



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

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

**Part C: Pathological Exams  
and Autopsies**

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**December 1983**

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



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

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

**Part C. Pathological Exams and Autopsies**

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## INTRODUCTION

### DOCUMENT OBJECTIVES AND READER ASSUMPTIONS

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

### DOCUMENT STRUCTURE

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

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

This part of Volume II contains Part C: Pathological Exams and Autopsies and includes Forms PATH-1, PATH-2 and PATH-3.

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

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

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

#### MASTER FILE ORGANIZATION AND REVISION OF FORMS

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

## Forms

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

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

In the second type of revision, the Collaborative Perinatal Task Force considered revisions important enough to warrant the distinction of a new form number, but considered the data for both forms to be similar enough to allow combining of data from both the old and new forms on the same card series. An example of this type of revision is form OB-35, replaced by OB-57 in April 1962. Records for both OB-35 and OB-57 are entered on cards 0357, 1357, 2357, 3357, 4357, and 5357 in the master file.

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

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

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

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

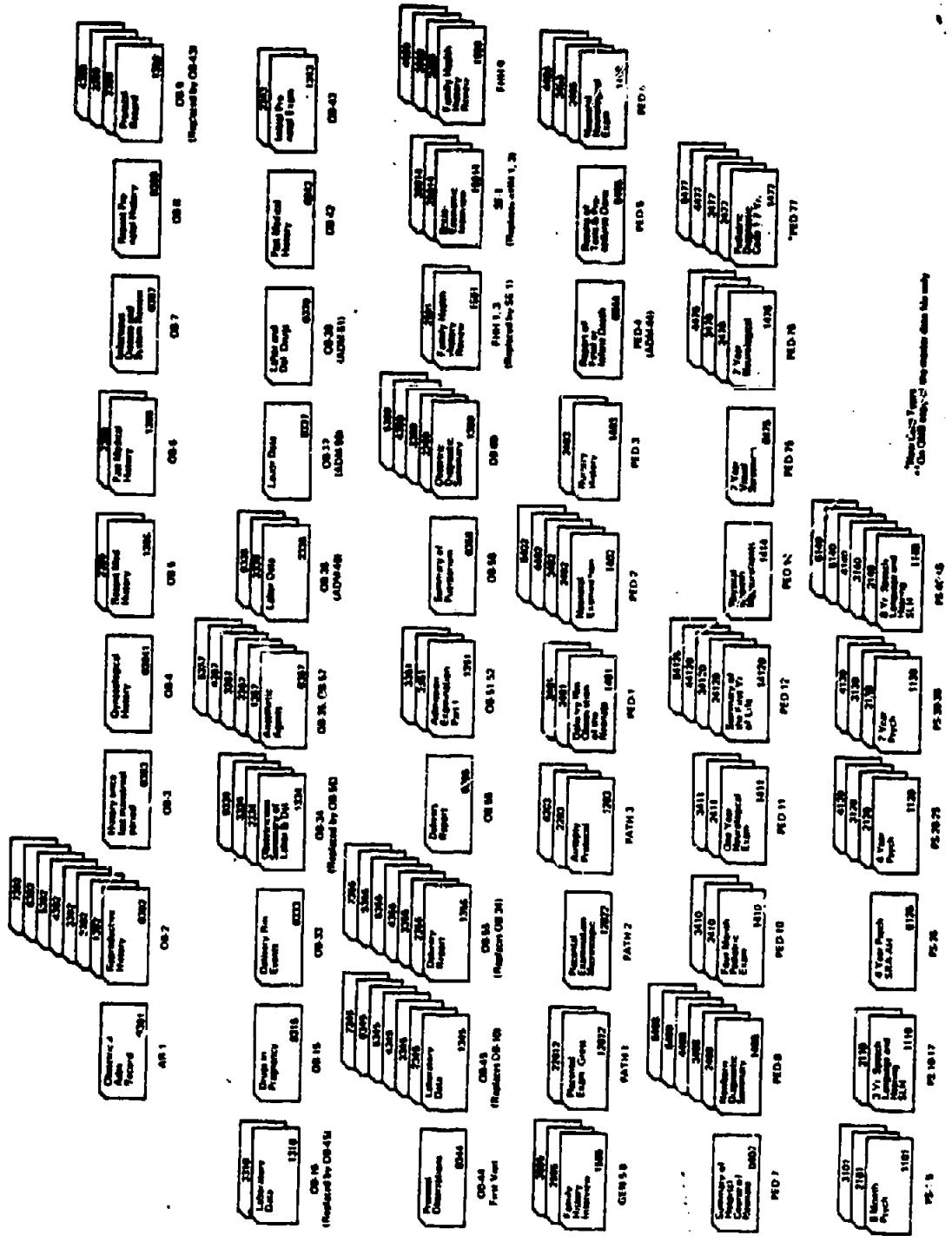
No replacements occur in the PS series, where results of psychological and speech, language and hearing tests were recorded. The PS forms are divided into distinct groups based on time of testing and subject of testing. Psychological testing occurred at 8 months, 4 years and 7 years; speech, language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

