

PED-4 (ADM-44) Report of Fetal or Infant Death

Form PED-4 was used to report fetal death or the death of a study infant and certain additional information regarding the death. Its use was expanded to report the death of a study child at any age. First implemented in February 1959, the form underwent revision in July 1959, in February 1961, and again in October 1961. The first revision resulted in a layout change and in a renumbering of items; the 1961 revision resulted in minor changes only. The October 1961 revision resulted in an additional measurement of crown rump length (item 15) and in another reitemization of the form. Data from PED-4 were abstracted on to ADM-44 "Report of Non-Liveborn Termination of Pregnancy or Death of Study Child" by study personnel at NINDB for punching. Records of fetal, infant and child death are available on card 0844 of the master file, where information from ADM-44 was recorded (Table PED-4.1).

TABLE PED-4.1 Cards and Data Records by Revision for Form PED-4

CARD NAME	CARD NUMBER	REV. NO.	NUMBER RECORDS
PED-4: Report of Infant Death	0844	1	4,001
			4,001
	total for f	orm	4,001

Data Items Referencing Form ADM-44, Report of Petal or Infant Death

DATA ITEM TD	1 FE# 3N F2R#	CARD	F.R.O.4	10	DATA TIEM NAME
					•
931		0844	-	S	Card number (sequence, form type, form number, revision number)
1932		0P44	w	=	
4933.ADM-44		0844	15	16	FOR 404-44 Date (40)
4934.APH-44		0844	17	18	ADW-44 date
4935.ADM-44		0R44	7	20	ADM-44 date
4936.ADH-44		084d	21	22	of; fetal of
4937.ADM-44		0R44	23	7	ofs fetal ors infants death
4938.ADM-44		0844	25	26	of: fetal or: infant: death
4939.ADM-44		084¢	27	28	date (mo)
4940.ADM-44		0844	8	30	date
4941.ADH-44		0 R 4 4	31	32	date
4942.ADM-44		0844	3	M	-
4943.ADH-44		0844	# E	35	- Tope
4944.ADH-44		7440	96	36	
4945.AP4-44		0844	37	0	
4946.ADM-44		0844	7	43	deaths
4947.ADM-44		0 P 4 4	*	4.5	death: destation (aks)
4948.ANM-44		0844	9	59	last
4949.ADM-44		* * # 0	9	9	
4950.ADM-44		0844	9	61	
4951		0844	62	76	Slank
4952.APH-44		0844	77	78	Death, type, revised definition
-		0844	66	90	Obserterly addition to file
5385VAR			553	553	Renorth University Deals
•	6		554	554	X OUT
•			1001	1001	Infant death 0 to 12 months
916.	9		1092	1093	Unicome of study predomner: survivors
:			1094	1094	deaths
91B	14		1095	1098	int (das)
			1099	1100	Sirth: weight (coded)
5971 VAR	11		1103	1108	Three dates date of three or delicate (80/480/09)

Tid. FETUS DIED BEFORE DURING LABOR COMPLETE THESE ITEMS FOR EACH DEATH 23. CAUSE OF DEATH (Include accordited Illineacco 174, DO NOT and conditions. CEROLE she caushed of the undestylind WRITE IN WRITE IN WRITE IN	REVO	6 - 41	·						
4. DAYE OF RECORD Day Year THIS SPACE		REPOI	RT OF	FETAL	OR INFA	NT DEATH			
4. DAYE OF RECORD Day Year THIS SPACE			·						
THIS SPACE THIS SPACE THIS SPACE PETAL DEATH TODATH TODAT	2, NAM	E OF RI	ECORDE	R	3. TITLE	OR POSITION	7		
The period of the properties of the period o				s. og Hot	VETE IN			7. AUTOPSY HUMBER	B. OTHER RECORD
11. DATE OF DELIVERY OF PETUS 12. CO NOT WRITE IN 13. PLACE OF DELIVERY THOSPITAL 2 HOME OTHER HOSPITAL 2 SCHOOLS 14. WEIGHT OF FETUS 15. CROTH RUMP LENGTH Cond. 16. FETUS DIED ABEFORE DURING LABOR UNIXHOWN TLABOR 2 OR DELIVERY COMPLETE THESE ITEMS FOR EACH DEATH CROCLE she annaher of the underlying WRITE IN THIS SPACE (1) (2) (3) (4) (5) (5) (5) (1) (1) (2) (2) (3) (4) (4) (5) (1) (1) (1) (2) (3) (4) (5) (1) (1) (2) (3) (4) (5) (5) (1) (1) (1) (2) (3) (4) (5) (5) (1) (1) (1) (2) (3) (4) (5) (5) (1) (1) (2) (3) (4) (5) (5) (6) (7) (8) (9) (17) (18) (18) (19) (19) (19) (10) (11) (20) (21) (21) (21) (22) (32) (33) (4) (4) (5) (5) (5) (5) (1) (1) (2) (2) (3) (4) (5) (5) (5) (6) (7) (7) (7) (8) (8) (9) (9) (1) (1) (1) (2) (2) (3) (3) (4) (4) (5) (5) (6) (7) (7) (8) (9) (9) (10) (11) (12) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (29) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (29) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (28) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (28) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (28) (29) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (28) (28) (29) (20) (20) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (27) (28) (28) (28) (29) (20) (20) (20) (21) (22) (23) (24) (25) (26) (27) (27) (27) (28) (28) (28) (28) (29) (20) (20) (20) (21) (22) (23) (24) (25) (26) (26) (27) (27) (28)		ALE C	FEMAL	E TUNDE	TERMINED	1	YES THE REPO		
13. PLACE OF DELIVERY REPORTING	CC	MPLET	E THES	E ITEMS F	OR FETAL	DEATH ONLY		THESE ITEMS FOR INFA	INT DEATH ONLY
TREPORTING HOME OTHER REPORTING MOME OF SECTION OTHER REPORTING OTHER RE	A.	B.	Dey	Year	" YHIS'S	PACE IN	Me. De	Year 18. TIME	OF DEATH idear, elect)
THOSPITAL 2 (Specify) 14. WEIGHT OF FETUS 15. CROWN RUMP LENGTH 20. BIRTH MUJURIES PRESENT 16. FETUS DIED 17. COMPLETE THESE ITEMS FOR EACH DEATH 27. CAUSE OF DEATH (Include according lines see and conditions) 18. CROWN according lines see and conditions. CROLE the remainer of libe underlying WRITE IN THIS SPACE (1) (2) (3) (4) (5) (5) (1) (1) (2) (3) (1) (2) (3) (4) (5) (1) (2) (3) (4) (5) (1) (2) (3) (4) (5)	13. PLA	CE OF	DELIVE	RY	L	·	19. PLACE OF DE	ATH	
Tide Fetus Died Sefore During Labor Unknown		EPORT IOSPITA	ING Z				REPORTING		,
THIS SPACE THIS SPACE TOURING LABOR UNKNOWN T LABOR 2 OR DELIVERY SUNKNOWN COMPLETE THESE ITEMS FOR EACH DEATH 23, CAUSE OF DEATH (Include accordance of lineagese) and conditioner. CERCLE the number of lineagese (1) (2) (3) (4) (5) (5) (1) (2) (1) (2) (3) (4) (5) (6) (7) (7) (8) (9) (1) (1) (1) (2) (3) (4) (5) (5) (6) (7) (7) (8) (9) (1) (1) (1) (2) (3) (4) (5) (5) (6) (7) (7) (8) (9) (1) (1) (1) (2) (3) (4) (5) (5) (6) (7) (7) (8) (9) (1) (1) (1) (2) (3) (4) (5) (5) (6) (7) (7) (8) (9) (9)	14, WER	CHT OF	FETUS		15. CR	74 RUMP LENGTH	20, BIRTH MURI	S PRESENT	
21. IF "YES", DESCRIBE DURING LABOR DURING LABOR DUNKNOWN			Gram			C==	□HO □YE	\$ Пикиоми	THIS SPACE
COMPLETE THESE ITEMS FOR EACH DEATH 23, CAUSE OF DEATH (Include accordated lilenesse) and conditions. CIRCLE the number of the underlying INRITE IN THIS SPACE (1) (2) (3) (4) (5) (5) (1) (2) (3) (4) (5) (5)	16. FET						21. IF "YES", DE	CRIBE	
23, CAUSE OF DEATH (Include accordated lilenesco) and scalificate. CROCLE the number of the underlying ITHIS SPACE (1) (2) (3) (4) (5) (5)	早:	efore Abor	□Dt 2 0#	IRING LABO I DELIVERY	s 🛅 nerk	HOWN			
CROCKE the number of the underlying RRITE IN THIS SPACE ON						COMPLETE THESE			
(2)	and :	ببه ززز کمهه	w. CIRC	include nouse ILE she name	inted (lines) Of al the uni	metying WRITE IN	1		
(3)	(1)_								
(3)	(2)_						24. IF "YES", DES	CRIBE	
(5)	(3)_			·			m	····	
(5)	(4)_						(2)		

	SPACE	13	HEEDED,	INDICATE	ITEM	NUMBER	AND	ATTACH	CONTINUATION	SHEET (FORM CP-5)	
oarch h Brans	ь, имо	B, P	AtH							PED-4	(REV. 10-61)

Untcome of study pregnancy; deaths; survivors (grouped) Hirth date; date of birth or delivery (mo/day/yr) Birth date; date of birth or delivery (mo/day/yr) untcome of study pregnancy; deaths; survivors or; infant; death; autobsy performed Form Item Kumbers linked to Data Items on ADM-44, Report of Fetal or Infant Death NAME Birth; weight (coded)
Date of: fetal or; infant; death (day)
Date of: fetal or; infant; death (mo)
Oate of: fetal or; infant; death (yr) Fetal death; destation (wks) Fetal death; length, crown rump (cm) Fetal death; weight (qms) SATA ITEM Orath, place Drath, type Drath, type, revised definition Name, last, child or mother unarterly addition to file Records present; pediatric Form ADM-44 date (day) Form ADM-44 date (mo) Form ADM-44 date (yr) Hirths weight (ams) Birth date (ab) Birth date (yr) Name, last Fetal 30 28 32 1100 4777777 477977 477977 47797 553 1108 40 33 18 20 1094 1108 9 5 1093 554 24 27 31 1099 23 25 25 554 1103 554 2601 1103 FROM 1094 61 CARD 0944 0944 0844 0844 0R44 1953. NDM-44 0844 **0844** 084¢ **0844** 0844 0R44 0844 0844 0R44 0844 0844 0844 0844 1950. AUM-44 919 ... VAR 385....VAR 1939. ADM-44 1941 . AUM-44 1937. AUM-44 1938 . AUM-44 944.ADM-44 1945.ADM-44 1942.ADM-44 1935. ADM-44 448 AUM-44 940 . ADM-44 .917 ... VAR 1916 ... VAR 386 ... VAR 921 VAR 96-MOM-36-01 1943.ADM-44 1952.ADH-44 1947.ADM-44 946.AD4-44 934. ADM-44 933, AD4-44 918 ... VAR 921 ... VAR DATA TTEM ID ITE# 70.7 8.07

Definition of Codes Cause of Fetal Death Form PED-4 Card G404

	**	CAPE
FIELD		COLUMN
1.	Card Number* Code: G	1
2.	Form Number Code: 404	2 -4
3-	Revision Number** Code: 0 - Form dated: 2/59 1 - Forms dated: Rev. 7/59 or Rev. 2/61 2 - Forms dated: Rev. 10/61	5
4.	NIMBB # Nime-digit number for Patient Identification Code: As given	б -1 4
5•	Date of Delivery Item 11 Six-digit code for: Month (cols. 15-16) Day (cols. 17-18) Year (cols. 19-20) Code: As given 99 - month, day or year unknown F and five blank - Fetal death	15-20
6.	Type of Fetal Death Code: Ol - Abortion C2 - Ectopic Pregnancy 11 - Stillbirth, other 12 - Stillbirth, macerated 19 - Stillbirth, type unknown 29 - Fetal death, type unknown	21-22
7-	Place of Death Code: 0 - Study Institution 1 - Home 2 - Other hospital	23

- * As many cards are required as causes of death reported.
- ** Item numbers refer to Form dated: Rev. 10/61.

3 - Other place 8 - Elsewhere 9 - Unknown

Defin	ition of Codes (Continued)	FORM PED-4 Card G-404
FIRM	·	CARD COLUMN
8.	Weight of Fetus Item 14 Code: 0001-5999 - As given in grams 9999 - Unknown	24-27
9.	Fetus Died Item 16 Code: 1 - Esfore labor 2 - During labor and delivery 9 - Unknown	28
10.	Cause of Death Item 23 Code: Alpha code as given Unk - Unknown	29-80

DEFINITION OF CODES

REPORT OF NON-LIVEBORN TERMINATION OF PREGNANCY OR DEATH OF STUDY CHILD FORM AIM-44 CARD 0844

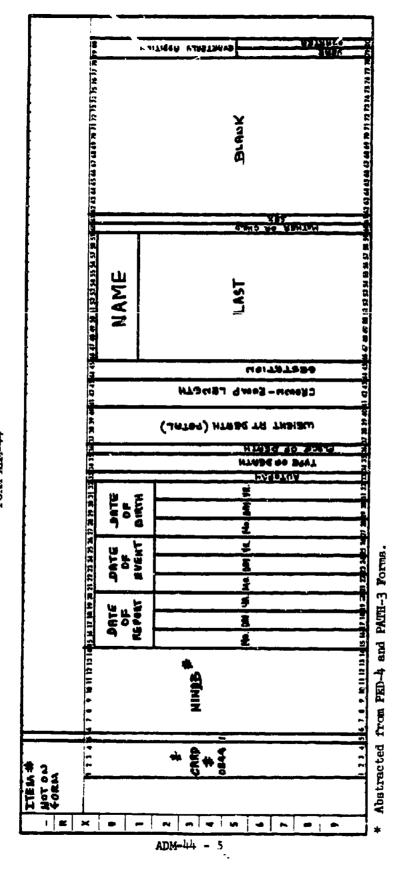
FIELD		CARD COLUMN
1.	Card Number Code: 0	1
2.	Form Number Code: 844	2-4
3.	Revision Number Code: 1 Form Dated: Rev. 12/63	5
4.	NINDB Number Nine-digit number for Patient Identification Code: As given	6-14
5.	Date of Report Six-digit code for month (cols. 1j-16), day (cols. 17-18) and year (cols. 19-20). Code: As given 079961 - Prior to July 1961	15-20 ·
6 .	Date of Event Six-digit code for month (cols. 21-22), day (cols. 23-24), and year (cols. 25-26) Code: As given 99 - Month, day and/or year unknown	21-26
7.	Date of Birth Code: Same as in Field 6, except F and five blanks - Fetal death	27-32
8.	Autopsy Code: 1 - Yes 2 - No 9 - Unknown	33
9.	Type of Death Code: O1 - Abortion C2 - Ectopic Pregnancy 11 - Stillbirth, Other 12 - Stillbirth, Macerated 19 - Stillbirth, Type Unknown 29 - Fetal Death, Type Unknown	34- 35

DEF	INITION OF CODES (Continued)	FORM ADM-44 Card 0844
FIE	<u>.D</u>	CARD COLUMN
9.	Type of Death (continued) Code: 30 - Under 24 hours of age 31 - One day 32 - Two days 33 - Three days 34 - Four days 35 - Five days 36 - Six days 37 - Seven days 38 - 8 27 days 39 - Neonatal Death, Time Unknown 40 - 28 days through one year 51 - Over one year two years 52 - Over two years three years 53 - Over three years four years 54 - Over four years five years 55 - Over five years years six years 56 - Over six years seven years 57 - Over seven years 58 - Over 8 years 59 - Child death, time unknown 60 - Mole 99 - Unknown	34-35
10.	Place of Death Code: 0 - Study Institution 1 - Home 2 - Other Hospital 3 - Other Place 8 - Elsewhere, Unknown 9 - Unknown	3 6
11.	Weight at Death (Fetal Death Only) Code: X and three blanks - no fetal death - (-) dash & 0000 - Unknown 3 blanks 0001-5999 - As given in grams 9999 - Not reported	37-40

DEFINITI	ON OF CODES (Continued)	FORM ADM-44 Card 0844
FIELD		CARD COLUMN
12.	Crown-Rump Length (Fetal Death only) Code: Blank - No fetal death 001-550 - As given in cms. to tenths 999 - Not reported 000 - Unknown	41-43
13.	Gestation (Fetal Death only) Code: Blank - No fetal death Ol-50 - Weeks as given 99 - Not reported OO - Unknown	44-45
14.	<u>Last Name</u> Fourteen-digit code for name Code: As given	46-59
15.	Mother or Child Code: 0 - Mother's last name 1 + Child's last name 9 - Unknown	60
16.	Sex Code: 1 - Male 2 - Female 3 - Undetermined 9 - Unknown	61
17.	Blank	62-76
18.	Type of Death: Revised Definition Code: , 01 - Abortion - weeks gestation < 19 02 - Abortion - PRB review 03 - Mole 11 - Stillbirth - weeks gestation > 20 12 - Stillbirth - PRB review 29 - Fetal Death - Type Unknown 30 - Under 24 hours of age 31 - One day 32 - Two days 33 - Three days 34 - Four days 35 - Five days 36 - Six days 37 - Seven days 38 - 8-27 days 39 - Neonatal Death, Time Unknown 40 - 28 days thru 1 year	77-78

DEFINITION OF CODES (Continued) FORM ADM-44 Card 0844 FIELD CARD COLUMN 51 - Over 1 year - 2 years 52 - Over 1 year - 2 years 52 - Over 2 years - 3 years 53 - Over 3 years - 4 years 54 - Over 4 years - 5 years 55 - Over 5 years - 6 years 56 - Over 6 years - 7 years 57 - Over 7 years - 8 years 58 - Over 8 years 59 - Child Opath Time Univers 59 - Child Death, Time Unknown 99 - Unknown 19. Quarterly Addition to File 79-80 Two-digit code for: Year (col. 79) Code: Blank - Prior to July 1963 3-9 - 1963-1969 as given 0-2 - 1970-1972 as given Quarter Case First Reported (col. 80) Code: Blank - Prior to July 1963 1 - January - March 2 - April - June 3 - July - September 4 - October - December

REPORT OF NOK-LIVEBORN TETATION OF PREGNANCY OR DEATH OF BRUDY CALLD FORM AIM—44)



II.E.138

REPORT OF FETAL OR INFANT DEATH (For Form PED-4, Revised 10-61)

I. INTRODUCTION

The PED-4 Form is to be used to report the fact of death of a Study product of conception and o report curtain additional information regarding the death.

The fact of death need not be reported on a Form CP-1.

II. GENERAL INSTRUCTIONS

A PED-4 report is to be submitted on every Study product of conception that dies. This includes abortions and stillbirths (fetal deaths), deaths that occur in the nursery period, and doaths that occur after discharge from the nursery.

