

NINCDS COLLABORATIVE
PERINATAL PROJECT
A User's Guide to the Project and Data

Volume II: Project Study Forms and Documentation of Transfer to Computerized Data Items in Master File

Part E: Neonatal Exams and Observations

December 1983

Prepared for the National Institute of Neurological and Communicative Disorders and Stroke under Contract 2311105150



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MINCDS COLLABORATIVE PERINATAL PROJECT: A USER'S GUIDE TO THE PROJECT AND DATA

Volume II. Project Study Forms and Documentation of Transfer to Computerized Data Items in Master File

Part E. Neonatal Exams and Observations

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INTRODUCTION

DOCUMENT OBJECTIVES AND READER ASSUMPTIONS

Volume II, Project Study Forms and Documentation of Transfer to Computerized Data Items in Master File, provides researchers with detailed documentation for how data were collected, coded and stored on the data base. Volume II will help investigators decide: if data were collected in a suitable way for addressing particular research questions; if revision of forms affected the collection of specific data items; if data were coded on master, variable or work files, or are available only on microfilm. The reader is assumed to be the principal investigator for a project in which data from the data base will be used.

DOCUMENT STRUCTURE

Because of its size, this volume is divided into ten separate parts, each containing material on a group of forms related by subject. Each part groups together similar study forms. Generally, a part covers a single time period. The parts do not correspond exactly to the hierarchical classification structure described in Volume I. The parts of Volume II inc'ude:

- A. Prenatal Record and Medical History
- B. Labor and Delivery
- C. Pathological Exams and Autopsies
- D. Family and Socioeconomic History
- E. Neonatal Exams and Observations
- F. Pediatric and Neurological Exams, Four Months One Year
- G. Pediatric Neurological Exams, Seven Years
- H. Psychological Exams, Eight Months
- I. Psychological Exams, Four Years and Seven Years
- J. Speech, Language and Hearing Exams, Three Years and Eight Years (Final)

This part of Volume II contains Part E: Neonatal Exams and Observations and includes Forms PED-1, PED-2, PED-3, PED-4 (ADM-44), PED-5, PED-6, PED-7 and PED-8.

To allow easy access to the data as they appear on the master file, all documentation for each form or form grouping representing a card series on the master file is identified by form number appearing at the bottom of each page. Forms are arranged in what may appear to be illogical numerical order in some cases, but the arrangement presented here ties forms and their revisions together and allows an investigator to trace an item through all revision cycles. Thus, in Part A of Volume II, OB-42 follows OB-9 and OB-10 appears next to OB-44 and OB-45. (For an explanation of how the master file was organized to result in this ordering, see the next section of the Introduction.)

All material related to a form is organized as a single unit within each part of Volume II. The material included for each form is given below in the order it appears:

- Descriptive Summary of Form. Includes purpose of form, history of use, revisions and location of records stored on Master File. A table is provided for each form (except those on microfilm only) showing the number of records available for each revision.
- Data Items Referencing Form. A list of all data items in computer files originating from form. List ordered by data item identification with reference to item number on form.
- Form. Copy of last revision of form.
- Form item numbers linked to data items. A list organized by form item numbers of all computerized data items originating from the form.
- Definition of codes. Coding instructions detailing the codes assigned to each computerized data item from the form.
- Master File Card Image. Illustrates transfer of data on form to Master File card.
- Instructions for Completing Form. The instructions used by study personnel to complete the form for each case.
- Earlier Forms or Manuals. Copies of earlier versions of forms or manuals that were used during the study.

MASTER FILE ORGANIZATION AND REVISION OF FORMS

Some understanding of how the master file was organized should aid investigators who want to trace the entry of data into computerized study files. The numbering system used both on forms and cards provides information on how data may be retrieved from the master file.

Forms

The first forms used in the study were the OB forms; as a consequence, this group of forms underwent the most revision. At first glance, it appears that forms disappear from the file and reappear in strange or bewildering places. In actuality, revisions were made according to a specific method.

Two types of revision and subsequent recodes appear in the master file, both of which appear in the OB series. In the first type of revision, radical changes in the concept of a form created a need for new coding in the computer file. Form OB-9, for example, was replaced by forms OB-40 (an optional form retained by the institution), OB-42, and OB-43 in April 1962. Data for earlier patients were recorded on OB-9 and entered on cards 1309, 2309, 3309 and 4309 of the master file; after April 1962, data was recorded on OB-42 and OB-43 and were entered on cards 0342, 1343 and 2343 of the master file.

In the second type of revision, the Collaborative Perinatal Task Force considered revisions important enough to warrant the distinction of a new form number, but considered the data for both forms to be similar enough to allow combining of data from both the old and new forms on the same card series. An example of this type of revision is form OB-35, replaced by OB-57 in April 1962. Records for both OB-35 and OB-57 are entered on cards O357, 1357, 2357, 3357, 4357, and 5357 in the master file.

In assigning numbers to forms and their revisions, designers of the study followed a plan: prenatal records, history, and summaries of the prenatal period received numbers 1 through 15; when revised, these forms were assigned numbers in the forties. Labor and hospital records appeared on the 30 series of forms. When these forms were revised, they were assigned numbers in the fifties. Some OB data in the master file were abstracted by NINCDS staff members from forms filled out at the hospital. Cards derived from this procedure were designated as coming from forms ADm-49, 50 and 51 (which were actually ABSTRACT SHEETS). Autopsy protocol and laboratory exams of the placenta were recorded on forms PATH-1, PATH-2 and PATH-3.

Forms for recording family health history and genetic information during pregnancy also received a fair amount of revision. Early records appear on forms FHH-1,2,3 and 4. With revisions in April 1963, form SE-1 replaces part of FHH-1 and FHH-3; FHH-2, FHH-4 and parts of FHH-1 and FHH-3 were replaced by

forms GEN-5 through GEN-8 in May 1961. Form FHH-9, initiated in November 1965 for collection of socioeconomic data at time the child was seven years of age, was not replaced or revised.

The PED series of forms underwent little revision. Records for newborn babies appeared in PED-1 through PED-8; records for children up to age one and interval records were placed on PED-10 through PED-29. Seven year records were included in the series numbered PED-74 and up. Only one pediatrics form was radically revised: PED-7 was replaced by PED-8 in March 1963.

No replacements occur in the PS series, where results of psychological and speech, language and hearing tests were recorded. The PS forms are divided into distinct groups based on time of testing and subject of testing. Psychological testing occurred at 8 months, 4 years and 7 years; speech, language and hearing exams were administered at ages 3 and 8. Only the 8 month psychological examination underwent substantial revisions.

Master File Card Number and NINDB Case Number Rationale

Computer cards for each NCPP study form are numbered to reflect their origin and possible revisions. Card numbers are assigned to identify the type of data (subject), the presence of multiple cards in a series, NCPP study form and form revisions. The first five digits of each card on the master file are the card number. The study forms and card numbers are given in Figure 1.

The first fourteen columns of each master file computer card contain the master file card number and the NINDB case number. Table 1 identifies the function of each of these columns.

Column 1 identifies multiple cards in a series. It contains a zero for cards unique to a particular form (that is, no other cards are present), for example OB-3, or for cards where repetitive data are contained. Cards for OB-2 are an example of this second type; no new categories of information are included on successive cards, but previous births in excess of four must be recorded on an add-on card. For card series where data entered are unique to a card and more than one card is required to complete the series, a "1" is used to designate the first card, for example CD-5. OB-57, PATH-2 and PED-14 are exceptions to these rules.

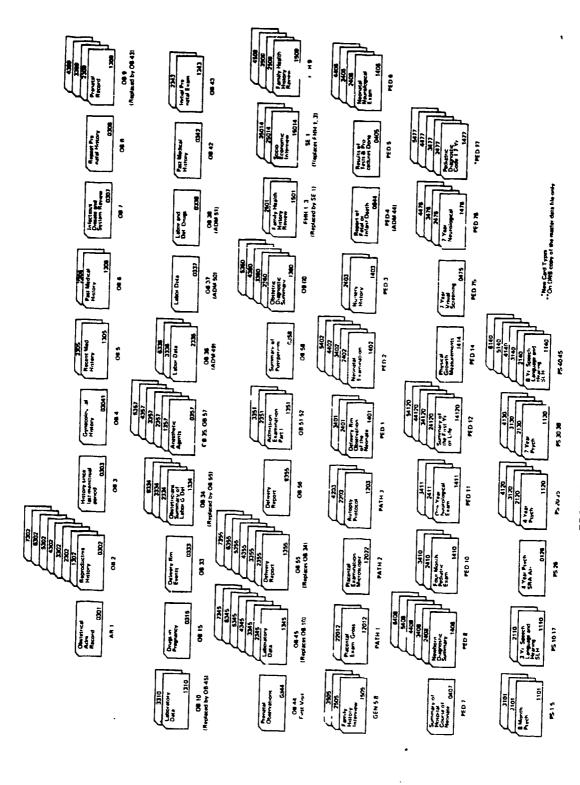


FIGURE 1. Cards on the Master Data File

TABLE 1. Derivation of Master File Card Number and NINDB Case Number.

Contents	Columns
Master File Card Number card identifier general subject matter form number revision code	1 2 3-4 5
NINDB Case Number collaborating institution type of patient selection gravida identification number order of the pregnancy identifies child or gravida	6-7 8 9-12 13 14

The second digit on the card reveals the general subject matter covered by data on the card. All cards containing information pertaining to obstetrics, for example, are designated by a "3" in column 2; family histories are designated by a "5"; pathology with a "2"; pediatrics, with a "4"; and psychological testing with a "1".

Columns three and four reveal the form number. In the case of forms where old and new forms having different numbers are included together, the number of the latest form appears on the master file. This rule does not apply to data abstracted from several forms by NINCDS staff (ADM forms).