Master File Card Number and  
NINDB Case Number Rationale

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

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

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



**FIGURE 1.** Cards on the Master Data File

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

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

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

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

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

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

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

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

05 - <u>Boston, Massachusetts</u> Harvard Medical School Boston Lying-in Hospital Children's Hospital Medical Center	50 - <u>Minneapolis, Minnesota</u> University of Minnesota Hospital Health Sciences Center
10 - <u>Buffalo, New York</u> University of Buffalo Children's Hospital	55 - <u>New York, New York</u> New York Medical College Metropolitan Hospital
15 - <u>New Orleans, Louisiana</u> Charity Hospital Tulane University School of Medicine Medical Center Louisiana State University	60 - <u>Portland, Oregon</u> University of Oregon Medical School
31 - <u>New York, New York</u> Columbia University College of Physicians & Surgeons Columbia-Presbyterian Medical Center	66 - <u>Philadelphia, Pennsylvania</u> University of Pennsylvania Pennsylvania Hospital The Children's Hospital of Philadelphia
37 - <u>Baltimore, Maryland</u> The Johns Hopkins University School of Medicine The Johns Hopkins Hospital	71 - <u>Providence, Rhode Island</u> Brown University Child Study Center
45 - <u>Richmond, Virginia</u> Virginia Commonwealth University Medical College of Virginia	82 - <u>Memphis, Tennessee</u> University of Tennessee College of Medicine Gillier Hospital

### Data Item Identification and Naming

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

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

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

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

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

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

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

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

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

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

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

### Tables of Data Items: Column Headings

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

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

### ASSOCIATED DOCUMENTS

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

**TABLE 3. Abbreviations for Person, Time and Subject Categories**

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

**TABLE 4. Definition of Person, Time  
and Subject Categories**

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

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

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

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

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

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

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

**PAGE II.C.xviii IS MISSING**

## **CONTENTS**

<b>PATH-1</b>	<b>Placental Exam - Gross</b>	<b>II.C.1</b>
<b>PATH-2</b>	<b>Placental Exam - Microscopic</b>	<b>II.C.31</b>
<b>PATH-3</b>	<b>Autopsy Protocol</b>	<b>II.C.53</b>

## PATH-1 Placental Examination - Gross

Form PATH-1 was used to provide precise and detailed information about the gross appearance of the placenta and how it might relate to the outcome of the pregnancy for both mother and infant. The form was implemented in July 1959 and was not revised. Data from PATH-1 were keypunched onto cards 1201 and 2201 in the master file (Table PATH-1.1).

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

CARD NAME	CARD NUMBER	REV. NO.	NUMBER RECORDS
PATH-1: Dimensions, Cord, Membrane and Fetal Surface	1201		
		2	47,290
		3	1,488
			-----
			48,778
PATH-1: Maternal Surface, Cut Surface	2201		
		2	47,177
		3	1,493
			-----
			48,670
	total for form		97,448

