to the assignment of nursing team member to accompany patients to occupational therapy activities to provide safety and security support, to encourage and/or assist patient to participate in activity and to actively participate with patients in therapeutic athletics; assesses patient's reactions and participation levels at these activities.

2618 INTAKE INTERVIEW, INTERDISCIPLINARY: Upon arrival in the conference room, provides nursing input, discusses and collaborates with members of the interdisciplinary team in developing a treatment plan for and with the patient.

2619 INTAKE INTERVIEW, ADMISSION: Refers to the assignment of a nursing team member to admit a patient to the nursing unit. This admission procedure should include the following: (1) observation of physical abnormalities and identifying features; (2) mental status survey; and (3) obtaining past and present history of illness and treatment.

GASTROINTESTINAL ASSESSMENT:

2701 BOWEL SOUND ASSESSMENT: Upon arrival at bedside, utilize a stethoscope to assess status of bowel sounds; then remove equipment from area.

APPENDIX C

Minimal Essential Mean Tasking Time for Each Direct Nursing Care

Activity by Groups of Clinical Units

Nursing Care Hour Standards
Minimal Essential Tasking Time in Minutes by Unit Type

Unit Types - Group I = 01, 02, 03, 04, 05; Group II = 10; Group III = 18;
Group IV = 10, 11, 15, 16, 18; Group V = 01, 02, 03, 04, 05,
10, 11, 15, 16, 18; Group VI = 06, 07, 08, 09; Group VII =
10, 11, 15, 16

NURSING CARE ACTIVITIES

ACTIVITIES OF DAILY LIVING

Hygiene:

	Group I	Group II	Group III	Minimal Essential Tasking Time	Group V	Group VI	Group VII
0101 Bathing, Complete	20.5647	15.8625	12.5600	19.8507	20.1646	7.2367	19.8507
0102 Bathing, Assist With Back and Legs	11.7993	7.3190	*	12.8536	12.1010	11.8086	12.8594
0103 Oral Hygiene	3.0404	3.0067	*	3.3983	3.2428	2.3318	3.3983
0104 AM Care	6.4133	*	*	7.6395	6.9666	4.6500	7.6395
0105 PM Care	10.4626	16.0925	*	10.8758	10.6522	10.4900	10.8758
0106 Nail Care	*	*	*	3.9100	3.9100	*	3.9100
0107 Shampoo	7.1867	*	*	10.5587	9.9967	13.4367	10.5587
0108 Shaving	5.8890	*	*	6.5736	6.2501	6.5736	6.5736
0109 Occupied Bed	9.7453	8.1040	9.2300	9.6438	9.6977	6.3835	9.6469
0110 Unoccupied Bed	6.8190	6.7681	4.1300	5.9933	6.0472	5.1692	5.9975
0111 Changing Bottom Sheet	2.7700	4.5700	*	3.4880	3.4227	3.4000	3.4880
0112 AM Care, Utensils Provided	2.3611	1.4033	*	2.2476	2.3168	1.1500	2.2476
0113 Bathing, Utensils Provided	3.0862	*	*	2.3386	2.5201	1.6009	2.3386
0114 AM Care, Partial	3.9067	4.7000	*	4.8120	4.3378	*	4.8120
0115 Sitting Shower/Shower With Assistance	*	17.8000	13.9750	16.7945	16.7945	6.9800	16.9051
0116 Tub Bath	*	*	*	18.0069	18.0069	10.3946	18.0069
0117 Changing Top Sheet	1.4650	1.2686	*	1.3690	1.3850	.8200	1.3690
0118 Changing Bed Linen Protector/Chux	2.0671	.6275	*	.8837	1.0063	.8357	.8837

Nutrition:

0201 Feeding	12.8739	.6500	*	17.4074	16.1591	22.2249	17.4074
0202 Fluid	1.3862	.5610	.1500	.7833	.9525	.6961	.7868
0203 Snack	*	.7500	*	.8472	.8472	.4241	.8472
0204 Serving Meal Tray, Preparation Required	3.2682	1.7826	*	2.4768	2.6073	2.6902	2.4768
0205 Special Feeding - Nasogastric	4.1339	*	*	4.0933	3.8555	18.3633	4.0933
0206 Special Feeding - Gastrostomy	*	*	*	3.2232	3.2232	6.0641	3.2232
0207 Special Feeding - Hyperalimentation, Intravenous	6.3470	*	*	7.3965	6.0009	7.0587	7.3965
0208 Measuring and Recording Intake	1.2540	.8862	.6050	.7731	.8583	.6912	.7750
0209 Special Feeding - Nasogastric, Continuous With Infusion Pump	3.0971	*	*	4.3547	3.6211	3.6157	4.3547
0210 Special Feeding - Nasogastric, Continuous With Gastric Feeding Equipment	6.5050	*	*	3.0150	4.1783	3.7700	3.0150
0211 Serving Meal Tray, No Preparation	1.0998	.5102	.1650	.3418	.3881	.3826	.3433

Elimination:

0301 Measuring and Recording Output - Urine	1.0188	1.0405	*	1.1353	1.0877	1.0239	1.1353
0302 Measuring and Recording Output - Liquid	1.2500	*	*	1.2143	1.2222	.3300	1.2143
0303 Measuring and Recording Output - Vomitus	1.0500	.5025	*	.8200	.8456	.8100	.8200
0304 Measuring and Recording Output - Drainage	1.8848	.4800	*	1.3841	1.6962	.9743	1.3841
Bottles, All Types							

		Minimal Essential Tasking Time				
		Group I	Group II	Group III	Group IV	Group V
0305	Giving a Bedpan	3.0721	2.2918	4.1300	2.4228	2.5162
0306	Giving a Urinal	2.3018	*	*	1.5125	1.5125
0307	Incontinent Care	5.9840	*	*	7.9248	3.2628
0308	Output Weight - Diapers/Bed Linens	.5500	*	*	1.6300	.6410

Group VII

Group VI

Group V

Group IV

Group III

Group II

Group I

MOBILITY

Mobility:

0401	Mobility - Ambulating First Time	7.3300	4.8626	*	4.8923	5.1004
0402	Mobility - Bed to Floor	3.0975	1.7756	*	1.6059	1.7761
0403	Mobility - Bed to Chair	3.5515	1.8261	*	2.0150	2.4744
0404	Mobility - Bedside Commode	5.4839	.9740	*	2.5921	3.2420
0405	Mobility - Assistance While Walking	5.7840	3.1354	5.6800	4.0637	3.2380
0406	Mobility - Sitting on Side of Bed	2.3133	2.1750	*	1.5293	1.8233

4.8923

3.2700

5.1004

4.8923

*

4.8626

7.3300

Changing Position:

0501	Changing Patient's Position in Bed	2.6927	1.1821	*	1.6131	2.1266
0502	Adjusting Position of Bed	.8795	.3682	*	.3694	.4927
0503	Turning Frame, All Types	10.0549	*	5.8700	6.8239	9.0256
0504	Mobility - Bed to Stretcher	3.9788	1.8853	1.5600	2.1885	2.4712
0505	Adjusting Siderail	.6842	.4621	*	.2148	.3696
0506	Adjusting Restraint	1.2271	*	*	1.5350	1.2751
0507	Fowlers/Trendelenberg Position	1.0169	.1300	*	1.0882	1.0548

1.6131

1.0899

2.1266

1.6131

*

1.1821

2.6927

Exercise:

0601	Exercise - Active	*	*	*	7.0733	7.0733
0602	Exercise - Passive	6.8930	*	*	4.4060	4.4060

7.0733

3.4150

7.0733

7.0733

*

*

6.8930

PSYCHOLOGICAL

0701	Orientation to Clinical Unit	7.6705	4.9521	4.9900	4.2415	4.7997
0702	Explanation of Procedures and Tests	2.0781	1.3134	2.8014	1.6469	1.7433
0703	Answering Patient's Question	1.8747	1.0471	1.0327	.8945	1.0121
0704	Visiting With Patient/Purposeful Interaction	1.7660	1.3364	5.6623	2.1520	2.1036

4.2274

5.1613

4.7997

4.2415

4.9900

4.9521

7.6705

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801	Blood Pressure, Manual	1.1491	1.0237	.9028	1.0319	1.0388
0802	Pulse - Radial/Brachial	.7825	.6344	.6550	.6209	.6727
0803	Pulse - Apical	1.2784	*	*	1.3631	1.3296
0804	Respirations	.8975	.9744	.3200	.5306	.6605
0805	Temperature - Oral, Electronic/ Mercury	1.0239	1.0407	.8758	.9629	.9871
0806	Temperature - Rectal, Electronic/ Mercury	1.6127	*	*	1.9181	1.7279

1.0385

1.2165

1.0388

1.0319

.9028

1.0237

1.1491

		Minimal Essential Tasking Time						
		Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
0807	Temperature - Axillary, Electronic/ Mercury	.9590	*	*	1.0675	.9960	1.0636	1.0675
0808	Oral Temperature, Pulse, & Respirations	2.1197	1.2062	.9411	1.2224	1.2903	1.6496	1.2269
0809	Pulse - Pedal/Femoral/Popliteal	1.0264	*	*	1.2157	1.0317	1.1067	1.2157
0810	Pulse - Doppler	3.2487	*	*	*	3.2487	*	*
0811	Rectal/Axillary Temperature, Apical Pulse, & Respirations	2.7363	2.1950	*	1.4867	2.0747	2.7444	1.4867
<u>Body Weight/Selected Measurements:</u>								
0901	Ambulatory Weight	2.0272	.6322	.5967	1.0931	1.2309	.9138	1.0979
0902	Bed Scale Weight	6.0012	*	*	5.3089	5.6879	7.8300	5.3089
0903	Abdominal Girth Measurement	4.0800	*	*	1.9910	2.0905	1.5300	1.9910
0904	Extremity Circumference Measurement	.6325	1.0800	*	.7812	.7655	*	.7812
<u>Cardiac Activity:</u>								
1001	Monitor Leads Application/Exchange	2.1934	*	*	1.8331	2.1090	1.5455	1.8331
1002	Rhythm Strip - Monitor	.8804	*	*	.9286	.8610	*	.9286
1003	12 Lead ECG	10.4717	*	*	9.9379	10.3289	7.9533	9.9379
1004	Central Venous Pressure	2.4500	*	*	1.1700	2.3433	1.4150	1.1700
1005	Heart Sounds Assessment	1.2843	1.2000	*	1.2848	1.2845	1.3159	1.2848
1006	Pulmonary Artery Pressure Wedge	1.0794	*	*	*	1.4316	*	*
1007	Pulmonary Artery Pressure	.6837	*	*	*	.6837	*	*
1008	Monitoring Reading - Blood Pressure/ Heart Rate/Pulmonary Artery Pressure/ Central Venous Pressure	.8079	*	*	*	.6506	.5300	*
1009	Rhythm Strip Measurements	1.2022	*	*	3.4400	1.3743	*	3.4400
1010	Rhythm Strip - ECG Machine	7.6700	*	*	8.2177	7.7785	4.5387	8.2177
1011	Cardiac Output Measurement	5.8300	*	*	*	5.8300	*	*
1012	Adjusting Cardiac Monitor/Connecting Leads/Reset Alarm	.6863	*	*	2.7300	.9458	.9929	2.7300
<u>Neurological:</u>								
1101	Pupil Reflexes	.7005	*	*	.5786	.6611	.6747	.5786
1102	Mental Alertness	.8316	*	*	.6300	.9056	.8825	.6300
1103	Sensory Discrimination	1.8333	*	*	.9443	1.3546	*	.9443
1104	Orientation	1.0421	.9800	*	.9254	.9941	.4000	.9254
1105	Motor/Sensory Testing	1.1845	1.2860	*	1.1623	1.1761	1.0160	1.1623
<u>Respiratory Assessment:</u>								
1201	Vital Capacity	6.3300	*	*	*	6.3300	*	*
1202	Pulmonary Assessment	1.7312	3.1450	*	1.6471	1.6746	1.1888	1.6471
<u>Gastrointestinal Assessment:</u>								
2701	Bowel Sound Assessment	1.6415	.8300	*	1.3940	1.5112	1.7076	1.3940

THERAPEUTIC ACTIVITIES/MOBILITIES

Gastrointestinal:

	Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
1301 Nasogastric Tube - Insertion	7.4531	*	*	8.6786	8.0006	4.0964	8.6786
1302 Nasogastric Tube - Irrigation	1.5820	*	*	31.6600	1.5874	2.8200	2.8782
1303 Nasogastric Tube - Removal	1.6379	*	*	1.2445	1.4648	1.8127	1.2445
1304 Enema - Cleansing	8.8800	4.4190	*	4.6755	4.7160	7.7500	4.6755
1305 Sigmoid - Retention	*	1.2608	3.8800	1.8452	1.8452	1.3700	1.8138
1306 Colostomy - Irrigation	7.2700	*	*	26.0783	23.3914	*	26.0783
1307 Colostomy - Dressing Change	6.6300	*	*	9.6014	8.2300	16.3950	9.6014
1308 Lavage	16.2400	*	*	23.8967	21.3444	6.1200	23.8967
1309 Paracentesis	*	*	*	23.5700	23.5700	*	23.5700
1310 Dressing Change - Ileostomy/Ileostomy	8.4850	*	*	7.9171	8.0433	*	7.9171
1311 Nasogastric Tube - Instillation	2.3437	*	*	2.5318	2.4201	.9689	2.5318
1312 Fecal Impaction - Assessment/Removal	3.3000	*	3.3800	2.5214	2.6187	1.1800	2.3783
1313 Endoscopy	22.0000	*	*	21.7400	21.8267	*	21.7400
1315 Proctoscopy	*	*	*	20.1700	20.1700	*	20.1700
1316 Rectal Tube Insertion	*	4.0300	*	4.0300	4.0300	*	4.0300
1317 Rectal Tube Removal	3.9700	*	*	2.0200	2.9950	*	2.0200

Respiratory:

1401 Oxygen Administration - Nasal	.6925	2.5450	*	1.5700	1.3000	*	1.5700
1402 Oxygen Administration - Mask	.9859	1.2137	*	1.0027	.9887	.6171	1.0027
1403 Oxygen Administration - Prongs	.8150	2.0400	*	.8015	.8110	*	.8015
1404 Endotracheal/Tracheostomy Tube Pressure Cuff	2.0782	*	*	*	2.0782	*	*
1406 Chest Tube - Care	19.0833	*	*	7.5700	11.4078	*	7.5700
1407 Chest Tube - Changing Bottles	9.6150	*	*	9.0600	9.4762	20.3200	9.0600
1408 Tracheostomy - Cleaning Cannula	5.9671	*	*	6.3429	6.0423	*	6.3429
1409 Chest Pulmonary Therapy - Frappage With Postural Drainage	3.4595	*	*	4.5420	3.6600	5.8615	4.5420
1411 Suctioning - Oral	1.4719	*	*	2.7194	1.6606	1.7404	2.7194
1412 Suctioning - Tracheostomy	3.0797	*	*	2.2524	2.8447	3.6070	2.2524
1413 Suctioning - Naso-tracheal	3.4773	*	*	3.6925	3.7285	2.1592	3.6925
1414 Suctioning - Endotracheal	3.4615	*	*	8.2933	3.6262	4.4763	8.2933
1415 IPPB Treatment	6.2117	*	*	*	7.9892	3.0277	9.7667
1416 Respiratory Resuscitation	33.7500	*	*	*	33.7500	36.7680	*
1417 Thoracentesis	28.8257	*	*	24.2233	26.2806	10.1800	24.2233
1418 Blw Bottles	3.8727	3.3279	*	3.3378	3.4462	2.1800	3.3378
1419 Cough and Deep Breathe	2.6110	2.0552	*	1.9447	2.2805	1.4200	1.9447
1420 Incentive Spirometer	3.3171	1.3475	*	2.8111	2.9668	*	2.8111
1421 Intubation	19.6878	*	*	6.7150	17.3291	8.2875	6.7150
1422 Positioning for X-Ray	4.0669	5.5800	*	4.2025	3.7549	4.9143	4.2025
1423 Tracheostomy - Dressing Change	6.5306	*	*	5.8662	6.3619	3.9747	5.8662
1424 Oxygen Administration - Mist With Collar/ Face Tent	1.3625	*	*	*	1.3625	.4150	*
1425 Group Tent	*	*	*	*	*	7.9800	*
1426 Suctioning - Bulb Syringe	*	*	*	*	*	.7024	*

		Minimal Essential Tasking Time						
		Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
1427	Maximist Treatment	3.1500	*	*	3.2925	3.2640	12.5473	3.2925
1428	Chest Tube - Insertion	39.0383	*	*	23.5163	27.4300	22.5800	23.5163
1429	Chest Tube - Removal	6.5300	*	*	5.0388	5.6418	7.6780	5.3088
1430	Extubation	2.5567	*	*	*	2.5567	*	*
1431	Bronchoscopy	20.3167	*	*	*	20.3167	*	*
Cardiovascular:								
1501	Venipuncture - Blood Sample	4.3728	3.1090	3.6700	3.1891	3.5175	6.1850	3.1878
1502	Venipuncture - Blood Culture	5.4814	5.4806	*	4.7279	4.9744	6.0887	4.7279
1503	Arterial Puncture - Blood Gases	5.5380	*	*	5.1733	5.4705	6.2581	5.1733
1504	Intravenous Infusion - Flow Rate	.9976	.8660	*	.6774	.7528	.9078	.6774
1505	Intravenous Infusion - Initiating	11.6228	6.6758	*	8.5185	9.2432	14.1168	8.5185
1506	Intravenous Infusion - Change IV Bottle	1.8028	1.5049	*	1.6177	1.1658	1.6009	1.6177
1507	Intravenous Infusion - IV Push Medication	1.4284	2.1988	*	2.3930	1.9933	2.0359	2.3930
1508	Intravenous Infusion - IV Catheter Care	10.2300	13.8250	*	10.7059	9.7106	8.4231	10.7059
1509	Intravenous Infusion - Piggy-Back Medication	1.6643	2.1971	*	1.7976	1.7653	2.0644	1.7976
1510	Intravenous or Arterial Infusion - Termination	5.3701	2.7717	*	2.8856	3.2334	3.7844	2.8856
1511	Intravenous Infusion - Infusion Pump Setup	3.8195	3.9368	*	4.0265	3.6533	4.7233	4.0265
1512	Elastic Stockings	3.1281	*	*	3.6665	3.4109	*	3.6665
1513	Ace Bandage	3.5900	*	*	3.4071	3.4833	*	3.4071
1514	Intravenous Infusion - Blood	3.7389	5.1300	*	3.6886	3.7119	6.2515	3.6886
1515	Intravenous/Arterial Line - Blood Sample	3.0134	.5350	*	5.1733	2.8946	2.3489	5.1733
1516	Arterial Line - Transducer Exchange	16.3290	*	*	*	16.3290	3.5500	*
1517	Arterial Line - Arterial Line Setup	17.1862	*	*	*	17.1862	*	*
1518	Arterial Line - Swan Ganz Catheter Setup	33.3120	*	*	*	33.3120	*	*
1520	Intravenous Infusion - Platelets/Plasma	3.5228	*	*	3.7700	3.5765	.9000	3.7700
1521	External Pacemaker	10.0250	*	*	*	10.0250	*	*
1522	Cardiopulmonary Resuscitation	64.0757	*	*	59.7500	62.2733	11.0620	59.7500
1523	Cardioversion	22.7450	*	*	*	22.7450	*	*
1526	Swan Ganz Catheter - Initiation	57.5792	*	*	*	41.1012	*	*
1527	Swan Ganz Catheter - Removal	6.8900	*	*	*	6.8900	*	*
1528	Arterial Line - Initiation	42.1319	*	*	*	42.1319	*	*
1529	Surgical Intravenous Initiation, Cut Down	49.5967	*	*	27.2800	44.0175	61.6650	27.2800
Skin:								
1601	Decubitus Care	10.7486	*	6.8800	7.9098	8.5416	*	8.0100
1602	Skin Care	4.7167	*	*	3.4770	3.7631	3.2350	3.4770
1603	Suture/Skin Clip Removal, > 15	12.2800	*	*	14.5030	14.4313	*	14.5030
1604	Small Dressing Change, < 4"x 8"	5.6078	*	*	6.3010	6.1654	6.7900	6.3010
1605	Large Dressing Change, > 4"x 8"	11.8445	*	10.2700	11.0384	11.3649	7.7325	11.0467
1606	Reinforcing Dressing	4.6208	*	*	2.9019	3.5442	5.6200	2.9019

Minimal Essential Tasking Time						
	Group I	Group II	Group III	Group IV	Group V	Group VI
1607 Wound Irrigation	10.3933	10.6800	12.6300	12.9026	12.7401	12.9047
1608 Soaking Hand	*	*	*	10.3167	10.3167	10.3167
1609 Soaking Foot	*	*	*	6.6340	6.6340	6.6340
1610 Hot Compress	3.8333	1.3867	*	2.6408	2.7733	2.6408
1611 Cold Compress	*	*	*	7.5625	7.5625	7.5625
1612 Sitz Bath	*	11.9450	*	10.6256	10.6256	10.6256
1613 Surgical Prep, Local	3.7067	7.7129	*	11.2847	10.9932	11.2847
1614 Surgical Prep, 3-Way	*	8.3333	*	16.6240	16.6240	16.6240
1615 Wound Culture	1.2000	*	*	2.4513	2.3122	2.4513
1616 Heat Lamp	1.9644	1.9078	*	1.5194	1.6084	1.5194
1617 Back Rub	2.8511	3.6800	*	3.0613	2.9718	3.0613
1619 Air Flootation/Alternating Pressure Mattress	3.5900	*	*	7.5717	6.5762	7.5717
1620 Isolation, Gowning & Gloving	1.2308	*	*	1.6587	1.4659	1.6587
1621 Death Care	23.6450	*	*	22.3900	22.8920	22.3900
1622 Suture/Skin Clip Removal, < 15	4.5200	*	*	6.6893	6.2072	6.6893
1623 Application of K-Pad	.7500	*	*	1.5960	1.4550	1.5960
EENT:						
1701 Eye Care	1.8337	*	*	3.1300	1.7834	3.1300
1702 Irrigation - Eye	*	*	*	5.0800	5.0800	5.0800
1703 Irrigation - Ear	*	*	*	1.8000	1.8000	1.8000
1704 Irrigation - Throat	*	*	*	5.2000	5.2000	5.2000
1705 Instillation of Drops - Eye	.4500	*	.6925	.7773	.7700	.7961
1706 Instillation of Drops - Ear	*	1.4500	.5860	.7976	.7976	.8856
1707 Instillation of Drops - Nose	*	*	*	.2300	.2300	.2300
1708 Culture - Nose	*	*	*	.2460	.2460	.2460
1709 Culture - Throat	*	.7250	*	.6374	.6374	.6374
1710 Culture - Sputum	3.3500	*	*	2.1583	2.4563	2.1583
Neurological-Skeletal:						
1801 Pin Care	6.7352	*	*	8.0112	7.3963	8.0112
1802 Head Traps Care	6.2873	*	*	4.2450	6.1706	4.2450
1803 Bed Cradle	1.5733	*	*	1.0500	1.4425	1.0500
1804 Foot Board	1.5800	*	*	.4233	.7125	.4233
1805 Ice Pack	1.0575	.5655	.9367	.7904	.8001	.7883
1806 Extremity Traction - Application	*	*	*	4.1400	4.1400	4.1400
1807 Extremity Elevation	.7780	*	.8300	.9187	.9140	.9206
1808 Cast Care	*	*	*	1.1165	1.1165	1.1165
1809 Extremity Traction - Adjust	5.8925	*	*	2.0088	2.5445	2.0088
1810 Seizure Care	3.9125	*	*	5.6640	4.8856	5.6640
1811 Circulation Check	.9147	*	.4950	.6378	.6672	.6399
Urological-Gynecological:						
1901 Catheterization - Foley	6.7720	5.8700	*	8.6918	7.9674	8.6918
1902 Catheterization - Straight	7.2333	5.5700	*	6.4069	6.4924	6.4069
1903 Foley Catheter Care	4.1372	5.8323	1.5800	4.4172	4.4172	4.6150
1904 Urine Specimen - Routine	2.1555	1.4552	*	1.5942	2.7673	1.5942
1905 Urine Specimen - Clean Catch/Foley	2.2300	1.6696	*	2.0192	2.0660	2.0192
1906 Perineal Care	2.1833	1.3000	*	2.5667	2.3750	2.5667
1907 Foley Catheter Removal	2.0381	3.5975	*	3.9891	3.3306	3.9891
1908 Douche	*	*	*	1.8565	1.8565	1.8565

	Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
1909 Dilation and Curettage	17.0800	35.8767	*	30.3463	28.8722	*	30.3463
1910 Vaginal/Pelvic Examination	*	3.4379	*	5.6741	5.6741	7.7700	5.6741
1911 Urinary Bladder Training	*	*	*	1.0317	1.0317	.6300	1.0317
1912 Condom Catheter Application	3.4717	*	*	3.0636	3.2076	*	3.0636
1913 Peritoneal Dialysis - Initiation	32.3350	*	*	*	32.3350	18.6000	*
1914 Peritoneal Dialysis - Exchange of Solutions	20.9615	*	*	*	20.9615	*	*
1915 Peritoneal Dialysis - Removing Catheter	6.7500	*	*	*	6.7500	*	*
1916 Bladder Irrigation	3.9117	*	*	4.0505	4.0185	*	4.0505

Body Temperature Regulation:

2001 Sponging	*	*	*	*	*	*	*
2002 Hypothermia/Hyperthermia Treatment	5.3300	*	*	*	5.3300	14.1275	*

Medication Administration:

2101 Oral	1.0629	.7037	.4302	.7772	.8085	1.4681	.8050
2102 Intramuscular	1.2178	1.1968	1.3143	1.2274	1.2259	.9180	1.2257
2103 Subcutaneous	.7567	1.2233	*	.9363	.9010	1.1967	.9363
2104 Suppository, Rectal/Vaginal	1.0629	1.5487	*	1.5234	1.4799	.8891	1.5234
2105 Topical	1.2947	.5300	.9800	1.1674	1.2234	.8791	1.1701
2106 Sublingual	.5880	*	*	.4579	.4778	*	.4579

Diagnostic Test:

2201 Bone Marrow Aspiration	*	*	*	15.9550	15.9550	1.7800	15.9550
2202 Lumbar Puncture	23.8012	*	*	18.7011	21.1012	15.6628	18.7011
2204 Urine Testing - Protein	.6000	.6003	*	.6310	.6307	1.0554	.6310
2206 Urine Testing - Specific Gravity	.9049	.6950	*	.7428	.8422	.8959	.7428
2207 Urine Testing - Sugar and Acetone	1.5222	1.1067	*	2.1129	1.7777	1.3319	2.1129
2208 Liver Biopsy	*	*	*	13.8575	13.8575	*	13.8575
2209 Guaiac Testing - Feces/Vomit/GI Drainage	.9443	*	*	1.1344	1.0702	.9065	1.1344
2210 Collection of Feces Sample	*	*	*	1.7120	1.7120	1.2750	1.7120
2211 Hematocrit	5.3200	5.5733	*	3.6273	3.7683	5.0100	3.6273

PATIENT TEACHING/NEONATAL AND PEDIATRIC FAMILY INSTRUCTION

2301 Teaching - Medication Administration	*	*	.3200	19.5881	19.5881	.8300	20.3292
2302 Teaching - Colostomy Care	*	*	*	8.7800	8.7800	*	8.7800
2304 Teaching - Urine Testing	*	1.0575	*	1.2580	1.2580	*	1.2580
2305 Teaching - Blow Bottles/Incentive Spirometer	3.8975	3.5517	*	3.5370	3.5971	2.6800	3.5370
2306 Teaching - Dietary Explanation	*	*	*	2.8633	2.8633	5.6200	2.8633