Column 5 of the card contains a revision code indicating which form or combination of forms was used in arriving at data on a particular card. A typical card will have one to three revision codes, with a zero indicating the first version of a form and "1", "2", and "3" indicating later revisions. As a rule, revision codes used on cards differ from card to card; investigators should check the definition of codes μ rovided in Volume II to determine the meaning of revision codes used.

Each woman and child studied in the project received a unique case number (NINDB case number) composed of nine digits, recorded ir columns 6 through 14 of all master file cards. The case number identified the institution, the mother and the child. The first two digits represented the collaborating institution (see Table 2). The third digit indicated the type of patient

selection. A "1" was used for patients selected for the central core study; a "6" indicated that a patient had been transferred from one institution to another, and a "7" indicated that the patient was part of a special study undertaken by the collaborating institution. The fourth through seventh digits were used to identify the gravida, while the eighth digit identified the order of the pregnancy of a given gravida in the project. The ninth digit was used to identify the gravida or child of the pregnancy; "9" indicated the gravida, "0" indicated the child of a single birth, "1" indicated the first child of a multiple birth, "2" indicated the second child of a multiple birth, etc.

TABLE 2. Collaborating Institutions and Their Code Number (Columns six and seven of all master file cards.)

- 05 Boston, Massachusetts
 Harvard Medical School
 Boston Lying-In Hospital
 Children's Hospital Medical
 Center
- 10 Buffalo, New York University of Buffalo Children's Hospital
- 15 New Orleans, Louisiana Charity Hospital Tulane University School of Medicine Medical Center Louisiana State University
- 31 New York, New York
 Columbia University College
 of Physicians & Surgeons
 Columbia-Presbyterian
 Medical Center
- 37 Baltimore, Maryland The Johns Hopkins University School of Medicine The Johns Hopkins Hospital
- 45 Richmond, Virginia
 Virginia Commonwealth
 University
 Medical College of Virginia

- 50 Minneapolis, Minnesota University of Minnesota Hospital Health Sciences Center
- 55 New York, New York New York Medical College Metropolitan Hospital
- 60 Portland, Oregon University of Oregon Medical School
- 66 Philadelphia, Pennsylvania University of Pennsylvania Pennsylvania Hospital The Children's Hospital of Philadelphia
- 71 Providence, Rhode Island Brown University Child Study Center
- 82 Memphis, Tennessee
 University of Tennessee
 College of Medicine
 Gailor Hospital

Data Item Identification and Naming

The NCPP data base contains over 6700 different data items and blank filler locations on computer files. We have assigned each of these a unique identification and a terse, stylized name. Because names were chosen to facilitate use of this guide, they do not duplicate names used by NINDB during the active phase of the project. Users should consult appropriate documentation before using data items from the master, variable or work files (Volumes II, III and IV).

The data item identifiers consist of 11 characters. At the far left are four unique numbers that were assigned sequentially. The next character is always a period and is followed by up to six characters. For data items on the master file, these characters describe the data collection form from which a data item was derived; for data items on the variable (VAR) or work (WXX) files, these characters indicate the appropriate file. If the right side is less than six characters, periods are inserted as shown in these examples:

850OB-34	an item from OB-34; on the master file
3650.PATH-3	an item from PATH-3; on the master file
5223VAR	an item on the variable file
6340W-10	an item on work file 10, Rupture of Membranes

We assigned the numbers sequentially as they appear in Volume V. For the master file, we followed the order in which the cards would be found within an NINDB case. All card columns are accounted for by one of our data item identifications. For the variable and work files, the numbers were assigned in the order that data items appear within a case.

We categorized each data item according to the <u>person</u> to whom the data refer, by the <u>time</u> of measurement and/or the time to which the item applies and by general type or <u>subject</u> area (Table 3). Then we assigned names to the data items using the following guidelines:

- The name and the three associated categories had to stand alone they must describe the data item out of context.
- The first word in the data item name had to be an important or key word when all names were listed alphabetically as in Volumes VI and VII. Thus "cry, abnormal" was used rather than "abnormal cry" because a

researcher is more likely to look for this item under "C" than under "A" in an alphabetic list.

- Secondary key words were preceded with a semicolon to facilitate preparation of the permuted index. For example, "abruptio; placenta" will be found under both the "A" and "P" portion of Volume VI.
- Qualifying words are delimited by commas and will not appear as keywords in Volume VI. Thus "abruptio; placenta, degree" will not be found in the "D" section.
- If medical terminology or usage has changed since the study was conducted, modern terms may be included and will be enclosed in brackets. Thus "mongolism; [Down's syndrome]" will appear under both the "M" and "D" portions of Volume VI.
- If measurement units are associated with a data item name, they are enclosed in parentheses and placed at the end of the name as in "Birthdate (yr)."
- The categories (person, time and subject) are appended to the right of the data item name.

Definitions for each category used in naming data items are given in Table 4 at the end of this introduction. Additional information is found in Chapter 4 of Volume I.

Data item names thus assigned are terse and highly stylized; as we have already indicated, they are <u>not</u> the names used by NINDB during the active phase of the project. Our aim was to develop standardized names that would stand alone. These names are intended to facilitate a user's search for data items potentially useful in a research project. Before an item is used, a researcher should consult its complete description. For a data item from the master files. e.g., 850..0B-34, the data item should be traced to the appropriate study form, e.g., OB-34, located in Volume II. A variable file data item, e.g., 5223....VAR, is traced to Volume III, where it is defined and its original source given. A data item from a work file is traced to Volume IV for its description.

Some data items contained in the indexes may include the notation "DO NOT USE." These items are either inaccurate or an alternative data item is available that gives better information. Users will find more appropriate data items by consulting one of the indexes to the data items (Volumes, V, VI and VII).

Tables of Data Items: Column Headings

For each form, two sets of computer generated pages list all data items in either the master, variable or work files derived from this form. These lists enable a user to track form items to computerized data items listed in other volumes of the User's Guide and vice versa. The computer listings have the following information.

Column Heading	Description
DATA ITEM ID	A unique identifier for this data item. See Data Item Identification and Naming above for details.
ITEM ON FORM	An identifier used on the NCPP study form to identify the question or group of questions which was used to generate this data item.
CARD NUM	Identifies the master file card on which this data item is located. See Master File Card Number and NINDB Case Number Rationale above for a drscription of card number.
FROM	Beginning card column for this data item.
ТО	Ending card column for this data item.
DATA ITEM NAME	Terse stylized name for this data item. See Data Item Identification and Naming above for details.

ASSOCIATED DOCUMENTS

By examining the tables provided for each, investigators will be able to determine which computer files contain data of interest. For data contained in the variable file, see Volume III of this guide; for data contained in work files, see Volume IV.

TABLE 3. Abbreviacions for Person, Time and Subject Categories

Person	<u>Time</u>	Subject
Mother Father Placenta Fetus Child A Surrogate Family Sibship	General Preconception Registration Prenatal Admission Intrapartum Delivery Post Partum Neonatal Four month Eight month One year Three year Four year Seven year Eight year	Administrative Anesthesia Clin. Impression Clinical Lab Current Pregnancy Environ. Exposure Events Hearing Hospitalizations Language Linkage Malformations Diag. & Cond. Med. History Medications Neurological Exam Observations Pathology Physical Exam Procedu: Psych. Exam Reproductive Hist. Serology Socioecon. Info Speech Vision Work History X-ray Summary Gyn. History Special Studies
		Fam/Genetic Hist. SLH Exam

TABLE 4. Definition of Person, Time and Subject Categories

PERSON	DEFINITION
Mothr -	Study registrant bearing the "study pregnancy"; biologic mother of the "study child"; gravida.
Father	Biologic father of the study child or study pregnancy; in the case of socioeconomic data, this category may indicate either the "father of baby" (not necessarily husband of the mother) or the "husband" (not necessarily related biologically to the study child).
Placenta	The organ of metabolic and gaseous interchange between the fetus and mother; also included in this category are gross and microscopic pathologic data from examination of the umbilical cord.
Fetus	Conceptus; the product of conception including the embryonic stage, i.e., from conception to the moment of birth.
Child	Product of the study pregnancy from the moment of birth onward; study child.
M Surrogate	Person or persons substituting for the mother of a study child, e.g., adoptive parents, foster parents or guardian.
Family	Person or persons biologically related to the mother or father of the study child.
Sibship	Child or children having one or both of the same biologic parents as the study child; siblings; half siblings; full siblings.

TABLE 4. Definition of Person, Time and Subject Categories (Cont.)

TIME	DEFINITION
General	Data with no pertinent time period or data pertaining to more than one time period.
Preconception	Data pertaining to the period prior to conception of the study pregnancy.
Registration	Data collected at the time of study mother's registration in the study.
Prenatal	Data pertaining to the period from conception of the study pregnancy to delivery of the study child.
Admission	Data collected at the time of study mother's admission to the hospital for delivery of the study child.
intrapartum	Data pertaining to the period from admission for delivery or onset of labor to delivery of the study child.
Delivery	Data pertaining to the time period during which delivery of the study child occurred.
Post Partum	Data (pertaining to the study mother) collected during the period immediately following birth of the study child.
Neonata 1	Data pertaining to the study child during the period from birth to one month of age; the majority of these data were collected prior to or at the time a study child was discharged from the hospital.
Four Month	Data collected at the time of the four month examination of the study child.
Eight Month	Data collected at the time of the eight month examination of the study child.
Cne Year	Data collected at the time of the one year examination of the study child.
Three Year	Data collected at the time of the three year examination of the study child.
Four Year	Data collected at the time of the four year examination of the study child.
Seven Year	Data collected at the time of the seven year examination of the study child.
Eight Year	Data collected at the time of the eight year examination of the study child.