**II.C.2**

**PATH-1**

Data Items Referencing Form PATH-1, Placental Exam - Gross

DATA ITEM ID	ITEM JM FORM	CARD NUM	FROM TO	DATA ITEM NAME
48.....				
49.....				
50.PATH-1	2	1201	1	5 Card number (sequence, form type, form number, revision number)
51.PATH-1	3	1201	6	14 HMDB case number
52.PATH-1	3	1201	15	15 Pathology gross; explanation by
53.PATH-1	3	1201	17	16 Pathology gross; time
54.PATH-1	3	1201	21	20 Pathology gross; date (mo)
55.PATH-1	5	1201	23	22 Pathology gross; date (day)
56.PATH-1	5	1201	25	24 Pathology gross; date (yr)
57.PATH-1	7	1201	27	27 Pathology gross; desideratum, placentae, labeled at delivery
58.PATH-1	8	1201	28	28 Pathology gross; placenta, fused
59.PATH-1	9	1201	29	29 Pathology gross; placenta, fused
60.PATH-1	9	1201	30	30 Pathology gross; placenta, anastomosis present
61.PATH-1	9	1201	31	31 Pathology gross; placenta, dimensions, largest diameter (cm)
62.PATH-1	9	1201	33	33 Pathology gross; placenta, dimensions, smallest diameter (cm)
63.PATH-1	9	1201	35	35 Pathology gross; placenta, dimensions, thickness (cm)
64.PATH-1	12	1201	37	37 Pathology gross; placenta, shape
65.PATH-1	13	1201	38	38 Pathology gross; placenta, description
66.PATH-1	13	1201	39	39 Pathology gross; placenta, length (cm)
67.PATH-1	14	1201	41	41 Pathology gross; placenta, shortest distance from cord, insertion to placental margin (cm)
68.PATH-1	15	1201	44	44 Pathology gross; placenta, type of insertion
69.PATH-1	16	1201	45	45 Pathology gross; placenta, number of vessels
70.PATH-1	17	1201	46	46 Pathology gross; placenta, true knot
71.PATH-1	17	1201	47	47 Pathology gross; placenta, color
72.PATH-1	19	1201	48	48 Pathology gross; placenta, frozen sections taken
73.PATH-1	20	1201	49	49 Pathology gross; membranes and fetal surface, description
74.PATH-1	21	1201	50	50 Pathology gross; membranes and fetal surface, membranes complete
75.PATH-1	22	1201	51	51 Pathology gross; membranes and fetal surface, decidual necrosis
76.PATH-1	23	1201	52	52 Pathology gross; membranes and fetal surface, membranes edematous
77.PATH-1	24	1201	53	53 Pathology gross; membranes and fetal surface, insertion of vessels
78.PATH-1	25	1201	54	54 Pathology gross; membranes and fetal surface, shortest distance from edge of rupture to placental margin (cm)
79.PATH-1	26	1201	55	55 Pathology gross; membranes and fetal surface, color of fetal
80.PATH-1	27	1201	56	56 Pathology gross; membranes and fetal surface, surface
81.PATH-1	28	1201	57	57 Pathology gross; membranes and fetal surface, opacity of membranes
82.PATH-1	29	1201	58	58 Pathology gross; membranes and fetal surface, subchorionic fibrins
83.PATH-1	30	1201	59	59 Pathology gross; membranes and fetal surface, description of subchorionic fibrin
		1201	60	60 Pathology gross; membranes and fetal surface, thrombosed fetus
		1201	61	61 Pathology gross; membranes and fetal surface, senior nodosum
		1201	62	62 Pathology gross; membranes and fetal surface, cysts

Data Items Referencing Form PATH-1, Placental Exam - Gross

DATA ITEM ID	ITEM CN	CARD NIM	FROM	TO	DATA ITEM NAME
84.PATH-1	31	1201	63	66	Pathology: gross: membranes and fetal surface, weight (gms)
85.PATH-1		1201	67	72	Blank
86.PATH-1		1201	73	80	Pathology: gross: placenta identification number
87.PATH-1		2201	1	5	Card number (sequence, form type, form number, revision number)
88.PATH-1		2201	6	14	NINR card number
89.PATH-1	33	2201	15	15	Pathology: gross: maternal surface, intact/incised
90.PATH-1	34	2201	16	16	Pathology: gross: maternal surface, completeness
91.PATH-1	35	2201	17	17	Pathology: gross: maternal surface, depressed area, total number
92.PATH-1	36	2201	18	19	Pathology: gross: maternal surface, depressed area, size, length (cm)
93.PATH-1	36	2201	20	21	Pathology: gross: maternal surface, depressed area, size, width (cm)
94.PATH-1	37	2201	22	22	Pathology: gross: maternal surface, depressed area, apparent cause
95.PATH-1	38	2201	23	23	Pathology: gross: maternal surface, hemorrhage, age
96.PATH-1	39	2201	24	25	Pathology: gross: maternal surface, hemorrhage, size, largest diameter (cm)
97.PATH-1	39	2201	26	27	Pathology: gross: maternal surface, hemorrhage, size, smallest diameter (cm)
98.PATH-1	39	2201	28	29	Pathology: gross: maternal surface, hemorrhage, size, thickness (cm)
99.PATH-1	40	2201	30	31	Pathology: gross: maternal surface, hemorrhage retroplacental shortest distance from peripheral edge hemorrhage to placental margin (cm)
100.PATH-1	40	2201	32	33	Pathology: gross: maternal surface, hemorrhage retroplacental shortest distance from derloheral edge hemorrhage to placental margin (cm)
101.PATH-1	43	2201	34	35	Pathology: gross: cut surface, infarcts, total number
102.PATH-1	43	2201	36	36	Pathology: gross: cut surface, infarcts, pink/red, marginal
103.PATH-1	43	2201	37	37	Pathology: gross: cut surface, infarcts, pink/red, not marginal
104.PATH-1	44	2201	38	38	Pathology: gross: cut surface, infarcts, yellow/white, marginal
105.PATH-1	44	2201	39	39	Pathology: gross: cut surface, infarcts, yellow/white, not marginal
106.PATH-1	44	2201	40	40	Pathology: gross: cut surface, infarcts, pink/red, unknown location
107.PATH-1	44	2201	41	41	Pathology: gross: cut surface, infarcts, yellow/white, unknown location
108.PATH-1	44	2201	42	42	Pathology: gross: cut surface, infarcts, unknown color, marginal
109.PATH-1	44	2201	43	43	Pathology: gross: cut surface, infarcts, unknown color, not marginal
110.PATH-1	44	2201	44	44	Pathology: gross: cut surface, infarcts, unknown color, unknown location
111.PATH-1	45	2201	45	45	Pathology: gross: cut surface, infarcts, size (cm)
112.PATH-1	46	2201	46	46	Pathology: gross: cut surface, infarcts, maternal floor
113.PATH-1	47	2201	47	47	Pathology: gross: cut surface, color
114.PATH-1	48	2201	48	48	Pathology: gross: cut surface, consistency