A. SCHEDULE OF REPORTING

- 1. Feel Deaths. The PED-4 report is to be submitted within ten (10) days of the date of fetal death or the date the Study hospital becomes informed of the death. The report should not be delayed in anticipation of more detailed or complete information regarding the death.
- 2. Deeths in the Nursery Period. The PED-4 report is to be submitted together with other Nursery Study Records within three weeks after the infant's discharge from the hospital, as provided for in the PED-7 Manual. The report should not be delayed in anticipation of more detailed or complete information regarding the death.
- 3. Deaths After Discharge from the Nursery. The PED-4 report is to be submitted within ren (10) days after the Study hospital becomes informed of the death. The report should not be delayed in anticipation of more detailed or complete information regarding the death.

B. CONTENT OF REPORT

The report is to contain the required patient identification data and other requested data which are available. So sure to indicate whether an autopsy has been done and include the provisional diagnoses from gross autopsy findings when available.

C. SUPPLEMENTARY INFORMA JOH

Detailed autopsy findings and any additional data regarding the death are to be reported on a CP-5 or other applicable Study forms, with patient identification of the PED record which is being supplemented. The supplementary report is to be submitted only after complete information has been obtained regarding the death.

D. TRANSMITTAL

The original and first carbon copy of completed Form PED-4 are to be sent to PRB,

III. SPECIFIC INSTRUCTIONS

- Item 1, Patient Identification. For fetal deaths this item is to be completed by using the gravida's name and the NINDB number which would have been assigned to the live-born child. The suffix "FD" should be added to the NINDB number. For all other deaths this item is to be completed by using the infant's identification stamp which is to contain the following information: name, NIT DB number, date of birth, time of birth, birth weight, sex, and race.
- Item 2, Name of Recorder. Record the name of the person completing this record.
- Item 3, Title or Position. Record the professional itile or position of the person completing this record (i.e., pediatrician, obstetrician, pathologist, nurse, secretary, etc.).
- Item 4, Date of Record. Record the month, day, and year on which this reserd was completed.
- Item 5, De Net Write in This Space. This space and spaces numbered 12, 22, 24, and 27 are reserved for coding curposes and require no entry by the recorder.
- Item 6. Type of Recerci. Check the appropriate hox to indicate whether this is a report of a fetal death (death of a product of conception prior to complete separation from the mother) or a report of an infant death (death of a live-born child occurring at any age, even beyond the period of infancy).
- Item 7, Autopay Number. If an autopsy has been done, record the identifying number here. Otherwise write "none" in this space.
- Item 8, Other Record Number. Record here identification numbers, not included in Items 1 or 7, by which this case is known to other departments or other institutions.
- Item 9, Sex. If this information is included in Item
 1, it is not necessary to repeat it iere. Otherwise check the appropriate box for sex.
- Item 10, Autopsy. Record whether an autopsy was performed and, if so, where, if the autopsy was performed in another hospital (including morque or coroner's laboratory), give the name and iddress of the other hospital and any other information in addition to Items 7 and 8 which may be necessary to identify the case in that hospital.

October 1961

- Stems 11 to 16. Complete These Items For Fetal
 Douth Only. These items are to be completed
 only in the case of a fetal death. Disregard these
 terms in the case of an infant or child death.
- Item 11, Date of Delivery Of Fetus. Record the month, day, and year of the delivery of the fetus.
- Item 12, De Net Write In This Space. Same as Item 5.
- item 13, Place of Delivery. Record whether the delivery occurred in the reporting hospital, home, or other place. If "other" place, specify where. If in another hospital, give the name and address of the institution and other identification data necessary to trace the case.
- Item 14, Weight of Fotos. Record in grams the weight of the fotus of birth. If this weight is unknown, write "unknown" in this space.
- Item 15, Crews Fump Length. To obtain this measurement, extend the measuring instrument on a flat table. Over the instrument place the fetus flat on its back with the head extended in the midline. Flex the thighs to a right angle with the body. Measure the distance from the outer-most extension of the crown to the outer-most extension of the rump. Record this distance in commeters.
- Item 16, Fetus Died. Record whether the fetus died before cases of labor or during labor and delivery. If this information is not known, check the bex "Unknown."
- Item 17 to 21, Complete These Items For Infant
 Death Daly. These items are to be completed
 only in the case of an infant death. Disregard
 these items in the case of a fetal death.
- Item 17, Date of Death. Record month, day, and year on which death occurred.
- from 18, Time of Dooth. Record the time of death in 24-hour-clock time for all infant deaths under 7 days of age. Disregard this item for infant deaths occurring at age 7 days and over.
- Stam 19, Place of Danth. Record whether the death occurred in the reporting hospital, home,

- or other places. If "other" place, specify where, If in another hospital, give the name and address of the institution and other identification data isoecsary to trace the case.
- items 20 and 21, Birth injuries Present. Record the absence or presence of birth injury in infant deaths under 28 days of age. If present, specify the type and location of the injuries. Disregard this item for infant deaths at age 28 days and over.
- Item 22, Do Not Write In This Space. Same as Item δ .
- terms 23 to 28, Complete These Items For Each Double. These items are to be completed for each fetal or infant death.
- Item 23, Cause of Death. List in standard medical terms your clinical impressions of the medical condition initiating the sequence of events terminating in death and of any other medical conditions associated with the death. Civile the number of the underlying cause of death. Maternal factors which may have initiated or contributed to the death should be clearly identified as maternal factors. Gross supposy findings are to be listed under item 28, Remarks.
- from 24, Do Not Write in This Space. Same as Item 5.
- items 25 and 26, Malformetiens Present. Record the absence or presents of congenital malformations. If present, specify the type and location of each malformation,
- Item 27, Do Not Write In This Space. Same as Item 5.
- item 28, Remerks. Use this space to record gross antopsy findings and to provide further information on any of the preceding items. Identify the remarks with the number of the item to which they refer. If more space is needed, continue on Form CP-5, Continuation Sheet.

86V 3161				<u></u>	
REPORT OF FETAL OR INFA	NT DEATH	aupero	edid by cR-3004 er. 10-61	-4	
2. NAME OF EXAMINER 3. TITLE	OR POSITION	1			
A. DATE OF RECORD S. DO NOT WRITE IN	G. TIPE OF RECORD	INVANT DEATH	7. AUTOPSY	NUMBER 6. GT	HER RECORD NUI
# SEX	10. AUTOPRY	IN ASPOSTING			
COMPLETE THESE ITEMS FOR PETAL				102 INFANT DE	
11. DATE OF DELIVERY OF FETUS 12. DO N. Ma. Day Year THIS	OF WRITE IN	Me. Dey		17. TIME OF C	
13. PLACE OF DELIVERY THOSPITAL HOME TOTHER		TE PLACE OF OEA		OTHER (Beech)	
14. WEIGHT OF FETUS CHECK HERE IF WEIG	FRAME	19. BIRTH INJURIE NO [] YES 30. IF "YES", DES	UNIONO		21. DO WRITE THIS SP
	IDIOWN	, 513	J		
(2) (2)					
(£)					
(2.) (3.) (4.) (5.)					
(2.) (3.) (4.) (5.) (6.)					
(2) (3) (4) (5) (6) (7) (1)					
(2) (2) (4) (5) (6) (7) (8) (10) (10) (10) (10) (10) (10) (10) (10			ONTINUATION (EHEET (FORM C	
(2.) (3.) (4.) (5.) (6.) (7.) (8.) (9.) (10.) 1F MORE SPACE IS NEEDED 25. MALPOSMATIONS PRESENT: © NO []	YES D HOT DETERMINE		NTINUATION (EHEET (FORM C	27. 50 WRITE
(2) (3) (4) (5) (6) (7) (8) (7) (10) IF MORE SPACE IS NEEDED 25. MALPORMATIONS PRESENT: 0 NO 1 1 O 1 20. IF "YES", LIST AND DESCRIBE MALP	YES HOT DETERMINE	10	NTINUATION I	EHEET (FORM C	27. 50 WRITE
(2) (3) (4) (5) (6) (5) (8) (7) (8) (7) (10) (F) (10) (F) MORE SPACE IS NEEDED 28. MALFOMATIONS PRESENT: 0 NO [] 29. IF "YES", LIST AND DESCRIBE MALF	YES HOT DETERMINE	10	NTINUATION (SHEET (FORM C	27. 50 P
(2) (3) (4) (5) (6) (6) (7) (E) (10) 1F MORE SPACE IS NEEDED 25. MALFORMATIONS PRESENT: 0 NO 1 26. IF "YES", LIST AND DESCRIBE MALF (1) (2)	YES HOT DETERMINE	10	NTINUATION (EHEET (FORM C	27. 50 I WRITE
(2) (3) (4) (5) (6) (7) (8) (7) (10) IF MORE SPACE IS NEEDED 25. MALPOSMATIONS PRESENT: O NO T 26. IF "YES", LIST AND DESCRIBE MALP (1) (2)	YES ON NOT DETERMENT		NTINUATION (EHEET (FORM C	27. 50 I WRITE
(2) (3) (4) (5) (6) (7) (8) (7) (10) (F) (10) (F) MALFORMATIONS PRESENT: (1) (1) (2) (2) (3) (4)	YES ON NOT DETERMENT		NTINUATION (EHEET (FORM C	27. 50 WRITE
(2) (3) (4) (5) (6) (7) (E) (10) 1F MORE SPACE IS NEEDED 25. MALFORMATIONS PRESENT: 0 NO 0 1 (1) (2) (3) (4)	YES ON NOT DETERMENT		INTINUATION (EHEET (FORM C	27. 50 I WRITE
(2) (3) (4) (5) (6) (7) (8) (7) (10) IF MORE SPACE IS NEEDED 28. MALPOMATIONS PRESENT: ONO O	YES O NOT DETERMINE		NTINUATION I	EHEET (FORM C	27. 50 I WRITE
(2) (3) (4) (5) (6) (7) (E) (10) 1F MORE SPACE IS NEEDED 25. MALFORMATIONS PRESENT: 0 NO 0 1 (1) (2) (3) (4)	YES O NOT DETERMINE		ONTINUATION (EHEET (FORM C	P.S) 27. DO P WRITE THIS SP

PHS-30 REV. 7-	90	ORT C	F PETAL C	OR INFA	ملّنائ MT DEATH	•	1. PA	TIENT IDEN	THICATION LOL 1-3 Not. 3	1 hr		
								ρι.	COLKIN	اعر		
2 KAM	E OF ED	AMINEA		3. TITLE C	A FOSITION		1		100			
4. DATE		YZZZ	8. TIME RE (Un 14-le		6. TYPE OF R			NT DEATH			A. OTHER	
9. SEX	41	PEMALE	Ģ UNDETI	ERMINEO	ID. AUTOPEY	YES		REPORTING				
	COM	PLETE TH	ese items fo	OR PETAL D	EATH ONLY		I.	COMPLET	E THESE ITEMS	FOR INFA	NT DEATH ON	LY
II. DAT		DAY DAY	OF FETUS YZAZ		OF DELIVERY for closely		16. DAT	DAT		. ,	OF DEATH	
	CE OF I EPORTI HOSPITA	T A		OTHER (Poly)				RGP OF DEA REPORTING HOSPITAL		OTHER (4-4/2) ~		
14. WE	CHT OF	FETUE					19. BIA	TH INJURIE	S PRESENT			al. DO NOT
			CHECK HER		AMS IT UNKNOWN	n i		NO □YES	□ UNKNOV	VN		UBE
18. F&T	US DIE					<u> </u>	20. IF	"YES", DESI	- GRIBE			.
모	EFORE ABOR	ΨX	RING LAICH DELIVERY		NOWN							1
ar		DEATH (مده محددات ا رخصه او محد		WAIT	NOT TEIN SPACE		، خند سے مائد ر رخستہ خنت ر	pan in dans		
_	24											
_	3.)											
٤.	5.)			·								
<u></u>												
_	2/ /.)											
<u></u>												
	<u></u> 2.)											
(10												
	**)	IF MOR	E SPACE IS	NEEDED IN	DICATE ITEM	NUMBER	I A DNA P	TTACH CON	ITINUATION SH	EET :FOR	M ADM-6)	
		VIIONS P	8	INO TYE	S Q NOT D		ED			-		27. DO NOT USE
0.	L]
(2.	<u> </u>											1
[3.]	L			<u></u>							<u></u>	j
[4.]	L							····				
(5.	<u> </u>											
(4)	L		<u>-</u>									
<u>(7.)</u>	<u> </u>					· -						
(8.)	<u> </u>											
(9.)	1											

REV 7-59 (PED-4)

•					و المستعملية	ry.	
REPORT OF PETAL OR IMPART DEATH T. KAME OF EXAMPLE TO AYE (180-000-17) TO AYE (180-000-17)							
AME OF EXAMPLE		E TITLE	DA POSITION				
ATE (Robus) (a)	4. This A	consts traini	1		C. HOSPIYAL		
	E ÇIUNDE	TERMINED	& AUTOFOL	H REPORTING			
COMPLETE THE	SE ITEMS	OF PETAL	DEATH ONLY			EGS 145.445	-
DATE OF BELIVERY	OF PRIVE	11. THE DI	OELIVERY	SE DATE OF BRAT		14. TIME 41	DEATH
SESONSTALC.		OTHER (Spenily)				OTHER -	
	CHECK HE	AR IF WEIGH	MAS T UNKNOSKI]	<u> </u>	PRESENT		
FETUR MED				l ' '	-		
3 4 5 4 7 8		iF M	NE PACE IS NEEDED				
IP "YES", LIST AND	DETENSE		TIONS HERE	ED			
3.							
6.			······································				
7.							
<u>.</u>				·			
6. 7. 8.							

PED-5 Results of Tests and Procedures Done on the Neonate

Form PED-5 was used to provide a record of the results of all tests and procedures performed on the neonate. Implemented in May 1960, the form was not revised. Data from PED-5 were punched onto card 0405 Revision 0 of the master file (Table PED-5.1). Prior to May 1960, results from tests and procedures were included on the January 1959 version of PED-7 "Summary of the Hospital Course of the Neonate, Record of Examination." These data are also included in the master data file on card 0405 Revision No. 1 (see Table PED-5.1).

TABLE PED-5.1 Cards and Data Records by Revision for Form PED-5

Card Name	Card Number	Rev. No.	Number Records
PED-5: Serum Bilirubin, Hemoglobin and Hematocrit, etc.	0405	0	47,094
PED-7: Serum Bilirubin, Hemoglobin and Hematocrit	0405	1	6,109
	total f	or form	53,203

Card number (sequence, form type, form number, revision number)
NINOS case number
Birth date (mo)
Birth day (day)
Birth day (vr) Data Items Referencing Form PFD-5, Result of Test and Procedures done on the Meonate Blond for meonate characterization, source DAIA IIFM KRME highest, direct (hrs) first, direct (mg %) Bilitubin, setum, 48 hr. age (hrs) Bilitubin, setum, 48 hr. direct (mg %) Bilitubin, setum, 48 hr. total (mg %) Bilirubin, serum, highest, total (hrs) first, total (ng b) Bilirubin, serum, highest, age (hrs) Bilirubin, serum, first, total (44%) Hematocrit, lowest (14%) first, age (hrs) Proteins albumin; serum, performed Bilirubin, setum, maximum (coded) Rh type, additional information Coombs' test, direct Bilirubin, serum, meximum (math) Heanglobin, lowest, age (hrs) Heastnorit, lowest, age (hrs) Hemoglobin, lowest, age (hrs) Hemstocrit, lowest, age (hrs) Hemoglobin, 48 hr. age (hrs) Hemoglobin, 48 hr. (pm %) 48 hr, age (nrs) Hematocrit, lowest (percent) 48 hr (percent) Hemoglobin, lowest (3m %) Hemoglobin, lowest (mas) Ofitrubin, merum, number Laboratory tests, other Coombs' test, direct. Bilirubin, serum, Bilirubin, serum, Bilitubin, serum, Bilirubin, serum, Bilituoin, Serum, Cord; blood Hemstocrit, Heastocrit, Blood type Rh type Rh type Blank 588 590 504 595 1129 1133 592 1130 FROM 587 589 593 1129 1130 56 CARD 0405 TTEN FURK 20,21 5420 ... VAR 1116..PED-5 5417 ... VAR 5418 ... VAR 5419 ... VAR 5421 VAR 5941....VAR 4109..PED-5 1113..PED-5 1114..PED-5 1117..PED-5 1132..PED-5 1135..PEP-5 5943....VAR 1110..PEP-5 1116..PED-S 1122..PED-5 1124..PED-5 1125..PED-5 1128..PED-5 1129..PED-5 130. PED-5 131..PED-5 133., PED-5 1134..PED-5 4107 4108..PED-5 1111..PED-5 1112..PED-5 1115..PED-5 118..PEP-5 1119..PED-5 1120..PED-5 (121..PED-5 1123..PED-5 126..PEn-5 127..PED-5 1137.... 5416....VAR 5942:...VAR DATA ITEM

5944 VAR

Weonate	DATA ITER RAME	
t pe	蓝	
5	1	
Jone	DAT	
cedures		(44K) (44K)
Pro		ars ars
T		* *
Test		alobin tecrit
0		6.40C
Fesult	Ę	1228 Hemodlobin 48 hrs (4mk) 1230 Hematocrit 48 hrs (4mk)
PED-5,	FROM	1227
Form	CARP	
eferencing	TTEM ON POSK	18 19
Data Items Referencing Form PED-5, Result of Test and Procedures done on the Meonate	DATA ITEW ID	5991VAR 18