TABLE 4. Definition of Person, Time and Subject Categories (Cont.)

SUBJECT	DEFINITION
Administrative	Data pertaining to the administrative aspects of the study.
Anesthesia	Data on medications and procedures used to obtain anesthesia.
Clin. Impression	Impression of abnormality or dysfunction gained by an examiner following evaluation of clinical signs and symptoms and including a subjective component.
Clinical Lab	Data obtained from laboratory examination of clinical specimens.
Current Pregnancy	Personal data and madically relevant information pertaining to the study pregnancy for which the mother is enrolled.
Environ. Exposure	Data on exposure to occupational or other environmental entities or hazards.
Events	Data related to a specific event, occurrence or incidence.
Hearing	Data obtained from examination and testing of hearing function.
Hospitalizations	Data on specific hospital admissions or the number of hospitalizations.
Language	Data obtained from examination and testing of language function.
Linkage	Data on the genetic relationships of family members to the study mother, father or child.
Malformations	Data on the conditions in which failure of normal development has resulted in abnormal physical traits existing at the time of birth.
Diag. & Cond.	Data on specific diagnoses or conditions obtained from past medical history or examination during the study.
Med. History	Data obtained from the study participant or medical records relevant to past or current medical diagnoses or conditions.
Medications	Data on drugs or medications used.
Neurological Exam	Data obtained from observation and physical examination of the contral nervous system.
Observations	Data obtained from observations not categorized elsewhere.
Pathology	Data obtained from clinical and anatomical pathological examination.
Physical Exam	Data obtained from physical examination of the study participant.
Procedure	Data relating to specific procedures performed on the study participant prior to or during the period of enrollment in the study.
Psych. Exam	Data obtained from the psychological examinations and observations.

TABLE 4. Definition of Person, Time and Subject Categories. (Cont.)

SUBJECT	DEFINITION
Reproductive Hist.	Data pertaining to the outcome of pregnancies prior to and or during the period of enrollment in the study.
Serology	Data obtained from the laboratory examination of serum by specific immunologic methods.
Socioecon. Info	Data related to the social and economic characteristics and environment of the study participant.
Speech	Data obtained from examination and observation of speech function.
Vision	Data obtained from examination of the eyes.
Work History	Data pertaining to occupation and employment prior to and during the period of enrollment in the study.
X-Ray	Data on diagnostic \boldsymbol{x} rays and diagnostic or therapeutic radiological procedures.
Summary	Data presented as a summary of data collected and recorded elsewhere.
Gym. History	Medical history specifically related to the female genital tract, reproductive physiology and endocrinology.
Special Studies	Data pertaining to participation in other special organized studies conducted during the period of enrollment in the study.
Fam/Genetic Hist.	Data on the medical histories of family members genetically related to the study child.
SLH Exam	Data obtained from the speech, language and hearing examinations not specifically or exclusively related to one of these areas.

CONTENTS

PED-1	Delivery Room Observation of the Neonate	II.E.1
PED-2	Neonatal Examination	II.E.35
PED-3	Nursery History	II.E.10
PED-4/ ADM-44	Report of Fetal or Infant Death	II.E.127
PED-5	Results of Tests and Procedures Done on the Neonate	II.E.145
PED-6	Neonatal Neurological Exam	II.E.159
PED-7	Summary of Hospital Course of Neonate	II.E.215
PED-8	Newborn Diagnostic Summary	II.E.233

PED-1 Delivery Room Observation of the Neonate

Form PED-1 was used in recording important delivery room events observed during birth. Observations included: the sequence of events in the establishment of circulation and respiration outside the uterus; information on the functional integrity of the infant immediately following birth; possible signs of perinatal stress that couldn't be observed elsewhere; birth; and certain measurements and facts about the child. The form was first implemented in January 1959 and underwent revisions in November 1959 and in January 1961. Some cards from the master file also came from a test revision dated November 1959. Only the test revision and final form were available for inclusion here. Data from PED-1 were punched onto three cards in the master file (Table P'D-1.1).

TABLE PED-1.1 Cards and Data Records by Revision for Form PED-1

CARD NAME	CARD NUMBER	REV. NO.	NUMBER RECORDS
PED-1: Delivery Observations	1 401	0 1 2 3	6,401 3,938 1,841 42,616 54,796
PED-1: Apgar Score	2401	0 1 2 3	6,399 3,935 515 42,628
PED-1: Delivery Procedures	3401	0 1 2 3	6,392 3,930 514 42,588 53,424
	total for f	orm	161,697
II.E.1			PED-1

II.E.2

PED-1

Data Items Referencing Form PFD-1, Delivery Room Observations of Neonate

1754 34 F384

DATA ITEM ID

	SHEN MARI	Card number (sequence, form type, form number, rep)else pumber.	Case number	Birth date (Ro)		JACE	,	MATTER REGIST CORE.	THE TANK	time (hr)	Birth time (sin)	Cord clambed, before or after delivery	tine (nin)	breath, first, before or after delivery	Breath, first time (min)	Cry, first, before or after delivery		Suction, DO NOT USE, see cara pages rouses an	DOS. DO WOT HERE ARE DRAFT DOADS.		Resuscitation procedurates of the seasons and the seasons and the seasons and the seasons are seasons are seasons and seasons are seasons	Afara hirt	;	Motor activity: tone	tone	Molding birth	0	Cord, stained/costained	Length on	length on pla	, length other	•	Skin color			•					place value by study personnel	1000	ard 14012, reason
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II.E.3

ita Items Referencing Form PED-1, Delivery Room observations of Recom

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PED-1, Delivery		FPOM	79	_	œ	15	17	19	21	22	24	56	28	S.	# F		E i	# I	35	37	¥ (T	•	- 2	7	4 5	46	47	4	Ç	- 1	25	, Y	, R	. ע ע	N.	5	09	61		63		99
Form	9	E E	1401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	10.57	2401	7401	2401	2401	1047	2401	2401	2401	2401	2401	2401	2401	2401			7401	• •	•			2401	4	2401	2401		2401	2401
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Data Items R	DATA	10	8	2 !	770		772PEn	PED	:	PEN	PED	PED			:					:		0.00	PED	: :	:	:	:	•	PED-	FE	•	PED	PED	PED	•	:	:	•	PED	PED	PED	PEN	3810. PEn-1

II.E.4

Data Items Referencing Form PED-1, Delivery Room Observations of Meonate

	evision number)	ege begun (min) duration (min)	
DATA ITEM NAME.	le tone, 20 minute ex irritability, 20 minute r, 20 minute I score, 20 minute (Sequence, form type, form number, revision number (mo) (dey)	ase begun (min) duration (min) positive pressure positive pressure, positive pressure,	(min) (sec) (sec) iminute infoute
	Appar, muscle tone, 20 minute Appar, reflex irritability, 20 Appar, color, 20 minute Appar, total score, 20 minute Blank Card number (sequence, form two NIVOB case number Birth date (mo) Birth date (wy) Sex	Birth; weight (1bs) Birth; weight (nz) Birth time (hr) Buction Drugs; medication Oxygen administered, open Oxygen administered, open, Oxygen or air administered,	Intubation Intubation, ade begun (win) Intubation, duration (win) Procedures, other Procedures, other, age begun (win) Blank Cord clambed, interval time (sec) Cord, length (cms) Cord, length (cms) Cord, length (cms) Angar, heart rate, i winute Angar, muscle tone, i winute Angar, reflex irritability, i minute Angar, reflex irritability, i minute Angar, reflex irritability, i minute Angar, fotal, i winute Angar, total, i winute Angar, total, i winute Angar, fotal, i winute
10		W 5 7 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
FROM	68 68 67 60 60 60 60 60 60 60 60 60 60 60 60 60	24 4 8 C - C W W W W W C C C	とうちらららららららららららららららららららららららららららららららららららら
CARD	2401 2401 2401 2401 3401 3401 3401	3401 3401 3401 3401 3401 3401 3401	W W W W W W W W W W W W W W W W W W W
1154 38 5384	cccc 61		
		######################################	
DATA ITEM ID	811. PED 811	222 222 222 222 232 232 232 232 232 232	

PFD-1, Delivery Room Observations of Neonace		DATA ITEM NAME	About respiratory affort a	muscle tone, 5 aloure	reflex	Color, 5 afrate	total, 5	total,		Unicially and incompanies and	onton attraction of a contract of the contract		Procedures, other	Outcome of study ofequancy; deaths; survivors		Gestation at delivery (wks)	Birth date; date of birth or delivery (mo/day/vr)	or after delivery	Hirth time (hr/min)	Breath, first, time before/after delivery (min)	Molding: birth	CONTROL SAUTE	Cora, stained / mastained	redictions to minute the state		reflex	color, 10 winute	total		heart rate, 15 minute	respira	MUSCLE CORE, 15 minute	Abgar reliex irritability, 15 winute Abgar color de cinto		ADDR TOTAL SELECT	COLORS TO MICHIGAN	DIPLIE SUPPLIES OF THE PARTY OF	-	reflex frrstantists	color,	total, 20	total, 20
Delly		04	564	565	566	267	269	570	17.5	57.5	574	575						-		1223		6221					_	-	-		1240		1243					-		_		1254 1
FD-1,		FROM	564	565	566	267	268	570	7,7	573	574	575	576	1092	1095	1101	1103	1122			1224	1926	1221						1238		1240		124						1250	1251	1252	1254
	CARD	¥ = 2																																								
Data Items Referencing Form	TTEM	WaCsi			10			đ	- 0			6	-		E ,	۰,			Δ·					10	10	01	61	c.	•			: -	: C			10	10	10	10	07	10	
Data Items	OATA	10	5395 VAP	5396 VAR	5397VAR	5348 VAR	5349VAR	5401 440	5402 VAR	5403 VAR	S404 VAR	5405VAR	5406VAR	5916VAP	3918VAR	3920 VAR	SYLLVAR	3933VAR	79×0	SORR CAD	5989 VAR	5990 VAR	5993 VAR	5994VAR	5995VAR	5996 VAR	5997VAR	SY48YAR	747	5000 5001	6002 VAR	6003 VAP	60n4VAR	6005 VAR	6006 VAR	6007 VAR	BOOB VAR	KON9VAR	K010VAR	5011VAR	5012VAP	5013VAR