Data Items Referencing Form PATH-1, Placental Exam - Gross

DATA ITEM ID	ITEM CN FORM	CARD NUM	FROM TO	DATA ITEM NAME
115.PATH-1	48	2201	49	Pathology: gross; cut surface, calcification
116.PATH-1		2201	50	Pathology: gross; cut surface, intervillous thrombosis, total number
117.PATH-1	50	2201	52	Pathology: gross; cut surface, intervillous thrombosis, total number laminated
118.PATH-1	51	2201	53	Pathology: gross; cut surface, intervillous thrombosis, number laminated in marginal sinus
119.PATH-1	52	2201	54	Pathology: gross; cut surface, intervillous thrombosis, total number not laminated
120.PATH-1	53	2201	55	Pathology: gross; cut surface, intervillous thrombosis, number not laminated in marginal sinus
121.PATH-1	54	2201	56	Pathology: gross; cut surface, tumor
122.PATH-1	55	2201	57	Pathology: gross; cut surface, hydatid change
123.PATH-1	56	2201	58	Pathology: gross; cut surface, true cysts
124.PATH-1	58	2201	59	Pathology: gross, exam was done with knowledge of case
125.PATH-1	59	2201	60	Pathology: gross, special studies
126.PATH-1	60	2201	62	Pathology: gross, other abnormalities
127.PATH-1	5	2201	63	Pathology: gross; designation of placenta, pluriarity
128.....VAR		2201	64	Blank
129.PATH-1		2201	73	Pathology: gross, placenta identification number
5360....VAR	24	51A	51B	Pathology: gross; membranes and fetal surface, color of fetus
5361....VAR	20	519	519	Pathology: gross; membranes and fetal surface, decidual necrosis
5362....VAR	20	520	520	Pathology: gross; membranes and fetal surface, decidual necrosis (yes, no, unknown)
5363....VAR	22	521	521	Pathology: gross; membranes and fetal surface, insertion of membranes
5364....VAR	31	527	525	Pathology: gross; membranes and fetal surface, weights: placentas (gms)
5365....VAR	31	526	527	Pathology: gross; membranes and fetal surface, weight, categorised
5366....VAR	13	528	528	Pathology: gross; cord, type of insertion, membranous, /
5367....VAR	17	529	529	Pathology: gross; cord, type of insertion, membranous / nonmembranous
5368....VAR	14	530	530	Pathology: cord, arteries, number
5369....VAR	45	531	531	Pathology: gross; cut surface, infarcts, site