		Minimal Essential Tasking Time						
		Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
2307	Teaching - Preoperative Instruction	*	6.4333	*	10.2056	10.2056	40.0000	10.2056
2308	Teaching - Diagnostic Test	*	*	*	1.0804	1.0804	.7500	1.0804
2309	Teaching - Disease/Condition Related	3.9442	5.9087	*	6.2411	6.1507	4.4452	6.2411
2311	Teaching - Dressing Change	*	*	*	6.4700	6.4700	2.5800	6.4700
2312	Teaching - Insulin Administration	*	2.7333	*	7.7529	7.7529	*	7.7529
2313	Teaching - Diabetic	*	1.6000	*	10.9200	10.9200	*	10.9200
2314	Teaching - Ileostomy/Ileostomy Care	*	*	*	12.9100	12.9100	*	12.9100
OBSTETRICAL								
2401	Vulvar/Anal Area Prep	*	3.0782	*	3.0564	2.9067	*	3.0564
2402	Support During Uterine Contraction	*	2.1940	*	2.1680	2.1680	*	2.1680
2403	Dilatation & Effacement Assessment	*	1.7765	*	1.7765	1.7765	*	1.7765
2404	Dilatation & Effacement Assessment, Assisting Physician	*	2.0301	*	2.0142	2.0142	*	2.0142
2405	Fetal Electrode Insertion	*	4.6640	*	4.6640	4.6640	*	4.6640
2406	Fetal Electrode Insertion, Assisting Physician	*	3.5817	*	3.5817	3.5817	*	3.5817
2407	Intrauterine Catheter Insertion	*	6.9800	*	6.9800	6.9800	*	6.9800
2408	Intrauterine Catheter Insertion, Assisting Physician	*	9.2133	*	9.2133	9.2133	*	9.2133
2409	Internal or External Monitoring - Uterine Contraction/Fetal Heart Tones	*	1.0861	*	1.0861	1.0861	*	1.0861
2410	Manual Contraction Assessment	*	1.9009	*	1.8905	1.8905	*	1.8905
2411	Pitocin Induction, Assisting Physician	*	6.8000	*	6.8000	6.8000	*	6.8000
2412	Fetal Heart Tones, Manual	2.9820	1.3586	*	1.3571	1.4226	*	1.3571
2413	Fetal Heart Tones, Doppler	*	2.1816	*	2.1816	2.1816	*	2.1816
2415	Routine Delivery Room Functions	*	56.7940	*	56.7940	56.7940	*	56.7940
2416	Fundus Massage	1.1700	.9388	*	.9388	.9519	*	.9388
2417	Changing Perineal Pad	.9633	.7239	*	.7239	.7891	*	.7239
2418	Perineal Suture Care	*	2.8530	*	2.8530	2.8530	*	2.8530
2419	Teaching - Perineal Suture Care	*	2.4000	*	2.4383	2.4383	*	2.4383
2420	Teaching - Breast Care	*	2.8025	*	2.8025	2.8025	*	2.8025
2421	Oxytocin Challenge Test	*	61.4033	*	61.4033	61.4033	*	61.4033
2422	Non-Stress Test	*	24.3193	*	24.3193	24.3193	*	24.3193
2423	Amniotomy	*	3.4025	*	3.4025	3.4025	*	3.4025
2424	Amniocentesis	*	29.1840	*	29.1840	29.1840	*	29.1840
2426	Teaching - Breast Feeding	*	12.6887	*	12.6887	12.6887	*	12.6887
2427	Pitocin Induction	*	6.4845	*	6.5417	6.5417	*	6.5417
2428	Tocotransducer - Application	*	2.1377	*	2.1377	2.1377	*	2.1377
2429	Ultrasonic Transducer - Application	*	3.1392	*	3.1892	2.1920	*	3.1892
2430	Fetal Electrode Insertion/Intrauterine Catheter Insertion	*	6.2667	*	6.2667	6.2667	*	6.2667
2431	Fetal Electrode Insertion/Intrauterine Catheter Insertion, Assisting Physician	*	8.0743	*	8.0743	8.0743	*	8.0743
2432	Tocotransducer and Ultrasonic Transducer Application	*	5.2557	*	5.2557	5.2557	*	5.2557
2433	Observation and Assessment, Second Stage of Labor	*	52.4420	*	52.4420	52.4420	*	52.4420

		Minimal Essential Tasking Time					Group VII
		Group I	Group II	Group III	Group IV	Group V	
2434	Labor Room Examination and Preparation, Routine	*	26.3847	*	26.0294	26.0294	26.0294
2435	Adjust Ultrasonic Transducer/Tocotransducer	*	2.9279	*	2.9279	2.9279	2.9279
2436	Monitoring Fetal Heart Tones, Ultrasonic Transducer	*	.8900	*	.9136	.9136	.9136
2437	Monitoring Fetal Heart Tones, Ultrasonic Transducer and Uterine Contraction, Tocotransducer	*	1.7681	*	1.7681	1.7681	1.7681
NEONATAL - PEDIATRICS							
2501	Feeding - Graduated Feeder, Premature	*	*	*	*	*	*
2502	Feeding - Bottle	*	*	*	*	*	*
2503	Feeding - Oral-Gastric Tube	*	*	*	*	*	*
2504	Feeding - Oral-Jejunostomy Tube	*	*	*	*	*	*
2505	Assessing Gastric Residual	*	.6000	*	1.5400	*	1.5400
2506	Bubbling Baby, Eructate	*	3.0900	*	.6000	*	.6000
2507	Diaper Change	*	*	*	3.0900	*	3.0900
2508	Urine Collection Bag - Application	*	*	*	*	*	*
2509	Changing Linens, Newborn	*	*	*	*	*	*
2510	Holding Newborn/Infant	*	*	*	*	*	*
2511	Radiant Warmer - Application	*	*	*	*	*	*
2512	Isollette - Application	*	*	*	*	*	*
2513	Temperature Regulation - Plastic Wrap Application	*	1.7800	*	1.7800	*	1.7800
2514	Temperature Regulation - K-Pad Application	*	*	*	*	*	*
2515	Temperature Probe - Application/Exchange	*	*	*	*	*	*
2516	Oxyhood - Application/Replacement	*	*	*	*	*	*
2517	Oxygen Analyzer - Utilization	*	*	*	*	*	*
2518	Phototherapy Treatment - Application	*	*	*	*	*	*
2519	Abdominal Girth Measurement	*	*	*	*	*	*
2520	Chest Measurement	*	*	*	*	*	*
2521	Body Length Measurement	*	*	*	*	*	*
2522	Head Circumference Measurement	*	*	*	*	*	*
2523	Body Weight - Neonate/Infant	*	3.0800	*	3.0800	*	3.0800
2524	Umbilical Cord - Care	*	*	*	*	*	*
2525	Prophylactic Eye Care	*	*	*	*	*	*
2526	Blood Pressure - Arteriosonde	*	*	*	*	*	*
2527	Blood Pressure - Umbilical Artery	*	*	*	*	*	*
2528	Pulmonary Assessment	*	*	*	*	*	*
2529	Reflex Assessment, Newborn	*	*	*	*	*	*
2530	Blood Sample - Heel Stick	*	3.1200	*	3.1200	*	3.1200
2531	Blood Sample - Dextrostick	*	4.0300	*	4.0300	*	4.0300
2532	Intravenous Infusion - Initiating Scalp Vein	*	*	*	*	*	*
2533	Intravenous/Arterial Infusion - Umbilical Cannulation	*	*	*	*	*	*
2534	Intravenous/Arterial Infusion - Removing Umbilical Catheter	*	*	*	*	*	*
2535	Intravenous/Arterial Infusion - Transfusion Exchange	*	1.7767	*	1.7767	*	1.7767
2536	Ventricular Tap	*	*	*	*	*	*
2537	Bladder Tap	*	*	*	*	*	*
2538	Circumcision	*	14.9833	*	14.9833	*	14.9833

	Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
2539 Newborn Septic Mortup	*	*	*	*	*	6.8867	*
2540 Physical Examination	*	*	*	*	*	9.3400	*
2541 Shirt Change	*	*	*	*	*	1.1484	*
2542 Umbilical Cord - Culture	*	*	*	*	*	.6740	*
2543 Initial Newborn Assessment	*	*	*	*	*	2.2200	*
2544 Umbilical Cord - Clamp, Application/Removal	*	*	*	*	*	.7620	*

PSYCHIATRIC

2601 One Hour of One-on-One Observation - Arms Length	*	*	60.0000	60.0000	60.0000	*	*
2602 One Hour of One-on-One Observation - Constant/Close	*	*	60.6771	60.6771	60.6771	*	*
2603 Situational Observation	104.4521	26.6960	16.3310	21.2373	28.2554	117.8136	41.1897
2604 Group Therapy	*	*	7.2552	7.2552	6.1554	*	*
2605 Appearance, Behavior and Conversation Assessment	*	*	2.3025	2.3025	2.2704	*	*
2606 Extrapyramidal Syndrome Assessment	*	*	1.6121	1.6121	1.6121	*	*
2607 Patient Government Session	*	*	7.1729	7.1729	3.2659	*	*
2608 Planned Recreational Activity Session	*	*	16.0333	16.0333	10.8809	*	*
2609 Leather Restraint Application - 2 Point	*	*	1.4650	5.9267	5.9267	*	14.8500
2610 Leather Restraint Application - 4 Point	17.0200	*	*	*	17.0200	*	*
2613 Placing Patient Into Seclusion Room	*	*	5.4350	5.4350	5.4350	*	*
2615 Individual Support Therapy - All Nursing Personnel	*	*	*	*	*	*	*
2616 Individual Therapy - Contract Interview/Primary Therapist	*	*	*	*	*	*	*
2617 Occupational Therapy - Nursing Support Required	*	*	*	*	*	*	*
2618 Intake Interview, Interdisciplinary	*	*	*	*	*	*	*
2619 Intake Interview, Admission	*	*	*	*	*	*	*

* Inadequate Sample Size to Compute Mean

GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V	GROUP VI	GROUP VII
01 Medical Intensive Care	10 Obstetrics	18 Psychiatry	10 Obstetrics	01 Medical Intensive Care	06 Pediatric Intensive Care	10 Obstetrics
02 Surgical Intensive Care			11 Gynecology	02 Surgical Intensive Care	07 Neonatal Intensive Care	11 Gynecology
03 Thoracic-Cardiovascular Intensive Care			15 Medicine	03 Thoracic-Cardiovascular Intensive Care	08 Pediatric Intensive Care	15 Medicine
04 Coronary Care			16 Surgery	04 Coronary Care	09 Pediatrics	16 Surgery
05 Neurosurgery Intensive Care			18 Psychiatry	05 Neurosurgery Intensive Care	10 Obstetrics	
				10 Obstetrics	11 Gynecology	
				11 Gynecology	15 Medicine	
				16 Surgery	16 Surgery	
				18 Psychiatry	18 Psychiatry	

APPENDIX D

Minimal Essential Mean Tasking Time for Adult Direct Nursing Care
Activities - Descriptive Statistics for Critical Care, Medical/Surgical,
Obstetrics and Psychiatry

Nursing Care Hour Standards
Adult Nursing Care
Minimal Essential Tasking Time in Minutes
Clinical Codes - 01, 02, 03, 04, 05, 10, 11, 15, 16, 18

NURSING CARE ACTIVITIES

ACTIVITIES OF DAILY LIVING

Hygiene:	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
0101 Bathing, Complete	20.1646	6.8247	46.5766	6.2300 49.1300	282	1, 3, 4, 8, 10, 15, 19, 22, 27	
0102 Bathing, Assist With Back and Legs	12.1010	*5.6332	*31.7326	1.6200 41.3800	176	1, 4, 8, 10, 15, 19, 22, 27	3
0103 Oral Hygiene	3.2428	1.7395	3.0260	.4700 8.7000	122	1, 3, 4, 8, 10, 19, 22, 27	
0104 AM Care	6.9666	2.2555	5.0872	2.1000 14.4700	82	1, 3, 4, 8, 10, 19	
0105 PM Care	10.6934	4.1689	17.3795	3.8300 24.5300	77	1, 4, 15, 19	
0106 Nail Care	3.9100	.4808	.2312	**	2	1	
0107 Shampoo	9.9967	4.4524	19.6240	5.2000 21.1700	18	1, 3, 4, 8, 10, 15, 19	
0108 Shaving	6.2501	2.8943	8.3772	1.7800 17.3500	146	1, 3, 4, 8, 10, 15, 19, 22, 27	
0109 Occupied Bed	9.6977	3.5226	12.4087	4.0700 27.1500	284	1, 3, 4, 8, 10, 15, 19, 22, 27	
0110 Unoccupied Bed	6.0472	1.8345	3.3652	1.7200 14.0000	488	1, 3, 4, 8, 10, 15, 19, 22	27
0111 Changing Bottom Sheet	3.4227	1.7544	3.0780	1.3500 6.0800	11	1, 4, 8, 15, 19, 22, 27	
0112 AM Care, Utensils Provided	2.3168	1.1589	1.3429	.5300 7.8300	105	1, 3, 4, 8, 10, 15, 19, 22	
0113 Bathing, Utensils Provided	2.5201	1.0180	1.0363	.7000 6.1300	173	1, 3, 4, 8, 10, 15, 19, 22, 27	
0114 AM Care, Partial	4.3378	1.9111	3.6523	.9000 10.8300	63	1, 3, 4, 8, 10, 15, 19	
0115 Sitting Shower/Show-er With Assistance	16.7945	5.9265	35.1232	5.7200 33.6000	53	1, 3, 8, 10, 15, 19, 27	
0116 Tub Bath	18.0069	6.7993	46.2302	8.6800 32.7500	13	1, 3, 4, 8, 10, 19, 27	
0117 Changing Top Sheet	1.3850	.8094	.6552	.4200 3.3000	12	1, 4, 8, 15	
0118 Changing Bed Linen Protector/Chux	1.0063	.8747	.7652	.1700 5.5300	164	1, 3, 4, 8, 10, 15, 19, 22, 27	

Nutrition:

0201 Feeding	16.1591	7.8622	61.8138	.5700 42.2800	138	1, 3, 4, 8, 10, 19, 27	
0202 Fluid	.9525	1.2406	1.5391	.0800 11.8700	253	1, 3, 4, 8, 10, 15, 19, 22, 27	
0203 Snack	.8472	.8891	.7905	.0800 5.7500	53	1, 3, 4, 10, 15, 19, 22	10
0204 Serving Meal Tray, Preparation Required	2.6073	*1.5825	*7.5044	.2300 12.5200	308	1, 3, 4, 8, 15, 19, 22, 27	
0205 Special Feeding - Nasogastric	3.8555	*1.9586	*3.8361	1.8300 8.2500	55	1, 4, 8, 22	3
0206 Special Feeding - Gastrostomy	3.2232	1.0602	1.1240	2.1700 6.8500	22	1, 8	
0207 Special Feeding - Hyperalimentation, Intravenous	6.0009	*5.1940	*26.9779	1.4800 25.6500	64	1, 4, 8, 10, 19	3
0208 Measuring and Recording Intake	.8583	*1.0433	*1.0885	.2500 2.6000	289	1, 3, 4, 8, 10, 15, 22, 27	19
0209 Special Feeding - Nasogastric, Continuous Infusion Pump	3.6211	2.6630	7.0918	.8500 19.5000	72	1, 4, 8, 19, 27	

	Mean	Standard Deviation	Variance	Range Minimum	Range Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
0210 Special Feeding - Nasogastric, Continuous With Gastric Feeding Equipment	4.1783	4.6476	21.5997	1.1200	26.2200	30	1, 3, 4, 10, 22	
0211 Serving Meal Tray, No Preparation Required	.3881	*.5075	*.2576	.0300	5.5000	504	1, 3, 4, 8, 10, 15, 19, 22	27

Elimination:

0301 Measuring and Recording Output - Urine	1.0877	.8954	.8017	.2200	10.6000	489	1, 3, 4, 8, 10, 15, 19, 22, 27	
0302 Measuring and Recording Output - Liquid Feces	1.2222	.4663	.2175	.5200	2.1300	9	1, 4, 19	
0303 Measuring and Recording Output - Vomitus	.8456	.4458	.1987	.3200	1.8200	9	1, 3, 4, 27	
0304 Measuring and Recording Output - Drainage Bottles, All Types	1.6962	1.1373	1.2934	.4200	8.5800	154	1, 3, 4, 8, 10, 15, 19, 27	
0305 Giving a Bedpan	2.5998	*1.2636	*1.5968	.2000	7.3200	232	1, 3, 8, 10, 15, 19, 22, 27	4
0306 Giving a Urinal	1.9695	.8504	.7232	.3000	4.6500	133	1, 3, 4, 8, 10, 15, 19, 22, 27	
0307 Incontinent Care	7.1308	4.1393	17.1341	1.1000	28.5000	110	1, 4, 8, 10, 15, 19, 22	
0308 Output Weight - Diaper/Bed Linens	.9100	.6243	.3897	.5200	1.6300	3	10, 22	

MOBILITY

Mobility:

0401 Mobility - Ambulating First Time	5.1004	3.2190	10.3617	.2300	20.8300	82	1, 3, 4, 8, 10, 15, 19, 22, 27	
0402 Mobility - Bed to Floor	1.7761	*1.3159	*1.7317	.4200	4.0000	28	1, 3, 4, 10, 15, 19, 27	8
0403 Mobility - Bed to Chair	2.4744	1.7102	2.9248	.2500	12.9200	388	1, 3, 4, 8, 10, 15, 19, 22, 27	
0404 Mobility - Bedside Commode	3.2420	*2.7092	*7.3395	.2500	12.5200	110	1, 3, 4, 8, 15, 19, 22, 27	10
0405 Mobility - Assistance While Walking	4.2275	3.2483	10.5513	.4200	24.7500	210	1, 3, 4, 8, 10, 15, 19, 22, 27	
0406 Mobility - Sitting on Side of Bed	1.8233	1.6066	2.5810	.3200	6.3200	24	1, 3, 4, 8, 10, 15, 22, 27	

Changing Position:

0501 Changing Patient's Position in Bed	2.1266	1.5499	2.4023	.1200	13.3200	267	1, 3, 4, 8, 10, 15, 19, 22, 27	
0502 Adjusting Position of Bed	.4927	.7384	.5453	0	11.0800	360	1, 3, 4, 8, 10, 15, 19, 22, 27	
0503 Turning Frame, All Types	9.0256	2.8317	8.0184	2.9300	15.1500	113	1, 3, 4, 8	

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
0504 Mobility - Bed to Stretcher	2.4712	1.5181	2.3046	.1700 12.7300	323	1, 3, 4, 8, 10, 15, 19, 22, 27	
0505 Adjusting Siderall	.3696	.3672	.1349	.0300 1.5300	169	1, 3, 8, 10, 22, 27	4, 15, 19
0506 Adjusting Restraint	1.2751	1.0539	1.1107	.2700 5.6200	77	1, 3, 4, 8, 15, 19, 22	
0507 Fowler's/Trendelen- burg Position	1.0548	.5989	.3587	.1300 4.2700	62	1, 3, 4, 8	

Exercising:

0601 Exercise - Active	7.0733	2.5326	6.4140	5.0700 9.9200	3	1, 4, 19	
0602 Exercise - Passive	6.0640	3.3840	11.4513	2.1800 16.6500	15	1, 4, 8	

PSYCHOLOGICAL

0701 Orientation to Clinical Unit	4.7997	4.7724	22.7760	.1800 30.4000	129	1, 3, 4, 8, 10, 15, 19, 22, 27	
0702 Explanation of Pro- cedures and Tests	1.7433	1.1942	1.4264	.1500 11.0800	255	1, 3, 4, 8, 10, 15, 19, 22, 27	
0703 Answering Patient's Question	1.0121	1.0268	1.0543	.1200 7.2200	475	1, 3, 4, 8, 10, 15, 19, 22, 27	
0704 Visiting With Patl- ents/Purposeful Interaction	2.1036	3.5945	12.9202	.1200 45.8300	542	1, 3, 4, 8, 10, 15, 19, 22, 27	

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801 Blood Pressure, Manual	1.0388	.3789	.1436	.2500 2.9300	823	1, 3, 4, 8, 15, 19, 22, 27	10
0802 Pulse - Radial/ Brachial	.6727	.2695	.0726	.1800 2.9200	306	1, 4, 8, 10, 19, 22, 27	15
0803 Pulse - Apical	1.3296	.3670	.1347	.4500 3.1300	207	1, 3, 4, 8, 10, 19, 22, 27	
0804 Respirations	.6605	.3484	.1214	.2700 2.1000	161	1, 3, 4, 8, 10, 19, 22, 27	
0805 Temperature - Oral, Electronic/Mercury	.9871	.4114	.1692	.0700 4.2000	327	1, 3, 4, 8, 10, 15, 19, 22, 27	3
0806 Temperature - Rectal, Electronic/Mercury	1.7279	.7180	.5155	.8200 3.8500	114	1, 3, 4, 8, 15, 22	
0807 Temperature - Axil- lary, Electronic/ Mercury	.9960	.3195	.1021	.7300 2.8700	47	1, 8, 10, 19, 22	
0808 Oral Temperature, Pulse, 8	1.2903	.5966	.3560	.5200 5.0700	596	1, 3, 8, 10, 15, 19, 22	4, 27
0809 Pulse - Pedal/Femo- ral/Popliteal	1.0317	.3606	.1300	.4300 1.7500	77	1, 4, 8, 15, 22	3, 10
0810 Pulse - Doppler	3.2487	1.5864	2.5168	1.0700 6.3000	15	4, 10, 15	

Body Weight/Selected Measurements:

0901 Ambulatory Weight	1.2309	.9038	.8168	.0800 7.6700	366	1, 3, 4, 8, 10, 15, 19, 22, 27	
0902 Bed Scale Weight	5.6879	2.5886	6.7011	.6500 14.4800	137	1, 3, 4, 8, 19, 22	
0903 Abdominal Girth Measurement	2.0905	2.3077	5.3253	.4700 11.0300	21	1, 4, 8, 15	

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

Extremity Circum-
ference Measure-
ment

1, 3, 4, 15

1, 3, 4, 8, 10, 15, 19, 22, 27

27

1, 3, 4, 8, 10, 15, 19, 22, 27

1, 3, 10

4

1, 3, 4, 8, 10, 15, 19, 22

1, 8

1, 4

1, 3

4, 15

1, 8, 10, 19, 22, 27

1, 8

3

3, 4

1

Neurological Assessment:

1, 3, 4, 8, 10, 19, 22, 27

1, 4, 8, 10, 27

1, 8, 10, 19, 27

1, 3, 4, 8, 19, 27

1, 3, 4, 8, 10, 15, 19, 22, 27

3, 19

Respiratory Assessment:

1, 4, 8, 10, 15, 19, 22

3

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Sample
Minimum Maximum

Variance

Standard
Deviation

Mean

Gastrointestinal Assessment:

2701 Bowel Sound
Assessment

1, 3, 4, 15

57

4.3300

.3757

.6129

1.5112

THERAPEUTIC ACTIVITIES/ PROCEDURES

Gastrointestinal:

4

1, 4, 8, 10, 15, 19, 22

1, 3, 8, 15, 22

47

45.0000

51.4665

7.1740

8.0006

1301 Nasogastric Tube -
Insertion

42

1, 3, 8, 15, 22

1, 3, 8, 15, 22

42

3.8800

* 2.4189

* 1.5553

1.5874

1302 Nasogastric Tube -
Irrigation

25

1, 3, 4, 8, 15, 19, 22

1, 3, 4, 8, 15, 19, 22

25

4.1800

.9917

.9958

1.4648

1303 Nasogastric Tube -
Removal

104

1, 3, 4, 8, 10, 15, 19, 22, 27

1, 3, 4, 8, 10, 15, 19, 22

104

30.3000

19.3864

4.4030

4.1760

1304 Enema - Cleansing

66

1, 3, 4, 8, 10, 15, 19, 22

1, 3, 4, 8, 10, 15, 19, 22

66

4.2700

.6679

1.8173

1.8452

1305 Enema - Retention

7

1, 4

1, 4

7

47.6700

180.5452

13.4367

23.3914

1306 Colostomy - Irriga-
tion

13

1, 4, 15

1, 4, 15

13

12.9200

9.4212

3.0694

8.2300

1307 Colostomy - Dres-
sing Change

9

1, 15

1, 15

9

55.0000

247.2522

15.7243

21.3444

1308 Lavage

7

1

1

7

**

156.5960

12.5138

23.5700

1309 Paracentesis

9

1, 3, 4, 8, 15

1, 3, 4, 8, 15

9

10.0300

2.7433

1.6563

8.0433

1310 Dressing Change -
Ileostomy/Ileo-
conduit

96

1, 3, 4, 8, 15, 19, 22

1, 3, 4, 8, 15, 19, 22

96

7.2700

1.9237

1.3870

2.4201

1311 Nasogastric Tube -
Instillation

8

1, 3, 8

1, 3, 8

8

4.9000

1.5009

1.2251

2.6187

1312 Fecal Impaction
Assessment/
Removal

3

1, 4

1, 4

3

24.4800

7.5301

2.7441

21.8267

1313 Endoscopy

1

4

4

1

**

**

**

20.1700

1315 Proctoscopy

1

4

4

1

**

**

**

4.0300

1316 Rectal Tube
Insertion

2

4

4

2

**

1.9012

1.3789

2.9950

1317 Rectal Tube
Removal

Respiratory:

13

1, 4, 15, 27

13

3.8000

1.3799

1.1747

1.3000

1401 Oxygen Administra-
tion - Nasal

91

1, 3, 4, 8, 10, 15, 19, 22

91

3.4500

.3613

.6011

.9887

1402 Oxygen Administra-
tion - Mask

116

1, 3, 4, 8, 10, 15, 19, 22

116

10.5200

1.1018

1.0497

.8110

1403 Oxygen Administra-
tion - Prongs

11

1, 4, 10, 19

11

10.4700

8.2665

2.8751

2.0782

1404 Endotracheal/Trache-
ostomy Tube
Pressure Cuff

		Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
1503	Arterial Puncture - Blood Gases	5.4705	3.8071	14.4940	1.3300 17.5800	81	1, 3, 4, 8, 10, 15, 19, 22	
1504	Intravenous Infusion - Flow Rate	.7528	.8121	.6594	.0700 8.5800	412	1, 3, 4, 8, 10, 15, 19, 22, 27	
1505	Intravenous Infusion - Initiating	9.2432	6.5965	43.5138	2.0000 60.0000	287	1, 3, 4, 8, 10, 15, 19, 22, 27	
1506	Intravenous Infusion - Changing IV Bottle	1.6528	.9181	.8429	.3300 8.2500	364	1, 3, 4, 8, 10, 15, 19, 22, 27	
1507	Intravenous Infusion - IV Push Medication	1.9933	1.6086	2.5876	.3300 10.8700	280	1, 3, 4, 8, 10, 15, 19, 22, 27	
1508	Intravenous Infusion - IV Catheter	9.7106	5.8156	33.8216	2.0800 32.4700	165	1, 3, 4, 8, 10, 15, 22, 27	19
1509	Intravenous Infusion - Piggy-Back Medication	1.7653	1.2601	1.5879	.3700 11.9800	397	1, 3, 4, 8, 10, 15, 19, 22, 27	
1510	Intravenous or Arterial Line - Termination	3.2334	* 2.4788	* 6.1444	.7800 14.5000	239	1, 8, 10, 15, 19, 22, 27	3, 4
1511	Intravenous Infusion - Infusion Pump Setup	3.6533	* 2.1834	* 4.7673	.5800 9.1300	111	1, 4, 8, 10, 15, 19, 22, 27	3
1512	Elastic Stockings	3.4109	1.2010	1.4423	.8800 8.0800	99	1, 3, 4, 8, 10, 19, 22	
1513	Ace Bandage	3.4833	1.6353	2.6741	1.5300 8.2000	12	1, 3, 4, 8, 10, 19	
1514	Intravenous Infusion - Blood	3.7119	1.7508	3.0654	.6800 9.9700	73	1, 4, 8, 15, 19	
1515	Intravenous/Arterial Line - Blood Sample	2.8946	1.6516	2.7278	.5200 14.4500	92	1, 4, 8, 15, 19	3
1516	Arterial Line - Transducer Exchange	16.3290	6.0360	36.4329	8.0800 30.0000	40	1, 4	
1517	Arterial Line - Arterial Line Setup	17.1862	8.7123	75.9041	3.2000 32.1500	8	1, 3, 4, 8	
1518	Arterial Line - Swan Ganz Catheter	33.3120	34.3666	1181.0650	8.3300 84.7500	5	1, 4	
1520	Intravenous Infusion - Platelets/Plasma	3.5765	1.5863	2.5162	1.0800 8.0300	23	1, 4, 8, 15	
1521	External Pacemaker	10.0250	3.2598	10.6260	7.7200 12.3303	2	1, 4	
1522	Cardiopulmonary Resuscitation	62.2733	62.6319	3982.7568	2.1300 210.0000	12	1, 4	
1523	Cardioversion	22.7450	8.7536	78.6249	12.4500 37.0300	8	1, 4	
1526	Swan Ganz Catheter Initiation	41.1012	* 26.2005	* 686.4637	21.2500 61.8500	8	1	4
1527	Swan Ganz Catheter Removal	6.8900	1.5817	2.5018	5.2000 9.7000	6	1, 4	
1528	Arterial Line - Initiation	42.1319	27.5906	761.2431	3.2700 110.0000	16	1, 4, 8, 19	
1529	Surgical Intravenous Initiation, Cut Down	44.0175	33.7630	1139.9404	19.1300 118.5700	8	1, 4	