PED-1

Data Items Referencing Form PED-1, Delivery Room Observations of Neonate

		USE
		(@ins) 00 NOT
LIKUON ID SUUTITA IDOGU FOUN I TATTO AT THE	SHEN MAIL ELEC	1255 1255 Motor activity; tone (revision 3) 1256 1256 Skin color 1257 1257 Cry, Dirsent / Absent / Abnormal / Unknown 1258 1258 Motor Activity, negnate 1279 1280 Cry, first, before or after delivery, time (wins) 1279 1280 Kubture of membranes, interval; INACCURATE DO NOT USE 12 17 Birth date (no/day/yr) 18 20 Birth time (hr/min)
	10	1255 M 1255 S 1257 C 1258 M 1280 K 1460 K 17 8
•	FROM	1255 1256 1257 1258 1279 1457 18
•	CARD	
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	DATA ITEM ID	6015VAR 6015VAR 6017VAR 6035VAR 6162VAR 6330K-10

REV. 1/61

DELIVERY ROOM OBSERVATION

2 OBSERVE				EURAIE				l										
	ED BY	,		3	TITLE	OR PONT	TION											
4. DATE OF	HTRIE	Ma. C	Yes Yes	5. TIME	OF BIR	TH (24-lb)	elaak)											
Time all ave	et e be	low es	sau bofare d		wer			<u> </u>										
6. CORD CL	Sec.	ED (Age	Boh Duli	100 1007	9. PRO	CEDURES	(Coult o		leated agent s	veries)	- Ope	n Ozy	· gan	+	igo Be		Ago Ende
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			☐ Afre	very	}	Trestes R					_	O In No	batter	•			4.	Mis
B. PIRST CR	lY (Ag Sec.	-)	☐ Bofe Delt Afte Delt	very r]	Druge (C	Sive 179	e & De)		(□ 0#•	er (Sp	ecify)			_	Mi
10. APGAR	SCOR	E (See	Julius at 1	2 -	L				11.	12		<u> </u>		, ,				T
5 minute strained		= 10,	score of 6 15 and 20 s	l is met minutes.		1) AGE OF S	AT TIE	E	Sec			ш_	Sec.	1.	Soc.	Mr.		16.
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3) RESPIRAT	rorv!	ű – Abs	ent .	1 - Hypev	C;	2 – Cryin Lusti	il.			 	_	-				 		
4) MUSCLE T	TON E	0 - Fle	eaid			2-Weil					_			 				
5) REFLEX I	221	0-Ne	Response	1 - Semo Motter)	2-Cy		\top						 				
6) COLOR		o - Blue		1 - Blue i	lando	2 - Entire Pink	ely											
						7) TOT/	AL.				_				~			
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20. RESPIRAT	TION		Herm			Ü 0			27. SI	CIN (A	wie e	/ fresh	iloni f	India)			
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24. FORCEPS	MARK	(\$	☐ Al-see	17		O p,	ream t		å	Press C) Pe		, Alma	1					
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M. LENGTH O				 ment e					Ġ	Flees	ad	Exten	C	pon	onts F	Present	and	Symmetric
On Body			Ca,	Other.														
On Pleasant IO. COMMENTS			Ca.	Total.			<u></u>			₽ No	Eve	lvetad						

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T E	ATAC				
FORM	11	CARD	FROM	T'u	DATA ITEM NAME
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onc (135VA		1279		CTV. first, before or after delicer
0 0	327PED-	3401	31	31	Drugs; medication
,	107VA		572	572	Orugs;
.	- PED-	=	4	40	Druns; medications,
• •	34PED		42	42	Intubation
	105VA		575	575	
o (2	3401	43	44	
6	136	3401	45	46	Interbation, duranton
•	44	1401	41	41	Oxygen administrator, no son ese set ones.
σ,	128PED-		32	32	OXYGER BARRANTERS. ONE
o	,03		573	573	OXCODE BARACTER CONT.
•	129. PED-	3401		14	
6	30. PFD	3401	× ×	· ~	State of the contract of the c
0	31 . PFD-	3401	17		Suminacered open, numbrion
6	.04	•	574	574	or air administered, positive
0	32. PED-	3401	ά. *		or all anilolatered, positive pressure
6	33 . PED-	34.01	9	7	or air administered, positive pressure, age begu
•	37 . PED-	3401	4.7	1.5	
•	A 90	•	576	576	
•	38 . PED-	3401	4	7	Drogedister other trees
•	39. PED-		, R,		other age bedun
6	45PED-	1401	4	2	promise deraction (with)
•	26PF0-	3401	e m	30	Surfice of professional values of the control of the Aprel Surfice
G	01V		571	571	Suction
σ.	42PFD-	1401	39	39	Suction, DO NOT USE, see rare page,
10	97 VA		1235	1235	lor. 16 minute
10	7 6		1243	1243	color, 15
01	011VA		1251	1251	color, 20
10	493VA		1231	1231	heart I
0,10	000 VA		1239	1239	heart rate, 15
10	007VA		1247	1247	heart rate, 20
	995 VA		1233	1233	muscle tone, 10
	002 VA		1241	1241	tone, 15
	009 VA		1249	1249	ausche tone 20
1 0	96VA		1234	1234	TOTAL TITLE TO STITLE
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10	010VA		1250	1250	TOTTON THE TOTTON TO TO
10	WA.		1232	1232	retica ilitedilly, 20
10	NO1 V		1240	1240	respiratory effort in
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PED-1

LTEM	DATA	CAR5			
FORM	ďI	NON	FROM	10	DATA ITEM NAME
10	3784PED-1	2401	5		
10			1 10	2.5	Anger, total score, a
10	3808 . PED-1		6.9		Apan
10	3790PED-1		42		Appear, total score.
10	3814PED-1		70	71	Abder, total score
10	3796PED-1	2401	4	50	Abdar, total score.
0 :	5392VAR		560	'n	total, 1 uin
0 !	5199 VAR		76 A		
11	3746PED-1		43	44	
o .	3747PED-1		45	45	
21	3748.PED-1	1401	46	46	Motor activity; tone
17	6014VAR		1255	1255	Motor activity; tone (revision 3)
7,7	3744 PED-1	1401	47	41	
5.2	3/50PE0-1	1401			Holding; birth
5.5	5988VAR			1224	Holding; birth
• •	5489VAR				Forcess marks
* 7 °	3751PED-1	1401		4	Fortgood states
25	5990 VAR			1226	Cord, stained / unstained
25	3752PED-1	1401		50	stained/unstained
	5383 VAR		549	550	
92	3753PED-1	1401	51	52	
9.7 9.7	3754PED-1	1401	53	24	
26 26	3755PED-1	1401	55	2 6	length other (cm)
9.6	3756. PFD-1	1401	57	28	Length
97	5384VAR			552	length, cata
12	601/VAR			1258	-
12	DUIDVAR				color
20	1975, 1975	1401	29		Skin color
200	3/34PEU=1	1401	9 1		
20	2750 050	• • • •	1621		Cry, present / absent / abnormal / unknown
32	3774 PFD-1	2401	5 5	<u> </u>	Moro; reflex
32	3821 - PED-1	3401			
32	3731. PFD-1	1401	21	7.7	
32	5386VAR		100		
33	5918 VAR				Ph. Ketaht
33	3827PED-1	3401			
33	3732PED-1	1401	22	23	
33	3775 PFD-1	2401	22	23	wetaht
e e	3733PED-1	1401	24	52	
933	3823PED-1	3401	74		weight
4.4	3776PED-1	2401	24		weight

DEFINITION OF CODES DELIVERY ROOM EXAMINATION OF THE NEONATE FORM PED-1 CARD 1401

FI	<u>aty</u>	CARD COLUMN
1.	Code: 1	1
2.	Form Number Code: 401	2-4
3•	Revision Number * Code: 0 - Form Dated: 1/59 1 - Form Dated: Rev. 11/59 2 - Form Dated: Test Rev. 11/59 or delivery elsewhere ** 3 - Form Dated: Rev. 1/61	5
4.	NIMDB Number Tiem I Nine-digit number for Patient Identification Code: As given	6-14
5.	Date of Birth Item 4 Six-digit code for month (cols. 15-16), day (cols. 17-18) and year (cols. 19-20) Code: As given Code for unknown date-delivery elsewhere only: 0231XX *** - Month and/or day unknown	15-20
6.	Sex Item 32 Code: 1 - Male 2 - Female 3 - Undetermined 9 - Not reported	21
***	Unless specified, Fields, Codes and Card Columns refer to Revision Number "0", "1", "2", and "3". Item numbers refer to Form Dated Rev. 1/61. A card is punched for delivery elsewhere, with information in cols. 1-25, 70 only. XX = year	