PLACENTAL EXAMINATION - GROSS		1. PATIENT'S IDENTIFICATION	
<b>INSTRUCTIONS:</b> (1) For use when cross-sectional length of fetus is 16.3 cm. or more (gestational age 30 weeks). (2) Placenta must be fresh when examined. (3) An entry is required for every placenta except those for review only. (4) Describe all characteristics in the spaces or boxes of second choice. (5) Present at least 3 sections as specified in section card, membranes card, and placenta.			
2. GROSS EXAMINATION BY		3. TIME	DATE Mo. Day Year AM PM
4. MULTIPLE BIRTHS (Photograph all placentas of multiple births - 20 mm. color)			
5. DESCRIPTION OF PLACENTA DESCRIBED ON THIS FORM		6. LABELED AT DELV.	7. PLACENTAS FUSED
<input type="checkbox"/> Twin A <input type="checkbox"/> Twin B <input type="checkbox"/> Other Multiple Birth (Describe)		<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes (Fill out one form for each form)
8. IF FUSED PLACENTAS, IS ANASTOMOSIS PRESENT?			
<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unobserved (Vessels must be injected as described in column). Describe anastomoses below, indicating whether artery to artery, vein to vein, artery to vein, etc. size of vessels, etc.			
9. DIMENSIONS		10. SHAPE	
(Largest Diam.) X (Smallest Diam.)		<input type="checkbox"/> Round or Oval <input type="checkbox"/> Other (Describe)	
11. CORD			
12. LENGTH OF CORD		13. SHORTEST DISTANCE FROM CORD INSERTION TO PLACENTAL MARGIN	
(Portion attached to placenta plus any loose pieces)		<input type="checkbox"/> None <input type="checkbox"/> Minimal <input type="checkbox"/> Moderate <input type="checkbox"/> Maximum	
14. NUMBER OF VESSELS (Fetal end)		15. TRUE KNOT IN CORD	
<input type="checkbox"/> 2 <input type="checkbox"/> 3		<input type="checkbox"/> No <input type="checkbox"/> Yes (If "yes" note number as specified in column)	
16. COLOR OF CORD		17. FROZEN SECTION TAKEN	
<input type="checkbox"/> Normal <input type="checkbox"/> Other (Describe)		<input type="checkbox"/> No <input type="checkbox"/> Yes	
18. MEMBRANES AND FETAL SURFACE			
19. MEMBRANES COMPLETE		20. DECIDUAL NECROSIS	
<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unable to determine		<input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	
21. INSERTION OF MEMBRANES (check two H points)		22. SHORTEST DISTANCE FROM EDGE OF RUPTURE TO PLACENTAL MARGIN	
<input type="checkbox"/> Marginal <input type="checkbox"/> Chorionic <input type="checkbox"/> Choriotropic		<input type="checkbox"/> None <input type="checkbox"/> Minimal <input type="checkbox"/> Moderate <input type="checkbox"/> Maximum <input type="checkbox"/> Unknown	
23. COLOR OF FETAL SURFACE		24. OPACITY OF MEMBRANES	
<input type="checkbox"/> Bloody <input type="checkbox"/> Green <input type="checkbox"/> Brownish-yellow <input type="checkbox"/> Other (Specify)		<input type="checkbox"/> Not opaque <input type="checkbox"/> Opaque	
25. SUBCHORIONIC FLESH		26. THROMBOSED FETAL VESSELS	
<input type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Not visible		<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe: Vein, artery, etc.)	
27. AMNIOTIC NODDUM		28. CYSTS	
<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)		<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)	
29. SURFACE		30. MATERNAL SURFACE	
<input type="checkbox"/> Intact <input type="checkbox"/> Lacerated		<input type="checkbox"/> Complete <input type="checkbox"/> Incomplete <input type="checkbox"/> Unobserved	
31. DEPRESSED AREA		32. IF PRESENT	
<input type="checkbox"/> None <input type="checkbox"/> Present		<input type="checkbox"/> Size _____ X _____	
33. MEMBRANOUS		34. APPARENTLY CAUSED BY	
<input type="checkbox"/> None <input type="checkbox"/> Present		<input type="checkbox"/> Hemorrhage <input type="checkbox"/> Adipose or <input type="checkbox"/> Other (Describe) <input type="checkbox"/> Unknown	
35. MEMBRANOUS		36. SIZE	
<input type="checkbox"/> None <input type="checkbox"/> Resin <input type="checkbox"/> Old		<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)	
<input type="checkbox"/> Old (Specify) <input type="checkbox"/> 2 (Plum) <input type="checkbox"/> (Largest diam.) (Smallest) (Thickness)		<input type="checkbox"/> Not seen <input type="checkbox"/> Minimal <input type="checkbox"/> Moderate <input type="checkbox"/> Maximum	
37. CUT SURFACE		38. SHORTEST DISTANCE FROM PERIPHERAL EDGE OF MEMORY-RING TO PLACENTAL MARGIN	
39. INFARCTS (If none write 0 in all blanks)		<input type="checkbox"/> Location retroplacental <input type="checkbox"/> Location retromembrane	
40. PINK-RED INFARCTS		41. CUT SURFACE	
<input type="checkbox"/> No. Marginal _____ <input type="checkbox"/> No. Not Marginal _____		<input type="checkbox"/> Yellow-white infarcts <input type="checkbox"/> No. Marginal _____ <input type="checkbox"/> No. Not Marginal _____	
42. SIZE OF INFARCTS		43. MATERNAL FLOOR INFARCTS (as specified in column)	
<input type="checkbox"/> Not applicable <input type="checkbox"/> All in a mass <input type="checkbox"/> At least one more than 3 cm. (no. _____) <input type="checkbox"/> Not found <input type="checkbox"/> 1 cm. <input type="checkbox"/> 2 cm. <input type="checkbox"/> 3 cm.		<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)	
44. COLOR		45. CONSISTENCY	
<input type="checkbox"/> Normal <input type="checkbox"/> Unusually light (specify)		<input type="checkbox"/> Firm <input type="checkbox"/> Spiny <input type="checkbox"/> Calcification scattered surface only <input type="checkbox"/> Calcification throughout	
46. INTERVILLOUS THROMBOSIS (If none, write 0 in all blanks)		47. HYDATOID CHANGE	
<input type="checkbox"/> Total number lacerated _____		<input type="checkbox"/> No. lacerated in marginal sinus _____	
48. TUMOR		49. Tumor no. not lacerated _____	
<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)		50. No. not lacerated in marginal sinus _____	
51. HYDATOID CHANGE			
<input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)		52. TRUE CYSTS (In subplacenta) (If none, write 0) Number present _____	
Collaborative Research			