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

Skin:

1601 Decubitus Care 8.5416 6.3430 40.2340 1.2000 38.5700 70 1, 4, 8, 10, 15, 22
1602 Skin Care 3.7631 3.2233 10.3899 .5000 12.0700 13 1, 4, 8, 15
1603 Suture/Skin Clip Removal, > 15 14.4313 7.6742 58.8938 4.6800 30.7700 31 1, 3, 4, 8, 10, 15, 19, 22, 27

1604 Small Dressing Change, < 4" x 8" 6.1654 4.1228 16.9978 1.1000 21.1700 138 1, 3, 4, 8, 10, 15, 19, 22, 27

1605 Large Dressing Change, > 4" x 8" 11.3649 7.5285 56.6790 3.7700 55.5700 158 1, 3, 4, 8, 15, 19, 22, 27

1606 Reinforcing Dressing 3.5442 1.9815 3.9262 1.0300 10.4800 24 1, 4, 8, 19, 22, 27
1607 Wound Irrigation 12.7401 6.7819 45.9943 1.7200 41.4300 139 1, 3, 4, 8, 15, 19, 22, 27
1608 Soaking Hand 10.3167 5.1214 26.2292 ** 3 1
1609 Soaking Feet 6.6340 3.2634 10.6500 3.0800 10.8200 5 1, 3, 15, 19
1610 Hot Compress 2.7733 1.8206 3.3147 .1000 8.5300 27 1, 3, 4, 8, 10, 15, 22, 27

1611 Cold Compress 7.5625 8.3683 70.0292 1.8200 20.0000 4 1, 19
1612 Sitz Bath 10.6265 5.0094 25.0536 4.7500 24.3500 18 1, 3, 4, 10, 19
1613 Surgical Prep, Local 10.9932 7.3347 53.7976 1.8700 49.0500 78 1, 3, 4, 8, 10, 15, 19, 22, 27

1614 Surgical Prep, 3-Day 16.6240 19.4347 377.7058 ** 5 1

1615 Wound Culture 2.3122 1.7134 2.9356 .4000 4.7200 9 1, 10, 19, 22
1616 Heat Lamp 1.6084 .7863 .6182 .2300 3.8200 45 1, 3, 4, 8, 15, 22
1617 Back Rub 2.9718 1.2336 1.5218 .2800 7.1200 108 1, 3, 4, 8, 15, 22, 27
1619 Air Floatation/Alternating Pressure Mat-tress 6.5762 3.3747 11.3888 1.8800 11.1500 8 1, 19

1620 Isolation, Gowning & Gloving 1.4659 .6508 .4236 .1500 3.6700 111 1, 3, 4, 8, 15, 19

1621 Death Care 22.8920 11.3027 127.7503 9.4500 47.2800 15 1, 4, 8, 15

1622 Suture/Skin Clip Removal, < 15 6.2072 3.2880 10.8108 1.8200 13.4200 18 1, 3, 4, 19, 27

1623 Application of K-Pad 1.4550 .5716 .3267 .7500 2.3200 6 1, 3

EEENT:

1701 Eye Care 1.7834 * 1.0600 * 1.1235 .5800 2.9300 35 1, 3, 8, 15
1702 Irrigation - Eye 5.0800 ** .5200 ** .1324 .2700 1.7500 1 8
1704 Irrigation - Throat .7700 .3639 .2472 .2300 2.0700 17 1, 3, 4, 8, 15, 22
1705 Instillation of Drops - Eye .7976 .4971 .2300 ** 1 22
1706 Instillation of Drops - Ear
1707 Instillation of Drops - Nose

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

1708 Culture - Nose .2460 .0503 .0025 ** 5
1709 Culture - Throat .6374 .3093 .0957 .2000 23
1710 Culture - Sputum 2.4563 1.9140 3.6634 .5000 5.7700 8

Neurological/Skeletal:

1801 Pin Care 7.3963 3.4642 12.0009 2.4500 16.7000 83
1802 Head Tongs Care 6.1706 2.2971 5.2765 2.3700 12.2200 35
1803 Bed Cradle 1.4425 1.0634 1.1307 .2800 3.3200 8
1804 Foot Board .7125 .5861 .3436 .3200 1.5800 4
1805 Ice Pack .8001 .5244 .2750 .1300 5.7500 220
1806 Extremity Traction - 4.1400 1.7155 2.9428 3.1000 6.1200 3
Application
1807 Extremity Elevation .9140 .4236 .1795 .3700 2.6000 148
1808 Cast Care 1.1165 .6110 .3733 .2500 3.9800 85
1809 Extremity Traction - 2.5445 2.5156 6.3285 .7700 14.3700 29
Adjust
1810 Seizure Care 4.8856 2.3887 5.7057 2.3300 8.9000 9
1811 Circulation Check .6672 .2715 .0737 .3000 2.0000 160

Urological/Gynecological:

1901 Catheterization - 7.9674 4.8375 23.4011 2.6200 29.1200 53
Foley
1902 Catheterization - 6.4924 3.1048 9.6398 2.5300 16.6800 29
Straight
1903 Foley Catheter Care 4.4172 2.1965 4.8248 .9500 12.8800 182
1904 Urine Specimen - 1.7673 1.7232 2.9694 .1200 12.8200 107
Routine
1905 Urine Specimen - 2.0660 1.2408 1.5395 .1200 4.5500 63
Clean Catch/Foley
1906 Perineal Care 2.3750 1.4454 2.0893 1.2200 5.1000 6
1907 Foley Catheter 3.3306 2.3608 5.5734 .9800 13.5800 80
Removal
1908 Douche 1.8565 1.5641 2.4464 .2300 8.0200 31
1909 Dilatation and 28.8722 9.6387 92.9053 15.4800 43.2000 9
Curettage
1910 Vaginal/Pelvic 5.6741 4.1190 16.9659 .7700 18.1800 32
Examination
1911 Urinary Bladder 1.0317 .4034 .1627 ** 24
Training
1912 Condom Catheter 3.2076 2.5484 6.4945 .9000 10.0800 17
Application
1913 Peritoneal Dia- 32.3350 13.6684 186.8245 22.6700 42.0000 2
lysis - Initia-
tion
1914 Peritoneal Dialy- 20.9615 1.8847 3.5519 18.2700 27.0000 59
sis - Exchange of
Dialysis Solutions
1915 Peritoneal Dia- 6.7500 ** ** ** 1
lysis - Removing
Dialysis Catheter
1916 Bladder Irrigation 4.0185 3.0138 9.0832 1.2300 12.5500 26

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
Body Temperature Regulation:							
2002 Hypothermia/Hyperthermia treatment	5.3300	4.5381	20.5942	1.3800 11.8700	4	1, 4	
Medication Administration:							
2101 Oral	.8085	.7154	.5118	.0700 6.2200	712	1, 3, 4, 8, 10, 15, 19, 22, 27	
2102 Intramuscular	1.2259	.6818	.4649	.1500 5.7300	439	1, 3, 4, 8, 10, 15, 19, 22, 27	
2103 Subcutaneous	.9010	.3430	.1176	.2700 2.2300	229	1, 3, 4, 8, 10, 15, 19, 22, 27	
2104 Suppository, Rectal/Vaginal	1.4799	.7180	.5156	.4000 4.5200	74	1, 3, 4, 8, 15, 19, 22, 27	
2105 Topical	1.2234	1.3851	1.9184	.1500 13.8500	125	1, 3, 4, 8, 10, 15, 19, 22, 27	
2106 Sublingual	.4778	.2275	.0517	.1700 1.3800	108	1, 3, 4, 8, 19, 22, 27	10

Diagnostic Inst:

2201 Bone Marrow Aspiration	15.9550	5.4801	30.0313	**	**	2	1
2202 Lumbar Puncture	21.1012	8.1728	66.7954	11.2700	41.1500	17	1, 8, 15, 19
2204 Urine Testing - Protein	.6307	.3846	.1479	.1800	3.0300	104	1, 4, 8, 10, 15, 19, 27
2206 Urine Testing - Specific Gravity	.8422	1.1061	1.2235	.3000	10.8500	93	1, 3, 4, 8, 19, 22
2207 Urine Testing - Sugar & Acetone	1.7777	.9546	.9114	.3300	4.6200	227	1, 3, 4, 8, 10, 19, 22
2208 Liver Biopsy	13.8575	4.4851	20.1165	**	**	4	1
2209 Guaiac Testing - Feces/Vomit/GI Drainage	1.0702	.4268	.1822	.4700	2.6700	83	1, 3, 4, 8, 15, 19, 22
2210 Collection of Feces Sample	1.7120	.9962	.9926	.5500	3.1200	5	1, 22
2211 Hematocrit	3.7683	3.8073	14.4955	.7700	15.1800	12	1, 8, 15

PATIENT TEACHING/RECUITAL AND PEDIATRIC FAMILY INSTRUCTION

2301 Teaching - Medication Administration	19.5881	10.6900	114.2751	.3200	45.0000	27	1, 10, 27
2302 Teaching - Colostomy Care	8.7800	**	**	**	**	1	4
2304 Teaching - Urine Testing	1.2580	1.1967	1.4321	.3000	4.8000	20	1, 3, 4, 10, 19, 22, 27
2305 Teaching - Blow Bottles/Incentive Spirometer	3.5971	2.1962	4.8234	1.0000	10.5800	24	1, 3, 4, 8, 10
2306 Teaching - Dietary Explanation	2.8633	2.4382	5.9446	.1700	4.9200	3	1, 19
2307 Teaching - Preoperative Instruction	10.2056	8.8262	77.9017	.5000	45.0000	107	1, 3, 4, 8, 10, 15, 19, 27
2308 Teaching - Diagnostic Test	1.0804	.6700	.4489	.1800	2.9300	28	1, 3, 4, 8, 19, 22
2309 Teaching - Disease/Condition Related	6.1507	5.6679	32.1254	.3300	25.0000	305	1, 3, 4, 8, 10, 15, 19, 22, 27
2311 Teaching - Dressing Change	6.4700	4.8657	23.6751	3.0500	16.9300	8	1, 3, 4, 8, 22, 27

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
2312 Teaching - Insulin Administration	7.7529	11.9543	142.9050	1.0700 34.5700	7	1, 3, 15	
2313 Teaching - Diabetic	10.9200	9.8843	97.6999	1.6000 24.8500	4	3, 4	
2314 Teaching - Ileostomy/Ileostomy Care	12.9100	8.4711	71.7602	6.9700 18.9000	2	4, 8	
OBSTETRICAL							
2401 Vulvar/Anal Area Prep	2.9067	* 1.6891	*2.8532	.5000 7.1800	66	1, 3, 4, 15, 19, 22, 27	8
2402 Support During Contraction	2.1680	6.7213	45.1763	.2700 65.8800	96	1, 3, 4, 8, 10, 15, 19, 22, 27	
2403 Dilation & Effacement Assessment	1.7765	1.8997	3.6087	.4000 20.0700	113	1, 3, 4, 8, 10, 15, 19, 22, 27	
2404 Dilation & Effacement Assessment, Assisting Physician	2.0142	1.4325	2.0521	.3700 12.7200	198	1, 3, 4, 8, 10, 15, 19, 22, 27	
2405 Fetal Electrode Insertion	4.6640	2.1844	4.7716	1.5800 7.7000	10	1, 10, 15, 27	
2406 Fetal Electrode Insertion, Assisting Physician	3.5817	1.4904	2.2214	1.1200 7.9200	24	1, 3, 4, 8, 15, 19, 22, 27	
2408 Intrauterine Catheter Insertion, Assisting Physician	9.2133	4.3630	19.0356	4.2800 14.8700	6	1, 8, 15, 19	
2409 Internal or External Monitoring - Uterine Contraction/Fetal Heart Tones	1.0861	1.4981	2.2442	.0800 13.6200	114	1, 3, 8, 10, 15, 19, 22, 27	
2410 Manual Contraction Assessment	1.8905	1.7670	3.1222	.1500 6.5500	65	1, 3, 4, 8, 10, 15, 19, 22, 27	
2411 Pitocin Induction, Assisting Physician	6.8000	8.2986	68.8669	2.2700 19.2300	4	1, 15	
2412 Fetal Heart Tones, Manual	1.4226	1.0031	1.0062	.2800 5.7700	124	1, 3, 4, 15, 19, 22, 27	
2413 Fetal Heart Tones, Doppler	2.1816	1.7844	3.1841	.5700 11.1500	67	1, 3, 4, 8, 10, 15, 19, 27	
2415 Routine Delivery Room Functions	56.7940	27.8266	774.3211	.8300 180.0000	136	1, 3, 4, 8, 10, 15, 19, 22, 27	
2416 Fundus Massage	.9519	.8041	.6465	.1800 5.3300	176	1, 3, 4, 8, 10, 15, 19, 22, 27	
2417 Changing Perineal Pad	.7891	.4344	.1887	.2800 4.3600	136	1, 3, 4, 8, 10, 15, 19, 22, 27	

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
2418	Perineal Suture Care	2.8530	1.3945	1.0300 5.1000	10	1, 8, 15	
2419	Teaching - Perineal Suture Care	2.4383	.9568	.6500 4.6500	24	1, 3, 4, 15, 19, 22, 27	
2420	Teaching - Breast Care	2.8025	1.6706	1.1500 5.0800	4	1, 3, 15	
2421	Oxytocin Challenge Test	61.4033	33.5567	28.0000 125.0000	6	1, 3, 6, 15	
2422	Non-Stress Test	24.3193	20.9190	3.8300 97.6300	30	1, 3, 8, 15, 19	
2423	Amniotomy	3.4025	1.4569	1.3300 7.2800	28	1, 4, 10, 15, 22	
2424	Amniocentesis	29.1840	15.7993	13.8500 55.6200	5	1, 4, 8, 27	
2426	Teaching - Breast Feeding	12.6888	9.7632	1.1700 32.9000	16	1, 3, 8, 15	
2427	Pitocin Induction	6.5417	4.6970	.7300 16.2300	12	1, 3, 4, 15	
2428	Tocotransducer Application	2.1377	.8513	.4500 3.7500	31	1, 3, 4, 8, 15, 19, 27	
2429	Ultrasonic Transducer - Application	2.1920	* 1.3852	1.3000 5.9200	10	1, 4, 8	15
2430	Fetal Electrode Insertion/Intra-uterine Catheter Insertion	6.2667	4.7985	3.2500 11.8000	3	1, 15, 19	
2431	Fetal Electrode Insertion/Intra-uterine Catheter, Assisting Physician	8.0743	4.7032	.9700 23.7500	28	1, 3, 8, 15, 22	
2432	Tocotransducer and Ultrasonic Transducer - Application	5.2557	2.5348	1.5000 12.3800	37	3, 4, 8, 10, 15, 19, 22, 27	
2433	Observation and Assessment, Second Stage of Labor	52.4420	49.9604	3.4300 227.0800	44	1, 3, 4, 10, 15, 19, 22, 27	
2434	Labor Room Examination and Preparation, Routine	26.0294	13.9245	7.2700 77.0000	64	1, 3, 4, 8, 15, 19, 22, 27	
2435	Adjust Ultrasonic Transducer/Tocotransducer	2.9279	5.7069	.3500 31.6800	38	1, 3, 4, 8, 15, 22, 27	
2436	Monitoring Fetal Heart Tones, Ultrasonic Transducer	.9136	.3717	.4500 1.6700	11	1, 4, 15, 22	
2437	Monitoring Fetal Heart Tones, Ultrasonic Transducer and Uterine Contraction, Tocotransducer	1.7681	2.5856	.2500 12.1700	32	1, 4, 15, 19, 22	

PSYCHIATRIC

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
2601 One Hour of One-to-One Observation - Arms Length	60.0000 **		**	60.0000 60.0000	78	3, 4, 8, 19	
2602 One Hour of One-to-One Observation - Constant/Close	60.6771 43.3665	1880.6572 **	**		7	3	
2603 Situational Observation	28.2554 48.5501	2357.1162		2.7500 300.0000	166	1, 3, 4, 8, 10, 15, 19, 22	
2604 Group Therapy	6.3554 * 2.6658	* 7.1067		4.4200 10.0000	162	1, 4, 8, 10	3, 15
2605 Appearance, Behavior and Conversation Assessment	2.2704 * 1.4000	* 1.9599		.2200 10.0000	187	1, 3, 4, 8, 10, 19	15
2606 Extrapyramidal Syndrome Assessment	1.6121 .9503	.9031		.5200 5.5505	57	1, 3, 4, 8, 10, 15, 19	
2607 Patient Government Session	3.2659 * 4.1930	* 17.5813		2.0000 6.0000	116	1, 15	3, 4, 8, 10, 19
2608 Planned Recreational Activity Session	10.8809 *15.3025	*234.1671		5.0000 34.0000	255	1, 4, 8, 10, 15, 19	3
2609 Leather Restraint Application - 2 Point	5.9267 7.7308	59.7656 **	**		3	1	
2610 Leather Restraint Application - 4 Point	17.0200 **	**	**		1	15	
2613 Placing Patient Into Seclusion Room	5.4350 3.5143	12.3504 **	**		2	1	
2615 Individual Support Therapy - All Nursing Personnel	15.0000 ***	***	***	***			
2616 Individual Therapy - 30.0000 *** Contract Interview/	30.0000 ***	***	***	***			
2617 Primary Therapist Occupational Therapy, 15.0000 *** Nursing Support Required	15.0000 ***	***	***	***			
2618 Intake Interview, 30.0000 ***	30.0000 ***	***	***	***			
2619 Intake Interview, 30.0000 *** Admission	30.0000 ***	***	***	***			

Mean times are representative for the population only falling within the 95% confidence interval:

* Standard Deviation and Variance Values are Based on the Entire Population.
 ** Inadequate Sample Size to Compute all other Descriptive Statistics.
 *** Mean Times were Established by Consensus Nursing Opinion.

CLINICAL CMRS:

- 01 Medical Intensive Care
- 02 Surgical Intensive Care
- 03 Thoracic-Cardiovascular Intensive Care
- 04 Coronary Care
- 05 Neurosurgery Intensive Care
- 06 Pediatric Intensive Care
- 07 Neonatal Intensive Care
- 08 Pediatrics
- 09 Newborn Nursery
- 10 Obstetrics
- 11 Gynecology
- 12 Medicine
- 13 Surgery
- 14 Psychiatry

APPENDIX E

Minimal Essential Mean Tasking Time - Descriptive Statistics for Newborn
Nursery, Intermediate and Neonatal Intensive Care,
Pediatrics and Pediatric Intensive Care

Pediatric Nursing Care
Minimal Essential Tasking Time
Clinical Codes - 06, 07, 08, 09

NURSING CARE ACTIVITIES

ACTIVITIES OF DAILY LIVING

Hygiene:	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
0101 Bathing, Complete	7.2367	4.8124	23.1595	1.2700 31.0500	198	1, 3, 4, 8, 10, 15, 19, 22, 27	
0102 Bathing, Assist With	11.8086	5.0317	25.3180	**	7	1	
0103 Back and Legs	2.3318	1.5420	2.3778	.5300 4.7000	11	1, 4, 8, 19	
0104 Oral Hygiene	4.6500	**	**	**	1	1	
0105 AM Care	10.4900	.8344	.6962	**	2	1	
0105 PM Care					1		
0107 Shampoo	13.4367	8.2946	66.8008	**	3	1	
0109 Occupied Bed	6.3835	3.0356	9.2151	1.4200 15.2500	40	1, 6, 10, 15, 27	
0110 Unoccupied Bed	5.1692	*1.7892	*3.2013	1.7300 10.3500	74	1, 8, 10, 19, 22, 27	
0111 Changing Bottom Sheet	3.4000	.1414	.0200	3.3000 3.5000	2	1, 10	3, 4, 10
0112 AM Care, Utensils Provided	1.1500	**	**	**	1	1	
0113 Bathing, Utensils Provided	1.6009	.7901	.6242	.7500 3.6700	11	1, 3, 8	
0115 Sitting Shower/Show-er With Assistance	6.9800	**	**	**	1	1	
0116 Tub Bath	10.3946	4.9675	24.6765	4.4500 27.9000	50	1, 3, 4, 10, 15, 22, 27	
0117 Changing Top Sheet	.8200	**	**	**	1	1	
0118 Changing Bed Linen Protector/Chux	.8357	.4865	.2367	.1200 3.1000	81	1, 4, 8, 19, 22	

Nutrition:

0201 Feeding	22.2249	11.5634	133.7116	6.0000 72.5000	86	1, 3, 4, 8, 10, 15, 19, 22, 27	
0202 Fluid	.6961	*1.3517	*1.8271	.1000 2.9700	23	1, 3	15
0203 Snack	.4241	.1533	.0235	**	34	1	
0204 Serving Meal Tray, Preparation Required	2.6902	*1.7413	*3.0321	.7000 12.8000	54	1, 3, 10, 27	15
0205 Special Feeding - Nasogastric	18.3633	14.2326	202.5676	**	3	1	
0206 Special Feeding - Gastrostomy	6.0641	3.4259	11.8057		34	1	
0207 Special Feeding - Hyperalimentation, Intravenous	7.0587	1.9112	3.6528	4.4700 12.1700	23	1	8
0208 Measuring and Recording Intake	.6912	.3043	.0926	.1800 1.5500	80	1, 3, 8, 10, 19, 22, 27	
0209 Special Feeding - Nasogastric, Continuous With Infusion Pump	3.6157	1.5285	2.3363	1.2300 7.2200	46	1, 4	

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Standard
Deviation

Mean

Variance

Mean

Standard
Deviation

Variance

Mean

Standard
Deviation

0210	Special Feeding - Nasogastric, Continuous With Gastric Feeding Equipment Serving Meal Tray, No Preparation Required	.37700	**	.6419	.4120	.0700	3.9200	39	1, 3, 10, 27	1	1
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Elimination:

0301	Measuring and Recording Output - Urine	1.0239	*	.5674	.3219	.4200	3.3000	74	1, 3, 4, 8, 27	22	
0302	Measuring and Recording Output - Liquid Feces	.3300	**		**	**		1	10		
0303	Measuring and Recording Output - Vomit	.8100		.0849	.0072	**	**	2	1		
0304	Measuring and Recording Output - Drainage Bottles, All Types	.9743		.3743	.1401	.3500	2.0000	23	1, 4, 8		
0305	Giving a Bedpan	2.5162		.8552	.7315	.7700	.4130	16	1, 3		
0306	Giving a Urinal	1.6487		.9312	.8671	.7500	4.7000	16	1, 3, 27		
0307	Incontinent Care	3.2628		2.1722	4.7183	.5800	11.1500	79	1, 4, 8, 15		
0308	Output Weight - Diaper/Bed Linens	.6410		.2280	.0520	.1800	1.1000	29	1		

Mobility

Mobility:

0401	Mobility - Ambulating First Time	3.2700	**		**	**		1	1		
0402	Mobility - Bed to Floor	.7500		.0707	.0050	**	**	2	1		
0403	Mobility - Bed to Chair	1.5420		1.1334	1.2846	.2200	5.1800	41	1, 3, 4, 15, 22		
0404	Mobility - Bedside Commode	1.9000		.2546	.0648	1.7200	2.0800	2	1, 3		
0405	Mobility - Assist- ance While Walking	3.2380		1.5807	2.4986	1.5500	5.5800	5	1, 10		
0406	Mobility - Sitting on Side of Bed	***									

Changing Position:

0501	Changing Patient's Position in Bed	1.0853		.7061	.4986	.2200	4.9100	187	1, 3, 4, 8, 10, 15, 19, 27		
0502	Adjusting Position of Bed	.4306		.6015	.3618	.1300	3.7800	36	1, 3, 4		
0503	Turning Frame, All Types	4.5700	**		**	**	**	1	1		

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

0504	Mobility - Bed to Stretcher	1.8907	1.1075	1.0352	.8000	4.6200	29	1, 4, 19, 27	
0505	Adjusting Siderail	.2431	.2411	.0581	.0500	1.8200	101	1, 3, 8, 10, 19, 22, 27	
0506	Adjusting Restraint	1.0654	.7634	.5828	.1500	5.1200	123	1, 4, 8, 10, 15, 19, 27	
0507	Fowlers/Trendelen- berg Position	1.0625	.1325	.0176	**	**	4		

Exercising:

0601	Exercise - Active	***							
0602	Exercise - Passive	3.4150	.5445	.2964	**	**	2	1	

PSYCHOLOGICAL

0701	Orientation to Clinical Unit	5.1613	* 7.6606	*58.6843	1.4300	25.0000	8	1, 4	8
0702	Explanation of Pro- cedures and Tests	1.4140	* .4199	* .1763	1.1500	1.6500	5	1, 15	3, 22, 27
0703	Answering Patient's Question	.7626	.4742	.2249	.1800	1.8000	23	1, 3, 8	
0704	Visiting With Pat- ients/Purposeful Interaction	1.5331	1.2484	1.5586	.1200	9.7800	124	1, 4, 8, 10, 15, 27	

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801	Blood Pressure, Manual	1.2165	* .5322	* .2832	.6700	2.7200	51	1, 15	4
0802	Pulse - Radial/ Brachial	.5567	.1102	.0121	**	**	3	1	
0803	Pulse - Apical	1.1381	.3380	.1142	.4500	2.3200	151	1, 3, 4, 8, 10, 15, 19, 22	
0804	Respirations	.8666	* .3409	* .1162	.3300	1.8700	80	1, 4, 8, 15, 19, 22	10
0805	Temperature - Oral, Electronic/Mercury	1.1376	* 1.0111	* 1.0223	.1000	2.8000	38	1, 10, 15, 22	4
0806	Temperature - Rectal, Electronic/Mercury	1.3889	.5879	.3457	.6500	3.9500	98	1, 3, 4, 8, 10, 19, 27	
0807	Temperature - Axil- lary, Electronic/ Mercury	1.0636	* .8487	* .7203	.6000	2.8700	104	1, 8, 10, 15	4, 27
0808	Oral Temperature, Pulse, & Respirations	1.6496	.8197	.6719	.7500	4.2200	46	1, 3, 4, 19, 22, 27	
0809	Pulse - Pedal/Femo- ral/Popliteal	1.1067	.3595	.1292	.5200	1.7000	12	1, 4	
0811	Rectal/Axillary Tem- perature, Apical Pulse & Respirations	2.7444	* 1.0299	* 1.0608	1.0500	7.2300	295	1, 3, 8, 10, 15, 19, 22, 27	4

Body Weight/Selected Measurements:

0901	Ambulatory Weight	.9138	.4124	.1701	**	.2700	1.8000	29	1, 3, 4, 19, 22
0902	Bed Scale Weight	7.8300	**	**	**	**	**	1	1
0903	Abdominal Girth Measurement	1.5300	**	**	**	**	**	1	1

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

0904 Extremity Circumference Measurement ***

Cardiac Activity:

1001	Monitor Leads Application/Exchange	1.5455	.9859	.9720	.4800	5.5300	64	1, 4, 8	
1002	Rhythm Strip - Monitor	***							
1003	12 Lead ECG	7.9533	.2359	.0556	7.7300	8.2000	3	1	15
1004	Central Venous Pressure	1.4150	.4660	.2172	**	**	6	8	
1005	Heart Sounds Assessment	1.3159	.4549	.2069	.2700	2.4500	39	1, 4, 8, 22	
1006	Pulmonary Artery Pressure Wedge	***							
1007	Pulmonary Artery Pressure	***							
1008	Monitor Reading - Blood Pressure/Heart Rate/Pulmonary Artery Pressure/Central Venous Pressure	.5300	**	**	**	**	1	1	

m-4

1009	Rhythm Strip Measurements	***							
1010	Rhythm Strip - ECG Machine	4.5387	1.0678	1.1403	**	**	8	1	
1011	Cardiac Output Measurement	***							
1012	Adjusting Cardiac Monitor/Connecting Leads/Reset Alarm	.9929	.6217	.3865	**	**	63	1	

Neurological Assessment:

1101	Pupil Reflexes	.6747	.4673	.2184	.1700	1.8000	17	1, 4, 19	
1102	Mental Alertness	.8825	.2641	.0697	.5000	1.1700	8	1, 4	
1103	Sensory Discrimination	***							
1104	Orientation	.4000	**	**	**	**	1	1	
1105	Motor/Sensory Testing	1.0160	.2173	.0472	**	**	5	1	

Respiratory Assessment:

1201	Vital Capacity	***							
1202	Pulmonary Assessment	1.1988	.4769	.2274	.2800	3.1500	84	1, 4, 8, 15	

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Standard
Deviation

Mean

Facilities Outside the
95% Confidence Interval For Mean

Gastrointestinal Assessment:

2701 Bowel Sound Assessment 1.7076 .7069 .4997 ** ** 21 1

THERAPEUTIC ACTIVITIES/
PROCEDURES

Gastrointestinal:

1301 Nasogastric Tube - 4.0964 2.6494 7.0194 1.3000 10.7500 22 1, 4, 8
Insertion
1302 Nasogastric Tube - 2.8200 1.8570 3.4486 ** 4 1
Irrigation
1303 Nasogastric Tube - .8127 .6235 .3887 .3000 2.6000 11 1, 4, 8
Removal
1304 Enema - Cleansing 7.7500 ** ** ** 1 8
1305 Enema - Retention 1.3700 ** ** ** 1 1
1306 Colostomy - ***
Irrigation
1307 Colostomy - 16.3950 5.2056 27.0980 9.9800 20.9200 4 1
Dressing Change
1308 Lavage 6.1200 ** ** ** 1 1
1309 Paracentesis ***
1310 Dressing Change - ***
Ileostomy/
Ileocolectomy
1311 Nasogastric Tube - .9689 .8474 .7181 .1000 6.1200 66 1, 4
Instillation
1312 Fecal Impaction 1.1800 ** ** ** 1 1
Assessment/
Removal
1313 Endoscopy ***
1314 Saline Irrigation - 6.2800 ** ** ** 1 1
Gastric
1315 Proctoscopy ***
1316 Rectal Tube ***
Insertion
1317 Rectal Tube ***
Removal

Respiratory:

1401 Oxygen Administra- ***
tion - Nasal
1402 Oxygen Administra- .6171 .6903 .4766 .2000 2.1500 7 1, 8
tion - Mask
1403 Oxygen Administra- ***
tion - Prongs
1404 Endotracheal/Trach-***
eostomy Tube
Pressure Cuff

		Mean	Standard Deviation	Variance	Range Minimum	Range Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
1406	Chest Tube - Care ***								
1407	Chest Tube - Chang- 20.3200								
1408	Tracheostomy - ***								
1409	Chest Pulmonary Ther-5.8615								
1411	Suctioning - Oral	1.7404	*1.0497	* 1.1018	.3200	4.4800	69	1, 4	8
1412	Suctioning - Trache-	3.6070	1.4362	2.0626	1.4700	7.3800	46	1	8
1413	ostomy								
1413	Suctioning - Naso-	2.1592	*1.2678	* 1.6073	.9200	7.5200	36	1, 4, 27	8
1414	Tracheal								
1414	Suctioning - Endo-	4.4763	1.7791	3.1651	**	**	51	1	
1415	IPPB Treatment	3.0277	.8651	.7483	1.6200	5.8700	26	1	
1416	Respiratory Resus- citation	36.7680	57.9921	3363.0824	4.0700	140.0000	5	1, 8	27
1417	Thoracentesis	10.1800	**	**	**	**	1	8	
1418	Blow Bottles	2.1800	**	**	**	**	1	1	
1419	Cough and Deep Breathe	1.4200	**	**	**	**	1	8	
1420	Incentive Spirometer***								
1421	Intubation	8.2875	6.1511	37.8364	**	**	16	1	
1422	Positioning for X-Ray	4.9143	2.4413	5.9600	1.4500	13.1200	65	1, 4, 8, 22, 27	
1423	Tracheostomy - Dressing Change	3.9747	2.1226	4.5055	1.7000	9.4500	19	1, 8	
1424	Oxygen Administra- tion - Mist With Collar/Face Tent	.4150	.2070	.0429	**	**	18	8	
1425	Group Tent	7.9800	**	**	**	**	1	22	
1426	Suctioning, Bulb Syringe	.7024	.6601	.4358	.1500	5.3300	143	1, 3, 4, 8, 10, 15, 19, 22, 27	
1427	Maximist Treatment	12.5473	2.8701	8.2373	**	**	22	1	
1428	Chest tube - Insertion	22.5800	**	**	**	**	1	1	
1429	Chest Tube - Removal	7.6780	2.4845	6.1730	**	**	5	1	
1430	Extubation ***								
1431	Bronchoscopy ***								
<u>Cardiovascular:</u>									
1501	Venipuncture - Blood Sample	6.1850	4.3285	18.7355	1.8500	26.1300	109	1, 3, 4, 8, 10, 15, 19, 27	
1502	Venipuncture - Blood Culture	6.0847	4.1082	16.8771	1.0800	18.3800	23	1, 8, 10, 15	

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
1503	Arterial Puncture - 6.2581 Blood Gases	3.9501	15.6030	1.7500 17.2700	21	1	8
1504	Intravenous Infusion - .9078 Flow Rate	.7893	.6230	.1500 4.0800	109	1, 3, 4, 10, 15, 22, 27	
1505	Intravenous Infusion - Initiating	9.2261	85.1214	4.7200 54.5200	71	1, 4, 8, 10, 15, 19, 22, 27	
1506	Intravenous Infusion - Changing IV Bottle	1.3545	1.8347	.4000 8.6300	56	1, 3, 8, 10, 22, 27	
1507	Intravenous Infusion - IV Push Medication	1.7836	3.1812	.3000 9.3200	111	1, 3, 4, 8, 10, 15, 27	
1508	Intravenous Infusion - IV Catheter Care	4.0166	16.1330	** **	16	1	
1509	Intravenous Infusion - Piggy-Back Medication	1.6714	2.7934	.1300 9.9000	100	1, 3, 4, 8, 10, 15, 19, 22, 27	
1510	Intravenous or Arterial Line - Termination	*1.7985	* 3.2347	.5700 10.5500	50	1, 4, 8, 10, 15	27
1511	Intravenous Infusion - Infusion Pump Setup	1.9927	3.9709	1.4300 10.2500	72	1, 4, 15	
1512	Elastic Stockings ***						
1513	Ace Bandage ***						
1514	Intravenous Infusion - Blood Line - Blood Sample	3.4491	11.8962	1.4500 15.2300	27	1, 8	
1515	Intravenous/Arterial 2.3489	3.9953	15.9623	.7000 30.7800	63	1, 8, 15	
1516	Arterial Line - 3.5500 Transducer Exchange	**	**	** **	1	1	
1517	Arterial Line - Art - ***						
1518	Arterial Line Setup - Swan ***						
1520	Ganz Catheter Setup - .9000 Intravenous Infusion - Platelets/ Plasma	**	**	** **	1	1	
1521	External Pacemaker ***						
1522	Cardiopulmonary 11.0620 Resuscitation	6.3769	40.6643	** **	5	1	
1523	Cardioversion ***						
1526	Swan Ganz Catheter *** Initiation						
1527	Swan Ganz Catheter *** Removal						
1528	Arterial Line - *** Initiation						
1529	Surgical Intravenous 61.6650 Initiation, Cut Down	33.6230	1130.5030	** **	4	1	

Facilities Outside the
95% Confidence Interval For Mean

Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

Skin:

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
1601 Decubitus Care	***						
1602 Skin Care	3.2350	.7790	.6385	2.6700 3.8000	2	1	22
1603 Suture/Skin Clip Removal, > 15	***						
1604 Small Dressing	6.7900	4.2998	18.4887	1.3800 20.7500	74	1, 8, 15	
1605 Change, < 4"x 8"	7.7325	1.0347	1.0705	6.4500 9.3500	8	1	4
1606 Change, > 4"x 8"	***						
1607 Reinforcing Dressing	5.6200	***	***	***	1	1	4
1608 Wound Irrigation	9.2661	*13.5935	*184.7841	3.0300 29.1300	23	1, 8, 10	
1609 Soaking Hand	14.7400	2.8426	8.0802	12.7300 16.7500	2	3, 15	
1610 Soaking Feet	3.0833	2.7897	7.7822	.8200 6.2000	3	1, 8	
1611 Hot Compress	***						
1612 Cold Compress	***						
1613 Sitz Bath	3.4300	***	***	***	1	1	
1614 Surgical Prep, Local	***						
1615 Surgical Prep, 3-Way	***						
1616 Wound Culture	.8200	***	***	***	1	1	8
1617 Heat Lamp	.9218	***	***	***	11	1, 8	15
1618 Back Rub	***						
1619 Air Floatation/ Alternating Pressure Mattress	***						
1620 Isolation, Gowning & 1.3916	4.985	.2485	.2485	.4000 3.2000	55	1, 4, 8	
1621 Isolation, Gowning & 1.3916	4.985	.2485	.2485	.4000 3.2000	55	1, 4, 8	
1622 Death Care	18.1200	7.1473	51.0835	8.3200 27.9500	5	1, 8	
1623 Suture/Skin Clip	6.2138	6.2478	39.0344	1.0200 20.0200	8	1, 8	
1624 Removal, < 15	***						
1625 Application of K-Pad	1.2000	***	***	***	1	1	

EENT:

	Mean	Standard Deviation	Variance	Range Minimum Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
1701 Eye Care	3.2625	.9721	.9449	2.4500 4.4700	4	1	4
1702 Irrigation - Eye	2.5233	.5727	.3280	***	3	4	
1705 Instillation of Drops - Eye	.6210	.3942	.1554	.1500 1.4000	21	1, 8	
1706 Instillation of Drops - Ear	***						
1707 Instillation of Drops - Ear	.8200	***	***	***	1	1	8
1708 Drops - Nose	.4600	.1853	.0344	.1000 .8200	14	4, 19	
1709 Culture - Nose	.4200	***	***	***	1	1	19, 22
1710 Culture - Throat	2.3000	***	***	***	1	1	

Facilities Outside the
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Facilities Within the
95% Confidence Interval For Mean

Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

Neurological/Skeletal:

1801	Pin Care	.6500	**	**	**	**	1	1
1802	Head Tongs Care	***						
1803	Bed Cradle	***						
1804	Foot Board	***						
1805	Ice Pack	.6960	.0635	.0040	**	**	5	1
1806	Extremity Traction -	3.4100	.2263	.0512	3.2500	3.5700	2	1, 22
	Application							
1807	Extremity Elevation	.9511	.4321	.1867	**	**	19	1
1808	Cast Care	1.0340	.4719	.2227	.4500	1.7500	5	1
1809	Extremity Traction -	***						10
	Adjust							
1810	Seizure Care	11.2300	**	**	**	**	1	1
1811	Circulation Check	1.2037	*2.9236	*8.5473	.3700	18.1800	35	1, 8, 27

Urological/Gynecological:

1901	Catheterization -	14.9700	9.6652	93.4163	**	**	4	1
	Foley							
1902	Catheterization -	11.1567	3.1303	9.7986	7.7000	13.8000	3	1
	Straight							
1903	Foley Catheter Care	4.2233	.6108	.3730	3.5200	4.6200	3	1
1904	Urine Specimen -	1.7167	*.8620	*.7431	.3200	4.2000	24	1, 4, 10
	Routine							
1905	Urine Specimen -	3.1240	*1.4354	*2.0604	1.5800	4.8300	5	1, 3, 10
	Clean Catch/Foley							
1906	Perineal Care	***						
1907	Foley Catheter	2.9250	1.8314	3.3541	**	**	2	1
	Removal							
1908	Douche	***						
1909	Dilatation and	***						
	Curettage							
1910	Vaginal/Pelvic	7.7700	**	**	**	**	1	4
	Examination							
1911	Urinary Bladder	.6300	**	**	**	**	1	1
	Training							
1912	Condom Catheter	***						
	Application							
1913	Peritoneal Dialy-	18.6000	**	**	**	**	1	1
	sis - Initiation							
1914	Peritoneal Dialy-	***						
	sis - Exchange of							
	Dialysis Solutions							
1915	Peritoneal Dialy-	***						
	sis - Removing							
	Dialysis Catheter							
1916	Bladder Irrigation	***						

Body Temperature Regulation:

2001	Sponging	14.1275	12.6365	159.6816	4.3200	32.5200	4	3, 4, 22
2002	Hypothermia/Hyper- thermia Treatment	***						

Facilities Outside the
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Sample
Size

Range
Minimum Maximum

Standard
Deviation

Mean

Medication Administration:

2101	Oral	1.4681	1.0728	1.1510	.2000	7.1500	168	1, 3, 4, 8, 10, 15, 19, 27
2102	Intramuscular	.9180	.4489	.2015	.1800	2.5200	143	1, 3, 4, 8, 10, 15, 19, 22, 27
2103	Subcutaneous	1.1967	.6558	.4300	.4800	2.2000	6	1, 15, 27
2104	Suppository,	.8891	.3200	.1024	.1800	1.2500	11	1, 22
2105	Rectal/Vaginal							
2106	Topical	.8791	.3473	.1206	.2700	1.7300	34	1, 3, 8, 10, 15
	Sublingual	***						

Diagnostic Test:

2201	Bone Marrow	1.7800	**	**	**	**	1	15
2202	Aspiration							
2203	Lumbar Puncture	15.6628	4.4395	19.7096	8.2000	25.5000	25	1, 8, 10, 15
2204	Urine Testing -	1.0554	.4099	.1680	.4200	2.0000	26	1, 3, 4
	Protein							
2206	Urine Testing -	.8959	1.2406	1.5390	.2300	13.8300	126	1, 3, 4, 8, 22
	Specific Gravity							
2207	Urine Testing -	1.3319	*	.4214	.3500	4.5300	54	1, 4, 15
	Sugar & Acetone							8
2208	Liver Biopsy	***						
2209	Gualac Testing -	.9065	.2946	.0868	.4300	1.9300	78	1, 3, 4, 8, 19
	Feces/Vomit/							
	GI Drainage							
2210	Collection of Feces	1.2750	.8839	.7812	.6500	1.9000	2	1
	Sample							8
2211	Hematocrit	5.0100	* 3.2328	*10.4508	2.3300	8.7000	20	1, 8, 15, 19

PATIENT TEACHING/REMOVAL AND PEDIATRIC FAMILY INSTRUCTION

2301	Teaching - Medication	.8300	**	**	**	**	1	22
2302	Administration							
	Teaching - Colostomy	***						
2304	Teaching - Urine	***						
2305	Teaching - Blow Bot-	2.6800	**	**	**	**	1	1
	ties/Incentive							
2306	Spirometer	5.6200	**	**	**	**	1	1
	Teaching - Dietary							
2307	Explanation							
	Teaching - Preopera-	40.0000	7.0711	50.0000	**	**	2	1
	tive Instruction							
2308	Teaching - Diagnostic	.7500	**	**	**	**	1	19
	Test							
2309	Teaching - Disease/	4.4452	3.1524	9.9374	1.2700	14.4800	31	1, 4, 8, 19, 22
	Condition Related							
2311	Teaching - Dressing	2.5800	**	**	**	**	1	1
	Change							

Facilities Outside the
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Facilities Within the
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Sample
Size

Range
Minimum Maximum

Variance

Standard
Deviation

Mean

2312 Teaching - Insulin Administration ***
2313 Teaching - Diabetic ***
2314 Teaching - Ileostomy/Ileostomy Care ***

NEONATAL - PEDIATRICS

2501	Feeding - Graduated Feeder, Premature	16.6653	9.8960	97.9304	3.1000	58.0000	99	1, 4, 8, 10, 15, 19, 22	
2502	Feeding - Bottle	16.3230	9.0941	82.7030	.7800	72.8300	236	1, 3, 4, 8, 10, 15, 19, 22, 27	
2503	Feeding - Oral - Gastric Tube	7.1606	4.1366	17.1118	1.6000	24.3000	122	1, 4, 8	
2504	Feeding - Oral - Jejunostomy Tube	1.6100	.9051	.8192	**	**	2	1	
2505	Assessing Gastric Residual	1.3909	.8511	.7744	.3200	6.0300	162	1, 3, 4, 8, 15, 19, 22, 27	
2506	Bubbling Baby, Truclude	1.5326	1.4806	2.1923	.2200	10.3700	92	1, 4, 8, 10, 22, 27	
2507	Diaper Change	1.3048	.7944	.6310	.3200	7.0200	434	1, 3, 4, 8, 10, 15, 19, 22, 27	
2508	Urine Collection Bag - Application	1.4410	1.4022	1.9661	.3000	7.0000	52	1, 3, 4, 8, 15, 19, 27	
2509	Changing Linens, Newborn	2.1003	* 1.1479	* 1.3177	.5200	6.8000	98	1, 8, 15, 19, 22	4
2510	Holding - Newborn/Infant	8.7567	7.4519	55.5305	1.0200	47.2500	155	1, 3, 4, 8, 10, 15, 19, 22, 27	
2511	Radiant Warmer - Application	2.6643	* 1.8255	* 3.3324	.2500	5.3500	7	1, 15	22, 27
2512	Isolette - Application	1.6233	.6248	.3904	1.4200	1.8000	3	1, 10, 27	4
2513	Temperature Regulation - Plastic Wrap Application	***							
2514	Temperature Regulation - K-Pad Application	2.0900	.4384	.1922	**	**	2	1	
2515	Temperature Probe - Application/Exchange	.6831	* .3225	.1040	.2300	1.7300	48	1, 27	4, 8
2516	Oxyhood - Application/Replacement	.4990	* .2519	* .0635	.1300	1.4800	83	1, 27	8
2517	Oxygen Analyzer - Utilization	.7325	* .6830	* .4665	.2300	4.2800	55	1, 8, 22	15
2518	Phototherapy Treatment - Application	1.8158	.7973	.6357	.5200	3.3700	24	1, 4, 8, 15, 19	
2519	Abdominal Girth Measurement	.9722	* .4813	* .2316	.1700	2.2300	49	1, 4, 8, 15	19
2520	Chest Measurement	.4251	.2303	.0530	.1000	1.4000	68	1, 3, 8, 10, 15, 19, 22, 27	
2521	Body Length Measurement	.5051	* .2708	* .0733	.1800	1.4500	73	1, 3, 8, 10, 15, 19, 22, 27	4
2522	Head Circumference Measurement	.6228	.3673	.1349	.1300	2.2800	149	1, 3, 4, 8, 10, 15, 19, 22, 27	
2523	Weight - Neonate/Infant	1.6983	1.2044	1.4507	.1300	6.6300	282	1, 3, 4, 8, 10, 15, 19, 22, 27	

	Mean	Standard Deviation	Variance	Range Minimum	Range Maximum	Sample Size	Facilities Within the 95% Confidence Interval For Mean	Facilities Outside the 95% Confidence Interval For Mean
2524	Umbilical Cord - Care .6941	* .4272	* .1825	.1700	2.0200	124	1, 3, 4, 8, 15, 19, 22, 27	10
2525	Prophylactic Eye Care .9419	.4692	.2201	.3300	2.0300	31	1, 4, 8, 10, 15, 19, 22, 27	
2526	Blood Pressure - Arteriosonde - ***	* .8101	* .6563	.6200	3.4000	95	1, 19, 22	4, 8
2527	Blood Pressure - Umbilical Artery							
2528	Pulmonary Assessment 2.9552	1.1132	1.2392	1.1500	5.7300	33	1	15
2529	Reflex Assessment, Newborn	* .5537	* .3066	1.2500	2.8700	12	1, 15	8
2530	Blood Sample - Heel Stick	4.5038	20.2841	1.0200	23.2200	140	1, 3, 4, 8, 15, 19, 27	
2531	Blood Sample - Dextrostick	* 1.1803	* 1.3932	.8200	8.9800	99	1, 3, 8, 15, 19, 27	4, 22
2532	Intravenous Infusion - Initiating Scalp Vein	15.2153	107.1576	3.6500	42.9800	17	1, 8, 10, 15	
2533	Intravenous/Arterial Infusion - Umbilical Cannulation	* 9.2347	*85.2804	13.2800	48.7500	14	1, 8	15
2534	Intravenous/Arterial Infusion - Removing Umbilical Catheter	2.4200	**	**	**	1	1	8
2535	Intravenous/Arterial Infusion - Transfusion Exchange	183.6800	**	**	**	1	1	8
2536	Ventricular Tap	18.5663	* 9.2975	*86.4439	3.2300	38.4200	8	3
2537	Bladder Tap	2.8440	.8946	.8003	2.0800	4.3200	5	
2538	Circumcision	20.1806	8.6656	75.0918	3.7300	40.0000	49	
2539	Newborn Septic Workup	6.8867	1.5837	2.5081	5.6800	8.6800	3	10, 19
2540	Physical Examination	9.3400	* 4.7746	*22.7973	1.7300	17.2700	28	15
2541	Shirt Change	1.1484	* .4879	* .2381	.5200	2.7700	123	22
2542	Umbilical Cord - Culture	.6740	.2801	.0784	.2000	1.5200	63	
2543	Initial Newborn Assessment	2.2200	* 1.2403	* 1.5383	.5200	4.9700	24	15
2544	Umbilical Cord - Clamp Application/Removal	.7620	.4682	.2192	.2700	1.8700	15	

PSYCHIATRIC

2603	Situational Observation	117.8136	*97.1980	*1447.4545	7.8800	235.0000	11	1, 8, 15, 22	4, 27
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Mean times are representative for the population only falling within the 95% Confidence Interval:

* Standard Deviation and Variance Values are Based on the Entire Population.

** Inadequate Sample Size to Compute all other Descriptive Statistics.

*** No measurements were obtained for these nursing care activities during the data collection period.

CLINICAL CODES: 06 Pediatric Intensive Care
07 Neonatal Intensive Care
08 Pediatrics
09 Newborn Nursery

APPENDIX F

Mean Number of Personnel Required in Performing Observed Direct
Nursing Care Activity by Type of Clinical Unit

Nursing Care Hour Standards
 Mean Number of Personnel Required in Performing Observed Nursing Care Activities
 Clinical Codes - Group I = 01, 02, 03, 04, 05; Group II = 01, 02, 03, 04, 05, 10, 11, 15, 16, 18;
 Group III = 10; Group IV = 06, 07, 08, 09; Group V = 01, 02, 03,
 04, 05, 06, 07, 08, 09, 10, 11, 15, 16, 18

Nursing Care Activities

ACTIVITIES OF DAILY LIVING

Hygiene:	Mean Number of Personnel Per Nursing Activity					
	Group I	Group II	Group III	Group IV	Group V	Group VI
0101 Bathing, Complete	1.2258	1.1844	1.0000	*	1.0248	1.1178
0102 Bathing, Assist With Back and Legs	1.0235	1.0213	1.1000	1.0000	1.0000	1.0205
0103 Oral Hygiene	1.0377	1.0323	1.0000	*	1.1818	1.0444
0104 AM Care	1.0444	1.0238	*	*	1.0000	1.0235
0105 PM Care	1.0294	1.0519	1.0000	*	1.0000	1.0506
0106 Nail Care	*	1.0000	*	*	*	1.0000
0107 Shampoo	1.3333	1.1667	*	*	1.3333	1.1905
0108 Shaving	1.0000	1.0000	*	*	*	1.0000
0109 Occupied Bed	1.5762	1.5509	1.4000	2.0000	1.5000	1.5446
0110 Unoccupied Bed	1.1111	1.1175	1.1395	1.0000	1.1164	1.1176
0111 Changing Bottom Sheet	2.0000	1.2727	1.0000	*	1.0000	1.2306
0112 AM Care, Utensils Provided	1.0000	1.0000	1.0000	*	1.0000	1.0000
0113 Bathing, Utensils Provided	1.0000	1.0057	*	*	*	1.0053
0114 AM Care, Partial	1.0303	1.0159	1.0000	*	1.0000	1.0159
0115 Sitting Shower/Shower With Assistance	*	1.0189	1.5000	1.0000	2.0000	1.0370
0116 Tub Bath	1.0000	1.3077	1.2857	*	1.0000	1.0625
0117 Changing Top Sheet	1.0000	1.1667	1.0412	*	1.0000	1.1538
0118 Changing Bed Linen Protector/Chux	1.2353	1.1037	*	*	1.0000	1.0694

Nutrition:

0201 Feeding	1.0000	1.0000	1.0000	*	1.0114	1.0042
0202 Fluid	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0203 Snack	*	1.0000	1.0000	*	1.0000	1.0000
0204 Serving Meal Tray, Preparation Required	1.0000	1.0030	1.0000	*	1.0000	1.0026
0205 Special Feeding - Nasogastric	1.0000	1.0000	*	*	1.0000	1.0000
0206 Special Feeding - Gastrostomy	*	1.0000	*	*	1.0294	1.0169
0207 Special Feeding - Hyperalimentation, Intravenous	1.0698	1.0870	*	*	1.0000	1.0594
0208 Measuring and Recording Intake	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0209 Special Feeding - Nasogastric, Continuous With Infusion Pump	1.0000	1.0000	*	*	1.0217	1.0085
0210 Special Feeding - Nasogastric, Continuous With Gastric Feeding Equipment	1.1000	1.0333	*	*	1.0000	1.0323
0211 Serving Meal Tray, No Preparation	1.0000	1.0019	1.0000	1.0000	1.0000	1.0018

Elimination:

0301 Measuring and Recording Output - Urine	1.0000	1.0020	1.0000	*	1.0000	1.0018
0302 Measuring and Recording Output - Liquid	1.0000	1.0000	*	*	1.0000	1.0000
0303 Measuring and Recording Output - Vomit/Feces	1.0000	1.0000	1.0000	*	1.0000	1.0000
0304 Measuring and Recording Output - Drainage Bottles, All Types	1.0000	1.0130	2.0000	*	1.0000	1.0113