DEFINIT	ION OF CODES (Continued)	FORM PED-1 Card 1401
FIELD		CARD COLUMN
7•	Weight Item 33 Code: As given in pounds and ounces	22-25
0	99 - Unknown pounds or ounces	
8.	Time of Birth Item 5	26-29
	Code: Blank - Delivered elsewhere As given based on 24 hour clock 9999 - Not reported	
9.	Cord Clamped Item 6	30-32
	Three-digit code for: Before or After Delivery (col. 30) Code: Blank - Delivered elsewhere 0 - Before 1 - After 9 - Not reported Time (cols. 31-32) Code: Blank - Delivered elsewhere	
	00 - Less than one minute 01-10 - As given in minutes 99 - Not reported	
	Additional codes reviewed and approved (cols. 31-32) 11-15, 17-21, 24, 25, 30, 34, 35, 38, 46, 60, 92	•
10.	First Breath Item 7 Code: Same as in Field 9, except: Additional codes	33-35
	reviewed and approved (cols. 34-35): 11-20, 22, 23, 25, 26, 31, 33-35, 52	,
u.	First Cry Item 8	36-38
	Three-digit code for: <u>Before or After Delivery</u> (col. 36) Code: Same as in Field 9 col. 30 <u>Time</u> (cols. 37-38)	
	Code: Blank - Delivered elsewhere 00 - Less than one minute 01-15 - As given in minutes 99 - Not reported	
	Additional codes reviewed and approved (cols. 37-38): 16-28, 30, 32-36, 41, 44, 45, 48, 49, 52, 54, 55, 60, 80, 97, 98	

```
DEFINITION OF CODES (continued)
                                                                             FORM PED-1
                                                                             Card 1401
                                                                             CARD
FIELD
                                                                             COLUMN
 12.
             Procedures
                                                                             39-42
             Item 9
               DO NOT USE IN ANY REQUEST
               Suction (col. 39)
               Code: Blank - Reported as "other on Rev. "O" and
                                "1", now included as code 8 in col. 42
                       O - None (includes reports of bulb on
Rev. "O" and "l")
                       1 - Gastric
                       2 - Tracheal
                       9 - Not reported
              Drugs (Revisions "2" and "3" only) (col. 40)
Code: Blank - Not included on Rev. "0" and "1"
                       0 - None
                       1 - Drugs
                       9 - Not reported
              Oxygen (column 41)
              Code: Blank - Reported as "other" on Rev.
"O" and "l", now included as
                                code 8 in column 42
                      0 - None
                      1 - Open Oxygen
                      2 - Positive pressure
                      3 - Mask - Revisions "O" and "1" only
                      9 - Not reported
              Resucitation (column 42)
              Code: 0 - None
                      1 - Intubation
                      8 - Other
                      9 - Not reported
             NOTE: This field is not to be used in any tabulation.
                      Refer to card 3 for procedures.
13.
              Time of Physical Examination
                                                                           43-44
             Item 17 Blank - Delivered elsewhere Code: 30 - Less than one mimute
                     01-97 - As given in mimutes
                     98 - 98 minutes and above
                     99 - Not reported
14.
             Respiration
                                                                           45
             Ttem 20 Blank - Delivered elsewhere Code: 0 - Normal
                     8 - Other
                     9 - Not reported
```

DEFINITION	OF CODES (Continued)	FORM PED-1 Card 1401
FIELD		CARD COLUMN
15.	Motor Activity and Tone (Rev. "3" only) Item 21 Code: Blank - Not on Rev. "0", "1" and "2", Del. O - Normal and symmetrical elsewhere. 8 - Other 9 - Not reported	46
16.	Tone of Neck (Rev. "2" and "3" only) Item 22 Code: Blank - Not on Rev. "0", "1", Del. elsewhere O - Normal and symmetrical 8 - Other 9 - Not reported	47
17.	Molding Ttem 23 Blank - Delivered elsewhere Code: O - Absent or minimal 1 - Marked 9 - Not reported	48
18.	Forceps Marks Item 24 Blank - Delivered elsewhere Code: 0 - Absent 1 - Present 9 - Not reported	49
19.	Umbilical Cord (Rev. "3" only) Item 25 Code: Blank - Not on Rev. "0", "1" and "2", Del. 0 - Unstained elsewhere 1 - Stained 9 - Not reported	50
20.	Length of Cord on Body Item 26 Blank - Delivered elsewhere Code: 00 - Less than one cm. 01-97 - As given in cms. 98 - 98 cms. or over 99 - Not reported	5 1-52
21.		53 - 54

```
DEFINITION OF CODES (Continued)
                                                                                FORM PED-1
                                                                                 Card 1401
  FIELD
                                                                                CARD
                                                                                COLUMN
                Length of Cord (Other)
(Rev. "2" and "3" only)
  22.
                                                                                55-56
                Item 26
                Code: Same as in Field 21
  23.
                Length of Cord (Total)
                                                                                57-58
                         (Rev. "2" and "3" only)
                Item 26
                Code: Same as' in Field 21
  24.
                Skin
                                                                                59
                Item 27
                Code: Blank - Peripheral Cyanosis on
                                  Rev. "2", Del. elsewhere
                        0 - Normal
                        1 - Pallor
                        2 - General Cyanosis (Rev. "2" and "3" only)
                        3 - Petechaie
                        4 - Stained
                        5 - Cyanosis (Rev. "O" and "l" only)
6 - Jaundice (Rev. "O" and "l" only)
                        7 - Combination of codes
8 - Other
                        9 - Not reported
 25.
                                                                               60
               Item 28 Blank - Delivered elsewhere Code: 0 - Present
                        1 - Abnormal
                       2 - Absent (Rev. "2" and "3" only)
                       9 - Not reported
 26.
               Moro Reflex
                                                                               61
               Item 29 Blank - Delivered elsewhere Code: 0 - Flexor and extensor symmetrical
                       8 - Other pattern
                       9 - Not evaluated
             Motor Activity (Rev. "2" only)
Code: Blank - Not on Rev. "0", "1" and "3", Del.
27.
                                                                             62
                      0 - Normal and Symmetrical
                                                               elsewhere
                      8 - Other
                      9 - Not reported
```

DEFINI	TION OF CODES (Continued)	FORM FED-1 Card 1401
FIELD		CARD COLUMN
28.	Body Movements (Rev. "0" and "1" only) Code: Blank - Not on Rev. "2" and "3", Del. elsewhere 0 - Normal 1 - Abnormal 9 - Not reported	63
29.	Generalized Edema (Rev. "O", "1" and "2" only) Code: Blank - Not on Rev. "3", Delivered elsewhere 0 - Absent 1 - Present 9 - Not reported	64
30.	Bleeding (Rev. "0", "1" and "2" only) Code: Blank - Not on Rev. "3", Delivered elsewhere 0 - Absent 1 - Present 9 - Not reported	65
31.	Tenth Breath (Rev. "1") or Sustained Respiration (Rev. "0") Code: Blank - Not on Rev. "2" and "3", Delivered 00 - Less than one minute 01-97 - As given in minutes 98 - 98 minutes and above 99 - Not reported	66-67
32.	Observations Made by Study Personnel Code: Blank - Yes, Delivered elsewhere 1 - No (Deliv. in hosp. & observed by non-study personnel)	68 ersonnel)
33•	Reason for 14012 Card Code: Blank - Funched from Test Rev. 11/59 1 - Delivery elsewhere	78

	OF CODES (Continued)	FORM PE	_
ATELD		CARD COLUMN	
1.	Code: 2	1	
2.	Basic Data * Code: Same as in columns 2-29 of Card 1	2-29	
3.	One Minute Appar Item 10 Heart Rate (column 30) Code: 0 - Absent 1 - Slow 2 - 100 or over 9 - Not reported	30-36	
	Respiratory Effort (column 31) Code: 0 - Absent 1 - Weak cry 2 - Crying Lustily 9 - Not reported		
	Muscle Tone (column 32) Code: O - Flaccid 1 - Some flexion 2 - Well flexed 9 - Not reported		
	Reflex Irritability (column 33) Code: 0 - No response 1 - Some motion 2 - Cry 9 - Not reported		
	Color (column 34) Code: 0 - Blue pale 1 - Blue hands and feet 2 - Entirely pink 9 - Not reported.		
C	Total Score (columns 35-36) Todo: 00-10 - As given 20-29 - Total as given based on incomplete data 99 - No report		
Unless spe Number "O"	cified, Fields, Codes and Card Columns refer to Revision, "1", "2", and "3". Item numbers refer to Form Dated	lon l 1/61.	

DEFINITIO	N OF CODES (Continued)	FORM PED- Card 2401
FIELD		CARD COLUMN
4.	Two Minute Apgar Item 10 Code: Same as in Field 3	37-43
5.	Five Minute Apgar Item 10 Code: Same as in Field 3	44-50
6.	Ten Minute Apgar Item 10 Code: Same as in Field 3	51-57
7.	Fifteen Minute Appar Item 10 Code: Same as in Field 3	5 8- 64
8.	Twenty Minute Apgar Item 10 Code: Same as in Field 3	65-71

D)MPHATQUION	(F CODES (Continued)	FORM PED-1 Card 3401
FIELD		CARD COLUMN
1.	Code: 3	1
2.	Basic Data * Code: Same as in columns 2-29 of Card 1	2-29
3.	Suction Item 9 Code: 0 - None	30
4.	Drugs (Revisions "2" and "3" only) Trem 9 Code: Blank - Not on Rev. "0" and "1" O - None 1 - Drugs 9 - Not reported	31
5.	Open Orygen Item 9 Code: 0 - Not used 1 - Used 9 - Not reported	32
6.	Open Oxygen - Begun Item 9 Code: 00 - Under 1 minute 01-97 - Age as given in minutes 98 - 98 minutes and above 99 - Unknown or not applicable	33 - 34
7.	Open Caygen - Duration Code: Same as in Field 6	35 -36
8.	Positive Fressure Item 9 Code: 0 - Not used	37
Revision	pecified, Fields, Codes and Card Columns refer to Number "0", "1", "2" and "3". Item numbers refer to ed: Rev. 1/61.	