**Cooperative Research  
Partnership Branch, NINDS, NIH  
Bethesda 14, Md.**

(PATH-1) PAGE 1 OF 1

COLA 320-1  
P-55

**PLACENTAL EXAMINATION—GROSS**  
**(Continued)**

**57. PATIENT'S IDENTIFICATION**

RE-EXAMINATION WAS DONE WITH KNOWLEDGE THAT

- Clinical course or outcome for mother or baby was normal       Clinical course or outcome for mother or baby was abnormal       With no knowledge of the case

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**99. SPECIAL STUDIES**

- Photography     Virology     Microbiology  
   $\downarrow$                                $\downarrow$                                $\downarrow$                                $\downarrow$   
 General medicine     Internal medicine     Surgery     Other (describe)  $\downarrow$

#### 6. PREDICTION OF OTHER ABNORMALITIES

- No abnormalities other than those specified above

**61. DESCRIPTION OF ABNORMAL**

**CORRESPONDING NUMBER.**

**Collaborative Research  
Patient Research Branch, NINRNS, NIH  
Bethesda 14, Md.**

(PATH-1) Page 2 of 2

Form Item Numbers Linked to Data Items on PATH-1, Placental Exam - Gross

ITEM ON FORM	DATA ITEM IN	CARD NUM	FROM	TO	DATA ITEM NAME
129.PATH-1 2201		73	40	40	Gross pathology: gross; membranes and fetal surface, description number
116.PATH-1 2201		50	41	41	Gross pathology: gross; cut surface, intervillous thrombosis, total
71.PATH-1 1201		40	49	49	Gross pathology: gross; membranes and fetal surface, description number
86.PATH-1 1201		73	80	80	Gross pathology: gross; placenta, identification number
63.PATH-1 1201		32	38	38	Gross pathology: gross; placenta, description
50.PATH-1 1201		15	16	16	Gross pathology: gross; examination by
53.PATH-1 1201		23	24	24	Gross pathology: gross; date (day)
52.PATH-1 1201		21	22	22	Gross pathology: gross; date (mo)
54.PATH-1 1201		25	26	26	Gross pathology: gross; date (yr)
51.PATH-1 1201		17	20	20	Gross pathology: gross; time
527.PATH-1 2201		63	63	63	Gross pathology: gross; designation of placenta, plurality
525.PATH-1 1201		27	27	27	Gross pathology: gross; designation of placenta, plurality
56.PATH-1 1201		28	28	28	Gross pathology: gross; placenta, labeled at delivery
57.PATH-1 1201		29	29	29	Gross pathology: gross; placenta, fused
58.PATH-1 1201		30	30	30	Gross pathology: gross; placenta, anastomosis present
59.PATH-1 1201		31	32	32	Gross pathology: gross; placenta, dimensions, largest diameter (cm)
60.PATH-1 1201		33	34	34	Gross pathology: gross; placenta, dimensions, smallest diameter (cm)
61.PATH-1 1201		35	36	36	Gross pathology: gross; placenta, dimensions, thickness (cm)
62.PATH-1 1201		37	37	37	Gross pathology: gross; placenta, shape
64.PATH-1 1201		39	41	41	Gross pathology: gross; placenta, length (cm)
5367...VAR		529	529	529	Gross pathology: gross; cord, type of insertion, membranes / nonshrunken
13		528	528	528	Gross pathology: gross; cord, type of insertion, membranes, degree to placental margin (cm)
13		42	43	43	Gross pathology: gross; placenta, shortest distance from cord, insertion to placental margin (cm)
65.PATH-1 1701		44	44	44	Gross pathology: gross; placenta, type of insertion
13		530	530	530	Gross pathology: gross; cord, arteries, number
14		45	45	45	Gross pathology: gross; placenta, number of vessels
15		46	46	46	Gross pathology: gross; placenta, true knot
16		47	47	47	Gross pathology: gross; placenta, color
17		48	48	48	Gross pathology: gross; membranes, complete sections taken
19		50	50	50	Gross pathology: gross; membranes and fetal surface, membranes complete