Mean Number of Personnel Per Nursing Activity						
	Group I	Group II	Group III	Group IV	Group V	Group VI
0305 Giving a Bedpan	1.0316	1.0480	1.0000	1.0000	1.0000	1.0451
0306 Giving a Urinal	1.0000	1.0000	*	*	1.0000	1.0000
0307 Incontinent Care	1.7333	1.5893	*	*	1.0941	1.3756
0308 Output Weight - Diapers/Bed Linens	1.0000	1.0000	*	*	1.0000	1.0000
MOBILITY						
<u>Mobility:</u>						
0401 Mobility - Ambulating First Time	1.4286	1.1463	1.1316	*	1.0000	1.1446
0402 Mobility - Bed to Floor	1.2500	1.1000	1.0000	*	1.0000	1.0938
0403 Mobility - Bed to Chair	1.3966	1.2706	1.1212	*	1.0000	1.2867
0404 Mobility - Bedside Commode	1.0652	1.0626	1.0000	*	1.4390	1.0813
0405 Mobility - Assistance While Walking	1.2000	1.0619	1.0000	1.0000	1.1667	1.0648
0406 Mobility - Sitting on Side of Bed	1.0000	1.0000	1.0000	*	*	1.0000
<u>Changing Position:</u>						
0501 Changing Patient's Position in Bed	1.5591	1.4345	1.0000	*	1.0160	1.2621
0502 Adjusting Position of Bed	1.0230	1.0111	1.0000	1.0000	1.0000	1.0101
0503 Turning Frame, All Types	1.8312	1.7168	*	1.0000	1.0000	1.7105
0504 Mobility - Bed to Stretcher	2.1961	1.7090	1.6316	1.5000	1.2414	1.6705
0505 Adjusting Siderail	1.0189	1.0046	1.0000	*	1.0000	1.0032
0506 Adjusting Restraint	1.0462	1.0909	*	*	1.0244	1.0900
0507 Fowlers/Frendelenburg Position	1.1379	1.0806	1.0000	*	1.0000	1.0758
<u>Exercise:</u>						
0601 Exercise - Active	*	1.0000	*	*	*	1.0000
0602 Exercise - Passive	1.1000	1.0667	*	*	1.0000	1.0588
PSYCHOLOGICAL						
0701 Orientation to Clinical Unit	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0702 Explanation of Procedures and Tests	1.0000	1.0040	1.0000	1.1667	1.1429	1.0077
0703 Answering Patient's Question	1.0000	1.0105	1.0128	1.0000	1.0000	1.0101
0704 Visiting with Patient/Purposeful Interaction	1.0000	1.0203	1.0116	1.0323	1.0000	1.0165
PHYSIOLOGICAL PARAMETERS						
<u>Vital Signs:</u>						
0801 Blood Pressure, Manual	1.0000	1.0023	1.0000	1.0000	1.0000	1.0021
0802 Pulse - Radial/Brachial	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0803 Pulse - Apical	1.0000	1.0000	*	*	1.0000	1.0000
0804 Respirations	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0805 Temperature - Oral, Electronic/ Mercury	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0806 Temperature - Rectal, Electronic/ Mercury	1.0282	1.0351	*	*	1.0000	1.0187

	Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group IV	Group V	Group VI
0807 Temperature - Axillary, Electronic/ Mercury	1.0000	1.0000	*	*	1.0000	1.0000
0808 Oral Temperature, Pulse, & Respirations	1.0000	1.0015	1.0000	1.0000	1.0217	1.0029
0809 Pulse - Pedal/Femoral/Popliteal	1.0000	1.0000	*	*	1.0000	1.0000
0810 Pulse - Doppler	1.0667	1.0667	*	*	*	1.0667
0811 Rectal/Axillary Temperature, Apical Pulse, & Respirations	1.0000	1.0000	1.0000	*	1.0453	1.0431
<u>Body Weight/Selected Measurements:</u>						
0901 Ambulatory Weight	1.1481	1.0658	1.0000	1.0000	1.0000	1.0609
0902 Bed Scale Weight	2.4935	2.3022	*	*	2.0000	2.3000
0903 Abdominal Girth Measurement	2.0000	1.3810	*	*	1.0000	1.3636
0904 Extremity Circumference Measurement	1.0000	1.0000	1.0000	*	*	1.0000
<u>Cardiac Activity:</u>						
1001 Monitor Leads Application/Exchange	1.0000	1.0000	*	*	1.0156	1.0057
1002 Rhythm Strip - Monitor	1.0052	1.0047	*	*	*	1.0047
1003 12 Lead ECG	1.0192	1.0141	*	*	1.2500	1.0267
1004 Central Venous Pressure	1.0000	1.0000	*	*	1.0000	1.0000
1005 Heart Sounds Assessment	1.0000	1.0000	1.0000	*	1.0000	1.0000
1006 Pulmonary Artery Pressure Wedge	1.0000	1.0000	*	*	*	1.0000
1007 Pulmonary Artery Pressure	1.0000	1.0000	1.0000	*	*	1.0000
1008 Monitoring Reading - Blood Pressure/ Heart Rate/Pulmonary Artery Pressure/ Central Venous Pressure	1.0000	1.0000	*	*	1.0000	1.0000
1009 Rhythm Strip Measurements	1.0000	1.0000	*	*	*	1.0000
1010 Rhythm Strip - ECG Machine	1.0000	1.0556	*	*	1.0000	1.0455
1011 Cardiac Output Measurement	1.0000	1.0000	*	*	*	1.0000
1012 Adjusting Cardiac Monitor/Connecting Leads/Reset Alarm	1.0000	1.0000	*	*	1.0000	1.0000
<u>Neurological:</u>						
1101 Pupil Reflexes	1.0000	1.0000	*	*	1.0000	1.0000
1102 Mental Alertness	1.0000	1.0000	*	*	1.0000	1.0000
1103 Sensory Discrimination	1.0000	1.0000	*	*	*	1.0000
1104 Orientation	1.0000	1.0000	1.0000	*	1.0000	1.0000
1105 Motor/Sensory Testing	1.0000	1.0000	1.0000	*	1.0000	1.0000
<u>Respiratory Assessment:</u>						
1201 Vital Capacity	1.0000	1.0000	*	*	*	1.0000
1202 Pulmonary Assessment	1.0000	1.0000	1.0000	*	1.0000	1.0000
<u>Gastrointestinal Assessment:</u>						
2701 Bowel Sound Assessment	1.0000	1.0000	1.0000	*	1.0000	1.0000

THERAPEUTIC ACTIVITIES/MODALITIES

Gastrointestinal:

	Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group IV	Group V	Group VI
1301 Nasogastric Tube - Insertion	1.1429	1.2449	*	*	1.1364	1.2113
1302 Nasogastric Tube - Irrigation	1.0000	1.0000	*	*	1.0000	1.0000
1303 Nasogastric Tube - Removal	1.0000	1.0000	*	*	1.0000	1.0000
1304 Enema - Cleansing	2.0000	1.0476	1.0000	*	1.0000	1.0472
1305 Enema - Retention	*	1.0000	1.0000	1.0000	*	1.0000
1306 Colostomy - Irrigation	1.0000	1.2857	*	*	*	1.2857
1307 Colostomy - Dressing Change	1.1667	1.1538	*	*	1.2500	1.1905
1308 Lavage	1.4667	1.7778	*	*	1.0000	1.5833
1309 Paracentesis	*	1.0000	*	*	*	1.0000
1310 Dressing Change - Ileostomy/Ileocolectomy	2.0000	1.5556	*	*	*	1.5556
1311 Nasogastric Tube - Instillation	1.0000	1.0000	*	*	1.0000	1.0000
1312 Fecal Impaction - Assessment/Removal	1.0000	1.0000	*	1.0000	1.0000	1.0000
1313 Endoscopy	1.0000	1.0000	*	*	*	1.0000
1315 Proctoscopy	*	2.0000	*	*	*	2.0000
1316 Rectal Tube Insertion	*	1.0000	1.0000	*	*	1.0000
1317 Rectal Tube Removal	1.0000	1.0000	*	*	*	1.0000

Respiratory:

1401 Oxygen Administration - Nasal	1.0000	1.1538	*	*	*	1.1538
1402 Oxygen Administration - Mask	1.0000	1.0110	*	*	1.0000	1.0102
1403 Oxygen Administration - Prongs	1.0122	1.0259	*	*	*	1.0259
1404 Endotracheal/Tracheostomy Tube Pressure Cuff	1.0000	1.0000	*	*	*	1.0000
1406 Chest Tube - Care	1.3333	1.2222	*	*	*	1.2222
1407 Chest Tube - Changing Bottles	1.5000	1.3750	*	*	1.0000	1.3333
1408 Tracheostomy - Cleaning Cannula	1.0357	1.0857	*	*	*	1.0857
1409 Chest Pulmonary Therapy - Frappage With Postural Drainage	1.0455	1.0370	*	*	1.0227	1.0261
1411 Suctioning - Oral	1.0099	1.0169	*	*	1.0270	1.0208
1412 Suctioning - Tracheostomy	1.0952	1.0674	*	*	1.1818	1.1161
1413 Suctioning - Naso-Tracheal	1.0000	1.0000	*	*	1.0769	1.0556
1414 Suctioning - Endotracheal	1.1765	1.1932	*	*	1.3529	1.2518
1415 IPPB Treatment	1.0000	1.0000	*	*	1.2333	1.1667
1416 Respiratory Resuscitation	3.0000	3.0000	*	*	1.0000	1.3333
1417 Thoracentesis	1.0000	1.0000	*	*	1.0000	1.0000
1418 Blow Bottles	1.0000	1.0000	1.0000	*	1.0000	1.0000
1419 Cough and Deep Breathe	1.0159	1.0080	1.0000	*	1.0000	1.0079
1420 Incentive Spirometer	1.0400	1.0120	1.0000	*	*	1.0120
1421 Intubation	1.8889	1.7273	*	*	1.1250	1.3704
1422 Positioning for X-Ray	1.1318	1.1029	1.0000	*	1.0308	1.0833
1423 Tracheostomy - Dressing Change	1.0851	1.0794	*	*	1.2105	1.1098
1424 Oxygen Administration - Mist With Collar/Face Tent	1.0000	1.0000	*	*	1.0000	1.0000
1425 Group Tent	*	*	*	*	1.0000	1.0000
1426 Suctioning - Bulb Syringe	*	*	*	*	1.0210	1.0210

	Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group IV	Group V	Group VI
1427 Maxilist Treatment	1.0000	1.0000	*	*	1.0000	1.0000
1428 Chest Tube - Insertion	1.5000	1.3571	*	*	1.0000	1.3333
1429 Chest Tube - Removal	1.3333	1.0909	*	*	1.0000	1.0625
1430 Extubation	1.0000	1.0000	*	*	*	1.0000
1431 Bronchoscopy	1.0000	1.0000	*	*	*	1.0000
Cardiovascular:						
1501 Venipuncture - Blood Sample	1.0460	1.0179	1.0114	1.0000	1.3853	1.0901
1502 Venipuncture - Blood Culture	1.0000	1.0654	1.1250	*	1.0870	1.0692
1503 Arterial Puncture - Blood Gases	1.0303	1.0247	*	*	1.1600	1.0566
1504 Intravenous Infusion - Flow Rate	1.0103	1.0049	1.0000	*	1.0000	1.0038
1505 Intravenous Infusion - Initiating	1.1194	1.0769	1.0263	*	1.4366	1.1485
1506 Intravenous Infusion - Change IV Bottle	1.0000	1.0082	1.0116	*	1.0000	1.0071
1507 Intravenous Infusion - IV Push Medication	1.0000	1.0000	1.0000	*	1.0000	1.0000
1508 Intravenous Infusion - IV Catheter Care	1.0882	1.0529	1.0000	*	1.0625	1.0537
1509 Intravenous Infusion - Piggy-Back Medication	1.0000	1.0000	1.0000	*	1.0000	1.0000
1510 Intravenous or Arterial Infusion - Termination	1.0471	1.0304	1.0282	*	1.0196	1.0288
1511 Intravenous Infusion - Infusion Pump Setup	1.0263	1.0172	1.0000	*	1.0139	1.0160
1512 Elastic Stockings	1.0213	1.0101	*	*	*	1.0101
1513 Ace Bandage	1.6000	1.2500	*	*	1.2500	1.2500
1514 Intravenous Infusion - Blood	1.1111	1.0959	1.0000	*	1.0000	1.0700
1515 Intravenous/Arterial Line - Blood Sample	1.0102	1.0099	1.0000	*	1.0000	1.0061
1516 Arterial Line - Transducer Exchange	1.2500	1.2500	*	*	1.2439	1.2439
1517 Arterial Line - Arterial Line Setup	1.1250	1.1250	*	*	1.1250	1.1250
1518 Arterial Line - Swan Ganz Catheter Setup	1.6000	1.6000	*	*	1.6000	1.6000
1520 Intravenous Infusion - Platelets/Plasma	1.0000	1.0000	*	*	1.0000	1.0000
1521 External Pacemaker	2.5000	2.5000	*	*	*	2.5000
1522 Cardiopulmonary Resuscitation	2.8571	3.1667	*	*	1.2000	2.5882
1523 Cardioversion	2.0000	2.0000	*	*	*	2.0000
1526 Swan Ganz Catheter - Initiation	1.4286	1.4286	*	*	*	1.4286
1527 Swan Ganz Catheter - Removal	1.0000	1.0000	*	*	*	1.0000
1528 Arterial Line - Initiation	1.2500	1.2500	*	*	*	1.2500
1529 Surgical Intravenous Initiation, Cut-Down	1.1667	1.1429	*	*	1.0000	1.0909
Skin:						
1601 Decubitus Care	1.2143	1.1000	*	1.0000	*	1.1000
1602 Skin Care	1.3333	1.0769	*	*	1.0000	1.0625
1603 Suture/Skin Clip Removal, >15	1.0000	1.0000	1.0000	*	*	1.0000
1604 Small Dressing Change, <4" x 8"	1.0357	1.0634	*	*	1.2432	1.1250
1605 Large Dressing Change, >4" x 8"	1.2183	1.1582	*	1.0000	1.5000	1.1786
1606 Reinforcing Dressing	1.1250	1.1250	*	*	2.0000	1.1600

		Mean Number of Personnel Per Nursing Activity					
		Group I	Group II	Group III	Group IV	Group V	Group VI
1607	Wound Irrigation	1.4444	1.2000	2.0000	1.0000	1.3333	1.2195
1608	Soaking Hand	*	1.0000	*	*	*	1.0000
1609	Soaking Foot	*	1.0000	*	*	1.0000	1.1429
1610	Hot Compress	1.0000	1.0000	1.0000	*	1.0000	1.0000
1611	Cold Compress	*	1.0000	*	*	*	1.0000
1612	Sitz Bath	1.0000	1.0000	1.0000	*	*	1.0000
1613	Surgical Prep, Local	*	1.0128	1.0714	*	*1.0000	1.0127
1614	Surgical Prep, 3-Way	*	1.0000	1.0000	*	*	1.0000
1615	Wound Culture	1.0000	1.0000	*	*	1.0000	1.0000
1616	Heat Lamp	1.0000	1.0444	1.0000	*	1.0000	1.0351
1617	Back Rub	1.2174	1.1111	1.0000	*	*	1.1111
1619	Air Floation/Alternating Pressure Mattress	1.5000	1.6250	*	*	*	1.6250
1620	Isolation, Gowning and Gloving	1.0200	1.0090	*	*	1.0000	1.0060
1621	Death Care	2.0000	2.0000	*	*	1.0000	1.7500
1622	Suture/Skin Clip Removal, <15	1.0000	1.0556	*	*	1.0000	1.0385
1623	Application of K-Pad	1.0000	1.0000	*	*	1.0000	1.0000
EENT:							
1701	Eye Care	1.0000	1.0000	*	*	1.0000	1.0000
1702	Irrigation - Eye	*	1.0000	*	*	1.0000	1.0000
1704	Irrigation - Throat	*	1.0000	*	*	*	1.0000
1705	Instillation of Drops - Eye	1.0000	1.0000	*	1.0000	1.0476	1.0152
1706	Instillation of Drops - Ear	*	1.0000	1.0000	1.0000	*	1.0000
1707	Instillation of Drops - Nose	*	1.0000	*	*	1.0000	1.0000
1708	Culture - Nose	*	1.0000	*	*	1.0000	1.0000
1709	Culture - Throat	*	1.0000	*	*	1.0000	1.0000
1710	Culture - Sputum	1.0000	1.0000	*	*	1.0000	1.0000
Neurological-Skeletal:							
1801	Pin Care	1.0000	1.0000	*	*	1.0000	1.0000
1802	Head Tongs Care	1.0000	1.0000	*	*	*	1.0000
1803	Bed Cradle	1.0000	1.0000	*	*	*	1.0000
1804	Foot Board	1.0000	1.0000	*	*	*	1.0000
1805	Ice Pack	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1806	Extremity Traction - Application	*	1.3333	*	*	1.0000	1.2000
1807	Extremity Elevation	1.2000	1.0068	*	1.0000	1.0000	1.0000
1808	Cast Care	*	1.0000	*	*	1.1667	1.0111
1809	Extremity Traction - Adjust	1.0000	1.0690	*	*	2.0000	1.0690
1810	Seizure Care	1.2500	1.2222	*	*	*	1.3636
1811	Circulation Check	1.0000	1.0000	*	1.0000	1.0000	1.0000
Urological-Gynecological:							
1901	Catheterization - Foley	1.1500	1.1321	1.0000	*	1.5000	1.1579
1902	Catheterization - Straight	1.0000	1.1724	1.1579	*	1.0000	1.1515
1903	Foley Catheter Care	1.0145	1.0495	1.0000	1.0000	1.0000	1.0476
1904	Urine Specimen - Routine	1.0000	1.0000	1.0000	*	1.0000	1.0000
1905	Urine Specimen - Clean Catch/Foley	1.0714	1.0323	1.0385	*	1.1250	1.0429
1906	Perineal Care	1.0000	1.0000	1.0000	*	*	1.0000
1907	Foley Catheter Removal	1.0000	1.0250	1.0625	*	1.0000	1.0244
1908	Douche	*	1.0000	*	*	*	1.0000

	Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group V	Group VI
1909 Oilation and Curettage	1.0000	1.4000	1.6667	*	1.4000
1910 Vaginal/Pelvic Examination	*	1.0313	1.0714	1.0000	1.0303
1911 Urinary Bladder Training	*	1.0000	*	1.0000	1.0000
1912 Condom Catheter Application	1.0000	1.0000	*	*	1.0000
1913 Peritoneal Dialysis - Initiation	1.0000	1.0000	*	1.0000	1.0000
1914 Peritoneal Dialysis - Exchange of Dialysis Solutions	1.0339	1.0339	*	1.0000	1.0333
1915 Peritoneal Dialysis - Removing Dialysis Catheter	1.0000	1.0000	*	*	1.0000
1916 Bladder Irrigation	1.0000	1.0769	*	*	1.0769
<u>Body Temperature Regulation:</u>					
2002 Hypothermia/Hyperthermia Treatment	1.0000	1.0000	*	*	1.0000
<u>Medication Administration:</u>					
2101 Oral	1.0000	1.0014	1.0000	1.0060	1.0023
2102 Intramuscular	1.0149	1.0069	1.0000	1.0769	1.0241
2103 Subcutaneous	1.0000	1.0000	1.0000	1.0000	1.0000
2104 Suppository, Rectal/Vaginal	1.0000	1.0000	1.0000	1.0000	1.0000
2105 Topical	1.0000	1.0080	1.0000	1.0000	1.0063
2106 Sublingual	1.0000	1.0000	*	*	1.0000
<u>Diagnostic Test:</u>					
2201 Bone Marrow Aspiration	*	1.0000	*	1.0000	1.0000
2202 Lumbar Puncture	1.1250	1.1765	*	1.0588	1.0980
2204 Urine Testing - Protein	1.0000	1.0000	*	1.0000	1.0000
2206 Urine Testing - Specific Gravity	1.0000	1.0000	*	1.0000	1.0000
2207 Urine Testing - Sugar and Acetone	1.0000	1.0000	*	1.0000	1.0000
2208 Liver Biopsy	*	1.0000	*	*	1.0000
2209 Guaiac Testing - Feces/Vomit/	1.0000	1.0482	*	1.0000	1.0248
2210 GI Drainage	*	1.0000	*	1.0000	1.0000
2210 Collection of Feces Sample	*	1.0000	*	1.0000	1.0000
2211 Hematocrit	1.0000	1.0000	1.0000	1.0323	1.0233
<u>PATIENT TEACHING/NEONATAL AND PEDIATRIC FAMILY INSTRUCTION</u>					
2301 Teaching - Medication Administration	*	1.0000	*	1.0000	1.0000
2302 Teaching - Colostomy Care	*	1.0000	*	*	1.0000
2304 Teaching - Urine Testing	*	1.0000	1.0000	*	1.0000
2305 Teaching - Blow Bottles/Incentive Spirometer	1.0000	1.0000	1.0000	1.0000	1.0000
2306 Teaching - Dietary Explanation	*	1.0000	*	1.0000	1.0000

	Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group IV	Group V	Group VI
2307 Teaching - Preoperative Instruction	*	1.0000	1.0000	*	1.0000	1.0000
2308 Teaching - Diagnostic Test	*	1.0000	*	*	1.0000	1.0000
2309 Teaching - Disease/Condition Related	1.0000	1.0033	1.0063	*	1.0000	1.0730
2311 Teaching - Dressing Change	*	1.0000	*	*	1.0000	1.0000
2312 Teaching - Insulin Administration	*	1.1429	1.0000	*	*	1.1429
2313 Teaching - Diabetic	*	1.0000	1.0000	*	*	1.0000
2314 Teaching - Ileostomy/Ileoconduit Care	*	1.0000	*	*	*	1.0000
OBSTETRICAL						
2401 Vulvar/Anal Area Prep	*	1.0139	1.0141	*	*	1.0139
2402 Support During Uterine Contraction	*	1.0200	1.0204	*	*	1.0200
2403 Dilatation & Effacement Assessment	*	1.0427	1.0427	*	*	1.0427
2404 Dilatation & Effacement Assessment, Assisting Physician	*	1.0305	1.0309	*	*	1.0305
2405 Fetal Electrode Insertion	*	1.0000	1.0000	*	*	1.0000
2406 Fetal Electrode Insertion, Assisting Physician	*	1.0833	1.0833	*	*	1.0833
2407 Intrauterine Catheter Insertion	*	1.2500	1.2500	*	1.0000	1.1667
2408 Intrauterine Catheter Insertion, Assisting Physician	*	1.0000	1.0000	*	*	1.0000
2409 Internal or External Monitoring - Uterine Contraction/Fetal Heart Tones	*	1.0000	1.0000	*	*	1.0000
2410 Manual Contraction Assessment	*	1.0154	1.0156	*	*	1.0154
2411 Pitocin Induction, Assisting Physician	*	1.0000	1.0000	*	*	1.0000
2412 Fetal Heart Tones, Manual	1.0000	1.0081	1.0085	*	*	1.0081
2413 Fetal Heart Tones, Doppler	*	1.0448	1.0448	*	*	1.0448
2415 Routine Delivery Room Functions	*	2.1460	2.1460	*	*	2.1460
2416 Fundus Massage	1.0000	1.0057	1.0060	*	*	1.0057
2417 Changing Perineal Pads	1.0000	1.0074	1.0097	*	1.0000	1.0072
2418 Perineal Suture Care	*	1.0000	1.0000	*	*	1.0000
2419 Teaching - Perineal Suture Care	*	1.0000	1.0000	*	*	1.0000
2420 Teaching - Breast Care	*	1.0000	1.0000	*	*	1.0000
2421 Oxytocin Challenge Test	*	1.1667	1.1667	*	*	1.1667
2422 Non-Stress Test	*	1.0667	1.0667	*	*	1.0667
2423 Amiotomy	*	1.0690	1.0690	*	*	1.0690
2424 Amniocentesis	*	1.2000	1.2000	*	*	1.2000
2426 Teaching - Breast Feeding	*	1.0000	1.0000	*	1.0000	1.0000
2427 Pitocin Induction	*	1.0769	1.0833	*	*	1.0769
2428 Tocotransducer - Application	*	1.0000	1.0000	*	*	1.0000
2429 Ultrasonic Transducer - Application	*	1.0417	1.0417	*	*	1.0417
2430 Fetal Electrode Insertion/ Intrauterine Catheter Insertion	*	1.0000	1.0000	*	*	1.0000
2431 Fetal Electrode Insertion/ Intrauterine Catheter Insertion, Assisting Physician	*	1.1071	1.1071	*	*	1.1071

		Group I	Group II	Mean Number of Personnel Per Nursing Activity	Group IV	Group V	Group VI
		1.0278	1.0278	1.0278	1.0278	1.0278	1.0278
2432	Tocotransducer and Ultrasonic Transducer - Application of Labor	*	1.0455	1.0455	*	*	1.0455
2433	Observation and Assessment, Second Stage	*	1.0455	1.0455	*	*	1.0455
2434	Labor Room Examination and Preparation, Routine	*	1.0938	1.0938	*	*	1.0938
2435	Adjust Ultrasonic Transducer/Tocotransducer	*	1.0263	1.0263	*	*	1.0263
2436	Monitoring Fetal Heart Tones, Ultrasonic Transducer	*	1.0000	1.0000	*	*	1.0000
2437	Monitoring Fetal Heart Tones, Ultrasonic Transducer and Uterine Contraction, Tocotransducer	*	1.0000	1.0000	*	*	1.0000
NEONATAL-PEDIATRICS							
2501	Feeding - Graduated Feeder, Premature	*	*	*	*	1.0000	1.0000
2502	Feeding - Bottle	*	*	*	*	1.0042	1.0042
2503	Feeding - Oral-Gastric Tube	*	*	*	*	1.0080	1.0080
2504	Feeding - Oral-Jejunostomy Tube	*	*	*	*	1.0000	1.0000
2505	Assessing Gastric Residual	*	*	*	*	1.0375	1.0375
2506	Bubbling Baby, Eructate	*	*	*	*	1.0000	1.0000
2507	Diaper Change	*	*	*	*	1.0000	1.0000
2508	Urine Collection Bag - Application	*	*	*	*	1.0192	1.0192
2509	Changing Linens, Newborn	*	*	*	*	1.0370	1.0370
2510	Holding Newborn/Infant	*	*	*	*	1.0098	1.0098
2511	Radiant Warmer - Application	*	*	*	*	1.0064	1.0064
2512	Isollette - Application	*	*	*	*	1.1111	1.1111
2513	Temperature Regulation - Plastic Wrap Application	*	*	*	*	1.0000	1.0000
2514	Temperature Regulation - K-Pad Application	*	*	*	*	1.0000	1.0000
2515	Temperature Probe - Application/Exchange	*	*	*	*	1.0000	1.0000
2516	Oxyhood - Application/Replacement	*	*	*	*	1.0000	1.0000
2517	Oxygen Analyzer - Utilization	*	*	*	*	1.0000	1.0000
2518	Phototherapy Treatment - Application	*	*	*	*	1.0000	1.0000
2519	Abdominal Girth Measurement	*	*	*	*	1.0377	1.0377
2520	Chest Measurement	*	*	*	*	1.1324	1.1324
2521	Body Length Measurement	*	*	*	*	1.1111	1.1111
2522	Head Circumference Measurement	*	*	*	*	1.0604	1.0604
2523	Body Weight - Neonate/Infant	*	*	*	*	1.0461	1.0461
2524	Umbilical Cord - Care	*	*	*	*	1.0000	1.0000
2525	Prophylactic Eye Care	*	*	*	*	1.0000	1.0000
2526	Blood Pressure - Arteriosonde	*	*	*	*	1.0413	1.0413
2527	Blood Pressure - Umbilical Artery	*	*	*	*	*	*
2528	Pulmonary Assessment	*	*	*	*	1.0000	1.0000
2529	Reflex Assessment, Newborn	*	*	*	*	1.0000	1.0000
2530	Blood Sample - Heel Stick	*	*	*	*	1.0144	1.0144
2531	Blood Sample - Dextrostick	*	*	*	*	1.0000	1.0000
2532	Intravenous Infusion - Initiating Scalp Vein	*	*	*	*	1.3529	1.3529
2533	Intravenous/Arterial Infusion - Umbilical Camulation	*	*	*	*	1.0000	1.0000
2534	Intravenous/Arterial Infusion - Removing Umbilical Catheter	*	*	*	*	1.0000	1.0000
2535	Intravenous/Arterial Infusion - Transfusion Exchange	*	*	*	*	1.0000	1.0000
2536	Ventricular Tap	*	*	*	*	1.0000	1.0000
2537	Bladder Tap	*	*	*	*	1.2000	1.2000
2538	Circumcision	*	*	*	*	1.0000	1.0000
2539	Newborn Septic Workup	*	*	*	*	1.2000	1.2000
2540	Physical Examination	*	*	*	*	1.0000	1.0000