DEFINITION	OF CODES (Continued)	FORM FED-1 Card 3401
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9•	Positive Pressure - Begur. Item 9 Code: Same as in Field 6	38-39
10.	Positive Pressure - Duration Code: Same as in Field 6	40-41
11.	Intubation Item 9 Code: 0 - Not used 1 - Used 9 - Not reported	42
12.	Intubation - Begun Item 9 Code: Same as in Field 6	43-44
13.	Intubation - Duration Code: Same as in Field 6	45-46
14.	Other Item 9 Code: 0 - Not Used 1 - Used 9 - Not reported	47
15.	Other - Begun Item 9 Code: Same as in Field 6	48-49
16.	Other - Duration Code: Same as in Field 6	50-51

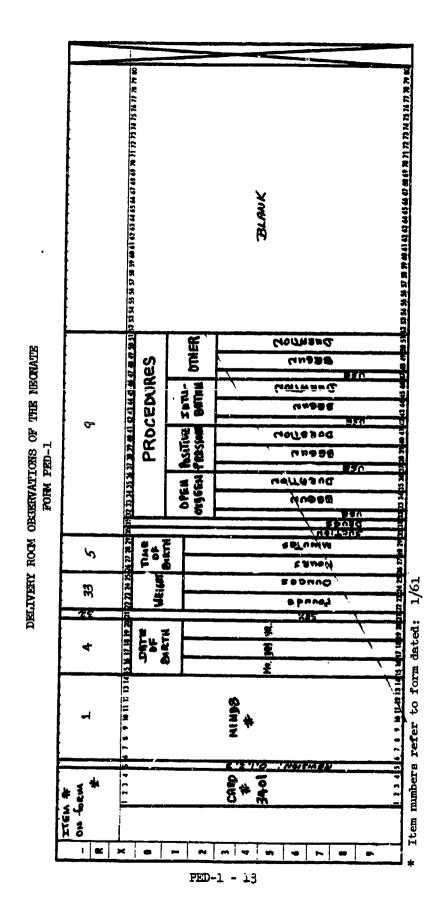
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Item numbers refer to form dated: 1/61

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PEDIATRICS MANUAL DELIVERY ROOM OBSERVATIONS OF THE NEONATE (For Form PED-1, Rev. 1-61)

I. INTRODUCTION

The purposes of the Delivery Room Observations of the Neonate are:

- A. To observe and record the time and sequence of events in the establishment of circulation and respiration in the extra-uterine environment.
- B. To observe and record information reflecting the functional integrity of the infant immediately following the birth.
- C. To observe and record possible signs of perinatal stress which cannot be observed elsewhere.
- To observe and record potentially stressful influences operating immediately following birth.
- E. To obtain and record certain measurements and facts about the child which are most conveniently obtained in the delivery room.

The PED-1 form has been provided to record the above types of information in a systematic fashion. This manual has been developed to assist in the uniform interpretation and recording of this information.

II. GENERAL INSTRUCTIONS

- A. The Examiner. It is recommended that a nurse or a trained lay observer who does not have responsibility for other duties in the delivery room be present at the delivery and make the observations for this protocol. If no such person is available and it is necessary to employ a physician for this purpose it is essential that he be free of other responsibilities and be able to devote full attention to observing and timing the events of the first few minutes of life. The physical examination portion of this protocol should be performed by a physician or under the supervision of a physician. This is important in order that questionable findings be detected and properly classified and abnormal findings clearly described.
- B. Equipment. The only equipment necessary for these observations are;
 - 1. One, and preferably two, stop watches.
 - 2. A stethescope.
 - 3. A metric rule or tape.
 - 4. Record form PED-1.
 - 5. One or more sheets of record form CP-5 (Continuation Sheet).
 - 6. Pencil or hall-point pen.

II. GENERAL INSTRUCTIONS (cont.)

C. Timing of the Observation and Examination: The emphasis of this examination is on accurate and objective observation and strict timing, with clinical or diagnostic interpretation being secondary. The observer should be in the delivery room at the time of the delivery, and should be equipped with at least one stop watch. The time of birth will be given as local twenty-four hour clock time. All other events shall be timed as the age before or after complete delivery of the child. Complete delivery shall be defined as that moment when all parts of the child's body became free of the maternal introitus. If any of the events in this protocol such as "first breath," "first cry," or "cord clamped" occur prior to complete delivery the time from occurrence of such an event to the moment of complete delivery should be measured with a stop watch. Then, at the moment of complete delivery the stop watch may be reset, or a second stop watch may be started to time the subsequent events.

The observations for the five parts of the Apgar score (Item 10, sub items 1-6) should be made on every child at age one minute, two minutes, and five minutes. Subsequent observations of this series are to be made if the score on the five minute series is seven or less.

The physical examination is to be performed between 10 and 20 minutes of age. If it is impossible to perform the physical examination during this time period, it should be performed as soon as possible and the child's age at the time it was begun recorded in Item 17.

D. Bigs. Since it is necessary for the observer performing this examination to be present in the delivery room at the time of birth it is obvious that the observer will be aware of the events of labor and delivery. Every effort should be made to be as objective as possible in making and recording the observations and examination. Every reasonable effort has been made to phrase the items and instructions so as to encourage observations of fact rather than interpretation or judgment. However, this is manifestly impossible to accomplish when our "measuring sticks" are often not definable, and such terms as "weak" and "normal" are unavoidable.

The term "normal" as used in this examination form and manual should be interpreted

II. GENERAL INSTRUCTIONS (Cont.)

in the most limited sense as being nearly synonymous with "ideal." Thus, although it is statistically normal for respiration to be depressed by morphine, an infant exhibiting respiratory depression due to morphine would not be considered normal in this restricted sense of the term.

III: SPECIFIC INSTRUCTIONS AND DEFINITIONS

Item 1. Patient identification: This item is to be completed using the child's name plate which should contain the following items in the order listed:

idame of Child (Surname, Given Name if known) Child's NINDB number Date of Birth - Hour of Birth (24 hr. clock) Sex - Birth Weight (grams preferred) - Race

- Item 2. Observed By: Here record the name of the person making the observations for Items 6 through 16.
- item 3. Title or Position: Here record the professional status of the person whose name appears in Item 2 (nurse, pediatrician, obstetrician, intern, etc.).
- Item 4. Date: Here record the date of the birth, using the sequence month, day, year.
- Item 5. Time of fairth: Here record the time of the birth to the second, using local twenty-four clock time.
- Itoms 6-8. The following three items represent the time of occurrence of certain crucial events in the establishment of extrauterine life. The fact observed and reported is to be the age of the child at the moment the event occurred. This age is to be the age of the child recorded in minutes and seconds before or after the moment of complete delivery. (Complete delivery is, for this purpose, defined as that moment when all parts of the child's body become free of the maternal introities.)

For each of these three items there are check boxes in which to indicate if the event occurred before or after complete delivery. If, by chance, the event should occur simultaneously with the moment of complete delivery, report it as 1 second after delivery.

item 6. Cord Ciemped: Record the age of the child in minutes and seconds at the time the cord was clamped. Check "before delivery" if the event occurred before complete delivery, or "after delivery" if the event occurred after complete delivery.

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

- Item 7. First Breeth: Record in minutes and seconds the age of the child at the time it took its first breath. Check "before delivery" if the event occurred before complete delivery, or "after delivery" if the event occurred after complete delivery.
- Item 8. First Cry: Record the age of the child in minutes and seconds at the time the first cry was produced. Check "before delivery" if the event occurred before complete delivery, or "after delivery" if the event occurred after complete delivery.
- Item 9. Precedures: The type of procedures which should be reported in this item are gastric suction, tracheal suction, the administration of drugs, the administration of oxygen either by open hose or mask or by positive pressure device, laryngeal intubation, and other resuscitative measures such as rocking boil, airlock, etc. Do not report routine oralpharyngeal suction as a procedure.

If a catheter is passed into the stomach for the purpose of aspirating the stomach contents the first box "gestric suction" should be checked.

"Trackeel suction" is defined as passing a soft catheter into the laryax and trackee for the purpose of clearing those passages of foreign material (cf. definition of "intubation" below).

If drugs are given in the delivery room, check the box "drugs," and give the drug name (either trade name or generic assume, whichever is in common use), the route of administration, and the dose. Do not include in this category silver nitrate prophylactic eye treatment, or medication applied topically to the umbilical cord in the delivery room. If there is insufficient room in this space continue under Item 30.

If extra oxygen is offered to the child by a means of open hose, oxygen tent, or loosely applied mask, check the box "epen exygen." Indicate in the adjacent blanks the ages of the child at which this procedure was begun and ended. If the procedure was intermittent the ages reported should be those at which the procedure was first started, and finally terminated. Report ages to the nearest minute.

Item 9. Procedures. (Cont.)

If oxygen was given to the child by means of a tight-fitting mask and rubber bag or other positive pressure device the box socitive pressure oxygen or dir should be checked. Mouth-to-mouth resuscitation, whether or not extra oxygen was added in the process, should also be reported here. Indicate the ages of the child at the time the procedure was begun and ended. If the procedure was intermittent, the ages reported should be those at which the procedure was first started, and finally terminated. Report ages to the nearest minute.

"Intubation" shall be defined as the insertion of a firm catheter into the larynx for the purpose of facilitating aspiration of foreign material and/or the establishment of respiration. (If positive pressure oxygen or air were administered through this tube by either a positive pressure device or by blowing or puffing with the mouth, the previous category "positive pressure oxygen or air" should be checked as well.) Indicate in adjacent blanks the ages of the child at which the procedure was begun and discontinued. If the procedure was repeated, report the ages of the child at which the procedure was first attempted, and finally discontinued. Report ages to the nearest minute.