20		51	51	51	Gross pathology: gross; membranes and fetal surface, decidua necrosis
20		519	519	519	Gross pathology: gross; membranes and fetal surface, decidua necrosis (yes, no, unknown)
20		520	520	520	Gross pathology: gross; membranes and fetal surface, decidua necrosis
21		74.PATH-1 1201	52	52	Gross pathology: gross; membranes and fetal surface, membranes edema
22		75.PATH-1 1201	53	53	Gross pathology: gross; membranes and fetal surface, insertion of membranes
22		5163...VAR	521	521	Gross pathology: gross; membranes and fetal surface, insertion of membranes

Form Item Numbers linked to Data Items on PATH-1, Placental Exam - Gross

ITEM NUM FORM	DATA ITEM ID	CARD NUM	FRM	To	DATA ITEM NAME
23	76.PATH-1 1201	54	55	Pathology: gross; membranes and fetal surface, shortest distance from edge or rupture to placental margin (cm)	
24	77.PATH-1 1201	56	56	Pathology: gross; membranes and fetal surface, color of fetal surface	
24	5364....VAR	518	518	Pathology: gross; membranes and fetal surface, color of fetal surface	
25	78.PATH-1 1201	57	57	Pathology: gross; membranes and fetal surface, opacity of membranes	
26	79.PATH-1 1201	58	58	Pathology: gross; membranes and fetal surface, subchorionic fibrins	
27	80.PATH-1 1201	59	59	Pathology: gross; membranes and fetal surface, description of Subchorionic fibrin	
28	81.PATH-1 1201	60	60	Pathology: gross; membranes and fetal surface, thrombosed fetal vessels	
29	82.PATH-1 1201	61	61	Pathology: gross; membranes and fetal surface,羊膜 nodosus	
30	83.PATH-1 1201	62	62	Pathology: gross; membranes and fetal surface, cysts	
31	84.PATH-1 1201	63	66	Pathology: gross; membranes and fetal surface, weight (gms)	
31	5365....VAR	526	527	Pathology: gross; membranes and fetal surface, weight, categorized	
31	5364....VAR	522	575	Pathology: gross; membranes and fetal surface, weight, diameter (cm)	
33	88.PATH-1 2201	15	15	Pathology: gross; maternal surface, intact/lacerated?	
34	90.PATH-1 2201	16	16	Pathology: gross; maternal surface, completeness	
35	91.PATH-1 2201	17	17	Pathology: gross; maternal surface, depressed area, total number	
36	92.PATH-1 2201	18	19	Pathology: gross; maternal surface, depressed area, size, length (cm)	
36	93.PATH-1 2201	20	21	Pathology: gross; maternal surface, depressed area, size, width (cm)	
37	94.PATH-1 2201	22	22	Pathology: gross; maternal surface, depressed area, apparent cause	
38	95.PATH-1 2201	23	23	Pathology: gross; maternal surface, hemorrhage, size	
39	96.PATH-1 2201	24	25	Pathology: gross; maternal surface, hemorrhage, size, largest diameter (cm)	
39	97.PATH-1 2201	26	27	Pathology: gross; maternal surface, hemorrhage, size, smallest diameter (cm)	
39	98.PATH-1 2201	28	29	Pathology: gross; maternal surface, hemorrhage, size, thickness (cm)	
40	100.PATH-1 2201	32	33	Pathology: gross; maternal surface, hemorrhage retroplacentae shortest distance from peripheral edge hemorrhage to placental margin (cm)	
40	99.PATH-1 2201	30	31	Pathology: gross; maternal surface, hemorrhage to placental shorted distance from periiphery edge hemorrhage to placental margin (cm)	
43	101.PATH-1 2201	34	35	Pathology: gross; cut surface infarcts, total number	
43	102.PATH-1 2201	36	36	Pathology: gross; cut surface, infarcts, pink/red, marginal	
43	103.PATH-1 2201	37	37	Pathology: gross; cut surface, infarcts, pink/red, not marginal	
44	106.PATH-1 2201	40	40	Pathology: gross; cut surface, infarcts, pink/red, unknown location	