RESULTS OF TESTS AND PROCEDURES DONE ON THE NEONATE 2. CORD BLOOD - REQUIRED 1. ABO BLOOD TYPE A AB 1. ABO BLOOD TYPE A AB AB AB AB ABO BLOOD TYPE A AB AB AB AB AB ABO BLOOD TYPE BAB AB	2. CORD 8LOOD - REQUIRED 1. ABO SLOOD TYPE 4. Rk BLOOD TYPE	Pos.	NATE	: 					
1. ABO SLOOD TYPE	1. ABO SLOOD TYPE 4. Rt BLOOD TYPE	□A □B □Pen	4						
1. ABO SLOOD TYPE A MAD Dane (Emplain) A CORD BLOOD - OPTIONAL 7. BILINUM 8. DARECT Map. 5 4. RN BLOOD TYPE Rep. Nor Dane (Emplain) 9. TOTAL Map. 5 10. NEMOGLOBIN Ga. 5 11. HEMATOCRIT S 2. BLOOD (Check and Compilery at Names) 11. TEST OF AMERICAN (See Adv. 1998) 12. DATE DRAWN (See Adv. 1998) 13. DATE DRAWN (See Adv. 1998) 14. THE DRAWN (See Adv. 1998) 15. SERUM BILINUSH - S 16. DIRECT (Rig. 53) 17. TOTAL 18. DIRECT (Rig. 54) 18. HEMATOCRIT (PJ 19. TOTAL SERUM PROTEIN (Ga. 5) 19. TOTAL SERUM (Ga. 5) 19. TOTAL SERUM PROTEIN (Ga. 5) 19. TOTAL SERUM (Ga. 5) 19. TOTAL Map. 5 19. TOTAL SERUM (Ga. 5) 19. TOTAL	4. Rt BLOOD TYPE	□A □B □Pen	4						
A. RN BLOOD TYPE Pos. Not Dence (Suplain) 9. TOTAL Mp. 5 J. DIRECT COGMS' TEST Pos. Not Dence (Suplain) 10. NEMOGLOBIN Gen. 5 J. DIRECT COGMS' TEST Not Pose Pose (Suplain) 11. HEMATOCRIT 5 J. DATE DRAWN (Street, day, year) (4. DIRECT (Sp. 5)) J. THE DRAWN (Street, day, year) (4. DIRECT (Sp. 5)) J. THE DRAWN (Street, day, year) (4. DIRECT (Sp. 5)) J. SERUM BILLINUBIN - 17. TOTAL (Sp. 5) J. MEMATOCRIT (M) J. TOTAL SERUM PROTEIN (Gen. 5) J. SERUM ALBIANN (Gen. 5) J. SERUM ALBIANN (Gen. 5) J. OTHER TESTS AND PROCEDURES (Statistical and Vinal Colleges, Stead and GET Chamberine, Everye, and 11. DATE (21 TIME (21		Pes					DNAL		
4. RN BLOOD TYPE Pan. New Danie (Emplain) 9. TOTAL Mg. 5. 10. DIRECT COGMAS' TEST New New Danie (Emplain) 10. HEMOGLOBIN Gm. 5. 2. BLOOD (Cheeck and Capillary or Vanctor 11 (28 (20 (44 (28 (49 3.7 New Danie)))) 14. THE DRAWN (See May Decel)) 15. SERUM BILIRUBIN 17. TOTAL (AG. 51		<u>T</u>			7.1				Un #
S. DIRECT COCHAIS, TEST No. No. No. Done (Empirical) 11. HEMATOCRIT S. ALOOD (Check cord) Capillary or Venues 1. DATE DRAWN (See Acer clock) 1. THE DRAWN (See Acer clock) 1. SERUM BILIRUBIN - 17. TOTAL 18. HEMATOCRIT (N) 1. TOTAL SERUM PROTEIN (Ga. N) 1. SERUM ALBUMN (Co. N) 1. OTHER TESTS AND PROCEDURES (Benatical and Virial Columns, Blood and CSF Chemisotics, Zivaya, cal.) (1) DATE (2) TIME (3) TEST OR PROCEDURE (4) RESULT TO	5. DIRECT COOMIS' TEST		□ №	t Done (Esplain)	<u> </u>				
SERUM BILLIRUBIN - 17. TOTAL INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INTERD CRAIN (Ge. N) INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INTERD CRAIN (Ge. N) INEMATOCRIT (Mg. N) INTERD CRAIN (Ge. N) INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INEMATOCRIT (Mg. N) INTERD CRAIN (Mg. N) INTERD CRAIN (Mg. N) INEMATOCRIT (Mg.		•	□H•	i Dene (Empleia)	 				Gas. %
L DATE DRAWN (Mesh, day, year) L THE DRAWN (Mesh, day, year) L THE DRAWN (Mesh, day, year) L SERUM BILLIRUBIN — (Ap. 7) (Ap.		∏ Hee	-		11.8	BAATOCRIT		_	*
L THE DRAWN (See Note clock) 1. THE DRAWN (See Note clock) 1. SERUM BILLIRUBIN — 1. SERUM BILLIRUBIN — 1. TOTAL 1. HEMOGLOSM (Con. 3) 1. HEMOGLOSM (Con. 3) 1. SERUM ALBUMN (Con. 3) 1. SERUM ALBUMN (Con. 3) 1. OTHER TESTS AND PROCEDURES (Emissis and Viral Galarray, Blood and CSF Chemistrics, Everys, con.) 1. DATE (2) TIME (3) TEST OR PROCEDURE (4) RESULTS	i. 8L000 (Clock enc) [Capill	a y •• □ ∨	-		15	(4)	441		
1. TEME DRAWN (26 here clock) 16. DIRECT (ALG. 31) 17. TOTAL (ALG. 31) 1. HEMOGLOBM (Con. 31) 1. HEMOGLOBM (Con. 31) 1. TOTAL SERUM PROTEIN (Con. 31) 1. SERUM ALBRAMN (Con. 31) 1. OTHER TESTS AND PROCEDURES (Besterial and Vinal Colleges, Blood and CSF Chemispies, E-rays, eds.) 1. DATE (2) TIME (3) TEST OR PROCEDURE (4) REBULTS	L DATE DRAWN (Mouse, day, you	"		T		 -	144		
SERUM BILIRUBIN - (45 %) HEMOGLOBNI (65 %) HEMATOCRIT (70) TOTAL SERUM PROTEIN (65 %) SERUM ALBUMIN (65 %) OTHER TESTS AND PROCEDURES (2 material and Viral Cultures, Blood and CSF Chemistrics, Z-rays, ess.) [1] DATE (2) TIME (3) TEST OR PROCEDURE (4 REFULTS				 			 	<u> </u>	
I HEMOGLOSM (co., 3) I HEMATOCRIT (n) I TOTAL SERUA PROTEIN (co., 3) SERUM ALBRAM (co., 3) OTHER TESTS AND PROCEDURES (Bestorial and Vinal Colleges, Blood and GSF Chemicariae, Z-rays, cos.) (11) DATE (2) TIME (3) TEST OR PROCEDURE (4) RESULTS	S. SERUM BILLARUSIN -	16. DIR	ECT						
I. HEMOGLOSIN (cm. st) J. HEMATOCRIT (st) J. TOTAL SERIAL PROTEIN (cm. st) J. SERIAL ALBIANN (cm. st) L. OTHER TESTS AND PROCEDURES (Emistrial and Vinal Colores, Bleed and GIF Chemistrice, X-rays, ess.) (1) DATE (st) TIME (st) TEST OR PROCEDURE (4) REBULLTS		17. TOT	ST]			i
TOTAL SERUM PROTEIN (Ga. %) SERUM ALBUMIN (Ga. %) OTHER TESTS AND PROCEDURES (Basterial and Viral Collarse, Blood and GSF Chambridge, E-rays, eds.) (1) DATE (2) TIME (3) TEST OR PROCEDURE (4) RESULTS	HEMOGLOBIN (G., X)								
SERIM ALBUMN (Gn. %) OTHER TESTS AND PROCEDURES (Famorial and Viral Columns, Blood and GSF Chemistrics, E-rays, sta.) [1) DATE (2) TIME (3) TEST OR PROCEDURE (4) RESULTS	HEMATOCRIT (NJ			 					
OTHER TESTS AND PROCEDURES (Baracial and Viral Columns, Blood and CSF Chemistrica, X-rays, etc.) [1) DATE (2) TIME (3) TEST OR PROCEDURE (4) REFULTS	TOTAL SERUM PROTEIN (GAL	5)		 					
(1) DATE (2) TIME (1) TEST OR PROCEDURE (4) REGILTS	. SERUM ALBUMM (GL. %)			 					
	·	A TESTO	RPRO	CEDURE		(4	REGULTS	· · · · · · · · · · · · · · · · · · ·	
	·								
		 -			<u>_</u>				
						 -			
		 -							
							-		
					'		 		···
COMMENTS						·			
	COMMENTS								

Form Item	Numbers linked		to Data Items	NO SE) PFD-5, Result of Test and Procedures done on the
ITEN ON FOR	DATA	CARD	MOGS	Ę	
	•			•	
	5421VAR		595	595	Bilirubin, serum, meximum (coded)
•	5420 VAR		593	594	Serua, askiaus
- -	4108PEU-5	0.00	<u>.</u>	9 :	Birth date (30)
	4110PED-5	0405	- 6	20	
e	4111PFD-5	0405		21	
•	5941 VAR			1129	Blood type
•	5942VAR			1130	Rh type
•	4112PED-5	0405	22	22	
♥ 1	4113. PED-5	0 4 C J	23		addit
ır ı	4114PED-5	0405	8 1		
n •	S415VAR	1	٠ د د		Coopes test, ulrect
.	4115PED-5	2040	52	25	
2 7	416. PED-5	0405	56	56	_
• •	4120PED=3	5000	* !	.	Seres,
<u> </u>	4122	0.40	,	F 4	Dilitudio, School Minds, and (DYS)
	4126 DFD-5	040	: 3	7	
9	4121 PED-5	0405		-	
16	4118 PED-5	0405	9	31	Serus, first, direct (30
16	4124PFD-5	0405	4	.u5	Serus, blobest, Girect (
17	4122PED-5	0405	ě	9	Serung
17	4119PED-5	0405	32	E	serum,
11	5417 VAR		587	588	Setum, first, total (a
11	4125PFD-5	0405	4	47	
œ ;	5991 VAR		1221	1228	48 hrs (
9 0	4124 PEU-5		3	7	THE HE
. a	4127 05045	0.40 0.040 0.040	7. F		resocionis, 4x 5r, 8de (5rs)
8	S419VAR		5	100	1040
84	4129 PED-5	0405	45	92	Date
18	5943VAR			1133	lowest, age
19	5492 VAR			1230	48 hrs (48%)
6	4132PED-5	0405		63	Hematocrit, 48 hr (percent)
61	4131PED-5	0402	29	61	Hemstocrit, 48 hr, age (hrs)
3 .1	5418VAR		583	200	losest
5 ·	4134. PED-5	0402	67	æ	lowest
61	4133PED-5	0402	49	99	lowest, age
			1134	1136	, age (
20,21	4135. PED-5	0402	5	69	
22	4136PED=5	0404	6	70	Laboratory tests, other

DEFINITION OF CODES

RESULTS OF TESTS AND PROCEDURES

DOME ON THE NECKATE FORM PED-5 CARD 0405

FIELD		CARD COLUMN
1.	Card Number Code: O	1
2.	Form Number Code: 405	2-4
3.	Revision Number * Uode: 0 - PED-5- Form Dated: 5/60 1 - PED-7- Form Dated: 1/59	5
4.	NIMOB Number Rine-digit number for Pritient Identification Code: As given	6-14
5.	Date of Birth Six-digit code for month (cols. 15-16), day (cols. 17-18), and year 19-20). Code: As given	15-20
6.	Blood Type Item 3 Code: 1 - 0 2 - A 3 - B 4 - AB 9 - Unknown	27
7.	RH Blood Type Item 4 Type (column 22) Code: 1 - Positive 2 - Regative 9 - Unknown	22-23
	Additional Information (column 23) Code: 1 - Type and Additional Information 2 - Type and No Additional Information 3 - No Type but Additional Information 9 - Type and additional information unknown	
* Unless : Numbers	specified, Fields, Codes and Card Columns refer to Rev "O" and "1". Item Numbers refer to Form Dated: 5/60	ision

Revised September 1965

```
DEFINITION OF CODES (Continued)
                                                                    FORM PED-5
                                                                    Card 0405
FIELD
                                                                    CARD
                                                                    COLUMN
8.
        Direct Coomb's Test
                                                                    24
        Item 5
        Code: 1 - Positive
               2 - Negative
               9 - Unionoun
9.
        Cord Blood
                                                                    25
        Item 6
        Code: 0 - Bilirubin only
               1 - Hemaglobin only
               2 - Hematocrit only
               3 - Combination of codes 0 and 1
               4 - Combination of codes 0 and 2
               5 - Combination of codes 0, 1 and 2
               6 = Combination of codes 1 and 2
               9 - Unknown
10.
        Capillary or Venous (Rev. "0" only)
                                                                   26
        Item 12
        Code: Blank - Not on Rev. "1"
               1 - Capillary
               2 - Venous
               3 - Capillary and Venous
               9 - Unknown
11.
        First Serum Hilirubin
                                                                   27-33
        Seven-digit code for:
          Age (cols. 27-29)
          Code: 000 - Less than one hour
                 001-997 - As given in hours
                 998 - 998 hours or more
                 999 - Unknown
          Direct Value (cols. 30-31)
          Code: 00 - Less than 1
                 01-08 - As given in mgms. %
                 99 - Unknown
         Total Value (cols. 32-33)
Code: 00 - Less than 1
                 01-25 - As given in mgms. %
                 99 - Unknown
         Additional codes reviewed and approved (cols. 32-33):
         26, 29, 35
```

DEFINI	TION OF CODES (Continued)	FORM PED-5 Card 0405
FIELD		CARD COLUMN
12.	48 Hour Serum Bilirubin Seven-digit code for: Age (cols. 34-36) Code: Same as in Field 11, cols. 27-29 Direct Value (cols. 37-38) Code: Same as in Field 11, cols. 33-31 except addition codes reviewed and approved: 10, 16, 22 Total Value (cols. 39-40) Code: Same as in Field 11, cols. 32-33 except additional codes reviewed and approved: 26-29	
13.	Highest Serum Bilirubin Seven-digit code for: Age (cols. 41-43) Code: Same as in Field 11, cols. 27-29 Direct Value (cols. 44-45) Code: Same as in Field 11, cols. 30-31 except additional codes reviewed and approved: 09,10 Total Value (cols. 46-47) Code: Same as in Field 11, cols. 32-33 except additional codes reviewed and approved: 26-38	
14.	Number of Bilirubins Code: 0 - 1 bilirubin 1 - 2 bilirubins 2 - 3 bilirubins 3 - 4 or more bilirubins 9 - Not reported	43
15.	18 Hour Hemoglobin Item 18 Five-digit code for: Age (cols. 49-51) Code: Same as in Field 11, cols. 27-29 Yalue (cols. 52-53) Code: C;-30 - As given in gms. 5 99 - Unknown Additional codes reviewed and approved: 50, 52, 55,	49 - 53
	60,62	JI, JZ,

Derikin	ION OF CODES (Continued)	FORM PED-5 Card 0405
FIELD	,	CARD COLUMN
16.	Lowest Remoglobin Item 15 Five-digit code for: Age (cols. 54-56) Code: Same as in Field 11, cols. 27-29 Value (cols. 57-58) Code: Same as in Field 15, cols. 52-53 except additional codes reviewed and approved: 02-04, 50, 55, 57, 59, 60, 62.	54-58
17.	48 Bour Benstoerit Item 19 Five-digit code for: Age (cols. 59-61) Code: Same as in Field 11, cols. 27-29 Value (cols. 62-63) Code: 25-65 - As given in \$ 99 - Unknown Additional codes reviewed and approved: 19, 22-24, 86-90	59 -6 3
18.	Lowest Hematocrit Item 19 Five-digit code for: Age in Hours (cols. 64-66) Code: Same as in Field 11, cols. 27-29 Value (cols. 67-68) Code: 10-85 - As given 99 - Unknown Additional codes reviewed and approved: 86-90	64-68
19.	Frotein and/or Albumin Code: 0 - Serum protein and/or albumin reported 9 - Not reported	69
20.	Code: 0 - Other tests and/or procedures reported	70

RESULTS OF TESTS AND PROCEDURES DONE ON THE NEWNAME FORM PED-5, PED-7*

MEMORICO MAN DE SONO DE LOS DEL LOS DE LOS DE LOS DE LOS DEL LOS DE LOS DEL LOS DELLOS DEL LOS DELLOS DELLO
--

PEDIATRICS MANUAL RESULTS OF TESTS AND PROCEDURES DONE ON THE NEONATE (For Form PED-5, 5-60)

- A. INTRODUCTION. The purpose of Form PED-5 is to provide a record of the results of all tests and procedures performed on the accounte. This manual has been prepared for use as a guide in reporting this information. Specific instructions for performing the laboratory tests and procedures are not included in this manual.
- B. GENERAL INSTRUCTIONS. The form is arranged for convenience in reporting the required laboratory tests. Space is also provided for easy reporting of other frequently performed tests. A large portion of the form is left for detailed reporting of other laboratory tests and special procedures performed as part of another research study or for the care of the infant.

Local policy shall determine when and by whom the results of laboratory tests and procedures are transferred from the hospital record to the study record PED-5. It is desirable that this be done and forwarded to NIH as soon as possible after the child is discharged from the hospital. If certain studies, such as viral cultures which may take several weeks or months to complete, are in progress, PED-5, containing the routine data should be sent in promptly with an indication that the results of other tests (specify) will be sent later.

- C. INSTRUCTIONS AND DEFINITIONS FOR COM-PLETING ITEMS ON FORM PED-5.
 - Item 1, Patient identification. This item is to be completed using the patient's name plate.
 - Gord Blood-Required. The following three items are the tests on cord blood the Study requires for every infant. If the cord blood is lost and venous blood is used for the tests, record the

- results in these spaces, but indicate the source of the blood.
- hem 3, ASO Sleed Type. Report as "A", "B", "O", or "AB" as minimum data. Subtypes may also be reported but should not confuse the report of the major type.
- Item 4, Rh Blood Type. Report as "Rh positive," or "Rh negative" as minimum data. If further typing is done, this data should also be reported, but should not confuse the report of the major (big D) type.
- Item 5, Direct Coembs' Test. Report as "negative" or "positive."
- Cord Blood-Optional. The following three items are tests which are not required, but are frequently done on cord blood. Space is provided for recording these separate from the testa done on capillary or venous blood, both to simplify editing and coding of the required tests, and because they may be of special interest.
- Items 7-9, Bilirebin—Direct, Total. Record the values in mg.% in the appropriate spaces.
- Item 10, Hemoglobin. Report as grame percent.
- Item 11, Hemeteerit. Report as percent.
- Hem 12, Blood (check one) Capillary er Veneus. . Check one of the two boxes to indicate the type of blood used for the tests reported in Items 13-21. It is assumed that the single check-mark will apply to all determinations reported in this section. Please clearly indicate if there are exceptions to this in "comments," Item 35.

May 1960

- item 13, Date Drews. This information should appear at the head of each column in which determinations are reported. Do not record the results of tests done on blood drawn at different times in the same column.
- Hum 14, Time Drews. Indicate in each column the approximate (nearest hour) time that the blood was drawn for the determinations reported in that column.
- Hems 15-17, Serum Bilimbin-Direct, Total. Record the values in mg. percent in the appropriate spaces.

The Study requires that a serum bilirubin determination be done on every infant between 36 and 60 hours of age, centering about 48 hours of age. If the total bilirubin on the first determination is 10 mg.% or over, the test should be repeated in 24 hours, and if still over 10 mg.%, a third determination should be done at 4-5 days of age.

In the case of infants weighing 2250 grams (5pounds) or less at birth, the minimum requirement will be three bilirabin determinations: one at 36 to 60 hours of age centering about 48 hours of age, a second 24 hours after the first, and a third at 4-5 days of age. If on the third determination the value is 10 mg.% or higher, the test should be repeated at intervale until the value falls below 10 mg.%.

If bilirubin determinations are done in excess of those required by the Study, or in laboratories different from that in which the routine Study bilirubins are done, these should be reported under Item 22.

Rem 18, Homoglobin. Report as grams percent.

The Study requires that a hemoglobin determination be done on every infant between 36 and 60 hours of age, centering about 48 hours of age.

Item 19, Hemeteerit. Record as percent.

This is not required, but since it is frequently done, a space is provided for reporting the value here rather than under Item 22.

- Item 29, Total Serum Pretein. This is not required, but since it is frequer by rane, a space is provided for reporting the value here rather than under Item 22.
- Hom 21, Serum Albumin. This is not required, but since it is frequently done, a space is provided for reporting the value here rather than under Itam 22.
- Items 22-34, Other Tests and Procedures. Report here the results of all special tests and procedures such as bacterial and viral cultures, blood and CSF chemistries, X-rays, surgical procedures and biopsies, urinalysis, EEG, sub-dural tap, etc.