"Other." Check this category if procedures other than those listed above are used for the purpose of inducing, assisting, or maintaining respiratory or cardiac function. Record the age of the child at the onset and termination of the procedure to the nearest minute. The procedure should be clearly identified.

Items 10-16. Apper Score: This series of observations is designed to provide a uniform, systematic evaluation of certain physiological functions of every neonate at specified time intervals.

Timing:

- (a) The first series of observations should be performed when the child is as close as possible to one minute of age.
- (b) A second series of observations should be made when the child is as close as possible to two minutes of age.

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

Items 10-16. Apgar Score (Cont.)

- (c) A third series of observations should be performed when the child is as close as possible to five minutes of age.
- (d) If the total score on the five minute series is seven or below, the series of observations should be performed at 10, 15 and 20 minutes of age.

Reporting:

There are six columns provided on the form for scoring the one, two, five, ten, fifteen, and twenty minute observations. These columns should be used for reporting enly these cheavestiens performed at approximately these times. Thus, if for some reason it is impossible to perform the observations at one minute, the observations performed at two minutes should be reported in the second column, not in the first column.

If the Appar score at twenty minutes of age is still seven or below, the examiner should proceed with the physical examination and continue to keep careful notes on the child's progress, either in the form of the Appar score categories or in narrative clinical progress notes in Item 30. In the event the space provided in Item 30 is too small, continue the comments on a properly labelled CP-5.

Instructions and Critaria for Scoring:

All scores should reflect the child's condition during the interval of the observations without regard to earlier condition or performance. It is very possible for the child to have a lower score at five minutes than at two minutes, or than the child might have had on a similar series of observations at three and a half minutes of age.

(1) Age at Time of Scoring

At the top of each column there is a box for reporting the age of the child at the time of the observations. The age of the child reported at the head of a column should be the start of the series of observations recorded in that column.

(2) Heart Rate

Score: Observation:

- 0 No heart rate can be seen, felt or heard.
- 1 Heart rate below 100.
- 2 Heart rate 100 or over.

Items 10-16. Appar Scores (Cont.)

Heart rate may be determined by auscultation of the precordium, observation of the epigastrium, or palpation of the umbilical cord near the umbilious.

(3) Respiratory Effort

Score: Observation:

- 0 Apnea, no respiratory effort.
- Weak respiratory effort, weak cry, hypoventilation.
- 2 Breathing well, crying lustily.

Apnea shall be defined as the absence of breathing for a notable period—approximately 20 seconds or more.

(4) Mascle Tone

Score: Observation:

- 0 Flacoid, very little or no muscle tone.
- 1 Weak flexion tone, with persistent "floppiness."
- 2 Spontaneous flexion of arms and logs.

(5) Reflex Irritability

Stimulus: Brisk tangential slap on the soles of the feet. (If child is spontaneously producing "active motion and crying," no stimulus is necessary, simply score 2.)

Score: Observation:

- 0 No response.
- 1 Some motion.
- 2 Active motion and crying.

(6) Color

Score: Observation:

- 0 Child entirely blue or cyanotic.
- 1 Some areas persistently cyanotic.
- 2 Child entirely pink.

(7) Total

Add the scores for each of the five categories in the column and record the sum in the "total" box. If it was impossible to score one

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

Items 10-16. Apgar Scores (Cont.)

or more of the categories, do not report a total for that column. Do not report fractions or more than one number per blank. Admittedly, these categories are coarse and for some the distinction between the score of 1 and the score of 2 is not sharp. However, the observer is in a better position than anyone will be subsequently to make the decision on the scoring. If there is doubt about the criteria for scoring, the physician in charge of this aspect of the study should be consulted and the matter discussed locally and perhaps with other institutions and pediatricians at NINDB in order to insure optimal uniformity in scoring.

Physical Examination

The physical examination in the delivery room is a very brief series of observations of the neonate for the purpose of detecting and reporting signs of stress, and certain other items of information which cannot be obtained elsewhere. The examination should be performed by or under the supervision of a physician.

Timing of the Examination. The child should be examined between ten and twenty minutes of age. If it is impossible to examine the child during this interval it is desirable that the examination be performed as soon as possible after the child is twenty minutes of age and before it has left the delivery room.

- Item 17. Here record the age of the child to the nearest minute at the start of the physical examination.
- Item 18. Examined By: Here record the name of the person performing the physical examination.
- Item 19. Title or Position: Here record the professional status of the person whose name is recorded in Item 18, i.e., nurse, pediatrician, obstetrician, intern, etc.

- item 20. Respiration: The examiner should observe the child's spontaneous respiration through the course of the examination. The box "normal" should be checked if, by the time of the examination, the child has established adequate air exchange and exhibits no potentially abnormal respiratory signs such as retractions, nasal flare, grunting or stridor, or unusual rhythm for rate. The box "other" should be checked if there are any indications of respiratory problems, including those listed in the previous sentence. All unusual or abnormal findings should be clearly described in Item 30.
- Item 21. Motor Activity and Tone: The examine, should observe the child's spontaneous motor activity and tone throughout the course of the examination for signs of increase, decrease, or asymmetry of tone or movement. The box "normal and symmetrical" should be checked if the are no unusual features in the child's motor activity or tone. The box "other" should be checked if there are any unusual features and any such feature should be thoroughly described in Item 30.
- Item 22. Tone of Neck: The examiner should eval_ uate specifically the tone of the child's neck muscles both by observing the spontaneous activity and by pulling the child by the arms to a sitting position. If no unusual findings are noted, the category "normal and symmetrical" should be checked. The box "other" should be checked if the neck is hypotonic or flaccid or if other unusual features of the neck muscle tone are noted. If this box is checked, a comment is required to differentiate the moderately limp neck from the neck which is so flaccid that the head falls back on the spine when the infant is pulled to the sitting position. Anyother umusual features should also be desoribed.
- Item 23. Melding: The examiner should evaluate the child's head by inspection and palpation to determine the presence and degree of distortion of the child's head due to the birth process. Overriding of the bones at the suture lines as well as distortion of the shape of the bones themselves should be included in this item. The category "absent or minimal" should include the slight degree of

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.) Item 23. Molding (Cont.)

molding seen in most children. The category "moderate or marked" should be checked if the degree of molding in this child is greater than that usually seen in normal children. The distinction between "absent or minimal" and "moderate or marked" is obviously only a vaguely quantitative one, but the examiner's judgment should remain as objective as possible and not be modified by his knowledge of the events of labor and delivery. If the molding is "moderate or marked," describe the locus and extent, including notation of the sutures which are overlapped.

- Item 24. Forceps Marks: This item should be an objective observation not an interpretation of knowledge of prior events. If there is no evidence of tissue trauma from the use of forceps, the category "absent" should be checked. If there is evidence of tissue trauma about the head or face due to the use of forceps the box "present" should be checked and a clear and concise description of the location of the forceps marks should be recorded in Item 30. Clearly specify the location and the side (right or left). A sketch may make the description more simple and clear.
- Item 25. Umbilical Cord: This item is intended for use only in reporting the presence or absence of meconium staining of the umbilical cord. Any fresh meconium should be wiped from the cord with a damp cloth before making the observation. If there is no evidence of staining of the cord, check the box "unstained." If the cord appears to be stained, check the appropriate box and describe the color and intensity.
- Item 26. Length of Cord: It is desirable that the total length of the umbilical cord be determined and vecorded in one spot, and this can only be done in the delivery room. Each segment of the cord should be measured with a metric ruler or tape and recorded in the appropriate blank. If there is no "other" segment of cord, enter "0" in the blank space labelled "other." It is not necessary to perform the addition and fill in the blank "total" as this can be done later or at NINDB.

Item 27. Skin (Acute or treasient findings). The examiner should observe the skin over the child's entire body for acute lesions and discoloration. It is not necessary to report and describe congenital malformations or nevi. Do not report Mongolian spots. Peripheral cyanosis should not be considered an abnormal finding in the delivery room examination. All acute or transient findings should be indicated by a check mark in the appropriate box, and described under Item 30.

"Peller" should be checked if, in the examiner's judgment, the child is unusually pale.

"Generalized cyanosis" should be checked it the child is cyanotic over the entire body, or major portion of the body and should include such things as cyanosis of the head, one upper quadrant, one extremity, or one half of the body. Cyanosis of the hands, feet or perioral region alone should not be reported as generalized cyanosis.

"Petechice" shall include any bleeding into the skin (including ecchymoses) but not bleeding from abrasions or forceps marks.

"Steined" means exogenous yellow, green or brown coloration of the skin, vernix or fiagernalis, which is not readily removable. Fresh meconium on the skin should not be reported as staining. Obviously, if there is fresh meconium on the skin, this should be removed with a damp cloth before the evaluation of the presence or absence of staining of the skin is made. If the skin is stained, check the appropriate box and describe the color and intensity.

"Other" should be checked if there are other acute lesions or conditions portrayed in or on the skin, such as abrasions, lacerations, and infection.

item 28. Cry: If the child does not cry spontaneously, attempt to induce crying by such stimuli as slapping the soles of the feet or the buttocks or pinching the heel. These shall be considered maximal stimuli and more drastic methods are not recommended. If such stimulation does not make the child cry, check the box "absent after maximal

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

Item 28. Cry. (Cont.)

stimulation." If the child cries spontaneously, consider such unusual qualities as high pitched, feeble, whining, hoarse, or stridulous, in evaluating whether the cry is normal or abnormal, and check the appropriate box. If the child does cry spontaneously and the cry has no unusual character, check the first box "present and normal quality." Describe all abnormal findings under Item 30.

item 29. Moro Reflex: The same techniques as used in the other examinations of the neonate shall be employed here for eliciting the Moro reflex. That is, "support the child under the back and head, and let the head drop back about 30 degrees." Note that there is a definition of the reaction rather than the term "normal" following box 0. If the response fits this definition "flexor and extensor components, present and symmetrical" even if it is considered not to be normal, check box 0. Describe any reasons for considering it abnormal. If the response does not fit the definition following box 0, then box 8 "other pattern" should be checked. If box 8 is checked the pattern should be clearly described. The examiner is invited to register his opinion as to whether or not he thinks the response is normal. no matter which box is checked.