	Mean Number of Personnel Per Nursing Activity					
	Group I	Group II	Group III	Group IV	Group V	Group VI
2541 Shirt Change	*	*	*	*	1.0000	1.0000
2542 Umbilical Cord - Culture	*	*	*	*	1.0000	1.0000
2543 Initial Newborn Assessment	*	*	*	*	1.0800	1.0800
2544 Umbilical Cord - Clamp, Application/ Removal	*	*	*	*	1.0667	1.0667
PSYCHIATRIC						
2601 One Hour of One-on-One Observation - Arms Length	*	1.0000	*	1.0000	*	1.0000
2602 One Hour of One-on-One Observation - Constant/Close	*	1.0000	*	1.0000	*	1.0000
2603 Situational Observation	1.2143	1.0000	1.2000	1.0650	1.5714	1.1154
2604 Group Therapy	*	1.0774	*	1.7553	*	1.7553
2605 Appearance, Behavior and Conversation Assessment	*	1.0769	*	1.0769	*	1.0769
2606 Extrapyramidal Syndrome Assessment	*	1.0000	*	1.0000	*	1.0000
2607 Patient Government Session	*	4.0769	*	4.0769	*	4.0769
2608 Planned Recreational Activity Session	*	3.1108	*	3.1108	1.0000	3.1045
2609 Leather Restraint Application - 2 Point	*	1.6667	*	2.0000	*	1.6667
2610 Leather Restraint Application - 4 Point	2.0000	2.0000	*	*	*	2.0000
2613 Placing Patient Into Seclusion Room	*	2.5000	*	2.5000	*	2.5000
2615 Individual Support Therapy - All Nursing Personnel	*	1.0000	*	1.0000	*	1.0000
2616 Individual Therapy - Contract Interview/ Primary Therapist	*	1.0000	*	1.0000	*	1.0000
2617 Occupational Therapy - Nursing Support Required	*	1.0000	*	1.0000	*	1.0000
2618 Intake Interview, Interdisciplinary	*	1.0000	*	1.0000	*	1.0000
2619 Intake Interview, Admission	*	1.0000	*	1.0000	*	1.0000

* Inadequate Sample Size to Compute Mean

GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V	GROUP VI
01 Medical Intensive Care	01 Medical Intensive Care	10 Obstetrics	1A Psychiatry	06 Pediatric Intensive Care	01 Medical Intensive Care
02 Surgical Intensive Care	02 Surgical Intensive Care			07 Neonatal Intensive Care	02 Surgical Intensive Care
03 Thoracic-Cardiovascular Intensive Care	03 Thoracic-Cardiovascular Intensive Care			08 Pediatrics	03 Thoracic-Cardiovascular Intensive Care
04 Coronary Care	04 Coronary Care			09 Newborn Nursery	04 Coronary Care
05 Neurosurgery Intensive Care	05 Neurosurgery Intensive Care			10 Obstetrics	05 Neurosurgery Intensive Care
	10 Obstetrics			11 Gynecology	06 Pediatric Intensive Care
	11 Gynecology			16 Surgery	07 Neonatal Intensive Care
	15 Medicine			18 Psychiatry	08 Pediatrics
	18 Psychiatry				09 Newborn Nursery
					10 Obstetrics
					11 Gynecology
					15 Medicine
					16 Surgery
					18 Psychiatry

APPENDIX G

Minimal Essential Mean Tasking Time in Minutes for Each Direct
Nursing Care Activity by Adult Age Group

Nursing Care Hour Standards
Mean Nursing Care Activity Time in Minutes by Age Groups

NURSING CARE ACTIVITIES

ACTIVITIES OF DAILY LIVING

Hygiene:

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
0101 Bathing, Complete	20.4534	21.2506	19.4429	20.3717	17.8105
0102 Bathing, Assist With Back and Legs	11.6902	12.5247	13.0375	11.4355	12.9244
0103 Oral Hygiene	3.3010	3.6100	2.9570	2.4827	3.5742
0104 AM Care	6.5806	7.2437	6.5593	7.2082	6.4677
0105 PM Care	12.5994	10.4259	10.1307	10.2043	10.1850
0106 Nail Care	3.9100	*	*	*	*
0107 Shampoo	9.2725	8.2367	15.7233	8.6767	7.7000
0108 Shaving	6.3852	6.7282	6.4658	4.8889	5.8183
0109 Occupied Bed	10.0694	9.8504	9.2835	8.9300	10.0400
0110 Unoccupied Bed	5.9988	6.0790	5.9782	6.5114	6.8637
0111 Changing Bottom Sheet	3.3400	3.5700	5.4500	2.7700	2.5650
0112 AM Care, Utensils Provided	2.6668	2.4733	1.9209	2.3925	.8700
0113 Bathing, Utensils Provided	2.4122	2.5471	2.7825	2.4350	2.3140
0114 AM Care, Partial	4.2320	4.0017	4.5107	5.9583	3.0550
0115 Sitting Shower/Shower With Assistance	15.9275	17.3536	15.9554	16.9678	17.6392
0116 Tub Bath	20.2667	14.2700	18.1300	17.0925	*
0117 Changing Top Sheet	.9925	1.8450	1.4000	1.5200	.8200
0118 Changing Bed Linen Protector/Chux	.7220	.7969	1.5231	1.3730	2.2336

Nutrition:

0201 Feeding	15.5374	14.4840	18.1538	14.8300	17.6255
0202 Fluid	.7241	.7055	1.2786	1.3693	1.9450
0203 Snack	.7400	1.0661	.5407	1.1250	.9800
0204 Serving Meal Tray, Preparation Required	2.1520	2.6354	2.7503	2.7664	3.5819
0205 Special Feeding - Nasogastric	3.8321	3.6600	11.3650	4.4300	*
0206 Special Feeding - Gastrostomy	*	3.3682	2.7500	2.7250	*
0207 Special Feeding - Hyperalimentation, Intravenous	5.9873	9.3770	5.4516	10.2944	5.1000

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
0208 Measuring and Recording Intake	.8977	1.0348	.9490	.9198	.8512
0209 Special Feeding - Nasogastric, Continuous Infusion Pump	4.6367	5.8991	2.5300	3.2383	3.1633
0210 Special Feeding - Nasogastric, Continuous With Gastric Feeding Equipment	4.6667	2.7715	8.0550	2.4225	3.3000
0211 Serving Meal Tray, No Preparation Required	.3797	.3486	.5852	.5987	.3140

Elimination:

0301 Measuring and Recording Output - Urine	1.0873	1.0683	1.1255	.9314	1.4152
0302 Measuring and Recording Output - Liquid Feces	*	1.6800	.9975	1.2167	*
0303 Measuring and Recording Output - Vomitus	1.1733	.6080	*	1.0500	*
0304 Measuring and Recording Output - Drainage Bottles, All Types	2.0268	1.3874	1.6344	2.0700	2.4050
0305 Giving a Bedpan	2.5286	2.6002	3.1175	3.1442	2.2950
0306 Giving a Urinal	1.7908	1.7500	2.1530	2.4600	1.9960
0307 Incontinent Care	6.7567	8.2365	5.4564	5.8025	9.8322
0308 Output Weight - Diaper/Bed Linens	*	1.6300	*	*	*

MOBILITY

Mobility:

0401 Mobility - Ambulating First Time	4.8629	4.6883	6.5911	7.1000	6.8600
0402 Mobility - Bed to Floor	2.0350	1.4364	3.1800	*	1.9950
0403 Mobility - Bed to Chair	2.3719	2.0709	2.5714	3.0233	2.8220
0404 Mobility - Bedside Commode	2.3246	3.1873	3.9516	4.9848	3.6131
0405 Mobility - Assistance While Walking	3.8222	3.9067	4.3196	4.7568	6.4018

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
0406 Mobility - Sitting on Side of Bed	2,2250	1,4250	1,8067	1,5450	3,9000

Changing Position:

0501 Changing Patient's Position in Bed	1,8876	1,8808	2,4996	2,6658	1,7277
0502 Adjusting Position of Bed	.4242	.4540	.7455	.4573	.3641
0503 Turning Frame, All Types	8,7992	10,7085	*	6,1000	8,8575
0504 Mobility - Bed to Stretcher	2,0487	2,4681	3,2345	2,3065	2,8075
0505 Adjusting Siderail	.3588	.3120	.4497	.2155	.2157
0506 Adjusting Restraint	.3800	1,0062	1,3340	1,0220	1,9200
0507 Fowlers/Trendelenberg Position	.8133	.9482	.9981	1,2200	1,6600

Exercising:

0601 Exercise - Active	6,2300	*	7,4950	*	*
0602 Exercise - Passive	6,0743	5,9675	6,1567	6,1000	*

PSYCHOLOGICAL

0701 Orientation to Clinical Unit	4,0834	5,2181	3,8165	2,3740	3,2500
0702 Explanation of Procedures and Tests	1,6700	1,6969	1,9561	1,7133	2,2400
0703 Answering Patient's Question	1,0357	.8184	1,0325	.9379	1,8109
0704 Visiting With Patients/ Purposeful Interaction	2,5848	1,9600	1,7629	1,8526	1,6142

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801 Blood Pressure, Manual	.9942	1,0271	1,1248	1,1419	1,3981
0802 Pulse - Radial/Brachial	.6314	.6093	.7440	.6758	.5620
0803 Pulse - Apical	1,2292	1,3385	1,3377	1,3570	1,3770

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
0804 Respirations	.6152	.6194	.7803	.6169	.7275
0805 Temperature - Oral, Electronic/ Mercury	.9304	.9892	1.0279	.9717	1.0127
0806 Temperature - Rectal, Electronic/Mercury	1.7180	1.8224	1.7357	1.4831	2.3050
0807 Temperature - Axillary, Electronic/Mercury	1.0031	1.1422	1.0050	.9053	.8700
0808 Oral Temperature, Pulse, & Respirations	1.3017	1.2753	1.3877	1.5077	1.5989
0809 Pulse - Pedal/Femoral/Popliteal	1.1360	1.1735	1.0733	1.0080	1.1400
0810 Pulse - Doppler	*	3.9456	2.2200	*	*

Body Weight/Selected Measurements:

0901 Ambulatory Weight	.9345	1.0048	1.5232	1.4960	1.7058
0902 Bed Scale Weight	5.2118	4.9432	6.1181	6.1250	6.0832
0903 Abdominal Girth Measurement	4.0800	1.4000	2.9900	.5000	*
0904 Extremity Circumference Measurement	.6250	.9345	.6818	.6700	1.0200

Cardiac Activity:

1001 Monitor Leads Application/ Exchange	2.4282	2.0059	1.9356	2.4200	2.0936
1002 Rhythm Strip - Monitor	.6327	.9104	.9133	.8511	.9438
1003 12 Lead ECG	12.1150	10.3062	9.8137	10.4679	11.0433
1004 Central Venous Pressure	*	*	2.4500	*	1.1700
1005 Heart Sounds Assessment	1.3500	1.2741	1.2345	1.2007	1.4858
1006 Pulmonary Artery Pressure Wedge	1.6167	1.2416	.7137	1.0232	1.4929
1007 Pulmonary Artery Pressure	*	*	.6938	.6538	*
1008 Monitor Reading - Blood Pressure/Heart Rate/ Pulmonary Artery Pressure/ Central Venous Pressure	.7630	.7675	.8810	.7983	*
1009 Rhythm Strip Measurements	.9800	1.4773	1.3885	1.1650	1.3650
1010 Rhythm Strip - ECG Machine	8.3300	7.4958	8.1800	12.0067	8.9067

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1011 Cardiac Output Measurement	*	*	*	5,4700	*
1012 Adjusting Cardiac Monitor/ Connecting Leads/Reset Alarm	.8267	.9680	.9682	.7000	*

Neurological Assessment:

1101 Pupil Reflexes	.7134	.6478	.7241	.5150	.3600
1102 Mental Alertness	.7689	.7893	.6383	.9950	.7400
1103 Sensory Discrimination	1.6400	1.0860	1.5025	*	*
1104 Orientation	.9968	.7992	.9371	1.7250	.9000
1105 Motor/Sensory Testing	1.1983	1.0274	1.2225	1.1517	1.8350

Respiratory Assessment:

1201 Vital Capacity	*	*	*	*	6.3300
1202 Pulmonary Assessment	1.9717	1.5871	1.7995	1.8029	1.3609

Gastrointestinal Assessment:

2701 Bowel Sound Assessment	1.0767	1.5318	1.4739	1.0567	1.7733
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THERAPEUTIC ACTIVITIES/MODALITIES

Gastrointestinal:

1301 Nasogastric Tube - Insertion	4.2467	6.4615	6.3710	16.3883	9.3143
1302 Nasogastric Tube - Irrigation	1.9494	1.9050	2.7667	1.8325	.8000
1303 Nasogastric Tube - Removal	1.5260	.8833	1.8900	1.2933	1.1333
1304 Enema - Cleansing	5.1018	2.8941	7.9394	8.7767	19.1150
1305 Enema - Retention	1.7227	1.9207	2.1956	.9850	1.4800
1306 Colostomy - Irrigation	*	21.6267	24.7150	*	*
1307 Colostomy - Dressing Change	10.9200	6.7000	7.1740	3.4800	10.0040
1308 Lavage	16.2400	22.8400	24.4250	*	*
1309 Paracentesis	*	*	19.0850	29.5500	*
1310 Dressing Change - Ileostomy/ Ileoconduit	8.9200	8.0420	6.6150	10.0300	*

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1311 Nasogastric Tube - Instillation	2,1184	1,9783	2,3088	2,6736	3,8862
1312 Fecal Impaction Assessment/ Removal	3,1350	3,3000	1,1700	3,3800	2,1150
1313 Endoscopy	*	24,4800	20,5000	*	*
1315 Proctoscopy	*	*	20,1700	*	*
1316 Rectal Tube Insertion	*	4,0300	*	*	*
1317 Rectal Tube Removal	*	*	3,9700	*	2,0200
<u>Respiratory:</u>					
1401 Oxygen Administration - Nasal	2,1500	2,0250	,6750	,7500	,9333
1402 Oxygen Administration - Mask	,8535	1,2017	1,3656	,7107	,5753
1403 Oxygen Administration - Prongs	,6550	,8032	,7021	,7850	1,1600
1404 Endotracheal/Tracheostomy Tube Pressure Cuff	1,0300	*	2,7940	1,5720	*
1406 Chest Tube - Care	19,0833	6,4500	6,4550	*	13,1500
1407 Chest Tube - Changing Bottles	9,2400	*	10,5320	4,6700	*
1408 Tracheostomy - Cleaning Cannula	5,5024	5,3200	7,6740	*	6,5300
1409 Chest Pulmonary Therapy - Frappage With Postural Drainage	3,0067	3,7439	3,4267	6,0800	3,0250
1411 Suctioning - Oral	1,8850	2,1123	,9850	1,1771	2,5900
1412 Suctioning - Tracheostomy	2,5071	4,0518	2,9003	2,9650	*
1413 Suctioning - Naso-Tracheal	4,1514	2,2750	3,3480	*	2,6700
1414 Suctioning - Endotracheal	3,3567	3,6823	3,5022	3,7453	*
1415 IPPB Treatment	8,2325	9,3500	*	6,3850	*
1416 Respiratory Resuscitation	*	*	*	33,7500	*
1417 Thoracentesis	*	26,3667	27,3625	24,3980	*
1418 Blow Bottles	3,3908	3,3121	3,8500	3,9267	4,3025
1419 Cough and Deep Breathe	2,3253	2,1986	2,3342	2,3317	2,4340
1420 Incentive Spirometer	2,4106	2,7675	3,5100	3,1900	3,7250
1421 Intubation	7,2800	13,2375	25,0780	5,0000	*
1422 Positioning for X-Ray	4,4115	4,4272	4,0910	4,5677	3,1700
1423 Tracheostomy - Dressing Change	6,1725	6,9757	6,1886	6,4065	*
1424 Oxygen Administration - Mist With Collar/Face Tent	*	,5300	*	*	*
1427 Maximist Treatment	*	3,2640	*		*
1428 Chest Tube - Insertion	31,0933	32,6633	22,7580	55,0000	16,6700
1429 Chest Tube - Removal	5,6750	4,7100	5,5850	7,6000	*

		16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1430	Extubation	*	*	2,9850	*	1,7000
1431	Bronchoscopy	23,4750	14,0000	*	*	*
<u>Cardiovascular:</u>						
1501	Venipuncture - Blood Sample	3,1878	3,3379	3,8995	4,6935	3,4865
1502	Venipuncture - Blood Culture	6,3761	4,3513	4,6755	5,7200	5,7780
1503	Arterial Puncture - Blood Gases	5,1060	5,5516	5,4795	4,7135	7,8400
1504	Intravenous Infusion - Flow Rate	.7606	.7268	.7228	.7593	.9241
1505	Intravenous Infusion - Initiating	7,8936	9,1858	11,8987	11,3093	9,6891
1506	Intravenous Infusion - Changing IV Bottle	1,5539	1,6397	1,6945	2,0267	1,8400
1507	Intravenous Infusion - IV Push Medication	2,2185	2,0363	1,7069	1,8150	2,0133
1508	Intravenous Infusion - IV Catheter Care	12,6733	9,5900	10,8531	10,6463	9,3231
1509	Intravenous Infusion - Piggy- Back Medication	1,7341	1,7253	1,5726	1,8735	2,3991
1510	Intravenous or Arterial Line - Termination	3,0374	3,4580	4,7179	3,9110	4,9700
1511	Intravenous Infusion - Infusion Pump Setup	3,2264	4,0408	3,8727	4,6869	3,4100
1512	Elastic Stockings	3,2271	3,3531	3,0545	4,6427	4,2950
1513	Ace Bandage	3,0257	3,1050	8,2000	*	*
1514	Intravenous Infusion - Blood	3,7459	3,8444	3,1519	3,8567	5,1480
1515	Intravenous or Arterial Line - Blood Sample	2,7276	3,1233	2,7126	3,6317	4,6200
1516	Arterial Line - Transducer Exchange	14,8300	19,4060	16,9718	15,0353	12,4200
1517	Arterial Line - Arterial Line Setup	20,4300	14,7233	15,2850	10,1700	*
1518	Arterial Line - Swan Ganz Catheter Setup	9,2300	*	49,6667	8,3300	*
1520	Intravenous Infusion - Plate- lets/Plasma	*	2,9667	3,6467	3,7000	3,7400
1521	External Pacemaker	*	*	10,0250	*	*
1522	Cardiopulmonary Resuscitation	8,8500	80,4900	33,1375	88,9800	*

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1523 Cardioversion	*	13,3900	24,0200	28,9750	25,1700
1526 Swan Ganz Catheter Initiation	*	59,6700	52,0280	50,7440	*
1527 Swan Ganz Catheter Removal	5.2000	7,7750	6,8633	*	*
1528 Arterial Line - Initiation	*	35,1540	41,9050	44,5467	*
1529 Surgical Intravenous Initiation,* Cut Down	*	34,7800	64,3425	20,1050	19,7800

Skin:

1601 Decubitus Care	9.4546	10,3220	7,5444	2,9517	7,4075
1602 Skin Care	*	2,4000	*	5,6000	5,6800
1603 Suture/Skin Clip Removal, >15	8,7800	15,3880	18,0227	11,1300	9,1700
1604 Small Dressing Change, <4" x 8"	6,5906	6,1574	6,3741	4,6055	3,3967
1605 Large Dressing Change, >4" x 8"	11,1294	13,6404	11,0900	8,5323	8,3871
1606 Reinforcing Dressing	3,7180	2,2400	4,6300	2,2433	*
1607 Wound Irrigation	11,1469	13,8663	13,4700	12,7200	10,9656
1608 Soaking Hand	*	*	11,7650	7,4200	*
1609 Soaking Feet	8,0400	5,9700	*	*	3,0800
1610 Hot Compress	2,4390	2,2550	3,6700	3,5250	*
1611 Cold Compress	*	20,0000	*	4,2150	*
1612 Sitz Bath	7,0250	11,2300	9,6513	24,3500	8,2700
1613 Surgical Prep, Local	11,7758	10,8661	8,2871	18,6900	*
1614 Surgical Prep, 3-Way	5,3850	32,3250	7,7000	*	*
1615 Wound Culture	1,1800	3,4133	*	2,3650	*
1616 Heat Lamp	1,6214	1,8009	1,8180	1,0200	1,1420
1617 Back Rub	2,7536	3,3918	2,7613	2,8583	2,4864
1619 Air Floatation/Alternating Pressure Mattress	10,0000	8,7000	3,5800	5,3000	5,6267
1620 Isolation, Gowning & Gloving	1,1550	1,5987	1,7862	2,1917	1,4022
1621 Death Care	16,2067	22,6875	25,5467	26,9750	19,4700
1622 Suture/Skin Clip Removal, <15	4,0150	7,9960	7,0580	4,8825	2,2000
1623 Application of K-Pad	.9650	1,7000	*	*	*

EEENT:

1701 Eye Care	1.7520	1.7189	.5800	2.3650	2.9027
1702 Irrigation - Eye	*	*	5.0800	*	*
1704 Irrigation - inroat	*	.1800	*	*	*
1705 Instillation of Drops - Eye	*	*	*	.5200	*

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1706	Instillation of Drops - Ear				
1707	Instillation of Drops - Nose	1,2500	*	.5800	*
1708	Culture - Nose	*	*	*	*
1709	Culture - Throat	.2450	*	*	*
1710	Culture - Sputum	.5582	.3500	*	*
		2,7400	*	.9150	5.7700

Neurological/Skeletal:

1801	Pin Care	7,0497	*	*	*
1802	Head Tongs Care	4,1620	*	*	*
1803	Bed Cradle	.8925	2.5500	1.0500	*
1804	Foot Board	.3600	.5500	*	1.5800
1805	Ice Pack	.8480	.8750	.9600	.9000
1806	Extremity Traction - Application	3,1000	*	*	*
1807	Extremity Elevation	.9778	.9139	.8250	.8740
1808	Cast Care	1,1250	1,3350	*	.6950
1809	Extremity Traction - Adjust	2,3944	4,3200	2,3000	*
1810	Seizure Care	3,0567	*	*	*
1811	Circulation Check	.7070	.7141	.6043	*

Urological/Gynecological:

1901	Catheterization - Foley	7,1079	8,9300	8,0863	15,5975
1902	Catheterization - Straight	7,6560	7,9500	6,2425	16,6800
1903	Foley Catheter Care	4,5181	4,1570	4,0284	4,1852
1904	Urine Specimen - Routine	1,9456	2,0086	2,1460	2,4033
1905	Urine Specimen - Clean Catch/ Foley	1,8836	2,3565	1,0550	2,8500
1906	Perineal Care	5,1000	2,2800	1,6000	*
1907	Foley Catheter Removal	3,2030	3,6659	2,3000	5,6325
1908	Douche	1,5150	2,0750	*	2,6800
1909	Dilatation and Curettage	*	23,7600	*	*
1910	Vaginal/Pelvic Examination	6,7645	4,5650	*	6,7800
1911	Urinary Bladder Training	1,0359	.8700	*	1,1000
1912	Condom Catheter Application	2,5500	3,5667	*	1,9200
1913	Peritoneal Dialysis - Initiation*	*	42,0000	*	*
1914	Peritoneal Dialysis - Exchange of Solutions	*	23,7600	*	*

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
1915 Peritoneal Dialysis - Removing Dialysis Catheter	*	*	6,7500	*	*
1916 Bladder Irrigation	1.2300	4.9667	6.3000	2.7067	4.1072

Body Temperature Regulation:

2002 Hypothermia/Hyperthermia Treatment	*	1.3800	6,6467	*	*
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Medication Administration:

2101 Oral	.6450	.7517	.8465	1.0211	1.5773
2102 Intramuscular	1.2749	1.1792	1,1489	1.2891	1.3923
2103 Subcutaneous	1.0785	.9412	.8625	.8446	.8871
2104 Suppository, Rectal/Vaginal	1.4994	1.6037	.9771	1.4889	1.3600
2105 Topical	1.0580	1.0514	1.2373	1.6405	1.7300
2106 Sublingual	*	.5034	.4670	.4816	.6200

Diagnostic Test:

2201 Bone Marrow Aspiration	*	12.0800	*	*	19.8300
2202 Lumbar Puncture	17.5200	18.9550	14.7700	33.9467	*
2204 Urine Testing - Protein	.5962	.6173	1.0883	*	*
2206 Urine Testing - Specific Gravity	.7756	.6108	.9920	.8962	.6137
2207 Urine Testing - Sugar & Acetone	1.3948	2.3154	1.8398	1.8000	1.7691
2208 Liver Biopsy	*	15.2667	9.6300	*	*
2209 Guaiac Testing - Feces/Vomit/ GI Drainage	1.0650	1.0886	1.0415	1.0094	1.3186
2210 Collection of Feces Sample	*	1.8025	1.3500	*	*
2211 Hematocrit	5.0220	2.3033	3.6150	2.9850	*

16 - 25 Yrs 26 - 55 Yrs 56 - 65 Yrs 66 - 75 Yrs 76 - 99 Yrs
Adult I Adult II Adult III Adult IV Adult V

PATIENT TEACHING/NEONATAL AND PEDIATRIC FAMILY INSTRUCTION

2301	Teaching - Medication Adminis- tration	*	19,3031	19,2800	20,8840	*
2302	Teaching - Colostomy Care	*	*	8,7800	*	*
2304	Teaching - Urine Testing		1,2013	.8820	2,7850	*
2305	Teaching - Blow Bottles/ Incentive Spirometer		3,7463	4,1586	5,4000	1,6000
2306	Teaching - Dietary Explanation		3,5000	.1700	*	4,9200
2307	Teaching - Preoperative Instruction		4,9853	9,8781	13,7739	30,0000
2308	Teaching - Diagnostic Test		.7800	1,0278	1,6100	.4800
2309	Teaching - Disease/Condition Related		5,4011	6,3109	7,8105	4,0100
2311	Teaching - Dressing Change		5,3460	3,2700	4,8300	*
2312	Teaching - Insulin Adminis- tration		2,9825	20,6350	1,0700	*
2313	Teaching - Diabetic		1,6000	9,5000	16,2900	*
2314	Teaching - Ileostomy/Ileoconduit* Care		*	12,9100	*	*

OBSTETRICAL

2401	Vulvar/Anal Area Prep		3,3425	*	*	*
2402	Support During Contraction		2,2565	*	*	*
2403	Dilatation & Effacement Assessment		1,7001	*	*	*
2404	Dilatation & Effacement Assessment, Assisting Physician		2,0442	*	*	*
2405	Fetal Electrode Insertion		4,2686	*	*	*
2406	Fetal Electrode Insertion, Assisting Physician		3,3879	*	*	*
2408	Intrauterine Catheter Insertion, Assisting Physician		9,5720	*	*	*
2409	Internal or External Monitoring - 1,0962 Uterine Contraction/Fetal Heart Tones		1,0465	*	*	*
2410	Manual Contraction Assessment		1,9644	*	*	*

		16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
2411	Pitocin Induction, Assisting Physician	7.9733	3.2800	*	*	*
2412	Fetal Heart Tones, Manual	1.5590	1.2733	1.1700	*	*
2413	Fetal Heart Tones, Doppler	2.3222	1.8738	*	*	*
2415	Routine Delivery Room Functions	56.8737	57.1821	*	*	*
2416	Fundus Massage	.9515	.9357	*	*	*
2417	Changing Perineal Pad	.8017	.7791	.6900	.6500	*
2418	Perineal Suture Care	2.6050	3.8450	*	*	*
2419	Teaching - Perineal Suture Care	2.3376	2.5883	*	*	*
2420	Teaching - Breast Care	3.6050	2.0000	*	*	*
2421	Oxytocin Challenge Test	43.0200	65.0800	*	*	*
2422	Non-Stress Test	26.7305	20.1545	*	*	*
2423	Amniotomy	3.6389	2.8612	*	*	*
2424	Amniocentesis	30.3467	27.4400	*	*	*
2426	Teaching - Breast Feeding	17.0667	7.0600	*	*	*
2427	Pitocin Induction	6.9333	6.1500	*	*	*
2428	Tocotransducer - Application	2.3048	1.8278	*	*	*
2429	Ultrasonic Transducer - Application	3.1594	3.5200	*	*	*
2430	Fetal Electrode Insertion/ Intrauterine Catheter Insertion	6.2667	*	*	*	*
2431	Fetal Electrode Insertion/ Intrauterine Catheter	6.9211	9.9411	*	*	*
2432	Assisting Physician Tocotransducer and Ultrasonic Transducer - Application	5.0588	5.4228	*	*	*
2433	Observation and Assessment, Second Stage of Labor	46.4382	71.0300	*	*	*
2434	Labor Room Examination and Preparation, Routine	26.5495	25.2927	20.9300	*	*
2435	Adjust Ultrasonic Transducer/ Tocotransducer	3.6892	.9775	*	*	*
2436	Monitoring Fetal Heart Tones, Ultrasonic Transducer	.7433	.8786	*	*	*
2437	Monitoring Fetal Heart Tones, Ultrasonic Transducer and Uterine Contraction, Tocotransducer	.7767	1.1056	*	*	*