Indicate the date and approximate time the specimen was obtained or the procedure performed, clearly identify the test or procedure, and record the results with the units or other qualifications clearly stated.

item 35, Comments. Use this space for any appropriate notes or comments.

PED-6 Neonatal Neurological Examination

Form PED-6 was used to evaluate by physical examination techniques, the function of the child's central nervous system in the first few days of life. Introduced into the study in January 1959, the form was revised in November 1959 and again in June 1961. Both revisions resulted in a reitemization of the form and some changes in wording. New items were added on the last revision (1961). This examination could be administered on a repetitive basis, however only the first two examinations were coded. Data from form PED-6 were recorded on four cards in the master file (Table PED-6.1).

TABLE PED-6.1 Cards and Data Records by Revision for Form PED-6

Card Name	Card Number	Rev. No.	Number Records
PED-6: Motor Activity, Moro, Labyrinthine (1st exam)	1406	0 1 3	11,134 2,033 39,012 52,179
PED:6: Tone and Eye Observation (1st exam)	2406	0 1 3	11,133 2,033 39,007 52,173
PED-6: Motor Activity, Moro, Labyrinthine (2nd exam)	3406	0 1 3	1,093 531 5,417 7,041
PED-6: Tone and Eye Observation (2nd exam)	4406	0 1 3	1,093 530 5,416 7,039
	iotal fo	r form	118,432

Data Items Referencing Form PED-6, Neonatal Neurological Exam

DATA JIEW NAME	Card number, (sequence, form type, form number, revision number) Birth date (day) Birth date (day) Aqu at examination (nrs) Aqu at examination (nrs) Aqu at examination (nrs) Aqu at examination at rest Eves, position at rest Weston activity; tremulous; fiftery Motor activity; tremulous; fiftery Motor activity; arithing Motor activity; arithing Motor activity; surface Motor activity; convulsions, neneralized Motor activity; other Motor activity; other Motor activity; other Motor activity; other Motor activity; tremulous; fiftery Motor activity; other Motor activity; tremulous; fiftery Convert activity; other Motor activity; tremulous; fiftery Convert activity; other Motor activity; other Convert activity; other Convert activity; other Motor activity; fifter Convert activity; fifter Convert activity; fifter Convert activity; fifter Convert activity; fifter Motor activity; fift
70	
FROM	りいち およりらか ちどょう ちゅうとう ちゅう とくり いちょう ちゅう ちょう ちょう ちゅう ちょう ちゅう ヤヤヤ ヤヤヤ ヤモモモモモモ こと ここ ここ ここ こうりょう こうしょう いんよう トラーション ちょう こうしょう こうしょう しょう アドドリ しょう いっぱい いっぱい いょう アンドドリング ロット・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
CARD NUM	
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DATA ITE	4138 4140 4141 4141 4141 4144 4144 4144 4144 4144 4144 4144 4144 4144 4141 4141 4151

Data Items Referencing Form PED-6, Mechatal Neurological Exam

CARD

KEL I

DATA

9-U3-	1406	69	62	laborinthine,	after right
PED-6 PED-6	1405	63 64	63	Reflex; laborintnine, deviation Reflex: labor'sthing, nostange	n during left rotation
vc	1406	, 6	65	labyrinthine,	ofter left r
	1406	9	99	labyrinthine,	after
9	1406	67	67	labyrinthine, devi	during right
* PED-15	1961	æ (÷	laborinthine, devi	after right
ıs y	1405	9 6	9 6	labyrinthine,	
	1405		- a	netick; tabytinenine, devistion plank	derer lese totation
•	2044	-	בי ער בי		
	2406	- vc	7	ATAOR CASA DESCRIPTION TO A CASA	se, tota Humber, tevision number;
DED-6 1	2406	_ _ _			
PED=6	2406	1 7		1 6	
	2406	-	2 5		
PED-6 7	2406	. 2	(C		
· 00	2406	24	25	Feeding, time since last feeding	
17 9	2406	56	26	1	
6 42	2406	27	77		
6 43	240K	28	78	pupils, size	
_	2406	53	29		
	2406	30	30	Eyes; oththelmoscopic exam	
	2406	31	32	Tone; extremity, upser	
	2406	33	4 F	Tone; extremity, lower	
PE0-6 53	2406	35	36	neck flexor	
	2406	37	38	Tone; neck extensor	
	2406	34	9	trunk	
	2406	7	7	Transillumination	
	2406	42	43	Reflex; tonic neck	
	2406	‡	7	tonic neck, right far	£1.50
6 65	2406	\$	45	neck, right tas	Lea
	2406	46	45	tonic neck, right sect	out are
	2406	47	41	tonic neck, right	
	2406	48	8	tonic neck, left i	
	240£	49	49	neck, left fam	
	2406	S	\$	tonic neck, left acci	
6 72	2406	51	51	tonic neck, left	
PED=6 73	2406	25	52	ofical: stans, other	
6 73	2406	53	5	abnorga	
75	2406	15	T.	ŧ	
92 9	2406	L.	V	Free Cation Condition	
	2406	. L		Exercise: total tributations of the contract o	1:1:4

Neurological re-examination (if piven), repeat of card 1406 Neurological re-examination (if piven), repeat of card 2406 Neurological abnormalities, neomatal DATA TIEM HAME Tone; extremity, upper extremity, lower cornea anterior chamber Data Items Referencing Form PFD-6, Neonatal Meurological Fxam Eves; pupil and other lens vitreous disc tundus trunk 1718 Eyes; Eves Tone; Eves Eyes; Eves Eyes; 8 ank Ę FROM CARD 2406 22406 22406 22406 22406 22406 22406 3406 4406 TTEM JN FJRM 1-38 41-76 4223...PED-6 4274...PED-6 4275...PED-6 4227...PED-6 4229...PED-6 4230...PED-6 4231...PED-6 4233...PED-6 4233...PED-6 4233...PED-6 4233...PED-6 4233...PED-6 5936....VAR \$236..PED-6 DAIA ITEM TD

7-4 7-40 14 14 14 14 14 14 14 	·	ب لمصيب		A STATE OF THE PARTY OF THE PAR	
COLR-8604-6 (REV. 8-61)			1. PATIENT IDENTIFICATION		
NEGNATAL NEUROL	OGICAL				
EXAMNATI	DN		Í		
2. NAME OF EXAMINER					
			<u> </u>		
3. TITLE OR POSITION		OF EXAM.	1		
.=	**-	Der Year			
S. TIME EXAMINATION STARTED 4. TI	HE LAST PEED	HGS STARTED	+		
(14 New aleas)	(24 Roue o	ileck) ·			
7. AGE OF CHILD (Neuro com- pleted if less than 77 hours, days emploied, if 72 hours [3 days] or more	ME SHICE LAST lon 3 minus (Jam minuson-)	FEEDING 6 to measur	17. COMMENTS		
9. EYES—POSITION AT REST	ाव शदात				
(Dear Position of Popile)	• !	` ` ' * '			
Unable to evaluate (give reason)					
**************************************	• •	4.4	Ί		
12. BLINK REFLEX (light atimalus) Present and symmetrical					
O Questioneble response symmetric	ai (describe)				
Absent bilaterally					
Asymmetrical response (describe	ı				
Gmer (describe)	•				
-					
3. MOVEMENTS OF PACE					
Normal, symmetrical			•		
Absent or diminished, symmetrize	ıl				
Asymmetrical (describe)			İ		
Other (describe)			•		
4 19745					
I4. NOTOR ACTIVITY					
	Mederate	Marked			
Tramuleus or Jittery Jorky or Myssionic Move- 2 monts Writhing Movements	<u></u>				
Jorky or Myscletic Mave-					
Writhing Meyessints	Ġ	ċ			
Asystemotrical Mevaments	7				
Lecal Convulsions	2	4			
5					
Generalized Convulsions					
Other (decoribe)					
5. EXTREMITY MOVEMENTS (Intensity a	nd souda)	·			
Nemal					
Questionable abournality (descrip	ia)				
Abnormal (describe)					
2					
6. CRY (qualify)					
9. CRT (quallity) ☐ Narmai					
** Questionable abnormality (descrip	· ·				
Abnormal (describe)		[
2					
Not heard					
DLLABORATIVE RESEARCH ERINATAL RESEARCH BRANCH, NINDS	. HIH		(REV. 4-61)	PAGE	PED-6
ERINATAL RESEARCH BRANCH, HINDS SETHESDA 14, MO.				1 0 5 5	1 145-9

COLR-BOOLS IREV. 6-61)	18. PATIENT IDENTIFICATION
NEONATAL NEUROLOGICAL EXAMINATION	
19. PALMAR GRASP (With hood in sulfiling. Stimulus — Finger applied to ultrat state of pains)	-
Response present, symmetrical and sensistant (2 aut of 3)	
O Response present, symmetrical, but not consistent	
Absent bilaterally	
Asymmetrical response (describe) Other (describe)	
20, PLANTAR GRASP (With boad in midling, Stimulus — Finger applied to stealed side of color)	29. COMMENTS
Symmetrical response present	
Absent bilaterally	
Asymmetrical response (describe)	
21. PATELLAR JERK (With hood in midling) Symmetrical response present	
0 Absent bilaterally	
Asymmetrical response (describe)	
22. ANKLE CLONUS (With Imore Remed at 45°, count number of clania	
and remainte) 23. RIGHT 24. LEFT	
None I Name	
Under 8 📮 Under 8	
g or more g & or more	
25. SUCK (Evaluate with storile nipple)	
Strang Week ZAbsent	
26. ROOTING RESPONSE (Stimulus — Touch a councy of lign. Record marrowest toward stimulus)	
Morement toward attimulus, symmetrical	
☐ Ne movement	
Asymmetrical response (describs)	
Other (describe)	
27-PRONE POSITION	
Normal (Child lifts whin up or huns head to eide at makes attribut morea, sale)	
Questianable charmolity (describe)	
Abnotnet (No shin up, so head to side, no exert)	•
Grice (describs)	
28. TRACTION RESPONSE (Bliefs by illsing child from supine postiles by polling own)	
Hormo (Nonk flaces, hard controlled and shoulder massles assist moreman)	
Qvestlenskie (deserije)	
Almannal (Cheak all that apply balow)	
☐ Ne head control	
He nack flacton	
He shoulder mustle assistance	
COLLABORATIVE RESEARCH PERINATAL RESEARCH BRANCH. NINOB, HIM BETHELDA 14, MO.	(MEV. 4-41) PAGE PED-6
BETHKIDA 14, MO.	

COLR-2004-6 (REV- 6-61)		30. PAYIERY IDENTIFICATION	<u> </u>
HEGNATAL NEUR Examinati			
31. WITHDRAWAL REFLEX (Stimular - F			
Response other than withdrawal of a	stimulated extramity elicited		
He response bilaterally	bilaterally		
Attymmetrical (describs)	Other (describs)		
32. INCURVATION OF TRUNK (CNIM PRO	ne, etreke or tap paravertehed	39. COMMENTS	
□ Nermal, symmetrical			
Quantionable response (describe)			
Absent bilaterally			
Asymmetrical (describe)	Uth / (decertic)		
33. STEPPING (Child erect, sale of lost en	surfers, and track and head		
Present blisterally and symmetrically	у		
Questianable response (describe)	•		
Absent bilaterally			
Asymmetrical (desertés)	Other (describe)		
34. PLACING (Child held erest and decoun- edge of eurlace)	al lost drawn under tower		
French bilaterally and symmetrically	•		
Questionable response (describe)			
Absom bileterally			
(editesob) lasiviamitysA	Other (describe)		
35, MORO (Support child under back and too back about 30° and note pattern i successive attempts. If no unne report enties of they attempts of examination before completing th	of response on three Sant pattern or no response, NSO Assin later in the		
36. RESPONSE - GENERAL			
Obtained with ease		2 	
Obtained with difficulty			
He constant pottern (skip to item 41)			
No response (skip to item 41)			
37. RESPONSE OF ARMS			
Nermal (Exsenser and Liexor compenser	de eympotricully procent)		
Flower comparent absent with enterior			
Floxer component absent with lateral	extension		
Asymmetrica I			
Other (Specify)	ļ		
38. RESPONSE OF LEGS			
G Movement			
No marrowest			
COLLASOMATIVE RESEARCH PERIMATAL RESEARCH BRANCH, NINDE, BETHESDA 14, MO.	NIH	(REV. 6-81) PAGE 3 or 5	PED-6
		A treat	

and the second s	-		Marie Committee of the		
CDI M-3004-8 (REV. 8-81)	001011		46. PATIENT IDENTIFICATI	ÖN	
NEONATAL NEUROL Examination	OGICAL				
41. EYE MOVEMENTS (Stimulus: lateral tra- plane, both left and ri	alocation of chi.	ld in Imptel	-		
piene, both left and ri [Normal (hartsental)	ght.)				
•			İ		
Questionable abnormality (describe)	ľ				
Abriemel (describe)					
42. PUPILS-DIRECT REACTION TO LIGH	T				
Present and rapid bilaterally			54. CONNENTS	- -	
Present but sluggish bilaterally					
Absent bilaterally					
	te eveluate (())	re resson)			
43. PUPIL—SIZE					
Mormal and equal bilaterally					
Questionable elementality (describe)					
Abnormal biluterally (describe in de	tell with drawing	Ų			
Asymmetrical (describe) Unable	te evaluate (giv	re reason)			
44. EYES-STRUCTURE-EXTERNAL EXAM	MOI TANIM				
n Hemerrhaga-scleral er cenjunctival					
1 Other (describe)					
NOTE: If aphthelmoscopic exem is done seper					
43-46, emerwise skip mem.	araty, compress				
45. NAME OF EXAMINER	46. DATE OF	EXAM.			
47. TITLE OR POSITION	49. TIME EXAM	 STAUTED			
	(24 hour				
49. EYES-STRUCTURE-OPHTHALMOSCOP	No ENAME	4.1			
_	rc: Examinat i to eveluete (giv	-			
Hematchage—retinal					
•					
Other (describe)	•				
50. TONE—Use the following code which will from flactid to rigid. Describe any hand calumn.	indicate a grade r dsymmetry in ri	tion Ighi	5		
1. Hyperenic 4. Questim	nakle Hypertonic	ity			
2. Questionship Hypertonicity 5. rlyperton	nic				
3. Normal 6. Unship 1	e eveluete (élve	Meton)			
Bilanera	l Ri ght	Left			
51. Upper Extremity		j			
52. Lower Extremity					
53. Neck Flexor					
54. Neck Extenser	_				
35. Trunk	<u> </u>				
COLLABORATIVE RESEARCH	-	1			
RERINATAL RESEARCH BRANCH, NINDB. NI BETHESDA 14. MD.	н		##€V. 0-011	PAGE 4 OF 5	PED-6

COLR-8094-6 (REV. 6-61)	<u></u>	M 2007	PATIENT IDENTIFICATION	
HECHATAL H	IEUROLOGICAL NATION			
Se, TRANSILLUMINATION				
Aleget (normal)			·	
Doubtful or questionable	(deecribe) .	ì		
Present (describe in detail)	Umbis to evaluat	(diametr)		
99. TONIC NECK REFL/IX (Option	n=1)			
	BILATERAL 41. RIGHT	42, LEFT	78. COMMENTS	
Obtained with seco	<u> </u>	P		
Obsained with difficulty		Ţ		
No constant pattern				
Не гезрапае	다 다	4×		
43. HEAD ROTATED TO RIGHT	48. HEAD RETATED T			
Fl. Ext. 0	, I	. Ext. O.		•
64. Jou Arm	69. Jow Arm 1			
66. Ouclour Arm	71. Occipus Arm			
67. Occipus Log .	72, Gasleyt Leg	A A		
7 7 7	र ।	Ŧ -		
73. OTHER SIGNS, REFLEXES, T	ESTS, ETC.			
□ Ne	Yes (Specify)			
•	T	İ		
		1		
IMPRESSION 74. NEUPOLOGICAL ABNORMALIT	ries			
☐ Name				
Neurologically suspicious (describe resear for this	but no definite dinarmilitie			
1 (Meacribe resear for this o		Ì		
2 (describe fully and give n	HERENA/			
75. NOM-MEUROLOGICAL ABNORI	MLITIES (Checkell that ap	p(y.)		
Miner obnermelities er der	riations (Connette)	ł		
Questionable abmermelitie				
2				
Definite dinormalities (de 3				
76. UNSATISFACTORY CONDITION				
O Absort	Present (epecify)			
77. REPEAT EXAMINATION SCHE	DULED FOR VERIFICATIO	N OF		
	T Yes			
<u></u> №	₩	ì		

EXBI
Neurological
Neonata1
PF0-6,
ě
Items
nata
ţ
linked
Wumbers
Item
FJC

		eft rotation eft rotation ight rotation left rotation right rotation right rotation right rotation right rotation right rotation eft rotation ight rotation right rotation right rotation
ERX	TEN NAME	dddagae o o ddagaeth charter c
rological E	DATA ITEM	trev o control on cont
Pru-6, sechatai seurological Exam		Auditory response Eyes; anterfor chamber Eyes; disc Eyes; disc Eyes; fundus Eyes; fundus Eyes; fundus Eyes; fundus Eyes; fundus Eyes; fundus Eyes; fundus Eyes; fundus Eyes; habs Betes; publi and other Eyes; postion Eyes; postion at rest Eyes; postion at rest
20 02	0	
נפ זנפו	FROM	というしょう ちょうしょうりょうりゅうりゅうりょうらんりょう ちょうしょう ことととをとって ちょうしょうりょうりゅうりゅうりゅうりょうらてりょうしょうしょうしょうしょうしょうしょうしょうしょうしょう
	CARD	
Ltem *umbers linked to mata items on	TATE TERM IO	4176 4226ppc0 4226ppc0 4231ppc0 4233ppc0 4233ppc0 4233ppc0 4145ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4188ppc0 4198ppc0 4
T.C.	TEN	_