If the child is in an incubator or otherwise inaccessible, other stimuli such as slapping the incubator or producing a loud noise may be used to attempt to elicit a Moro reflax. If, by this method, the defined rosponse (box 0) is elicited, check box 0 and describe the stimulus used. If this response is not elicited by the non-standard stimulus, check box 9 "not evaluated" and indicate the situation.

Item 30. Comments and Other Findings: This space is to be used for a narrative description of any abnormal findings or procedures reported above. Also, the examiner is invited to note any unusual features of the child not included in the above items such as a knot in the umbilical cord, congenital malformations, a single umbilical artery, etc., and to record his clinical impression of this child. The

Delivery Room Observations of the Neonate

III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

Item 30. Comments and Other Findings. (Cont.)

use of "normal" in this last situation will be interpreted in the usual clinical sense as a diagnostic statement. Therefore, although the examiner may have been forced by the strict definition of "normal" in the above items to report such things as grunting respiration, limp neck, or pallor, he may qualify these by writing "normal baby" under liem 30 if this indeed is his clinical evaluation or summary of the situation. No information concerning the mother's condition should be written in this comment space.

Since this record form is set up on one page for maximum convenience in use for the vast majority of cases that are normal or slightly unusual, one or more sheets of form CP-5 (Continuation Sheet) should be immediately available for extending comments and descriptions of unusual findings on abnormal cases. (If form CP-5 is used be certain to indicate "PED-1" in the space for form number to insure proper identification of the extended comments.)

Item 31. Rece: The child's race is to be reported as the same as the mother's race (as it is recorded on form AR-1) in one of

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III. SPECIFIC INSTRUCTIONS AND DEFINITIONS (Cont.)

Item 31. Race. (Cont.)

the categories: White, Negro, Oriental, Puerto Rican or Other. If this information appears in Item 1 on this form, it does not need to be repeated here.

- Item 32. Sex: Record the infant's sex as male, female or undetermined.
- Item 33. Birth Weight: Here record the child's official birth weight. It is desirable that a metric system scale be used and the weight be recorded in grams. However, if an English system scale is used, report the weight in pounds rather than converting to grams. Report ounces as fractions (-1/16) of a pound thus: seven pounds, six ounces is recorded as 7 and 6/16.

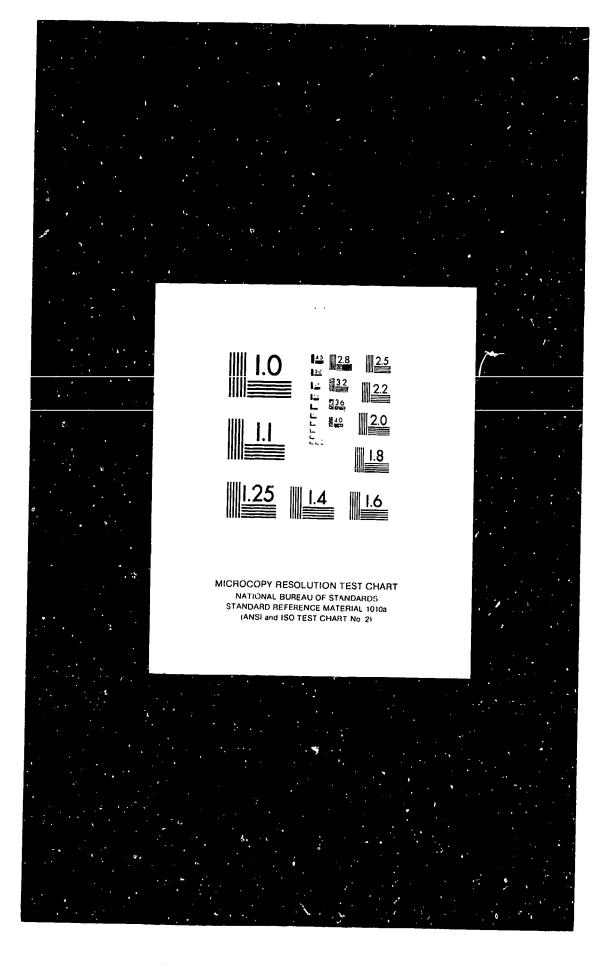
Distribution:

One copy of this form must become part of the local Study or hospital Pediatrics record, one copy should become part of either the Study or the hospital Obstetrics record, and one copy must be sent to NINDB with the Study Pediatrics nursery records.

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74. FORCEPS MARKS C Abrant					Present	+	'	무리	read)	, Abac	mai						
25. UMBILICAL CORD					C States			및시	-	After i	بد اسه	oj Stimuj	eties				
M I MISC	1 or		•				7		ı	ORO R							
M. LINGT		IRD (fa	elvis e	V seep		•							₩ G	Imperior 1	s Procest es	d Symmotrical	
On Body.					Oth	·	G	•	1	•	her P						
On Please			c	<u> </u>	Tek	·	<u> </u>		<u></u>	¥ M	+ Eve	hend					
e. COMMEN	III AML	OTH	ER FIN	CHG	}												

31. RACE	(Capy A	AA-1	. Optional		32. SEX (Opin			Continue as CP-5, Continuation Stant) 33. BIRTH WEIGHT (Cottons)
O.A.	Qн	Q 0+	Q PR	□ Other	□ Mele	☐ Female	Undetermined	222 BIK I H AEIGH ! (Chileten)
Callaborat Parlament	lvo Ross	naroh Branch,	MHCS, H	iiH				(FIED-1) (Nev. 1-61)

	ROOM OBSERVA THE NEONATE	TIONS	1.	PATIENT IDENT	IFICATIO	μ Λ.				
S. GREENED BA	INE NEUNALE	3. STATUS		4	< 1 0	~49				
4. DATE					gs>]					
Ho. Bay Year	S. TIME OF BIRTS	4 14-4041 CIDEL	'		ON O					
Time evente as age befo	re er after som	ioto delivery.			·····					
4. CORD CLAMPED (440) -	BEFORE	FROCESU	EE (0=11	uncamplicate	eral-p	harynge	al met	200)		
X	AFTER	니 노 Head			,	DICATE	AGE	160	M EN	DED
7. FIRST SEEATH (Age)	0		BASTRIC	SECTION -	나 아티	OXYGE	H			
Him. See.	acrone		TRACHEAL	SUCTION	C CON		RESSURE	j		
1 X	APTER	_ ^	DRUGS (ive type	LHT	BATION		+	\dashv	
8. FIRST CRY (Ade)	REFORE	一		md dese) _	_			—		
*	AFTER				OTH	ER.				
10. COMMENTS ON EVENTS OF	A PROCEDURES									
MONE										
										
11. APGAR SCORE Note: Sc	ero infant ut 1, not attained, ec	7, and 5 minu ero at 10, 15,	ter, and	if ecore of	12.	13.	14+	15.	16.	17.
				ME OF SCORING	100	20 d	384	484	584	604
3) HEART RATE	O · ABSENT	1-8LOW. LESS		2-100 OR OVE		1				
J) RESPIRATORY EFFORT	O-ASSENT	S-WEAK CRY, HT	POVENT.	2- CRYING LUSTI	,	├	 			-
4) MUSCLE TOHE	D-FLACCID	1-SOME FLEX.		2-WELL PLEXES		 	 			<u> </u>
	A-40 SESPANSE	1- SAME MATTON		t-cav		 -	 i			
6) COLOR	O-BLUE, PALE	1-BLUE HANDS A		2- ENTINELY PI		 				
				l - <u>-</u> -	— —	 -				
			10. EXAMI	7) TOTAL			10. 31			
PHYSICAL EXAMINATION	AT	MIN. OF AGE	iv. LAME!	#EU 07			20. 31	ATUS		
1. CRY			22.	MERO			·			
PRESENT . HORMAL			ı	PRESENT M			ONENTS			
PRESENT- AMOR	MAL (Deserthe)		ı	OTHER	PATTERN	(Deser	ibe)			
ABBENT AFTER	MAXIMAL STIMULAT	1 CM	1	NOT E	ALUATED					
9. SKIN			74.	TORE OF RECK		73 L. H	TOR ACT	10170		
HORMAL			1	NUMMAL		1	HORMA		SYMM ETS	I I CAL
PALLOR	E	PETECHIAE	ł	A AMORA	IAL		· .—			
<u> </u>		7		1 (Deser	100)	<u> </u>		THER () •)
		.] STAINED	•••	HORMAL		\Box	BHORMAL	(Dess	ribe)	
PERIFHERAL CY	ANOSIS L	OTHER		•		1				
7. GENERALIZED EDENA	I		28: 4	DISTROF CORD						
L ASSENT	PRESENT (#	Pezeribe)			/ 			-		
. BLEEDING	\$0	- FORCEPS HARK		OH PLAI	MOLDIN	•	TOTAL	==		
ABSENT		ABS DIT		l			MINIMA	L		
PRESENT (Dese	ribo)	° 🔲 PRESI	Dese (Dese	ribo)	° ∟	MODER (Dess	ATE OF	MARK ED		
2. COMMENTS		<u>z</u>				,				
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PARTMENT OF HEALTH. EDUC.	ATION, AND WELFA	AC		T ES 1			/974	. 11-10	, p	<u> </u>



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