	16 - 25 Yrs Adult I	26 - 55 Yrs Adult II	56 - 65 Yrs Adult III	66 - 75 Yrs Adult IV	76 - 99 Yrs Adult V
PSYCHIATRIC					
2601 One Hour of One-to-One Observation - Arms Length	60.0000	60.0000	*	*	*
2602 One Hour of One-to-One Observation - Constant/Close	60.6771	*	*	*	*
2603 Situational Observation	24.9018	23.3633	71.2540	36.9100	9.4050
2604 Group Therapy	7.2641	7.3727	4.6800	*	*
2605 Appearance, Behavior and Conversation Assessment	2.4070	2.0725	1.8417	2.2550	*
2606 Extrapyramidal Syndrome Assessment	1.7069	1.3200	1.7200	*	*
2607 Patient Government Session	6.9717	7.6934	10.2300	7.8800	*
2608 Planned Recreational Activity Session	16.7916	14.1473	*	*	*
2609 Leather Restraint Application - *		1.4650	*	*	14.8500
2610 Leather Restraint Application - *		17.0200	*	*	*
2613 Placing Patient into Seclusion Room	5.4350	*	*	*	*
2615 Individual Support Therapy - ***15.0000 All Nursing Personnel		15.0000	15.0000	15.0000	15.0000
2616 Individual Therapy - Contract ***30.0000 Interview/Primary Therapist		30.0000	30.0000	30.0000	30.0000
2617 Occupational Therapy, Nursing ***15.0000 Support Required		15.0000	15.0000	15.0000	15.0000
2618 Intake Interview, Interdisci- plinary ***30.0000		30.0000	30.0000	30.0000	30.0000
2619 Intake Interview, Admission ***30.0000		30.0000	30.0000	30.0000	30.0000

* Inadequate Sample Size to Compute Mean

APPENDIX H

Minimal Essential Mean Tasking Time in Minutes for Each Direct
Nursing Care Activity by Pediatric Age Group

Nursing Care Hour Standards
Pediatric Nursing Care Activity Mean Times per Age Group

Nursing Care Activities

ACTIVITIES OF DAILY LIVING

	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
<u>Hygiene:</u>				
0101 Bathing, Complete	6.2989	9.5243	18.4939	24.8400
0102 Bathing, Assist with Back and Legs	*	8.3150	10.3250	16.5500
0103 Oral Hygiene	2.3318	2.3318	2.3318	2.3318
0104 AM Care	4.6500	4.6500	4.6500	4.6500
0105 PM Care	10.4900	10.4900	10.4900	10.4900
0106 Nail Care	*	*	*	*
0107 Shampoo	13.4367	13.4367	13.4367	13.4367
0108 Shaving	*	*	*	*
0109 Occupied Bed	6.3835	6.3835	6.3835	6.3835
0110 Unoccupied Bed	5.1692	5.1692	5.1692	5.1692
0111 Changing Bottom Sheet	3.4000	3.4000	3.4000	3.4000
0112 AM Care, Utensils Provided	1.1500	1.1500	1.1500	1.1500
0113 Bathing, Utensils Provided	1.6009	1.6009	1.6009	1.6009
0114 AM Care, Partial	4.3378	4.3378	4.3378	4.3378
0115 Sitting Shower/Shower with Assistance	6.9800	6.9800	6.9800	6.9800
0116 Tub Bath	10.3946	10.3946	10.3946	10.3946
0117 Changing Top Sheet	.8200	.8200	.8200	.8200
0118 Changing Bed Linen Protector/Chux	.8357	.8357	.8357	.8357

Nutrition:

0201 Feeding	22.2249	22.2249	22.2249	22.2249
0202 Fluid	.6961	.6961	.6961	.6961
0203 Snack	.4241	.4241	.4241	.4241
0204 Serving Meal Tray, Preparation Required	2.6902	2.6902	2.6902	2.6902
0205 Special Feeding - Nasogastric	18.3633	18.3633	18.3633	18.3633
0206 Special Feeding - Gastrostomy	6.0641	6.0641	6.0641	6.0641
0207 Special Feeding - Hyperalimentation, Intravenous	7.0587	7.0587	7.0587	7.0587
0208 Measuring and Recording Intake	.6912	.6912	.6912	.6912
0209 Special Feeding - Nasogastric, Continuous Infusion Pump	3.6157	3.6157	3.6157	3.6157

0210	Special Feeding - Nasogastric, Continuous with Gastric Feeding Equipment	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
0211	Serving Meal Tray, No Preparation Required	3,7700	3,7700	3,7700	3,7700
		.3826	.3826	.3826	.3826

Elimination:

0301	Measuring and Recording Output - Urine	1.0239	1.0239	1.0239	1.0239
0302	Measuring and Recording Output - Liquid Feces	.3300	.3300	.3300	.3300
0303	Measuring and Recording Output - Vomitus	.8100	.8100	.8100	.8100
0304	Measuring and Recording Output - Drainage Bottles, All Types	.9743	.9743	.9743	.9743
0305	Giving a Bedpan	2.5162	2.5162	2.5162	2.5162
0306	Giving a Urinal	1.6487	1.6487	1.6487	1.6487
0307	Incontinent Care	2.4697	4.8500	5.3343	7.9350
0308	Output Weight - Diaper/Bed Linens	.6410	.6410	.6410	.6410

MOBILITY

Mobility:

0401	Mobility - Ambulating First Time	3.2700	3.2700	3.2700	3.2700
0402	Mobility - Bed to Floor	.7500	.7500	.7500	.7500
0403	Mobility - Bed to Chair	3.0840	3.0840	3.0840	3.0840
0404	Mobility - Bedside Commode	1.9000	1.9000	1.9000	1.9000
0405	Mobility - Assistance While Walking	3.2380	3.2380	3.2380	3.2380
0406	Mobility - Sitting on Side of Bed	*	*	*	*

Changing Position:

0501	Changing Patient's Position in Bed	1.0853	1.0853	1.0853	1.0853
0502	Adjusting Position of Bed	.4306	.4306	.4306	.4306
0503	Turning Frame, All Types	*	9.0256	9.0256	9.0256
0504	Mobility - Bed to Stretcher	3.7814	3.7814	3.7814	3.7814
0505	Adjusting Siderail	.2431	.2431	.2431	.2431
0506	Adjusting Restraint	1.0654	1.0654	1.0654	1.0654
0507	Fowlers/Trendelenberg Position	1.0625	1.0625	1.0625	1.0625

Exercising:

0601	Exercise - Active	3.4150	3.4150	3.4150	3.4150
0602	Exercise - Passive	3.4150	3.4150	3.4150	3.4150

PSYCHOLOGICAL

0701	Orientation to Clinical Unit	5.1613	5.1613	5.1613	5.1613
0702	Explanation of Procedures and Tests	1.4140	1.4140	1.4140	1.4140
0703	Answering Patient's Question	.7626	.7626	.7626	.7626
0704	Visiting with Patient/Purposeful Interaction	1.5331	1.5331	1.5331	1.5331

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801	Blood Pressure, Manual	1.2165	1.2165	1.2165	1.2165
0802	Pulse - Radial/Brachial	.5567	.5567	.5567	.5567
0803	Pulse - Apical	1.1381	1.1381	1.1381	1.1381
0804	Respirations	.8666	.8666	.8666	.8666
0805	Temperature - Oral, Electronic/Mercury	1.1376	1.1376	1.1376	1.1376
0806	Temperature - Rectal, Electronic/Mercury	1.3889	1.3889	1.3889	1.3889
0807	Temperature - Axillary, Electronic/Mercury	1.0636	1.0636	1.0636	1.0636
0808	Oral Temperature, Pulse, & Respirations	1.6496	1.6496	1.6496	1.6496
0809	Pulse - Pedal/Femoral/Popliteal	1.1067	1.1067	1.1067	1.1067
0810	Pulse - Doppler	3.2487	3.2487	3.2487	3.2487
0811	Rectal/Axillary Temperature - Apical, Pulse, and Respiration Rate	2.7444	2.7444	2.7444	2.7444

Body Weight/Selected Measurements:

0901	Ambulatory Weight	.9138	.9138	.9138	.9138
0902	Bed Scale Weight	7.8300	7.8300	7.8300	7.8300
0903	Abdominal Girth Measurement	1.5300	1.5300	1.5300	1.5300
0904	Extremity Circumference Measurement	.7655	.7655	.7655	.7655

Cardiac Activity:

1001	Monitor Leads Application/Exchange	1.5455	1.5455	1.5455	1.5455
1002	Rhythm Strip - Monitor	.8610	.8610	.8610	.8610
1003	12 Lead ECG	7.9533	7.9533	7.9533	7.9533
1004	Central Venous Pressure	1.4150	1.4150	1.4150	1.4150
1005	Heart Sounds Assessment	1.3159	1.3159	1.3159	1.3159
1006	Pulmonary Artery Pressure Wedge	*	*	*	*
1007	Pulmonary Artery Pressure	*	*	*	*
1008	Monitor Reading - Blood Pressure/Heart Rate/Pulmonary Artery Pressure/ Central Venous Pressure	.5300	.5300	.5300	.5300

	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
1009 Rhythm Strip Measurements	1.3743	1.3743	1.3743	1.3743
1010 Rhythm Strip - ECG Machine	4.5387	4.5387	4.5387	4.5387
1011 Cardiac Output Measurement	*	*	*	*
1012 Adjusting Cardiac Monitor/Connecting Leads/ Reset Alarm	.9929	.9929	.9929	.9929

Neurological Assessment:

1101 Pupil Reflexes	.6747	.6747	.6747	.6747
1102 Mental Alertness	.8825	.8825	.8825	.8825
1103 Sensory Discrimination	*	*	*	*
1104 Orientation	.4000	.4000	.4000	.4000
1105 Motor/Sensory Testing	1.0160	1.0160	1.0160	1.0160

Respiratory Assessment:

1201 Vital Capacity	*	*	*	*
1202 Pulmonary Assessment	1.1888	1.1888	1.1888	1.1888

Therapeutic Activities/Modalities

GI

Gastrointestinal:

1301 Nasogastric Tube - Insertion	4.0964	4.0964	4.0964	4.0964
1302 Nasogastric Tube - Irrigation	2.8200	2.8200	2.8200	2.8200
1303 Nasogastric Tube - Removal	.8127	.8127	.8127	.8127
1304 Enema - Cleansing	*	7.7500	7.7500	7.7500
1305 Enema - Retention	*	1.3700	1.3700	1.3700
1306 Colostomy - Irrigation	*	23.3914	23.3914	23.3914
1307 Colostomy - Dressing Change	16.3950	16.3950	16.3950	16.3950
1308 Lavage	6.1200	6.1200	6.1200	6.1200
1309 Paracentesis	*	*	*	*
1310 Dressing Change - Ileostomy/Ileococonduit	8.0433	8.0433	8.0433	8.0433
1311 Nasogastric Tube - Instillation	.9689	.9689	.9689	.9689
1312 Fecal Impaction Assessment/Removal	1.1800	1.1800	1.1800	1.1800
1313 Endoscopy	*	*	*	*
1314 Saline Irrigation - Gastric	6.2800	6.2800	6.2800	6.2800
1315 Proctoscopy	*	*	*	*
1316 Rectal Tube Insertion	*	*	*	*
1317 Rectal Tube Removal	*	*	*	*

<1-2 Yrs
Group I

3-5 Yrs
Group II

6-11 Yrs
Group III

12-15 Yrs
Group IV

Respiratory:

1401	Oxygen Administration - Nasal	*	.6171	*	.6171	*	.6171
1402	Oxygen Administration - Mask		.8110		.8110		.8110
1403	Oxygen Administration - Prongs	*		*		*	
1404	Endotracheal/Tracheostomy Tube Pressure Cuff						
1405	Tracheostomy - Changing Tube		5.3600		5.3600		5.3600
1406	Chest Tube - Care		11.4078		11.4078		11.4078
1407	Chest Tube - Changing Bottles		20.3200		20.3200		20.3200
1408	Tracheostomy - Cleaning Cannula		6.0423		6.0423		6.0423
1409	Chest Pulmonary Therapy - Frappage with Postural Drainage		5.8615		5.8615		5.8615
1411	Suctioning - Oral		1.7404		1.7404		1.7404
1412	Suctioning - Tracheostomy		3.6070		3.6070		3.6070
1413	Suctioning - Naso-Tracheal		2.1592		2.1592		2.1592
1414	Suctioning - Endotracheal		4.4763		4.4763		4.4763
1415	IPPB Treatment		3.0277		3.0277		3.0277
1416	Respiratory Resuscitation		36.7680		36.7680		36.7680
1417	Thoracentesis		10.1800		10.1800		10.1800
1418	Blow Bottles	*			2.1800		2.1800
1419	Cough and Deep Breathe	*			1.4200		1.4200
1420	Incentive Spirometer	*			2.9668		2.9668
1421	Intubation		8.2875		8.2875		8.2875
1422	Positioning for X-Ray		4.9143		4.9143		4.9143
1423	Tracheostomy - Dressing Change		3.9747		3.9747		3.9747
1424	Oxygen Administration - Mist with Collar/ Face Tent		.4150		.4150		.4150
1425	Croup Tent		7.9800		7.9800		7.9800
1426	Suctioning - Bulb Syringe	*	.7024	*		*	
1427	Maximist Treatment		12.5473		12.5473		12.5473
1428	Chest Tube - Insertion		22.5800		22.5800		22.5800
1429	Chest Tube - Removal		7.6280		7.6280		7.6280
1430	Extubation		2.5567		2.5567		2.5567
1431	Bronchoscopy		20.3167		20.3167		20.3167

Cardiovascular:

1501	Venipuncture - Blood Sample		6.8153		3.6018		4.6242
1502	Venipuncture - Blood Culture		6.9200		2.9700		3.7600
1503	Arterial Puncture - Blood Gases		6.2581		6.2581		6.2581

		<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
1504	Intravenous Infusion - Flow Rate	.9078	.9078	.9078	.9078
1505	Intravenous Infusion - Initiating	15.0481	12.6200	8.1669	8.1669
1506	Intravenous Infusion - Changing IV Bottle	1.6009	1.6009	1.6009	1.6009
1507	Intravenous Infusion - IV Push Medication	2.0359	2.0359	2.0359	2.0359
1508	Intravenous Infusion - IV Catheter Care	8.4231	8.4231	8.4231	8.4231
1509	Intravenous Infusion - Piggy-Back Medication	2.0644	2.0644	2.0644	2.0644
1510	Intravenous or Arterial Line - Termination	3.7844	3.7844	3.7844	3.7844
1511	Intravenous Infusion - Infusion Pump Setup	4.7233	4.7233	4.7233	4.7233
1512	Elastic Stockings	*	*	*	*
1513	Ace Bandage	3.4833	3.4833	3.4833	3.4833
1514	Intravenous Infusion - Blood	6.2515	6.2515	6.2515	6.2515
1515	Intravenous or Arterial Line - Blood Sample	2.3489	2.3489	2.3489	2.3489
1516	Arterial Line - Transducer Exchange	16.3290	16.3290	16.3290	16.3290
1517	Arterial Line - Arterial Line Setup	17.1862	17.1862	17.1862	17.1862
1518	Arterial Line - Swan Ganz Catheter Setup	*	*	*	*
1520	Intravenous Infusion - Platelets/Plasma	6.2515	6.2515	6.2515	6.2515
1521	External Pacemaker	*	*	*	*
1522	Cardiopulmonary Resuscitation	11.0620	11.0620	11.0620	11.0620
1523	Cardioversion	*	*	*	*
1524	Rotating Tourniquets	*	*	*	*
1525	Arterial Infusion - Medication	*	*	*	*
1526	Swan Ganz Catheter Initiation	*	*	*	*
1527	Swan Ganz Catheter Removal	*	*	*	*
1528	Arterial Line - Initiation	42.1319	42.1319	42.1319	42.1319
1529	Surgical Intravenous Initiation, Cut Down	61.6650	61.6650	61.6650	61.6650
<u>Skin:</u>					
1601	Decubitus Care	8.5416	8.5416	8.5416	8.5416
1602	Skin Care	3.2350	3.2350	3.2350	3.2350
1603	Suture/Skin Clip Removal, >15	14.4313	14.4313	14.4313	14.4313
1604	Small Dressing Change, <4" x 8"	6.7900	6.7900	6.7900	6.7900
1605	Large Dressing Change, >4" x 8"	7.7325	7.7325	7.7325	7.7325
1606	Reinforcing Dressing	5.6200	5.6200	5.6200	5.6200
1607	Wound Irrigation	7.7758	10.5000	16.2373	16.2673
1608	Soaking Hand	*	10.3167	10.3167	10.3167
1609	Soaking Feet	*	14.7400	14.7400	14.7400
1610	Hot Compress	3.0833	3.0833	3.0833	3.0833
1611	Cold Compress	7.5625	7.5625	7.5625	7.5625
1612	Sitz Bath	*	*	*	*

	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
1613 Surgical Prep, Local	3.4300	3.4300	3.4300	3.4300
1614 Surgical Prep, 3-Way	*	*	16.6240	16.6240
1615 Wound Culture	.8200	.8200	.8200	.8200
1616 Heat Lamp	.9218	.9218	.9218	.9218
1617 Back Rub	*	3.2350	3.2350	3.2350
1618 Hot Compress - Continuous Application	2.0200	2.0200	2.0200	2.0200
1619 Air Floatation/Alternating Pressure Mattress	*	6.5762	6.5762	6.5762
1620 Isolation, Gowning & Gloving	1.3916	1.3916	1.3916	1.3916
1621 Death Care	18.1200	18.1200	18.1200	18.1200
1622 Suture/Skin Clip Removal, <15	6.2138	6.2138	6.2138	6.2138
1623 Application of K-Pad	1.2000	1.2000	1.2000	1.2000

EENT:

1701 Eye Care	3.2625	3.2625	3.2625	3.2625
1702 Irrigation - Eye	2.5233	2.5233	2.5233	2.5233
1703 Irrigation - Ear	9.3200	9.3200	9.3200	9.3200
1704 Irrigation - Throat	*	*	*	*
1705 Instillation of Drops - Eye	.6210	.6210	.6210	.6210
1706 Instillation of Drops - Ear	.7976	.7976	.7976	.7976
1707 Instillation of Drops - Nose	.8200	.8200	.8200	.8200
1708 Culture - Nose	.4600	.4600	.4600	.4600
1709 Culture - Throat	.4200	.4200	.4200	.4200
1710 Culture - Sputum	2.3000	2.3000	2.3000	2.3000

Neurological/Skeletal:

1801 Pin Care	*	7.3963	7.3963	7.3963
1802 Head Tongs Care	*	*	*	*
1803 Bed Cradle	1.4425	1.4425	1.4425	1.4425
1804 Foot Board	.7125	.7125	.7125	.7125
1805 Ice Pack	.6960	.6960	.6960	.6960
1806 Extremity Traction - Application	3.4100	3.4100	3.4100	3.4100
1807 Extremity Elevation	.9511	.9511	.9511	.9511
1808 Cast Care	1.0340	1.0340	1.0340	1.0340
1809 Extremity Traction - Adjust	2.5445	2.5445	2.5445	2.5445
1810 Seizure Care	11.2300	11.2300	11.2300	11.2300
1811 Circulation Check	1.2037	1.2037	1.2037	1.2037

Urological/Gynecological:

1901 Catheterization - Foley	14.9700	14.9700	14.9700	14.9700
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	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
1902 Catheterization - Straight	11.1567	11.1567	11.1567	11.1567
1903 Foley Catheter Care	4.2233	4.2233	4.2233	4.2233
1904 Urine Specimen - Routine	1.7167	1.7167	1.7167	1.7167
1905 Urine Specimen - Clean Catch/Foley	3.1240	3.1240	3.1240	3.1240
1906 Perineal Care	*	*	2.3750	2.3750
1907 Foley Catheter Removal	2.9250	2.9250	2.9250	2.9250
1908 Douche	*	*	*	*
1909 Dilatation and Curettage	*	*	*	*
1910 Vaginal/Pelvic Examination	*	*	*	*
1911 Urinary Bladder Training	.6300	.6300	.6300	.6300
1912 Condom Catheter Application	3.2076	3.2076	3.2076	3.2076
1913 Peritoneal Dialysis - Initiation	18.6000	18.6000	18.6000	18.6000
1914 Peritoneal Dialysis - Exchange of Solutions	20.9615	20.9615	20.9615	20.9615
1915 Peritoneal Dialysis - Removing Dialysis Catheter	6.7500	6.7500	6.7500	6.7500
1916 Bladder Irrigation	4.0185	4.0185	4.0185	4.0185

Body Temperature Regulation:

2001 Sponging	14.1275	14.1275	14.1275	14.1275
2002 Hypothermia/Hyperthermia Treatment	5.3300	5.3300	5.3300	5.3300

Medication Administration:

2101 Oral	1.4681	1.4681	1.4681	1.4681
2102 Intramuscular	.9180	.9180	.9180	.9180
2103 Subcutaneous	1.1967	1.1967	1.1967	1.1967
2104 Suppository, Rectal/Vaginal	.8891	.8891	.8891	.8891
2105 Topical	.8791	.8791	.8791	.8791
2106 Sublingual	*	*	*	*

Diagnostic Test:

2201 Bone Marrow Aspiration	15.9550	15.9550	15.9550	15.9550
2202 Lumbar Puncture	15.6628	15.6628	15.6628	15.6628
2204 Urine Testing - Protein	1.0554	1.0554	1.0554	1.0554
2206 Urine Testing - Specific Gravity	.8959	.8959	.8959	.8959
2207 Urine Testing - Sugar & Acetone	1.3319	1.3319	1.3319	1.3319
2208 Liver Biopsy	*	*	*	*

		<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
2209	Guaiac Testing - Feces/Vomit/GI Drainage	.9065	.9065	.9065	.9065
2210	Collection of Feces Sample	1.2750	1.2750	1.2750	1.2750
2211	Hematocrit	5.0100	5.0100	5.0100	5.0100

PATIENT TEACHING/NEONATAL AND PEDIATRIC FAMILY INSTRUCTION

2301	Teaching - Medication Administration	19.5881	19.5881	19.5881	19.5881
2302	Teaching - Colostomy Care	8.7800	8.7800	8.7800	8.7800
2303	Teaching - Postural Drainage	*	*	*	*
2304	Teaching - Urine Testing	1.2580	1.2580	1.2580	1.2580
2305	Teaching - Blow Bottles/Incentive Spirometer	*	2.6800	2.6800	2.6800
2306	Teaching - Dietary Explanation	5.6200	5.6200	5.6200	5.6200
2307	Teaching - Preoperative Instruction	40.0000	40.0000	40.0000	40.0000
2308	Teaching - Diagnostic Test	1.0804	1.0804	1.0804	1.0804
2309	Teaching - Disease/Condition Related	4.4452	4.4452	4.4452	4.4452
2310	Teaching - Chemotherapy Instruction	*	*	*	*
2311	Teaching - Dressing Change	2.5800	2.5800	2.5800	2.5800
2312	Teaching - Insulin Administration	7.7529	7.7529	7.7529	7.7529
2313	Teaching - Diabetic	10.9200	10.9200	10.9200	10.9200
2314	Teaching - Ileostomy/Ileocolectomy Care	12.9100	12.9100	12.9100	12.9100

OBSTETRICAL

2401	Vulvar/Anal Area Prep	*	*	*	*
2402	Support During Contraction	*	*	*	*
2403	Dilatation and Effacement Assessment	*	*	*	*
2404	Dilatation and Effacement Assessment, Assisting Physician	*	*	*	*
2405	Fetal Electrode Insertion, Assisting Physician	*	*	*	*
2406	Intrauterine Catheter Insertion, Assisting Physician	*	*	*	*
2407	Intrauterine Catheter Insertion	*	*	*	*
2408	Intrauterine Catheter Insertion, Assisting Physician	*	*	*	*
2409	Internal or External Monitoring - Uterine Contraction/Fetal Heart Tones	*	*	*	*
2410	Manual Contraction Assessment	*	*	*	*
2411	Pitocin Induction, Assisting Physician	*	*	*	*

		<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
2412	Fetal Heart Tones, Manual	*	*	*	*
2413	Fetal Heart Tones, Doppler	*	*	*	*
2414	Fetal Scalp Sampling	*	*	*	*
2415	Routine Delivery Room Functions	*	*	*	*
2416	Fundus Massage	*	*	*	*
2417	Changing Perineal Pad	*	*	*	*
2418	Perineal Suture Care	*	*	*	*
2419	Teaching - Perineal Suture Care	*	*	*	*
2420	Teaching - Breast Care	*	*	*	*
2421	Oxytocin Challenge Test	*	*	*	*
2422	Non-Stress Test	*	*	*	*
2423	Amniotomy	*	*	*	*
2424	Amniocentesis	*	*	*	*
2425	Newborn Identification Procedure	1.2000	*	*	*
2426	Teaching - Breast Feeding	11.5500	*	*	*
2427	Pitocin Induction	*	*	*	*
2428	Tocotransducer - Application	*	*	*	*
2429	Ultrasonic Transducer - Application	*	*	*	*
2430	Fetal Electrode Insertion/Intrauterine Catheter Insertion	*	*	*	*
2431	Fetal Electrode Insertion/Intrauterine Catheter Insertion, Assisting Physician	*	*	*	*
2432	Tocotransducer and Ultrasonic Transducer - Application	*	*	*	*
2433	Observation and Assessment, Second Stage of Labor	*	*	*	*
2434	Labor Room Examination and Preparation, Routine	*	*	*	*
2435	Adjust Ultrasonic Transducer/Tocotransducer	*	*	*	*
2436	Monitoring Fetal Heart Tones, Ultrasonic Transducer	*	*	*	*
2437	Monitoring Fetal Heart Tones, Ultrasonic Transducer and Uterine Contraction, Tocotransducer	*	*	*	*
NEONATAL - PEDIATRIC					
2501	Feeding - Graduated Feeder, Premature	16.6653	*	*	*
2502	Feeding - Bottle	16.3230	16.3230	*	*
2503	Feeding - Oral-Gastric Tube	7.1606	*	*	*
2504	Feeding - Oral-Jejunostomy Tube	7.1606	*	*	*

	<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
2505 Assessing Gastric Residual	1.3909	1.3909	1.3909	1.3909
2506 Bubbling Baby, Eructate	1.5326	*	*	*
2507 Diaper Change	1.3048	1.3048	*	*
2508 Urine Collection Bag - Application	1.4410	1.4410	*	*
2509 Changing Linens, Newborn	2.1003	*	*	*
2510 Holding Baby - Newborn/Infant	8.7565	8.7565	8.7565	*
2511 Radiant Warmer - Application	2.6643	*	*	*
2512 Isolette - Application	1.6233	*	*	*
2513 Temperature Regulation - Plastic Wrap Application	*	*	*	*
2514 Body Temperature Regulation - K-Pad Application	2.0900	*	*	*
2515 Temperature Probe - Application/Exchange	.6831	*	*	*
2516 Oxyhood - Application/Replacement	.4990	*	*	*
2517 Oxygen Analyzer - Utilization	.7523	*	*	*
2518 Phototherapy Treatment - Application	1.8158	*	*	*
2519 Abdominal Girth Measurement	.9722	*	*	*
2520 Chest Measurement	.4251	*	*	*
2521 Body Length Measurement	.5051	*	*	*
2522 Head Circumference Measurement	.6228	*	*	*
2523 Body Weight - Neonate/Infant	1.6983	1.6983	1.6983	*
2524 Umbilical Cord - Care	.6941	*	*	*
2525 Prophylactic Eye Care	.9419	*	*	*
2526 Blood Pressure - Arterionde	1.8023	1.8023	1.8023	*
2527 Blood Pressure - Umbilical Artery	.6506	*	*	*
2528 Pulmonary Assessment	2.9552	2.9552	*	*
2529 Reflex Assessment Newborn	2.0258	*	*	*
2530 Blood Sample - Heel Stick	6.1220	*	*	*
2531 Blood Sample - xtrostick	2.4752	*	*	*
2532 Intravenous Infusion - Initiating Scalp Vein	15.2153	*	*	*
2533 Intravenous/Arterial Infusion - Umbilical Cannulation	22.1193	*	*	*
2534 Intravenous/Arterial Infusion - Removing Umbilical Catheter	2.4200	*	*	*
2535 Intravenous/Arterial Infusion - Transfusion Exchange	183.6800	*	*	*
2536 Ventricular Tap	18.5663	*	*	*
2537 Bladder Tap	2.8440	*	*	*
2538 Circumcision	20.1806	*	*	*
2539 Newborn Septic Work-Up	6.8867	*	*	*