Ŀ		repeat of card 24
SK KAHE	deneralized local fo tterv	olven), tara
A TIER	1 deser- note fitter fitter	6.055
DATA	สาทหลั	Ination (1 reaction (1 reaction (1 example (1 ight occident occident occident occident occident occident occident occident occident occident occident occident occident occident occident occident occident occident occident
	other asymmetrical convulsions, a ferky; myclons ferky; myclons fremulous; fit writhing writhing fremity fer fer fer fer fer fer fer fer fer fer	in all the state of the state o
	s; face tivity, other tivity; asymm tivity; convu tivity; convu tivity; tremu tivity; writh s; extremity s; extremity s; extremity salmar patellar/knee ankle, ilqht ankle, ilqht ankle, ilqht ankle, ilqht response response response response	response, general response, arms anovements ological resexants publis, sire external example external example extremity, upper sextremity, upper neck flexor anovement extensor armination
	nts: face activity: o activity: c activity: c activity: r activity: r activity: r activity: r palmar palmar palmar palmar palmar palmar palmar palmar palmar palmar palmar presponse c response d response d response	response, gene response, arms movements loofcal reseas publis, adrec publis, adrec publis, adrec extremity, do extremity, up extremity, up extremity, up extremity, up extremity, up extremity, up extremity, up extremity, up extremity, up for tong oneck, tonf oneck, tonf oneck,
	activity act	response, respon
	Movements; face Hotor activity, ot Motor activity; co Motor activity; co Motor activity; co Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Motor activity; tr Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Grasp; palmar Motor pastifion Fraction response Fraction response Trunk; incurvation Stepping response	Moro response, weneral Moro response, wrms Moro response, arms Eyes; movements Eyes; pupils, direct reaction Eyes; pupils, direct reaction Eyes; external exam Eyes; external exam Eyes; obthelmoscopic exam Tone; extremity, upper Tone; extremity, lower Tone; neck extensor Tone; neck extensor Tone; trunk Eriex; tonic neck, right jaw b Reflex; tonic neck, right jaw b Reflex; tonic neck, right occip
ro	ままままままままます。 のでもらいこままは、 のでもらいこまままます。 のでものいまでまままままままで、 のでものいまでままままままままままままままままままままままままままままままままま	
FROM	3333333333444444444355	N D D O O O O O O O O O O O O O O O O O
CARD	4444 4444 4444 4444 4444 4444 4444 4444 4444	11406 1406 1406 1406 1406 1406 12406 12406 12406 12406 12406
DATA TYPH ID		171PED-6 172PED-6 197PED-6 199PED-6 200PED-6 201PED-6 203PED-6 203PED-6 204PED-6 205PED-6 206PED-6 207PED-6 210PED-6 211PED-6 211PED-6 211PED-6 211PED-6 211PED-6 211PED-6
ITEM ON FORM	**************************************	**************************************

	s trem wimbers linked to nata Items on Prume, weonatal Neutological Exam		ra Ire	10 SE:	9-0-6	2007	~	eurol	odical	E AC	
DATA ITEM CARD ID NUM	2 5	£ =	FPOH	Ç					DATA	DATA TIEN NAME	1 4 2
	i	;		,	,	•	•	•			
4213PED-6 240	7	£		æ	Ketlex:	tonic	neck,	left.	138 33	F	
4214PED-6 240	240	ø		49	Reflex;	tonta	neck,	. left	13¥ 10	5	
4215PED-6 240	240	•		9	Reflex;	tonic	neck,	left.	occipi	at arm	
4216PED-6 240	240	w		51	Reflex;	tonic	neck	left.	occipi	it lea	
4218PED-6 240	240	œ		53	Heurolog	rical;	abnot	malit	8		
4217PED-6 240	240	£		52	Neurolog	icalt	Sign	s, oth	₽-		
5936VAR				1123	Neurolog	rical (Phori	sitt	es, nec	Snatal	
4219PED-6 2406	240	y.		¥.	54 54 Non neurological; abnormalities	1010010	:01;	bnorm	alities		
44 4 444	4.5	ķ		į	1 1 1 1 1 1 1						

DEFINITION OF CODES NECHATAL NEUROLOGICAL EXAMINATION FORM FED-6 CARD-1406 and 3406

FIELD		CARD COLUMN
1.	Code: 1 - First card for infant's initial examination 3 - First card for infant's second examination, if any	1
2.	Form Rumber Code: 405	2-4
£ 640	Revision Number * Code: 0 - Form Dated: 1/59 1 - Form Dated: 11/59 3 - Form Dated: 6/61	5
†.	TIMDE Number Item 1 Mins-digit number for Patient Identification Code: As given	6-14
5•	Date of Birth Item 1 Six-digit code for month (cols. 15-16), day (cols. 17-18), and year (cols. 19-20) Code: As given	15-20
6.	Age Ttem 7 Code: (Computed from time of birth to time of exam) 000 - Less than one hour 001-997 - As given in hours 998 - 998 hours or more 999 - Unknown	21-23
7.	Time Since Lest Feeding Item 8 Code: 00 - Less than one hour	24-25

^{*} Unless specified, Fields, Codes and Cards Columns refer to Revision Number "O", "1" and "3". Item numbers refer to Form Dated 6/61.

PIED	OF CODES (Continued)	FORM FED-6 Card 1406 a: 3406 CARD COLUMN
8.	Number of Examinations Code: 1-7 - As given 8 - 8 or more exams	26
9.	Eyes - Position at Rest Item 9 Two-digit code for: Pupil Position of Right Eye (col. 27) Pupil Position of Left Eye (col. 28) Code for each column: 0 - Central position 1 - Position 1 2 - Position 2 3 - Fosition 3 4 - Position 4 5 - Combination of codes 1 and 2 6 - Combination of codes 2 and 3 8 - Combination of codes 3 and 4 9 - Not evaluated or not reported	27-28
10.	Item 12 Code: 0 - Present and symmetrical 1 - Questionable response symmetrical 2 - Absent bilaterally 3 - Asymmetrical response 7 - Other on Rev. "O" Includes questionable response which is not reported separately on this revision 8 - Other on Revisions "1" and "3" 9 - No report	29
u.	Movements of Face Item 13 Code: O - Normal, symmetrical 1 - Absent or diminished, symmetrical 2 - Asymmetrical 3 - Absent on Revisions "O" and "1", does not include diminished 7 - Other on Revisions "O" and "1", includes diminished 8 - Other on Revision "3" 9 - No report	30

DEFINITION	OFF CODES (C	ontinued)	FORM PED-6 Card 1406 and 3406
FIELD			COLUMN
12.	Ttem 14 Code: 0 - 1 2 - 1 3 - 1 4 - 1 5 - 1	formal Elight Moderate Marked Fremulous on Revision "O" Rapid, jittery movements on Revision "1"	31
13.	(Rev Item 14 Code: 0 - 1 1 - 1 2 - 1 3 - 1 4 - 1	ity Jerky or Mycclonic . "O" and "3" cally) Formal Slight Moderate Harked Rapid, jerky movements on Rev. "O" To report, not on Rev. "1"	32
14.	Item 14 Code: 0 - 1 2 - 1 3 - 1 4 - 1	ity - Writhing Sommal. Slight Soderate Marked Writhing on Rev. "O", "1" To report	33
15.	Item 14 Code: 0 - 1 1 - 3 2 - 1 3 - 1	ity - Asymmetrical (Rev. "3" only) Normal Slight Moderate Marked Mo report, Not on Rev. "0" or "1"	34
	Item 14 Code: 0 - N 1 - E	ty - Local Convulsions to local convulsions ocal convulsions o report	3 5

DEFINITION	OF CODES (Continued)	FORM PED-6 Card 1406 a. 3406
FIELD		CARD COLUMN
17.	Motor Activity - Generalized Convulsions Item 14 Code: O - No generalized convulsions 1 - Generalized convulsions 9 - No report	36
18.	Motor Activity - Other Item 14 Code: 0 - Mone	37
19.	Extremity Movements Item 15 Code: 0 - Rormal	38
20.	Cry (Rev. "1" and "3" only) Item 16 Code: 0 - Normal 1 - Questionable abnormality 2 - Abnormal 3 - Not heard 9 - Not reported, not on Rev. "0"	39
21.	Palmar Grasp Item 19 Code: O - Response present, symmetrical and consistent (or strong symmetrical response) 1 - Response present, symmetrical but not consistent (or weak symmetrical response) on Rev. "1" and "3" only 2 - Absent bilaterally 3 - Asymmetrical response	40

Distantific	OF CODES (Continued)	FORM FED-6 Card 1406 and 3406
FIELD		CARD COLUMN
21.	Palmar Grasp (continued) Code: 7 - "Other" on Rev. "O" 8 - "Other" on Rev. "1" and "3" only 9 - No report	40
22.	Plantar Grasp Item 20 Code: 0 - Symmetrical response present 1 - Absent bilaterally 2 - Asymmetrical response 7 -"Other"on Rev. "O" 8 - "Other" on Rev. "l" and "3" 9 - No report	41
23.	Patellar Jerk Item 21 Code: 0 - Symmetrical response present 1 - Absent bilaterally 2 - Asymmetrical response 7 - "Other" on Rev. "O" 8 - "Other" on Rev. "1" and "3" 9 - No report	#S
24.	Ankle Clonus - Right Item 23 Code: 0 - Hone 1 - Under 8 2 - 8 or more 9 - No report	43
25.	Ankle Clonus - Left Item 24 Code: Same as in Field 24	ft
26.	Suck Item 25 Code: 0 - Strong 1 - Weak 2 - Absent 9 - No report	45

DEFINITION	of codes	(Continued)	FORM PED-6 Card 1406 at 3406
MEND			CARD COLUMN
27.	1 2 7 8	- Movement towards stimulus, symmetrical - No movement - Asymmetrical response - "Other" on Rev. "O", includes asymmetrical - "Other" on Rev. "1" and "3" - No report	46
28.	1 2 3 8	- Mormal - Questionable abnormality - Abnormal - Abnormal on Rev. "O", includes questionable and "other" - Other - No report	47
29.	Item 28 Code: 0 1 2 3 4 5 6 7 8	Response (Rev. "1" and "3" only - Hornal. - Questionable - No head control. - No shoulder muscle assistance - Combination of codes 2 and 3 - Combination of codes 2 and 4 - Combination of codes 3 and 4 - Combination of codes 2, 3, and 4 - To report, not on Rev. "0"	48
30.	1	- Withdrawal of stimulated - Withdrawal of stimulated - Response other than withdrawal of - stimulated extremity elicited - bilaterally - No response bilaterally	49

Distantique (OF CODES (Continued)	FORM PED-6 Card 1406 and 3406
FIELD		CARD COLUMN
30.	Withdrawal Reflex (continued) Code: 3 - Asymmetrical 7 - "Other" on Rev. "O" (includes codes 1 and 3 8 - "Other" on Rev. "1" and "3" 9 - No report	49
31.	Incurvation of Trunk Item 32 Code: 0 - Normal, symmetrical 1 - Questionable response 2 - Absent bilaterally 3 - Asymmetrical 6 - "Other" on Rev. "1" (includes code 3) 7 - "Other" on Rev. "0" (includes codes 1 and 3) 8 - "Other" on Revision "3" 9 - No report	50
32.	Stepping Ttem 33 Code: 0 - Present bilaterally and symmetrically 1 - Questionable response 2 - Absent bilaterally 3 - Asymmetrical 7 - "Other" on Rev. "O" (includes codes 1 and 3) 8 - "Other" on Rev. "1" and "3" 9 - No report	5 1
33•	Placing Item 34 Code: 0 - Bresent bilaterally and symmetrically 1 - Questionable response 2 - Absent bilaterally 3 - Asymmetrical 7 - "Other" on Rev. "O" (includes codes 1 and 3) 8 - "Other" on Rev. "1" and "3" 9 - No report	5 2

DEFINITION	OF CODES (Continued)	FORM PED-6 Card 1406 an. 3406
FIELD		CARD COLUMN
34•	Moro - General Response Item 36 Code: 1 - Obtained with ease 2 - Obtained with difficulty 3 - No constant pattern 4 - No response (Rev. "1" and "3" only) 9 - No report	53
35•	Moro - Response of Arms Item 37 Code: O - Normal 1 - Flexor component absent with anterior extension 2 - Flexor component absent with lateral extension 3 - Asymmetrical 4 - Combination of codes 1 or 2 and "other" 5 - Flexor component absent (Rev. "O" and "l" only) 6 - Combination of codes "3" and "other" 7 - Combination of codes "5" and "other" 8 - Other 9 - No report	54
36.	More - Response of Legs Item 38 Code: 0 - Movement 1 - No movement 9 - No report	55
37.	Traction Response (Rev. "O" only) Code: Blank - not on Rev. "3" O - Normal 1 - No assistance from shoulder muscles 2 - No flexor action of neck muscles	56

DEFINITION	OF COMES (Continued)	FORM PED-6 Card 1406 and 3406
FIED		CARD COLUMN
38.	Palpebral Tissue (Rev. "O" only)	57
	Code: Blank - Not on Rev. "3" C - Equal 1 - Unequal 9 - No report, not on Rev. "1"	
39.	Auditory Response (Rev. "O" only)	58
	Code: Blank - Not on Rev. "3" O - Present 1 - Absent bilaterally 2 - Asymmetrical 8 - Other 9 - No report, not on Rev. "1"	
40.	Labyrinthine (Rev. "1" only)	59· 66
	Eight-digit code for: Right Rotation - During rotation Deviation (col. 59) Nystagmus (col. 60) - After rotation Deviation (col. 61) Nystagmus (col. 62) Left Rotation - During rotation Deviation (col. 63) Nystagmus (col. 64) - After rotation Deviation (col. 65) Nystagmus (col. 66)	
	Code for each column: Blank - Not on Rev. "3" 0 - None 1 - Right 2 - Left 3 - Asymmetrical 9 - No report, not on Rev. "0"	

DEFINITION OF CODES (Continued)

FORM FED-6 Card 1406 aum 3406

3406 CARD COLUMN

FIELD

41.

Labyrinthine Reflex(Rev. "O" only)

67-70

Four-digit code for:
Rotation to Child's Right
Deviation of eyes during rotation (cul. 67)
Deviation of eyes after stopping (col. 68)
Rotation to Child's Left
Deviation of eyes during rotation (col. 69)
Deviation of eyes after stopping (col. 70)

Code for each column:

Blank - Not on Rev. "3"

- 0 No movement
- 1 To right
- 2 To left
- 8 Other
- 9 No report, not on Rev. "1"

DESTRICTION	OF CODES (Continued)	FORM PED-6 Card 2406 and 4406
FIED		COLUMN
1.	Code: 2 - Second card for infant's initial examination 4 - Second card for infant's second examination	1
2.	Basic Data* Code: Same as in columns 2-25 of Card 1	2-25
3.	Eye Movements Item 41 Code: 0 - Normal 1 - Questionable 2 - Abnormal 3 - Abnormal on Rev. "C", includes questionable 9 - No report	26
4.	Pupils - Direct Reaction Item 42 Code: 0 - Present and rapid bilaterally	27
5•	Pupil - Size (Rev. "1" and "3" only) Item 43 Code: 0 - Normal and equal bilaterally 1 - Questionable abnormality 3 - Asymmetrical 8 - Unable to evaluate (Rev. "3" only) 9 - No report, not on Rev. "0"	28
Revision	pecified, Fields, Codes and Card Columns refer to Number "O", "1" and "3". Item numbers refer to ed: 6/61.	

DEFINI	TION OF CODES (Continued)	FORM PED-6 Card 2406 and 4406
FIELD		CARD COLUMN
6.	Eyes - External Exam (Rev. "3" only) Item 44 Code: 0 - Normal 1 - Hemorrhage - scleral 2 - Other 3 - Combination of codes 1 and 2 9 - No report, not on Rev. "0" and "1"	29
7•	Eyes - Ophthalmoscopic Exam (Rev. "3" only) Item 49 Code: 0 - Normal 1 - Hemorrhage - retinal 2 - Other 3 - Combination of codes 1 and 2 8 - Unable to evaluate 9 - Not done, not on Rev. "0" and "1"	30
8.	Tone - Upper Extremity (Rev. "3" only) Item 51 Two-digit code for: Right (col. 31) Code: 0 - Bilateral 1 - Hypotonic 2 - Questionable hypotonicity 3 - Normal 4 - Questionable hypertonicity 5 - Hypertonic 6 - Unable to evaluate 9 - No report, not on Rev. "0" and "1" Left or Bilateral (col. 32) Code: Same as in col. 31 except code "0" does not apply	31-32
9•	Tone - Lower Extremity Item 52 Code: Same as in Field 8	33 - 34
10.	Tone - Neck Flexor Item 53 Code: Same as in Field 8	35 -3 6

Daymu	HOM OF CODES (Continued)	FORM PED-6 Card 2406 and 4406
FIELD		CARD COLUMN
11.	Tone - Neck Extensor Item 54 Code: Same as in Field 8	37-38
12.	Tone - Trunk Item 55 Code: Same as in Field 8	39-40
13.	Transillumination Item 58 Code: 0 - Absent	41
14.	Tonic Neck Reflex Item 59 Two-digit code for: Right (col. 42) Code: 0 - Bilateral 1 - Obtained with ease 2 - Obtained with difficulty 3 - No constant pattern 4 - No response (Rev. "1" and "3") 8 - No distinction as to right, left or bilateral on Rev. "0" and "1" 9 - No report Left or Bilateral (col. 43) Code: Same as in col. 42 except codes "0" and "8" do not apply	ļt5 ~ †13
	Jaw Arm - Right Item 64 Code: 0	fift

DEFINITION	OF CODES (Continued)	FORM PED-6 Card 2406 au 4406
FIELD		CARD COLUMN
16.	Jew Leg - Right Item 65 Code: Same as in Field 15	45
17.	Cociput Arm - Right Item 66 Code: Same as in Field 15	46
18.	Occiput Leg - Right Item 67 Code: Same as in Field 15	· 47
19.	Jaw Arm - Left Item 68 Code: Same as in Field 15	48
20.	Jaw Leg - Left Item 70 Code: Same as in Field 15	49
21.	Cociput Arm - Left Item 71 Code: Same as in Field 15	50
22.	Occiput Leg - Left Item 72 Code: Same as in Field 15	51
23.	Other Signs (Rev. "3" only) Item 73 Code: O - No 1 - Yes 9 - No report, not on Rev. "0" and "1"	52
24.	Reurological Abnormalities (Rev. "1" and "3" only) Item 74 Code: 0 - None 1 - Neurologically suspicious 2 - Neurologically abnormal 9 - No report, not on Rev. "0"	53

DEFINITION	OF CODES (Continued)	FORM PED-6 Card 2406 a 4406
FIELD		CARD COLUMN
25.	Hon-Neurological Abnormalities (Rev. "1" and "3" only) Item 75 Code: O - None 1 - Minor abnormalities 2 - Questionable abnormalities (Rev. "3") 3 - Definite major abnormalities (Rev. "3") 4 - Abnormalities (Rev. "1") 9 - No report, not on Rev. "0"	54
26.	Examination Conditions Item 76 Code: O - Unsatisfactory conditions absent 1 - Unsatisfactory conditions present 9 - No report	55
27.	Diagnosis (Rev. "O" only) Code: Blank - Not on Rev. "3" O - Normal 1 - Other 9 - No report, not on Rev. "1"	5 6
28.	Tone - Neck (Rev. "O" and "l" only)	57
	Code: Blank - Not on Rev. "3" 0 - Flaceid on Rev. "0" 1 - Flaceid on Rev. "1" 2 - Questionable flaceidity on Rev. "1" 3 - Normal 4 - Questionable hypertonicity on Rev. "1" 5 - Rypertonic on Rev. "1" 6 - Rypertonic on Rev. "0" 9 - No report	nic

DEFINITION OF CODES (Continued)		FORM PED-6 Card 2406 and 4406
PIED		CARD COLUMN
29.	Tone - Trunk (Rev. "0" and "1" only) Code: Same as in Field 28	58
30.	Tone - Upper Extremity (Rev. "O" and "1" only) Code: Same as in Field 28	59
31.	Tone - Lower Extremity (Rev. "O" and "l" only) Code: Same as in Field 28	60
32.	Eyes - Cornea (Rev. "0" and "1" only) Two-digit code for: Right (col. 61) Left (col. 62) Code for each: Blank - Not on Rev. "3" 0 - Moreal 1 - Suspicious (Rev. "1" only) 2 - Abnormal (Rev. "1" only) 3 - Abnormal on Rev. "0"; includes suspicious 9 - Not observed, no reported	61-62
33•	Eyes - Anterior Chamber (Rev. "1" only) Code: Same as in Field 32 except 9 - No report, not on Rev. "0"	63-64
34.	Eves - Iris (Rev. "1" only) Code: Same as in Field 33	65 -66
35•	Eyes - Lens (Rev. "0" and "1" only) Code: Same as in Field 32	67-68
36.	Eyes - Vitreous (Rev. "0" and "1" only) Code: Same as in Field 32	69-70
37.	Eyes - Optic Disc (Rev. "0" and "1" only) Code: Same as in Field 32	71-72
38.	Eyes - Fundus (Rev. "0" and "1" only) Code: Same as in Field 32	73-74

DEFINITION OF CODES (Continues)

FORM PED-6 Card 2406 and 7406

FIELD

CARD COLUMN

Eyes - Pupil and Other (Rev. "0" only) Two-digit code for: 39.

75-76

Right (col. 75)
Left (col. 76)
Code for each:

Blank - Not on Rev. "3"

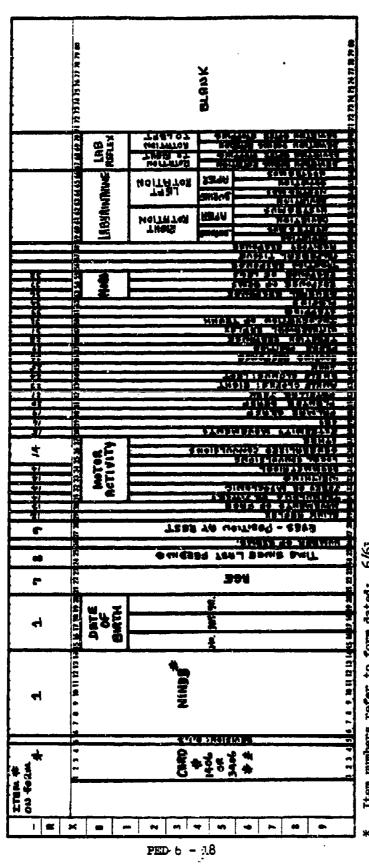
0 - Normal

1 - Abnormal pupil

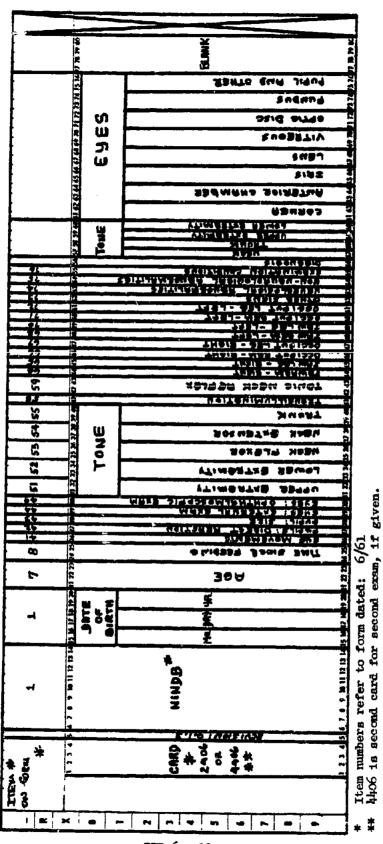
2 - Other abnormality

3 - Abnormal pupil plus other abnormality 9 - No report, not on Rev. "1"

MECMATAL MEDROLOGICAL EXAMINATION PED-6



* Item numbers refer to form dated: 6/61 ** 3406 is first card for second exam, if given.



PED-6 - 19

NEONATAL NEUROLOGICAL EXAMINATION

(PED-6, rev. June 1961)

Listraduction

The purpose of the Neonatal Neurological Examination is to evaluate by physical examination techniques, the function of the child's central nervous system in the first few days of life. Information obtained from the examination is to be recorded for the following purposes:

A. To characterize the child as neurologically normal or other-than normal at a specified

B. To identify manifestations of suspected or

definite neurological abnormality.

C. To provide a base line for subsequent neurological examinations.

D. To study the relevance or predictive value of certain traditional neurological examination items.

The reporting form PED-6 is provided to facilitate recording and coding of the information obtained from the Neonatal Neurological Examination. This manual has been prepared for use as a guide in performing the examination and in the proper recording of the information obtained.

A movie, The Neurological Examination of the Newborn, is highly recommended for use in orientation and training for the performance of the Neonatal Neurological Examination. This film, produced by Dr. Richmond Paine, is in 16 mm color sound. Viewing time is approximately 30 minutes. It may be purchased from Churchill-Wexler Film Productions, 801 N. Seward Street, Los Angeles 38, California, or may be obtained on loan from NIH by request to Information Specialist, Perinatal Research Branch, NINDB.

Il General Instructions for Performing and Recording the Exeminetion

- A. The Exeminer. The person performing the Neonatal Neurological Examination should be a pediatrician with special interest and training in nourology or a neurologist with special interest and training in pediatrics. An ophthalmologist may be asked to do the funduscopic examination.
- B. Time of Examination. The Neonatal Neurological Examination should be performed

when the child is between 36 and 60 hours of age. If the child's condition is such as to make it unwise to perform the complete examination during this time, as much of the examination as can reasonably be done should be done and recorded, and an explanation for the incompleteness given. As soon as the child's condition permits, a complete examination should be performed and recorded. The examination should be repeated weekly as long as the child is in the nursery (routine or special care). Additional examinations may be done at any time, and it is recommended that an extra examination be done early if the child is critically ill.

It is not necessary that the ophthalmoscopic examination be performed during the 36 to 60 hour age interval. It may be performed at any time during the child's stay in the nursery. Provision is made for recording it on the initial examination report, even though it is performed at a different time.

- C. Elimination of Bios. Ideally the examiner performing the Neonatal Neurological Examination should be unaware of the child's history, including the events of pregnancy and previous physical findings, so that the possibility of such knowledge introducing spurious correlation between prior events and the presence of abnormal findings can be avoided. It is obviously impossible to avoid all such information, but every effort should be made to prevent the examiner's access to or consideration of information which could be a source of such bias.
- D. Construction of the Reporting Form. The items on the reporting form are arranged, in general, in order of increasing intensity of stimulation or handling of the child. This arrangement of items is for convenience in recording and is not to be construed as a required order of examination.

The form is set up so that the results of the normal child may be recorded quickly. In most items other-than-normal responses or signs require description. The abnormal responses are to be indexed by a check mark in the appropriate box, and described in narrative or outline fashion in the blank space on the right-hand side of the page.

The itemized instructions to follow will specify those items that need no further comment even for an absormal response.

- E. Completeness of Examination and Recording. The examiner is requested to perform at least all of the tests and observations indicated on the form. Beyond this he may perform other tests and observations that are his custom or special interest. The "Impression" (Items 75 and 75) need not be based only on the items routinely recorded on the form. However, if the "Impression" is based on the results of tests and observations other than those listed on the form, a description or comment on these should be included in the diagnostic statements.
- F. Confirmation of Abnormal Findings. It is strongly recommended that every child judged to be neurologically other-thannormal on the basis of the Neonatal Neurological Examination be subjected to a repeat examination by a second examiner who is unaware of the findings on the initial examination. Confirmatory re-examination for isolated unusual or abnormal findings would be interesting but is not requested.
- G. Proporation for the Eye Enemiastica. The eyes should be properly prepared for an adequate examination. This includes dilating the pupils. The recommended drug for pupil dilatation is cyclogel 1/2%, plain or with 1/4% Neosynephrine. It is important that the dilating drug not be instilled prior to the evaluation of the pupillary reflexes. At the discretion of the examiner, it is permissible for the nurse to record pupil reflexes and size (Items 42 and 43) prior to instillation of the dilating fluid. However, if the nurse suspects abnormality of either the reflexes or the size of pupils, these signs should be further evaluated by the physician prior to pupillary dilatation.
- III Specific Instructions for Performing and Recording the Examination.
- Hom 1. Persons identification. This item is to be completed using the child's name plate containing at least the following information: child's name, NINDB number, date of birth, time of birth, sex, birth weight, and race.

- Item 2. Name of Examiner. Record the aurname and initials of the examiner.
- Item 3. Title or Position. Record the professional training status of the examiner as neurologist, pediatrician, pediatric neurologist, etc.
- from 4. Dete of Examination. Record the date of examination using the sequence month, day, year.
- Item 5. Time Exemination Started. Record in 24-hour-clock-time the time that the examination was begun.
- Item 6. Time Last Feeding Started. Record in 24-hour-clock-time the time that the last feeding was started. This information may be taken from the nursery nurses' records. The time should be recorded as an approximation to the nearest 15 minutes, even though it is recognized that from some nurseries the basic information does not provide this order of precision.
- Item 7. Age of Child. It is not necessary to complete this item. This space is provided for convenience in the subsequent computation and coding of this information in relation to analysis of the examination data. However, it is recommended that it be completed and used for local quality control purposes. If this item is completed locally, it should be computed as follows:

 a. Subtract date and time of birth from date and time of examination to the nearest minute.

 b. If the age is less than 72 hours, strike off the minutes and report as hours completed.

 c. If the age is 72 hours or over, strike off minutes, divide by 24, strike off the fraction and report as whole days completed.
- Item 8. Time Since Last Feeding. It is not necessary to complete this item. This space is provided for convenience in the subsequent computation and coding of this information in relation to analysis of the examination data. If this item is completed locally, it should be computed as follows:

 a. Subtract Item 6 from Item 5 to the nearest minute. b. Decrease to the nearest 15 minute interval (00', 15', 30', 45'). c. Report as hows and minutes (e.g., 47 hrs. 15 min.).
- items 9-11. Eyes Pesittem at Rest. Observe the position of the child's pupils when the child is awake and not attempting lateral or near point fixation. Record by considering

the recording chart (Items 10 and 11) expanded and superimposed on the child's eyes with the intersections of the two crosses on the P-A axes of the globes. (Be wary of either over- or under-diagnosing strabianus by relating position of pupils to palpebral fissures.) Indicate position of pupils at rest by two small (approximately 2 mm.) circles on the chart. This chart is designed to indicate direction but not magnitude of deviation from the central position. Only definite or obligatory imbalance or deviation should be recorded as non-central. Any circle enclosing the intersection of the vertical and horizontal lines will be coded as central. Do not equivocate.

Spontaneous nystagmus or simless wandering eye movements should be reported by checking the box "Unable to evaluate" and describing the situation under the comments section.

Item 12. Blink Reflex (Light Stimulus). The blink reflex is tested in each eye separately by chining a strong light directly into the eye. The test may be performed even when the lids are closed and the child is asleep, but should not be attempted while the child is crying. Whether the lids are open or closed at the time of stimulation, the normal response is reflex tightening of the orbicularis oculi.

This is a test for the integrity of the visual system, not for strength and symmetry of lid movement. Weakness or inequality of the movements of the lids should be reported in Item 13.

If a satisfactory response is not obtained in the lighted room, the test should be repeated in a darkened room or with a stronger light before a recording of other-than-normal is made.

- from 13. Movements of Pose. Evaluate the child's facial movements under both resting and active states if possible. This is an evaluation of the integrity of the innervation of the facial musculature, not of the static anatomy. If there is asymmetry of the facial structure, special attention is needed to ensure accurate evaluation of movements.
- Item 14. Meter Activity (check all that apply).

 This is an evaluation of the integrity of the child's general somatic motor system as manifested by the intensity and character of movement. The examiner should observe the child's

spontaneous movements as well as the activity evoked by non-specific stimuli such as handling. For the purpose of this examination the following definitions are to be used:

- 0. Nermal. As employed in those few items (except the IMPRESSION categories) where its use is unavoidable, the term "Normal" is to be considered in the restricted sense of "ideal" or "none of the following apply". This interpretation is particularly important here since the examiner is asked to record the presence of certain physical signs of questionable significance in order that their significance or predictive value may be studied. Therefore, in this item the category "Normal" is applicable only by exclusion of ail of the subsequent categories.
- 1. Tremsless or littery (mercenests). Record here the presence of tremulousness, i.e., the presence of rapid, repetitive oscillations of the extremities occurring only in response to specific stimuli such as used to elicit the Moro reflex or withdrawal reaction should not be reported. The check boxes "Slight", "Moderate", and "Marked" are provided for convenience in recording the intensity or definiteness of the movements. No further comment or description is necessary.
- 2. Jerky or mysclenic movements. Record under this category the presence of abnormal movements of several types variously described as sudden twitches, massive spasma, "extensor thrust", mysclenic jerks, etc.. The check boxes "Slight", "Moderate" and "Marked" are provided for convenience in recording the intensity or definiteness of the abnormal movements.
- 3. Writing movements. Record here the presence of spontaneous, sinuous, stretching movements. Although such movements are commonly seen in small premature infants, the examiner is asked first to record the presence of such movements, and then to indicate by checking one of the boxes "Slight", "Moderate" or "Marked" the intensity or definiteness of the movements. No further comment or description is necessary.
- 4. Asymmetrical movements. If any of the general body movements, exclusive of localized seizures, differ in quality or

intensity between the two sides, record the fact of the asymmetry by checking this category. Further, check one of the boxes "Slight", "Moderate" or "Marked" to indicate the degree of asymmetry and note under the "Comments" section the direction of the asymmetry. A description of localized weakness or paralysis, if unilateral, should be included under this category.

5 and 6. Local Convelsions, Generalized Convelsions. These are usually clonic or tonic movements which are spontaneous in nature, but this term also includes unconscious or atonic spells. Generalized clonic or tonic movements or unconscious or atonic spells are to be reported as generalized convulsions. If the convulsive movement is localized to a definable area, it is to be reported as a localized convulsion.

8. Other. Report here the presence of any manifestations of general somatic motor function which the examiner considers to be pathologic and which are not recorded under one of the preceding categories. Generalized paucity of movement and symmetric paralysis would be included under this category. Describe the abnormality in detail.

Item 15. Extremity Movements. This is an evaluation of the functional range of motion in the joints of the extremities and spine as determined by observation of both active and passive movements. Absormalities of motor activity or tone perse are to be reported under Item 14 or Item 50 and are not to be included in this item. Absormal spontaneous posturing and excessive or limited movement in any joint should be reported here.

item 16. Cry (Quelity). Evaluate the quality of the child's cry (high-pitched, stridulous, incessant, etc.). If the child does not cry spootaneously, attempt to elicit a cry by slapping the bottom of hie feet or pinching his heel.

Item 17. Comments. Use this space for recording comments or descriptions concerning the numbered items. Be careful to identify the comment with the number of the item to which it relates.

Hem 17. Petient Identification. Same as Item 1.

item 18. Palmar Grasp. The palmar grasp reflex is elicited by touching or stroking the ulnar side of the palm of the child's hand. The child must be awake and quiet. The head should be in the midline. It is desirable that the wrist be in the neural position and the arm partially flexed. The examiner should avoid extending the child's arm, or stimulating the dorsum of the hand, as a traction reflex or an extensor reflex respectively may confuse the sought-after grasp reflex.

The principal part of the normal grasp reflex is flexion of the fingers. Three trials on either side in alternation should be performed to assess the presence, symmetry and reproducibility of the reflex.

If a normal reflex response is not obtained, the test should be repeated once again later in the examination before making a final judgment.

Item 20. Pleaser Gresp. The plantar grasp, reflex is elicited by touching or stroking the sole of the child's foot. The child should be awake and quiet. The child's head must be in the midline (ase Pollack, Seymour L., Archives of Neurology, 3, 574, 581, 1960). The legs should be in the semi-flexed position. It is important to avoid using a noxious stimulus as this would evoke a withdrawal response.

The principal part of the normal plantar grasp reflex is flexion of the toes. Three trials on either side in alternation or on the two sides simultaneously should be performed to assess the presence and symmetry of the reflex.

If a normal reflex response is not obtained, the test should be repeated once again later in the examination before making a final judgment.

Item 21. Peteller Jerk. The patellar jerk reflex is elicited by tapping the patellar tendon with a standard reflex hammer. The legs should be in the midline during this test.

Three trials on either side in alternation should be performed to assess the presence and symmetry of the reflex. No attempt should be made to quantitate the response.

If a symmetrical reflex response is not obtained, the test should be repeated once again later in the examination before making a final judgment.

Items 22-24. Ankle Cleaus. Ankle clonus is elicited by sudden dorsal flexion at the ankle forced by pressure of the examiner's finger on the plantar surface of the forefoot. The legs should be semi-flexed and the head should be in the midline during the test.

Three trials on either side in alternation should be performed to assess the presence and symmetry of ankle clonus. Count the number of clonic cycles, if any, and record as "None", "Under 8", or "8 or more"

- bes 25. Suck. The aucking reflex is elicited by placing a sterile nipple or similar shaped object in the child's mouth. If the child does not begin sucking spontaneously, gently increase the stimulation by moving or attempting to withdraw the nipple. If the sucking reflex is weak or absent repeat the test once again later in the examination before making a final judgment.
- leam 24. Reacting Response. The rooting reflex is elicited by touching the angle of the lips or adjacent region of the cheek with a nipple or finger. Movement of the child's head or mouth toward the stimulus will be considered a normal response. This stimulation should be repeated three times on each side before interpreting the response. If the response is absent or asymmetrical the test should be repeated once again later in the examination before making a final judgment.
- Stem 27. Press Position. Place the child prone on a flat surface and observe the resulting activity. The normal response in this situation is considered to be one or a combination of the following three actions: 1. The child lifts his chin up; 2. The child turns his head to the side; 3. The child makes crawling movements. If none of these three actions result, the test should be scored "Abnormal." If none of the three actions are performed well but there is feeble performance of one or more, "Questionable Abnormality" should be checked and the performance described. If it is impossible to evaluate the response to this stimulus, check the category "Other" and describe the situation.
- Hem 28. Trection Response. This reflex is elicited with the child in supine position. The examiner grasps the child's hands and forearms and pulls the child gently forward to a sitting position. The response of the child's neck and shoulder muscles and control

of the head during the action are observed. If reck flexion, head control, and shoulder muscle assistance are well performed the response should be considered normal. The test should be repeated three times before interpreting the response. If any of the three parts of the normal response was absent, check the box "Abnormal", and check which of the three times was absent. If all three parts of the response were present but any were poorly performed, check the box "Questionable" and describe the response.

- Item 29. Comments. Same as item 17.
- Item 30. Potient Identification. Same as Item 1.
- item 31. Withdrawal Reflex. This is a crude test for the integrity of cutaneous sensation to pain. The stimulus for this test is a painful pin prick on the sole of the foot.

If, with each stimulus, the stimulated extremity withdraws, regardless of what other response is also elicited, the first category "Withdrawal of stimulated extremity elicited bilaterally" should be checked.

If, with each stimulus, the stimulated extremity does not withdraw but some other response indicating the perception of pain is elicited, the second category is to be checked. If there is no response on stimulation of either side, the third category "No response bilaterally" should be checked. If the response to stimulation of the two sides is different, the fourth category "Asymmetrical" should be checked and the responses described.