		<1-2 Yrs Group I	3-5 Yrs Group II	6-11 Yrs Group III	12-15 Yrs Group IV
2540	Physical Examination	9.3400	9.3400	9.3400	9.3400
2541	Shirt Change	1.1484	1.1484	*	*
2542	Umbilical Cord - Culture	.6740	*	*	*
2543	Initial Newborn Assessment	2.2200	*	*	*
2544	Umbilical Cord - Clamp Application/Removal	.7620	*	*	*

PSYCHIATRIC

2601	One Hour of One-on-One Observation - Arms Length	*	*	*	*
2602	One Hour of One-on-One Observation - Constant/Close	*	*	*	*
2603	Situational Observation	*	*	*	*
2604	Group Therapy	*	*	*	*
2605	Appearance, Behavior and Conversation Assessment	*	*	*	*
2606	Extrapyramidal Syndrome Assessment	*	*	*	*
2607	Patient Government Session	*	*	*	*
2608	Planned Recreational Activity Session	12.7200	12.7200	12.7200	12.7200
2609	Leather Restraint Application - Two Point	*	*	*	*
2610	Leather Restraint Application - Four Point	*	*	*	*
2611	Body Restraint Application	*	*	*	*
2612	Physically Restraining Patient	*	*	*	*
2613	Placing Patient into Seclusion Room	*	*	*	*
2614	Electroconvulsive Therapy	*	*	*	*
2615	Individual Support Therapy - All Nursing Personnel	*	*	*	*
2616	Individual Therapy - Contact Interview/Primary Therapist	*	*	*	*
2617	Occupational Therapy, Nursing Support Required	*	*	*	*
2618	Intake Interview, Interdisciplinary	*	*	*	*
2619	Intake Interview, Admission	*	*	*	*

GASTROINTESTINAL ASSESSMENT

2701	Bowel Sound Assessment	1.7076	1.7076	1.7076	1.7076
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* No measurements were obtained for these nursing care activities during the data collection period/inappropriate for Pediatrics

APPENDIX I

Minimal Essential Mean Tasking Time in Minutes for Each
Direct Nursing Care Activity by Sex of the Adult Patient

Appendix I
Nursing Care Hour Standards
Minimal Essential Mean Tasking Time in Minutes For Each
Direct Nursing Care Activity by Sex of the Adult Patient

Code: 1 = Male
2 = Female

NURSING CARE ACTIVITIES

ACTIVITIES OF DAILY LIVING

Hygiene:

	Sex	Mean	Std. Dev.	Variance	N
0101 Bathing, Complete	1	19.38	6.77	45.78	170
	2	21.36	6.77	45.82	112
0102 Bathing, Assist with Back and Legs	1	12.69	4.96	24.59	115
	2	11.89	6.56	43.09	73
0103 Oral Hygiene	1	3.47	1.88	3.52	56
	2	3.05	1.60	2.57	65
0104 AM Care	1	7.05	2.58	6.61	52
	2	6.83	1.60	2.55	30
0105 PM Care	1	10.15	4.02	16.15	42
	2	11.35	4.31	18.56	35
0106 Nail Care	1	3.91	.48	.23	2
	2				0
0107 Shampoo	1	9.30	4.26	18.15	8
	2	10.56	4.75	22.54	10
0108 Shaving	1	6.25	2.89	8.37	146
	2				0
0109 Occupied Bed	1	9.61	3.33	11.12	205
	2	9.93	3.98	15.86	79
0110 Unoccupied Bed	1	6.08	1.65	2.72	282
	2	6.14	2.04	4.14	236
0111 Changing Bottom Sheet	1	2.88	1.79	3.19	5
	2	3.87	1.75	3.07	6
0112 AM Care, Utensils Provided	1	2.39	1.30	1.70	69
	2	2.18	.82	.67	36
0113 Bathing, Utensils Provided	1	2.39	.93	.87	121
	2	2.82	1.14	1.29	52
0114 AM Care, Partial	1	4.30	2.17	4.71	36
	2	4.39	1.53	2.36	27
0115 Sitting Shower/Shower With Assistance	1	15.56	5.78	33.41	30
	2	18.41	5.84	34.17	23

		Sex	Mean	Std. Dev	Variance	N
0116	Tub Bath	1	18.35	7.34	53.95	11
0117	Changing Top Sheet	2	16.14	2.63	6.96	2
		1	1.55	.68	.47	4
0118	Changing Bed Linen	2	1.30	.90	.80	8
	Protector/Chux	1	1.37	.75	.57	29
		2	.93	.88	.78	135

Nutrition:

0201	Feeding	1	16.40	7.75	60.14	96
0202	Fluid	2	15.61	8.17	66.75	42
		1	1.24	1.67	2.79	103
0203	Snack	2	.75	.77	.59	150
		1	.83	.95	.91	36
		2	.88	.76	.57	17
0204	Serving Meal Tray, Preparation Required	1	2.87	1.67	2.79	220
0205	Special Feeding - Nasogastric	2	2.35	1.34	1.80	116
		1	4.14	2.02	4.09	53
0206	Special Feeding - Gastrostomy	2	3.87	.82	.68	4
		1	3.24	1.08	1.19	21
0207	Special Feeding - Hyperalimentation	2	2.75	.00	.00	1
		1	6.12	4.85	23.49	46
	Intravenous	2	7.98	5.74	32.94	23
0208	Measuring and Recording Intake	1	1.00	1.27	1.62	193
		2	.89	.37	.14	108
0209	Special Feeding - Nasogastric, Continuous Infusion Pump	1	3.98	3.13	9.80	40
0210	Special Feeding - Nasogastric, Continuous with Gastric Feeding Equipment	2	3.17	1.88	3.54	32
		1	4.77	5.79	33.51	18
0211	Serving Meal Tray, No Preparation Required	2	3.28	1.92	3.71	12
		1	.36	.44	.20	272
		2	.47	.56	.31	254

Elimination:

0301	Measuring and Recording Output - Urine	1	1.02	.82	.67	253
0302	Measuring and Recording Output - Liquid Feces	2	1.15	.97	.93	236
		1	1.06	.53	.28	3
		2	1.30	.46	.21	6

	Sex	Mean	Std. Dev.	Variance	N
0303	1	1.20	.41	.17	4
	2	.56	.19	.04	5
0304	1	1.70	1.00	1.01	77
	2	1.69	1.26	1.59	77
0305	1	2.86	1.00	1.01	60
	2	2.60	1.33	1.77	191
0306	1	1.95	.85	.73	133
	2				0
0307	1	7.40	4.43	19.65	72
	2	6.61	3.51	12.35	38
0308	1	1.63	.00	.00	1
	2	.55	.04	.00	2

MOBILITY

Mobility:

0401	1	6.35	3.73	13.94	16
	2	4.80	3.03	9.21	66
0402	1	2.35	1.30	1.68	12
	2	1.77	1.31	1.72	18
0403	1	2.55	1.71	2.94	234
	2	2.35	1.70	2.90	154
0404	1	4.01	3.20	10.25	47
	2	3.49	2.34	5.50	74
0405	1	5.37	3.51	12.31	55
	2	3.82	3.06	9.38	155
0406	1	2.00	1.47	2.16	14
	2	1.58	1.83	3.37	10

Changing Position:

0501	1	2.09	1.25	1.57	133
	2	2.16	1.80	3.25	134
0502	1	.45	.37	.13	199
	2	.54	1.02	1.05	161
0503	1	9.22	2.82	7.98	84
	2	8.47	2.83	7.99	29

	Sex	Mean	Std. Dev.	Variance	N
0504	1	2.78	1.86	3.45	150
	2	2.20	1.08	1.69	173
0505	1	.34	.41	.17	123
	2	.31	.30	.09	93
0506	1	1.12	.76	.58	52
	2	1.60	1.45	2.12	25
0507	1	1.02	.64	.40	36
	2	1.10	.55	.30	26

Exercising:

0601	1	8.07	2.61	6.81	2
	2	5.07	.00	.00	1
0602	1	6.03	3.93	15.44	11
	2	6.14	1.39	1.94	4

PSYCHOLOGICAL

0701	1	5.18	5.70	32.55	73
	2	4.30	3.15	9.94	56
0702	1	1.83	1.28	1.65	117
	2	1.67	1.11	1.24	138
0703	1	1.01	.96	.92	252
	2	1.00	1.10	1.21	223
0704	1	2.24	4.16	17.33	286
	2	1.95	2.83	7.99	256

PHYSIOLOGICAL PARAMETERS

Vital Signs:

0801	1	1.03	.35	.12	445
	2	1.07	.40	.16	432
0802	1	.67	.29	.08	144
	2	.63	.25	.06	219
0803	1	1.33	.35	.12	143
	2	1.32	.40	.16	64
0804	1	.63	.34	.11	104
	2	.71	.36	.13	57

	Sex	Mean	Std. Dev.	Variance	N
0805	1	.95	.37	.14	167
	2	.99	.44	.19	192
0806	1	1.68	.72	.51	77
	2	1.83	.71	.51	37
0807	1	.97	.17	.03	30
	2	1.04	.48	.23	17
0808	1	1.33	.60	.36	655
	2	1.33	.56	.31	366
0809	1	1.10	.36	.12	89
	2	1.02	.43	.19	7
0810	1	3.25	1.59	2.52	15
	2				0

Body Weight/Selected Measurements:

0901	1	1.29	.97	.94	229
	2	1.12	.77	.59	137
0902	1	5.45	2.60	6.75	89
	2	6.13	2.54	6.43	48
0903	1	2.49	2.87	8.24	13
	2	1.43	.55	.30	8
0904	1	.74	.27	.07	34
	2	.98	.25	.06	4

Cardiac Activity:

1001	1	2.12	1.22	1.50	82
	2	2.07	1.46	2.12	29
1002	1	.88	.38	.14	145
	2	.90	.44	.19	69
1003	1	10.24	2.71	7.37	48
	2	10.52	4.03	16.23	23
1004	1	2.45	1.37	1.89	10
	2	1.82	.93	.86	2
1005	1	1.21	.42	.17	62
	2	1.44	.77	.60	29
1006	1	1.06	.49	.24	67
	2	1.18	.47	.22	16
1007	1	.68	.20	.04	32
	2				0

	Sex	Mean	Std. Dev.	Variance	N
1008	1 2	.87 .58	.33 .26	.11 .07	56 16
1009	1 2	1.19 1.80	.52 1.58	.27 2.50	45 20
1010	1 2	1.80 7.55	1.12 1.12	1.27 1.27	24 24
1011	1 2	9.51 5.47	3.09 .00	9.53 .00	12 1
1012	1 2	6.01 1.01	.44 .51	.19 .26	2 20
	2	.82	.20	.04	11

Neurological Assessment:

1101	1 2	.63 .77	.32 .47	.10 .22	125 33
1102	1 2	.72 .96	.39 .31	.15 .10	45 21
1103	1 2	1.25 1.91	.83 1.29	.70 1.67	11 2
1104	1 2	.97 1.07	.44 .91	.19 .83	71 19
1105	1 2	1.09 1.49	.47 .67	.22 .45	108 29

Respiratory Assessment:

1201	1 2	6.33 1.61	.00 .67	.00 .45	0 1
1202	1 2	1.85	.76	.57	74 46

Gastrointestinal Assessment:

2701	1 2	1.39 1.66	.39 .80	.15 .64	32 25
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THERAPEUTIC ACTIVITIES/MODALITIES

Gastrointestinal:

	Sex	Mean	Std. Dev.	Variance	N
1301	1	7.10	4.30	18.51	32
	2	9.91	11.06	122.36	15
1302	1	1.97	1.01	1.02	25
	2	1.79	2.05	4.20	21
1303	1	1.89	1.21	1.47	12
	2	1.07	.54	.29	13
1304	1	11.71	7.21	51.96	15
	2	3.54	2.16	4.68	89
1305	1	1.90	.88	.77	11
	2	1.83	.81	.66	55
1306	1	7.27	.00	.00	1
	2	26.08	12.49	156.01	6
1307	1	6.45	2.55	6.53	6
	2	9.75	2.75	7.55	7
1308	1	21.93	16.70	279.03	8
	2	16.65	.00	.00	1
1309	1	12.38	3.14	9.88	3
	2	31.96	9.35	87.48	4
1310	1	8.04	1.77	3.13	8
	2	8.08	.00	.00	1
1311	1	2.46	1.48	2.19	58
	2	2.35	1.25	1.56	38
1312	1	3.60	1.18	1.39	3
	2	2.03	.88	.78	5
1313	1	21.74	3.87	15.01	2
	2	22.00	.00	.00	1
1315	1	20.17	.00	.00	1
	2				0
1316	1				0
	2	4.03	.00	.00	1
1317	1	2.02	.00	.00	1
	2	3.97	.00	.00	1

Respiratory:

1401	1	.83	.31	.10	5
	2	1.59	1.43	2.05	8

	Sex	Mean	Std. Dev.	Variance	N
1402	1	.92	.56	.31	51
	2	1.07	.65	.42	40
1403	1	.72	.56	.31	70
	2	.94	1.52	2.31	46
1404	1	1.34	.73	.54	9
	2	5.41	7.15	51.21	2
1406	1	13.98	6.31	39.87	6
	2	6.27	.72	.51	3
1407	1	9.48	5.25	27.62	8
	2				0
1408	1	5.90	2.90	8.43	27
	2	6.53	1.27	1.62	8
1409	1	3.67	1.18	1.40	20
	2	3.62	.94	.89	7
1411	1	1.63	1.36	1.84	79
	2	1.73	1.15	1.31	40
1412	1	2.76	1.17	1.37	67
	2	3.11	.86	.74	21
1413	1	3.38	1.05	1.10	14
	2	5.65	.00	.00	1
1414	1	3.95	1.80	3.26	50
	2	3.19	.91	.83	38
1415	1	6.80	2.23	4.98	9
	2	11.56	4.75	22.54	3
1416	1	33.75	.00	.00	1
	2				0
1417	1	26.63	6.81	46.37	13
	2	24.77	4.85	23.54	3
1418	1	3.92	.85	.72	11
	2	3.36	1.00	1.01	63
1419	1	2.57	1.15	1.31	61
	2	2.00	.98	.97	64
1420	1	3.44	1.71	2.92	35
	2	2.58	.90	.82	43
1421	1	17.00	6.98	48.74	6
	2	17.72	22.75	517.73	5
1422	1	3.96	1.55	2.41	110
	2	4.34	2.16	4.68	63
1423	1	5.92	3.58	12.81	32
	2	6.81	2.58	6.68	31
1424	1	1.56	.92	.85	3
	2	.77	.00	.00	1

		Sex	Mean	Std. Dev.	Variance	N
1428	Chest Tube - Insertion	1	30.93	12.01	144.23	11
1429	Chest Tube - Removal	2	27.39	15.88	252.08	3
1430	Extubation	1	5.83	1.88	3.54	10
1431	Bronchoscopy	2	3.77	.00	.00	1
		1	2.56	1.08	1.16	3
		2	2.83	1.03	1.04	3
		1	20.32	10.13	102.60	3
		2				0

Cardiovascular:

1501	Venipuncture - Blood Sample	1	3.65	2.22	4.94	229
1502	Venipuncture - Blood Culture	2	3.39	1.97	3.90	216
1503	Arterial Puncture - Blood Gases	1	4.76	1.74	3.03	45
1504	Intravenous Infusions - Flow Rate	2	5.13	2.80	7.83	62
1505	Intravenous Infusion - Initiating	1	5.19	3.56	12.71	38
1506	Intravenous Infusion - Changing IV Bottle	2	5.17	4.03	16.28	43
1507	Intravenous Infusion - IV Push Medication	1	.68	.56	.32	203
1508	Intravenous Infusion - IV Catheter Care	2	.82	.99	.98	209
1509	Intravenous Infusion - Piggy-Back Medication	1	10.73	8.08	65.31	102
1510	Intravenous or Arterial Line Termination	2	8.42	5.47	29.89	185
1511	Intravenous Infusion - Elastic Stockings	1	1.74	1.02	1.04	161
1512	Ace Bandage	2	1.58	.82	.68	203
1513	Intravenous Infusion - Blood	1	1.68	1.18	1.49	124
1514	Intravenous/Arterial Line - Blood Sample	2	2.24	1.85	3.42	156
1515		1	9.91	5.68	32.23	110
		2	11.20	5.96	35.49	79
		1	1.66	1.16	1.36	230
		1	1.91	1.37	1.87	167
		1	4.10	2.88	8.32	137
		2	3.17	1.98	3.91	159
		1	3.86	2.38	5.64	48
		2	3.91	2.05	4.22	68
		1	3.38	1.38	1.91	61
		2	3.45	.84	.71	38
		1	3.47	2.02	4.10	8
		2	3.50	.49	.24	4
		1	3.54	1.44	2.08	52
		2	4.13	2.33	5.47	21
		1	3.07	1.82	3.33	60
		2	3.08	1.38	1.91	41

		Sex	Mean	Std. Dev.	Variance	N
1516	Arterial Line - Transducer Exchange	1	18.62	6.67	44.46	20
1517	Arterial Line - Arterial Line Setup	2	14.04	4.39	19.25	20
1518	Arterial Line - Swan Ganz Catheter Setup	1	14.72	3.88	15.03	4
1520	Intravenous Infusion - Platelets/Plasma	2	19.65	12.08	145.84	4
1521	External Pacemaker	1	30.66	31.59	997.70	2
		2	35.08	43.03	1851.60	3
		1	3.80	1.47	2.15	21
		2	1.20	.18	.03	2
		1	10.02	3.26	10.63	2
1522	Cardiopulmonary Resuscitation	2				0
		1	65.70	60.96	3716.21	9
		2	51.99	80.62	6498.97	3
1523	Cardioversion	1	20.02	6.41	41.06	5
1526	Swan Ganz Catheter Initiation	2	27.29	11.69	136.57	3
1527	Swan Ganz Catheter Removal	1	54.88	27.44	752.91	7
		2	60.72	26.87	721.98	6
		1	7.43	1.66	2.75	4
		2	5.81	.86	.74	2
1528	Arterial Line - Initiation	1	43.26	27.10	734.41	6
1529	Surgical Intravenous Initiation, Cut Down	2	41.45	29.31	859.36	10
		1	32.63	17.91	320.91	6
		2	78.18	57.11	3261.89	2
<u>Skin:</u>						
1601	Decubitus Care	1	9.01	6.46	41.76	56
1602	Skin Care	2	6.68	5.67	32.19	14
		1	2.40	1.42	2.02	4
1603	Suture/Skin Clip Removal, ≥ 15	2	4.37	3.67	13.48	9
		1	16.37	8.49	72.02	20
1604	Small Dressing Change, $< 4" \times 8"$	2	10.91	4.33	18.71	11
		1	6.09	3.94	15.50	113
1605	Large Dressing Change, $\geq 4" \times 8"$	2	6.49	4.96	24.57	25
		1	11.88	8.45	71.48	113
1606	Reinforcing Dressing	2	10.07	4.23	17.91	45
		1	3.90	2.17	4.70	18
		2	2.48	.52	.27	6
1607	Wound Irrigation	1	12.22	6.45	41.66	104
		2	14.28	7.56	57.21	35

	Sex	Mean	Std. Dev.	Variance	N
1608	1	11.76	6.31	39.87	2
	2	7.42	.00	.00	1
1609	1	7.24	3.42	11.73	4
	2	4.20	.00	.00	1
1610	1	2.36	1.35	1.83	12
	2	3.10	2.11	4.45	15
1611	1	8.70	9.86	97.28	3
	2	4.15	.00	.00	1
1612	1	12.67	6.53	42.64	7
	2	9.32	3.50	12.23	11
1613	1	12.33	11.39	129.86	24
	2	10.40	4.54	20.64	54
1614	1	12.32	.00	.00	1
	2	8.17	5.26	27.70	4
1615	1	2.31	1.71	2.93	9
	2				0
1616	1	1.48	.88	.77	18
	2	1.69	.72	.52	27
1617	1	3.01	1.26	1.59	60
	2	2.93	1.20	1.46	48
1619	1	8.29	3.21	10.28	4
	2	4.86	2.91	8.49	4
1620	1	1.43	.59	.35	93
	2	1.63	.90	.80	18
1621	1	23.86	12.74	162.45	11
	2	20.23	6.47	41.84	4
1622	1	5.29	3.06	9.39	10
	2	7.36	3.38	11.45	8
1623	1	1.24	.12	.01	3
	2	1.67	.82	.67	3
EENT:					
1701	1	1.96	1.08	1.18	29
	2	2.43	.95	.90	11
1702	1	5.08	.00	.00	1
	2				0
1704	1	.18	.00	.00	0
	2	.84	.41	.17	1
1705	1	.66	.25	.06	27
	2				18

	Sex	Mean	Std. Dev.	Variance	N
1706	1	.67	.33	.11	9
1707	2	.94	.63	.40	8
1707	1	.23	.00	.00	1
1708	2				0
1708	1	.24	.05	.00	4
1709	2	.28	.00	.00	1
1709	1	.61	.34	.12	16
1710	2	.70	.22	.05	7
1710	1	2.66	1.97	3.90	7
1710	2	1.05	.00	.00	1
<u>Neurological/Skeletal:</u>					
1801	1	7.85	3.13	9.80	63
1802	2	5.95	4.11	16.90	20
1802	1	6.17	2.30	5.28	35
1803	2				0
1803	1	1.39	1.14	1.29	7
1804	2	1.82	.00	.00	1
1804	1	.47	.11	.01	2
1805	2	.95	.89	.79	2
1805	1	.85	.39	.15	130
1805	2	.73	.67	.45	90
1806	1	6.12	.00	.00	1
1807	2	3.15	.07	.00	2
1807	1	.90	.38	.15	102
1808	2	.94	.50	.25	46
1808	1	1.12	.65	.42	67
1809	2	1.08	.46	.21	18
1809	1	2.54	2.72	7.38	24
1810	2	2.55	1.36	1.84	5
1810	1	5.17	2.93	8.60	6
1811	2	4.31	.76	.58	3
1811	1	.67	.28	.08	134
1811	2	.63	.24	.06	26
<u>Urological/Gynecological:</u>					
1901	1	9.19	4.65	21.67	18
1901	2	7.34	4.87	23.75	35

		Sex	Mean	Std. Dev.	Variance	N
1902	Catherization - Straight	1	12.39	4.37	19.07	3
1903	Foley Catheter Care	2	5.81	2.15	4.62	26
		1	4.74	2.20	4.82	106
1904	Urine Specimen - Routine	2	3.96	2.13	4.53	76
		1	1.65	.92	.85	52
1905	Urine Specimen - Clean	2	1.87	2.24	5.00	55
	Catch/Foley	1	2.53	1.00	1.00	21
1906	Perineal Care	2	1.83	1.29	1.67	42
		1				0
1907	Foley Catheter Removal	2	2.37	1.44	2.09	6
		1	3.24	2.63	6.93	32
1908	Douche	2	3.39	2.19	4.79	48
		1				0
1909	Dilatation and Curettage	2	1.86	1.56	2.45	31
		1				0
1910	Vaginal/Pelvic Examination	2	28.87	9.64	92.90	9
		1				0
1911	Urinary Bladder Training	2	5.67	4.12	16.96	32
		1	1.59	.46	.21	5
1912	Condom Catheter Application	2	.88	.23	.05	19
		1	3.21	2.55	6.49	17
1913	Peritoneal Dialysis -	2				0
	Initiation	1				0
1914	Peritoneal Dialysis - Exchange	2	32.33	13.69	186.82	2
	of Dialysis Solutions	1	20.96	1.88	3.55	59
1915	Peritoneal Dialysis - Removing	2	6.75	.00	.00	0
	Dialysis Catheter	1				1
1916	Bladder Irrigation	2	4.18	3.08	9.47	0
		1	3.85	3.06	9.39	13
		2				13
<u>Body Temperature Regulation:</u>						
2002	Hypothermia/Hyperthermia	1	4.03	.23	.05	2
	Treatment	2	6.62	7.42	55.02	2
<u>Medication Administration:</u>						
2101	Oral	1	.79	.78	.61	395
		2	.83	.63	.39	317

	Sex	Mean	Std. Dev.	Variance	N
2102	1	1.15	.49	.24	198
2103	2	1.29	.80	.64	241
2104	1	.86	.32	.10	148
2105	2	.98	.37	.14	81
2106	1	1.33	.72	.51	27
	2	1.56	.71	.51	47
	1	1.07	.75	.56	93
	2	1.65	2.40	5.74	32
	1	.49	.22	.05	88
	2	.50	.25	.06	28

Diagnostic Test:

2201	1	15.95	5.48	30.03	2
2202	2	18.23	5.81	33.80	0
2204	1	24.33	9.56	91.49	9
2206	2	.72	.12	.01	8
2207	1	.62	.39	.15	6
2208	2	.74	.41	.17	98
2209	1	.95	1.57	2.46	50
2210	2	1.80	.80	.63	43
2211	1	1.98	1.17	1.37	150
	2	13.86	4.48	20.12	89
	1	1.09	.45	.20	4
	2	1.03	.39	.15	0
	1	1.80	1.13	1.27	49
	2	1.35	.00	.00	34
	1	3.70	1.01	1.03	4
	2	3.81	5.08	25.88	1

Patient Teaching:

2301	1	20.17	7.47	55.83	15
2302	2	18.85	14.07	197.99	12
2304	1	8.78	.00	.00	1
	2	1.63	1.57	2.47	0
	1	.88	.49	.24	10
	2				10

	Sex	Mean	Std. Dev.	Variance	N
2305	1	2.89	1.65	2.72	7
	2	3.89	2.37	5.60	17
2306	1	1.83	2.35	5.54	2
	2	4.92	.00	.00	1
2307	1	13.37	9.45	89.34	53
	2	7.10	6.95	48.35	54
2308	1	.97	.69	.47	19
	2	1.32	.59	.35	9
2309	1	6.36	6.70	44.89	93
	2	6.05	5.16	26.68	212
2311	1	3.73	.76	.58	5
	2	11.04	5.61	31.51	3
2312	1	13.12	18.62	346.74	3
	2	3.72	2.04	4.17	4
2313	1	14.02	9.88	97.70	4
	2	13.09	9.41	88.64	3
2314	1	6.92	.00	.00	1
	2	18.90	.00	.00	1
<u>Psychiatric:</u>					
2601	1	60.00	.00	.00	48
	2	60.00	.00	.00	30
2602	1	60.00	.00	.00	6
	2	60.00	.00	.00	1
2603	1	22.36	35.99	1295.07	118
	2	42.75	68.91	4749.04	48
2604	1	7.22	2.65	7.03	210
	2	7.53	2.81	7.90	26
2605	1	2.33	1.48	2.19	159
	2	2.14	.84	.71	30
2606	1	1.55	.78	.62	49
	2	2.01	1.66	2.77	8
2607	1	7.17	4.19	17.58	245
	2	7.54	3.96	15.67	32
2608	1	15.94	15.14	229.28	291
	2	16.66	16.52	272.98	43
2609	1	5.93	7.73	59.76	3
	2				0

		Sex	Mean	Std. Dev.	Variance	N
2610	Leather Restraint	1	17.02	.00	.00	1
	Application - 4 Point	2				0
2613	Placing Patient into	1	5.43	3.51	12.35	2
	Seclusion Room	2				0