An absent response is difficult to interpret in the presence of abnormal function of the muscles of the lower extremity. If you are unable to evaluate the response, or a result that doesn't fit one of the above categories is obtained, check "Other" and describe the situation.

them 32. Incurvation of the Trunk. The incurvation reflex (Galant's reflex) is elicited with the child in the prone position, either lying on a flat surface or being held in the examiner's hand. The stimulus for this test is tactile stimulation of the moracolumbar paravertebral area by light tapping or stroking with the finger. The examiner should avoid using a noxious or muscle-stretching stimulus.

The test should be repeated three times on either side in alternation before assessing the presence and symmetry of the response.

The expected normal response is contraction of the long muscles of the back on the side of the stimulus so that the child's head and legs curl around the stimulated area while the trunk moves away from the stimulus. If the response is absent or asymmetrical, the test should be repeated once again later in the examination before a final judgment is made.

hading the child erect and placing the soles of both feet on a flat surface. If necessary incline the child's head, shoulders and trunk slightly forward and by rotating the child's trunk alternately simulate a walking motion. The child is expected to alternately place one foot shead of another in a very slow pseudowalking motion.

There is a different response in a pre-mature buby from the full term buby. The premeture welks on tiptee whereas the full term beby walks on the flat feet, often legiming on the book. This might indicate the assential stimulus for this response comes from proproaceptive impulses in the ankie feint es weil es frem sense receptors in the plaster skin. It is prebable that both sources are involved. The premature baby does not go on to walk on the hool or flat feet when he reaches his full term age, as the position of the last is determined by factors relating to the intervierine position. Breach behies with extended legs often will not walk at all. This is presumably due to the previous introutorine position though the exact mechanism of their failure to respond is unknown.

Three trials should be attempted before assessing the presence and symmetry of the response. If stepping is not present and symmetrical, the test should be performed once again later in the examination before a final judgment is made.

item 34. Pleeing. The placing reflex is elicited with the child held in the erect position (not inclined forward). The stimulus is provided by drawing the dorsum of the child's foot across the lower edge of a moderately sharp surface such as the edge of the examining

table. As it is often difficult to stimulate both feet simultaneously, the test is usually performed first with one foot and then with the other. If stimulated at the same time, the two feet need not move synchronously.

The response consists of flexion at the knee and hip followed by extension at the hip. If the planter surface of the feat surface a third phase ensues, namely, further extension of the knee and hip (the Pesitive Supporting Reaction in the Lags). The placing safex is often present in the first few days of life, but is usually strenger when the infant is two or three weeks old. Perhaps the main value of the test is the demonstration of symmetry or asymmetry of the response.

This test is included for two reasons. The first is to test for asymmetry of the lower extremity reflexes. The other is to study the significance or predictive value of either the presence or the absence of a symmetrical placing reflex. Flexion at the knee and hip sufficient to withdraw the toes from under the stimulus surface and raise the foot above the level of the surface, followed by extension at the hip sufficient to return the foot to the level of the curface, will be considered a placing reflex.

The examiner should avoid the temptation to perform the movements for the child. After the stimulus has been applied, the examiner should not elevate the child further, but rather held it steady in order to determine the presence of flexion and extension in relation to the stimulus surface.

Three trials should be attempted before assessing the presence and symmetry of the response. If a placing reflex is not present and symmetrical, the test should be performed once again later in the examination before a final judgment is made.

the Moro reflex, the one to be used for the purposes of the Study begins with the child held face up in the examiner's hends (semi-sitting position) with head supported by one

Rephrased from the Minutes of the Gröningen Meeting of the Little Club, July 3-9, 1960. (unpublished)

¹Rephrased from the Minutes of the Gröningen Meeting of the Little Club, July 3-9, 1960. (unpublished)

of the examiner's hands. The stimulus is a suiden extension of the neck: the head is allowed suddenly to drop back through an angle of approximately 30 degrees. The speed, character, extent of response of the arms, and the presence of movement in the legs are to be noted. The stimulus-response sequence should be repeated three times before evaluating the response. If the expected response is not obtained, the test should be repeated once again later in the examination before a final judgment is made.

The results of this test are to be recorded in three categories:

Item 35. Response—General. Record here the case and consistency with which a response was obtained. If there was no reflex movement of the arms or legs during any of the three trials, check the box labeled "No response" and leave Items 37 and 38 blank. If a response was obtained but not reproduced on at least two out of the three attempts, the box "No constant pattern" should be checked and Items 37 and 38 left blank. If the same response was obtained two out of three times, the box "Obtained with difficulty" should be checked. If the same response was obtained on three out of three attempts, the box, "Obtained with ease" should be checked.

Since the intensity of the stimulus should be the same on all trials in all cases, the distinction between "Obtained with ease" and "Obtained with difficulty" represents a difference in the consistency of the response not in the intensity of stimulus necessary to elicit a response.

If a response was "Obtained with ease" or "Obtained with difficulty," Items 37 and 38 should be completed.

teem 37. Response of Arms. If a response was obtained (Item 36, categories 1 or 2), the character of the reflex activity in the arms should be recorded under this item. The first 4 categories refer specifically to the extent of involvement of the arms in the response. The quality of the response is another parameter which is much more difficult to define and record. If the extent of involvement corresponds to one of the first 4 categories but is considered to be abnormal in quality, two check marks can be used to record the responses; the first in the appropriate box to indicate the extent of in-

volvement, and the second in the box "Other". A description of the abnormal quality of the response should be recorded in the "Commenta" section. The category "Other" may also be used for recording a response which does not fit into one of the previous four categories.

Item 38. Response of Legs. If a response was obtained (Item 36, categories 1 or 2), record simply whether or not there was reflex movement of the legs in response to the stimulus. The quality, extent, and character of the response need not be described unless the examiner feels it is frankly abnormal.

Hom 39. Comments. Same as Item 17.

New 40. Petion Identification. Same as Item 1.

been 41. Eye Mevements. This is a test for the presence of weakness or paralysis of extraocular movements in the horizontal plane. The stimules for this test is lateral translocation in the frontal plane. The examiner holds the child upright facing him and moves the child from side to side, observing for symmetry of eye movements in the horizontal plane. The normal response is conjugate deviation of the eyes in the direction of movement (toward the advancing side).

Evaluation of eye movements in other planes may be performed and recorded in the "Comments" section, but for consistency from 41 shall be limited to horizontal movements.

- item 42. Pupils—Direct Reaction to Light. The atimulus for the direct reaction to light will be a standard flashlight directed alternately into each eye. Observe the presence and rate of the reaction in the stimulated eye. The magnitude of the response and coast sual reaction may be recorded separately in the "Comments" section but should not enter into the recording of this item. Unequal size either before or after constriction should be reported under Item 43.
- Item 43. Pupils—Size. Observe for symmetry and absolute size of the pupils before and after the reaction to direct illumination. The emphasis in this observation is on definite abnormalities, either bilateral or unilateral. Such abnormalities should be clearly described. The significance of minor variations from normal size or of minor inequality is not

known, and such findings should be recorded as "Questionable abnormality" and described with a very brief comment.

Item 44. Eyes - Structure - External Exemination. The structure of the eyes as determined by external examination should be reported here. For the purpose of this examination edema of the lids and uncomplicated chemical conjunctivitis are to be considered no nal findings and are not to be reported. This is an evaluation of static anatomy of the lids, sclera, conjunctiva, cornea, iris and, insofar as possible, of the orbit and globe. Abnormalities of size and position of the latter, scleral or conjunctival hemorrhage, coloboma and cataract are among the abnormalities that should be sought for and described here. Such dynamic functions as pupil reflexes and extracular movements are to be reported elsewhere.

Items 45-48. Name of Examiner, Title or Position,
Dete of Exam and Time Exam. Started.
These items should be completed only if the
ophthalmoscopic examination (Item 49) is
done by a different examiner or at a different
time than the rest of the Neonatal Neurological
Examination. Instructions are the same as
for Items 2-5 respectively.

Item 49. Eyes - Structure - Ophtheimescopic Examination. The examination of the ocular fundi of the neonate deserves to be carefully done under optimal conditions and with adequate preparation. The pupils should be dilated for this examination (see paragraph II G, Preparation for Eye Examination). The examination should be done in a darkened room with adequate assistance as necessary to stabilize the child's head. The examination should be done within the first few days of the child's life, but need not be done at the same time as the rest of the Neonatal Neurological Examination. Regardless of when it is done, the first funduscopic examination should be recorded on the same form as the rest of the first examination.

If it was impossible to do the ophthalmoscopic examination at any time during the child's nursery stay, the category "Unable to evaluate" should be checked on the first PED-6 record, and an explanation for the omission given. On the forms reporting repeat neurological examinations the category "Not done" may be checked without explanation.

A clear description of abnormal findings should be given, including laterality and an indication of the amount of retinal bemorrhage, if any (three-point scale: minimal, moderate, marked).

Items 50-55. Tems. The tone of the child's muscles should be observed throughout the course of the examination. It is recognized that there are many aspects to muscle tone, but it is not considered worthwhile for this examination to attempt separate recording of these. The evaluation of muscle tone includes:

- a. palpating the muscles when the child is at rest;
- b. feeling the resistance to passive movements;
- c. observing the extensibility of the muscles through full range of passive movement;
- d. observing the spontaneous posturing and active movements for tone_and balance of antagonist muscles.

The emphasis in these observations should be on detecting asymmetry and differences in tone from one muscle group to another.

For clarity in recording, the evaluation is broken down into gross body areas: upper extremity, lower extremity, neck flexor, neck extensor and trunk. The recording is made by entering the code number from the key given on the form (ranging from 1 = definitely hypotonic to 5 = definitely hypertonic) in the "Bilateral" blank if symmetrical, or in the "Right" and "Left" blanks if there is asymmetry. No further qualification or description is necessary unless the examiner fiels the code number does not clearly indicate the situation. Opistotonus should be described opposite frems 54-55.

Item 56. Comments. Same as Item 17.

Item 57. Petient Identification. Same as Item 1.

from 58. Transillumination. This examination is to be performed in a darkened room, or in a small area darkened with an opaque hood. The examiner's vision should be dark-adapted in order to properly interpret the observation. The light source for transillumination will be a standard flashlight with an opaque rubber adapter to prevent surface light scatter. A

June 1961

penlight or flashlight without a Cexible adapter is not acceptable. Care must be taken to adequately illuminate all areas of the head in succession. Two centimeters or less of light scatter from the inner margin of the opaque adapter in a totally darkened room will be considered normal. In interpreting the observation, the examiner must consider the thickness of the adapter ring, the darkness of the room and his own adaptation to the dark. Areas of increased density at well as areas of decreased density (increased transillumination) should be noted. If abnormality is suspected or definitely present, the appropriate box should be checked and the abnormality clearly described in the "Comments" section.

Items 59-72. Teste Neck Reflex (Optional). This is an optional test and no recording or explanation is necessary if it is not completed. Since there is a great deal of interest in this test, and the significance or predictive value of it is still being debated, it is included in this protocol for the express purpose of gathering data in a prospective fashion on a large number of cases in order to contribute facts to this debate.

Li order for the data to fulfill this purpose, it is necessary that the test be done carefully and routinely. Therefore, any particular institution or group within an institution should perform the test carefully and routinely or not bother.

An obligatory, classical toxic neck reflex pattern is generally assumed to be abnormal, and if seen may be reported here as an abnormality even if the test is not done routinely for the purpose stated above.

The following quotation from the Minutes of the Gröningen Meeting of the Little Club, July 3-9, 1960, (unpublished) is included as instruction and explanation for this test.

"Asymmetrical tenic nock reflex. This is frequently leasely called the tenic nock reflex. The test is performed by turning the head of the child slewly to one side and helding it in this position for appreximately 15 seconds. Three to five attempts should be made to obtain this response on either side.

"It is difficult to obtain this response in very active and crying children and it is more often elicited in sleeping children. The response is very variable. It is possible that it sponteneous tonic nack reflex is seen in sleeping new borns, but it is difficult to be sure whether this is a true tenic nack reflex or merely a chance position the child has taken up. When the child is in the classical pose while sleeping, the head can often be turned ever to the other side without altering the position of the baby's arms.

"The classical response of extension of the jew arm with flexion of the occiput arm after active movement by the examiner of the infant's head is carely seen.

"The interpretation of these responses is very difficult. It is believed to originate in preprieceptive impulses coming from the nock muscles. Magnus in minual studies revealed that this test could be observed at the level of the red nucleus below which the pattern disappears in the experimental animal. It is sometimes seen in new berns who later have complex dypingles but it has also been observed in new berns who appear perfectly normal later on in life."

Record the ease and consistency with which a response was obtained; record in Item 60 if symmetrical, record in Items 61 and 62 if asymmetrical. A definite flexion or extension movement in one or more extremities is to be considered a response. The same pattern of response on 3 out of 3 trials is to be recorded "Obtained with ease". The same pattern of response on 2 out of 3 trials is to be recorded "Obtained with difficulty". A response on only 1 out of 3 trials, or a different pattern of only 1 out of 3 trials is to be recorded "No constant pattern". If there is no definite flexion or extension in any of the extremities in response to the stimulus, check the category "No response".

If a pattern of response was obtained, on rotation to one or both sides, code the pattern of the response under Items 35 and 40. The key to the three columns of boxes under these items is: Fl. = flexion, Ext. = extension, O. = other movement or no movement. If these was no constant pattern or no response on head rotation to the right, let > Item 63 (Items 64-67) blank. If there was no constant pattern or no response on head rotation to the left, leave Item 68 (Items 69-72) blank.

The stimulus for the tonic neck reflex will often make the child struggle and cry. It is recommended the child be given a sugarball

Tune 1961

or nipple pacifier as an aid to the performance of this test.

them 73. Other Signs, Reflexes, Tests, etc. If other neurological examination itoms or screening tests are performed as an integral part of this examination, they will properly be included in the synthesis of the IMPRESSION, and should be mentioned briefly. If any was performed check the box "Yes" and identify the test or observation and the results.

Additional tests performed on referral or follow-up, and repeat or additional examinations performed after consideration of the case record are not to be included in the synthesis of the IMPRESSION and should not be reported on this page. Such additional follow-up tests, or biased examination findings should be reported on a CP-5 sheet and attached to this form as extra information. Repeat examinations should be reported on separate PED-6 forms (see instructions for Item 77).

The blank space below this item on the form may be used for additional items that one or more institutions may wish to investigate systematically. If an institution plans to overprint certain items for this purpose, written communication with the Pediatrics-Neurology unit, PRB, would be desirable, both in order that the items might be recognized and perhaps coded centrally and that other institutions interested in the same item might be encouraged to participate.

Hem 74. Neurological Absormalities. Here the examiner should state his clinical impression of the child's neurological status at present, based on his evaluation of the significance or lack of significance of the itemized and overall findings on this examination.

If the examiner considers the child to be complately normal neurologically, the first box "None" should be checked.

If, on the basis of his examination, the examiner has reason to feel that the child is not completely normal neurologically, but cannot be classified as a definite clinical syndrome or "Neurologically abnormal child," the second box "Neurologically suspicious" should be checked.

If the examiner is able to state a definite or provisional diagnosis of a recognized syndrome, or feels the child is definitely neurologically abnormal but doesn't at this time fit into any diagnostic category, the third box "Neurologically abnormal child" should be checked.

If it is the examiner's impression that the child has a definite or suspect neurological abnormality, he should clearly identify the findings and summarize the reauconing on which this impression is based.

For the purpose of this examination, report under "Neurologically auspicious but no definite abnormalities" conditions, which may not in themselves be neurological but are often related to CNS disorders, such as abnormalities of skull size and shape, spinal anomalies, hemagiomas on the face and head, positional deformities of the feet and unusual facies.

Item 75, Non-Neurological Abnormalities. This examination is primarily for the detection and description of neurological abnormalities. However, examiner should not overlook other conditions or abnormalities present in the child. Since there are at least two rather detailed pediatric examinations performed on the child during the nursery stay, the neurologist need not feel compelled to describe static nonneurological abnormalities in detail. It is assumed that these would have been detected and described on the PED-2 examinations. Obvious static conditions such as nevi, cleft lip, etc., may be passed off with a word. Conditions which might pousibly have been overlooked on a previous examination or transient but possibly important conditions such as subconjunctival hemorrhage should be noted. Minor or trivial conditions such as disper rash, uncomplicated umbilical hernia, Mongolian spots, etc., should not be reported in any case.

Item 76, Unsertisfectory Conditions for Exemination. This provides the examiner the opportunity to indicate the presence of conditions in the child or the environment which may have interfered with performance and accurate assessment of any portion of the examination. In addition to identifying the condition (such as "child in Isolette", "excessively irritable child"), indicate which of the findings reported above might have been significantly influenced by the unsatisfactory condition.

Item 77. Repeat Examination Scheduled for Verification of Abnormality. It is atrongly recommended that every child judged to be neurologically other-than-normal on the basis of the
Neonatal Neurological Examination be subjected
to a repeat examination by a second examiner
who is unaware of the findings of the initial
examination. Confirmatory re-examination for
isolated unusual or abnormal findings would be
interesting but is not requested.

If a repeat examination is to be done, check this item "Yes"

Item 78. Comments. Same as Item 17.

June 1961

	BUROLOGICAL BATION	1. Parison Identification Augustus A. 3004-6 COL R. 3004-6 Jac. 6-61
INSTRUCTIONS: Every irem about findings should be checked (+) and	ld be checked (v). If not normal, I described in margin at right.	
2. Evenined by	3. Status	
4. Time Enuminarium Started (34-tir, eluck)	5. Date (Me-Day-Yr)	معر المعر
6. Date of Birth (Ma-Day-Ye)	7. Hour of Birth (24 hr. clock)	
ÇM ÇF	9. Rose (of mather)	
10. Birth wt. (gma.)	11. Time of Last Feeding (to nearest 15 min.)	
12. SPONTANEOUS MOVEMENTS 14. Right 15. Eyes - Position of Rest (Draw Position of Pupile) Hot abserved (sesse reason in detail) 3 4 3 4		28. Identify remarks by number of Item. Every charmolity which is checked (*) should have some description. Give recon for not evaluating any item.
16. Marationts of Face Precent and Symmetrical Abnormal Absent Absent Asymmetrical (describe)		
17. General Body Meyemenes Normal Questionable obnormality Abnormal Repid Jittery movements	(describe)	
Convulsions [] Local (describe) [] Generalised (describe) [] Other (describe)		
18. Extremity Movements [] Normal (e.g., all jaints baye	jull range of motion)	
Questionable abnormality	(describe)	
Abnormal (describe)		
19. Cry (quality)		
Questionable abnormality Abnormal (describe) Not heard	(describe)	
الماس سماه		

(PED-6) REV. 11-59

PHI	-
REV.	11-80

NECHATAL NEUROLOGICAL EXAMINATION (Centinued)

purperseled by cot R-3004-6

22. RESPONSES TO STIMULI		31. Identify remarks by number of iron. Every charmolity which is checked (a) should have some description. Give
23. Blick Rollan (light stimulus)		resean for not evaluating any Hom.
Procest and symmatrical	both eyes	
Cuestianable respons		
Asymmetrical respons	10 (describe)	
Absent both eyes		
Other (describe)		
24. Palmar Group (Stimulus - P	inger applied to alone side of pain)	
Strong symmetrical respo	prise	
Week symmetrical res	genso	
Absent bilaterally		
Asymmetrical respons	io (describe)	
Cther (describe)		
25. Plantar Grasp (Stimulus + F	inger applied to medial side of sole.)	
Symmetrical response pro	esent	
Absent bilaterally		
Asymmetriza i respons	o (describe)	
Other (describe)		
26. Puteller Jurk (With bead in	···	
Symmetrical response pro	pagnit	
Absent bileterally		
Asymmetrical respons	(describe)	
(dither (describe)		
27. Ankle Clonus (Stimulus + Fi flexed at 45°	inger to sole of foot with knees . Count number of clunic movements)	
28. <u>Right</u>	29. <u>Left</u>	
None	Nene	
CUnder 6	Under 8	
ू ê er mere	□ B or more	
30. Suck (Evaluate with sterile	nipple)	
Strong	*, *	
C Wask		
Absent		

Department of Health, Education and Walfare Public Health Service

(PED-6) REV. 11-59 PAGE 2 OF 8

MECHATAL NEUROLOGICAL EXAMINATION (Continued)

superorded by 4-6

33. Realing Response (Stime	ius - To ment tou	uch a c rard sti	omer : mulus)	of lips. Record	51. Identify remarks by number of item. Every channelity which is checked (4) should have some description. Give
Movement toward stim	ulus				reason for not avaluating any Item.
No movement					
Asymmetrical resp	ense (da	ecribe)	1		
Other (describe)					,
34. Prene Position					
Normal (Child lifts ch o crawling mou	emenis)			side <u>or</u> makes	•
Cuastionable abnor	melity (describ	4)		
Abnormal (No chin	up. <u>72</u> h	ead to	side. g	<u>19</u> cmw()	
Cihar (describe).					
35. Eye mevements (Evaluate	by mou	ing chi	id's be	ed horizonially)	
C Normal (horizontal)					
Questionable abnor	mality (describ	le)		
Abnormal (describe	1)				i
to first bis cording thi	The exc own rig a item il is rotati	miner t bt and t be exam oa. Ey	ken ro (bev b) (ners : e mev)	lates with the child is own left. In re- rotation is identical twents are recorded	
37. Right Retation	Nane	R	L	Asyam,	}
38. During Relation 39. Deviation			_		
	Ç	-	<u>Ļ</u>		
40. Hystagaus	٥	낙	7	<u>,</u>	
41. After Retation			_		
42. Deviation	Ģ	Ş	ç	Ç	
43. Nystagmus		Ļ	Ç	Ç	
44. Loft Reterior	Nette	R	L	Asyma.	
45. During Relation 46. Deviation			_		
47. Ny stagmus	<u>ا</u>	Ç	č	<u>.</u> .	
42. After Retation	•	Ŧ	Ŧ	7	İ
49. Deviation				С	
50. Hyelogous	Ĉ	Ċ	Č	<u> </u>	
	v	'	Z	•	

Department of Health, Education and Wolfers Public Health Service

(PED-4) REV. 11-59 PAGE 3 OF 8

MECHATAL NEUROLOGICAL EXAMINATION (Continued)

pupuseded by colf-6

53. Tonic Hock Roflex	(Elicit by turning head slowly to child's right or child's left and mointaining this pastion for approximately 30 occurs. The most constant pattern developed is noted. If pattern can be rependued record in appropriate hause after a mainome of 3 aptempts. If there is no definite agreproducible pattern, and ship to them 62.	44. Identify remarks by number of Item. Every channelity which is checked (y) should have some description. Give recease for not evaluating any item.
St. Romana		
Obtained with	1454	
Chesined with	lifficulty	
SX designed be	Hern	
Ne response (S	kip to item 62)	
55. Hood Nevement to		
56. Right	57. <u>Left</u>	
39. Florian 3	Extension 60. Florien 61. Extension	
Absent	Absent Absent Absent	
Prese	nt in Present in	
Čjen ret Ćjen yur	☐ ☐Jen ree ☐ ☐	
Goeilent /	Vm 📮	
Coesibne f	-04 📮 💢 Occiput Les 📛 📗	
¯ ☐ Other		
2. Treation Response (El	icit by lifting child from supine position pulling arms)	
	r, bond convolled and shoulder muscles	
🖵 Questiansble (de	scribe)	
📮 Ahmraul (Check	all that apply below)	
No head cantr	el ·	
📮 He neck flexis	- -	
📑 No shoulder n	weele assistance	
3. Withdrawel (Stimules -	Nanious Pin Prick (a bath sales)	
Mayament of extrem		
Response other than	movement elicited bilaterally (describe)	
☐ No response	į į	
Atymmetrical (d	escribe)	
Questionable res	ponso (describe)	
(danada)	i	

Department of Health, Education and Walfare Public Health Service

(PED-6) REV. 11-59 PAGE 4 OF \$ 65. Patient Identification

HEONATAL HEUROLOGICAL EXAMINATION (Continued)

superselect of 6

66. Stopping (Child erect, sale of feet on surface, and much and bond inclined feneral)	73. Identify commits by number of item. Every charmolify which is checked (v) shouldhove some description. Give
Procent bilaterolly and symmetrically	respons for not evolutiling stry item.
Questionable response (describe)	•
Absent bilaterally	
Asymmetrical (describe)	
(Bother (describe)	
67. Pleating (Child held erect and dersum of foot drawn under lower edge of surface)	
Present bilaterally and symmetrically	
Constitutable response (describe)	
Aboses bilaterally	
Anymantricul (describe)	
Chine (describe)	
48. Incorrection of Trush (Child press, sample or imp parametristical stress)	
☐ Nermel	
Corosionable response (describe)	
No reasonse	
Tother (describe)	
49. Here (Support child under back and bead - let child's head drop back about 50° and note pattern of response. If pattern cas be reproduced record in appropriate bases after a mini- mum of 3 attempts. If there is no definite agreementable pattern check "No constant pattern" and ship to item 73.)	
70. Response	
Chtained with eane	
Obtained with difficulty	
Me constant pattern	
☐ No response (Ship to item 75)	
71. Response of Arms Normal (Extensor and flame components symmetrically	·
Flower component absent	
Asymmetrical	
☐ Other	
_ •	
72. Response of Logs Mevement	
C No novement	<u>-</u>

Department of Health, Education and Wolfare Public Health Service

(PED-6) REV. 11-59 PAGE 9-0F 8

PHE	1004-4
REV.	11+69

HECHATAL HEUROLOGICAL EXAMINATION (Continued)

74. Patient Identification

superseded 184-6
2004-6

	<u> </u>
75. Tane - Úse the fellowing toda which will indicate a gradation from flocaid to rigid in Items 76 through 79.	89. Identify remarks by number of item. Every charactity which is checked (#) should have some description. Give
1 - Floorid (limp)	reason for not evaluating any item.
2 - Questionable Receivity	ļ
3 - Hermal	
4 - Overtianable hypertenicity	
S - Hypertenic (rigid)	
76. Neck 77. Trunk	
76. Upper extremity79. Lower extremity	
90. Transiliumination Absent	
C Doubtful er questionable (describe)	
t Process (describe in detail with Jeauing) 2	
81. Publis - direct reaction to light Present and repid bilaterally	
Present but sluggish bilaterally	
Absent bilaterally 3 Asymmetrical response (describe)	·
42. Public sine	
Harmal and equal bilaterally	
Cuestionable obnormality (describe)	
Abnormat bilatorally (describe in desail with drawing)	
Asymmetrical (describe)	
83. Eyes - Cernes	
84. Right Marmel	
🖵 Swapisions (describe) 📮	
Abnormal (describe)	
Net abserved (sinte reason)	
86. Eyes - Anterior Chamber	
87. <u>Right</u> 88. <u>Left</u> Narmel	
Suspicious (describe)	
Name	
Not observed (state reason)	

Department of Health, Education and Walfare Public Health Service

(PED-6) REV. 11-59 PAGE 6 OF 8

PH 6-1	
REV.	

NEGNATAL NEUROLOGICAL EXAMINATION (Cantinued)

Patient Identification
superseled by 6 - 6 COLR - 3004 - 6
COLR -300
all 1

91. Eyes - Iris	106. Identify remarks by number of item. Every charmolity which is checked (y) should have some description. Give
92. Right 93. Left Normal 5 Suspicious (describe) 7 Abnormal (describe) 2 Not observed (state reason)	reason far nor avaluating any Item.
94. Eyes - Lens	
95. Right 96. Left Normal Suspicious (describe) Abnormal (describe) Not observed (state reason)	
97. Eyes - Vitresus	
98. Right 99. Left Normal 0 Suspicious (describe) 1 Abnormal (describe) 2 Nat abservad(state reason) [
100. Eyes - Upric disc	
101. Right 102. Laft Normel 0 Suspicious (describe) 1 Abnormal (describe) 2 Nor observed (state reason)	·
103. Eyes - Fundus	
104. Right Normal Normal Suspicious (describe) Therefore (describe) Shormal (describe) Shormal (describe) Shormal (describe)	

Department of Health, Education and Welfare Public Health Service

(PED-6) REV. 11-59 PAGE 7 OF 8

NEGNATAL NEUROLOGICAL EXAMINATION (Continued)

pupuseded by cor R-3009-6

· · · · · · · · · · · · · · · · · · · 	
106. Hourslegical Diagnosis (Include suspected and proven findings) [Neurologically normal newborn	111. Identify remarks by number of item. Every characteristy which is checked (y') should have some description. Give
	reason for net evaluating any item.
Neurologically suspicious (state reason for suspicions)	
Nourologically abnormal child (describe in detail)	
109. Associated physical defect (other than neurological) [Name of the content	
i Miror or suspicious abacemolities (describe in detail)	
Abosemalities (describe in detail)	
110. Conditions during examination Thermal and satisfactory	
Githur (describe)	
•	
	,
•	
•	

		wit.	
PH0-8644-6 1-99	NEONATAL NEUROLOG EXAMINATION		par 1159
INSTRUCTION	MS: Epory numbered them should be findings should be cheeked (√) as	cheched (V). d described in	puger 115 9
EXAMINED	<u> </u>	TIME	ا المقام
STATUS	· · · · · · · · · · · · · · · · · · ·	DATE (Ma-Da-Yr)	
	OBSERVATIONS REQUIR	ING MINIMAL HAND	DLING OR STIMULATION OF CHILD
I - SPON	TANEOUS MOVEMENTS		identify remarks by number of Item. Every charmelity which is checked (v') should have some description. Give reason
	itien et Rest nu Position of Pupils)	R7. LT.	for not evaluating any Hem.
	/EMENTS OF FACE Present and Symmetrical Moremal Absent Asymmetrical Other PEBRAL FISSURE		
	Tuedner		·
	OY MOVEMENTS Name! Name! Translous Translous Napid, Jerky Mevements Writhing Mevements Convulsions Local Generalised		
	/EMENTS OF UPPER EXTREM Iarumi (Symmetrical with Norma)] Abaarami		
	/EMENTS OF LOWER EXTREM termal (Symmatrical with Nersal Abnarmat		
II - RESP	ONSES TO STIMULI		
	Absent Asympatrical Asympatrical Asympatrical	resent beent symmetrics (
	Absent A	sent Symmetrical	

Decorment of riselth, Education and Wolfgra, Public Health Service

RIGHT

9. PALMAR GRASP (Stimulus - Finger Applied to Ulner Side of Palm)

LEFT

Present
Absent
Asymmetrical

(PED-6) PAGE 1 OF 5

- PH\$-3064-4

NEONATAL NEUROLOGICAL



EXAMINATION DESERVATIONS REQUIRING MINIMAL HANDLING OR STIMULATION OF CHILD (Continued) II - RESPONSES TO STIMULI (Centineed) identify remarks by number of item. Every absorbality which in checked (v/) should have some description. Give reason for not avaluating any item. 16. PLANTAR GRASP (Stimulus - Finger Applied to Medial Side of Sole) RIGHT Procent
Absort
Asymmetrical Present Absom
Asymmetrics 11. PATELLAR JERK (With Head in Minitime) RIGHT Procent
Absent
Asymmetrical Procest Asymmetrical 12. AHKLE CLONUS (Stienlins - Finger to Solo of Foot with Knees Planed at 45°) RIGHT LEFT ☐ Nene ☐ None Numb \$ Havemonts 8 Mavements 3 er more mevements 1 t or more men 13. ROOTING RESPONSE (Stimulas - Touch a corner of lips. Record movement toward stimine) RIGHT LEFT C Haveman at foce and head face and head Merromani el face only fees only No movement No movement 14. SUCK (Evaluate Vith Finger) Strong
Week
Abount 15. PRONE POSITION Marmil (Child lifts chin up, turns head to side, makes creating movements) Abnormal (No chin up, so bend to side. No crewl) DESERVATIONS REQUIRING MAXIMAL HANDLING OR STIMULATION OF CHILD 16. EYE MOVEMENTS (Evaluate by moving child's head vertically and heritantally) identify remarks by date and number of item. Every charmolity which is checised (</) should have some description. Give ☐ Hornal (Vertical and Hermontal)
☐ Abnormal reason for not avaluating any item. 17. LABYRINTHINE (Child to be held vertically facing REFLEX exeminer. Both exeminer and child rates) Reterior to Child's Retation to Child's RIGHT LEFT ☐ No eye mevement ☐ No eye mevement During retation During catetion type deviate to ayes deviste to After stepping After steaming Type devicts to eres deviate to

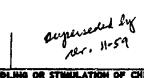
Department of Hanish, Education and Walfare, Public Health 7

#0 ED4907

(PED-6) PAGE 2 OF 5

PHR-1004-6

NEONATAL NEUROLOGICAL EXAMINATION



ARTIDVATION .	C DECIMENT HATMAS HANDS	HIG OR STHULATION OF CHILD (Continent)
	(Elicit by tunning band alonely to <u>Chili's</u> right or <u>Chili's</u> right or <u>Chili's</u> left. Name position 30 to 60 seconds after bond movements.)	identify comments by number of item. Every characteristy which is checked () should have come description. Give resear for not evaluating any item.</th
Hand Movement to <u>R[GHT</u>	Head Mavament to LEFT	
EXTENSION present in Jerr Arm Jerr Leg Cociper Arm Cociper Leg Absort	EXTENSION present in	
FLEXION present in Jow Arm Jow Log Occiput Arm Occiput Log Absent	FLEXION present in Jov Arm Jou Log Occiput Arm Occiput Log Absent	
PEL**IC ROTATION Away from Jaw Toward Jaw Abapat	PELVIC PSTATION Avery from Jow Towned Jow Absent	
RESPONSE Discional with Enso Distribut with Difficul Me Concepts Pottern	! ! #	
19. TRACTION RESPONSE	Elicit by lifting Child from Supine position by pulling Arms	
Narmai '-> Assistance from Na Flower Action of	Shoulder Messles	
20. WITHORAWAL (Stimulae	– Pin Prich to Sale)	
RIGHT Withdroom of Stimulated Limb Caly	LEFT Withdrawel of Selection Link Only	
☐ No Resystem	☐ No Responso	
Coher	□ Orbor	
21. STEPPING (Child Breet, Trush and No	Solo of Past as Striace, and red inclined Forward.)	
RIGHT Procest Absont Other (Inches Asymmetry)	LEPT	
22. PLACING (Child Reld En Under Louise S	ect and Darves of Fost Draws Ago of Surface)	
RIGHT Procest Abone Other (Include Asymmetry)	LEFT Protect About Other (Include Asymmetry)	

Department of Health, Education and Walfare, Public Health Service

070 10 00 07

(PED-G) PAGE 3 OF S

PHS-3004-6

NEONATAL NEUROLOGICAL EXAMINATION

myerseld by
per, 11-59

OBSERVATIONS REQUIRING MAXIMAL HANDLING OR STIMULATION OF CHILD (Continued)				
23. INCURVATION OF TRUN Hermal He Response Colum		Identify remarks by number of item. Every charmality which is checked (\(\)) should have some description. Give respens for not evaluating any item.		
24. HORO (Support child under child's boad drop b				
RESPONSE OF ARMS	resent)			
RESPONSE OF LEGS Tioner Other				
RESPONSE Observed with Ease Observed with Difficulty No Constant Pattern	,			
25. TONE NECK Nermi Flootid (Limp) Hypertenic (Rigid) UPPER EXTREMITY Nermi Flootid (Limp) Hypertenic (Rigid)	TRUNK Normal Floorid (Limp) Hypertenic (Rigid) LOWER EXTREMITY Normal Floorid (Limp) Hypertenic (Rigid)			
26. TRANSILLUMINATION Absent Supretenterial Infratenterial				
27. PUPILS RIGHT Direct Reaction to Light	LEFT Okreet Resettion to Light			
☐ Present ☐ Absent	Procent Absent			
REACTION Repid Slupgish	REACTION Reptd Sluggish			
SIZE (Use disc)	SIZE (Use disc)			

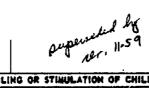
Doyartanut of Haulth, Education and Wolfers,

(PED-6) PAGE 4 OF 5

PHS-1004-6 1-88

Department of Health, Education and Wolfare, Public Health Service

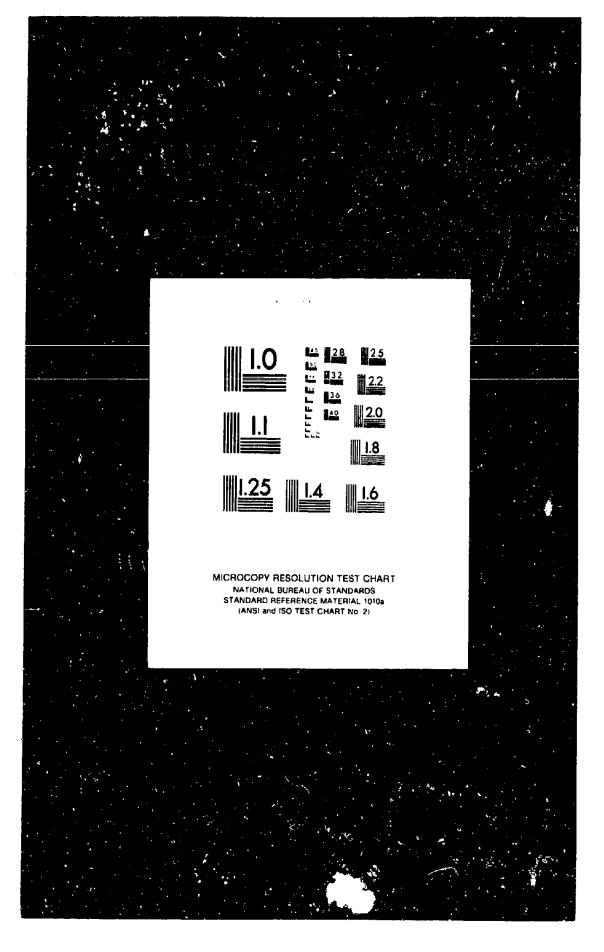
NEONATAL NEUROLOGICAL EXAMINATION



NG OR STIMULATION OF CHILD (Continued)
identify remarks by number of item. Every abnormality which is checked (v') should have some description. Give reason for not evaluating any item.

(PED-6) PAGE 5 OF 5

#4 444947



CONTINUED ON NEXT FICHE