Form item numbers linked to data items on PATH-1, Placental Exam - Gross

ITEM NO FROM	DATA ITEM ID	CARD NUM	FROM	TO	DATA ITEM NAME
44	106.PATH-1	2201	42	42	Pathology: gross; cut surface, infarcts, unknown color, marginal
44	109.PATH-1	2201	43	43	Pathology: gross; cut surface, infarcts, unknown color, not marginal
44	110.PATH-1	2201	44	44	Pathology: gross; cut surface, infarcts, unknown color, unknown location
44	104.PATH-1	2201	38	38	Pathology: gross; cut surface, infarcts, yellow/white, marginal
44	105.PATH-1	2201	39	39	Pathology: gross; cut surface, infarcts, yellow/white, not marginal
44	107.PATH-1	2201	41	41	Pathology: gross; cut surface, infarcts, yellow/white, unknown location
45	5369.***.VAR		531	531	Pathology: gross; cut surface, infarcts, size
45	111.PATH-1	2201	45	45	Pathology: gross; cut surface, infarcts, size (cm)
46	112.PATH-1	2201	46	46	Pathology: gross; cut surface, infarcts, maternal floor
47	113.PATH-1	2201	47	47	Pathology: gross; cut surface, color
48	115.PATH-1	2201	49	49	Pathology: gross; cut surface, calcification
48	114.PATH-1	2201	48	48	Pathology: gross; cut surface, consistency
50	117.PATH-1	2201	52	52	Pathology: gross; cut surface, intervillous thrombosis, total number laminated
51	118.PATH-1	2201	53	53	Pathology: gross; cut surface, intervillous thrombosis, number laminated in marginal sinus
52	119.PATH-1	2201	54	54	Pathology: gross; cut surface, intervillous thrombosis, total number not laminated
53	120.PATH-1	2201	55	55	Pathology: gross; cut surface, intervillous thrombosis, number not laminated in marginal sinus
54	121.PATH-1	2201	56	56	Pathology: gross; cut surface, tumor
55	122.PATH-1	2201	57	57	Pathology: gross; cut surface, hydatid change
56	123.PATH-1	2201	58	58	Pathology: gross; cut surface, true cysts
58	124.PATH-1	2201	59	59	Pathology: gross, exam was done with knowledge of case
59	125.PATH-1	2201	60	61	Pathology: gross, special studies
60	126.PATH-1	2201	62	62	Pathology: gross, other abnormalities

**DEFINITION OF CODES**  
**PLACENTAL EXAMINATION - GROSS**  
**FORM PATH 1**                                   **CARD 12012**  
   **CARD 12013**

<u>FIELD</u>		<u>CARD COLUMN</u>
1.	<u>Card Number</u> Code: 1	1
2.	<u>Form Number</u> Code: 201	2-4
3.	<u>Revision Number</u> Code: 2 - Form dated: 7/59 (Revised coding 1965) 3 - Placental 1	5
4.	<u>NINDE Number</u> Item 1 Nine-digit number for Patient Identification Code: As given	6-14
5.	<u>Examination By</u> Item 2 Code: See attachment "Examiners", pages PATH 1. - 12 & 13	15-16
6.	<u>Time</u> Item 3 Code: 0001-2400 - As given in hours and minutes based on 24 hour clock 9999 - Unknown	17-20
7.	<u>Date</u> Item 3 Six-digit code for: <u>Month</u> (cols. 21-22) <u>Day</u> (cols. 23-24) <u>Year</u> (cols. 25-26) Code: As given 99 - Month, Day and/or Year Unknown	21-26
8.	<u>Designation of Placenta</u> Item 5 Code: 0 - Single birth 1 - First of multiple 2 - Second of multiple 3 - Third or multiple 4 - Fourth of multiple	27
9.	<u>Labeled at Delivery</u> Item 6 Code: 0 - No 1 - Yes 8 - Not applicable, single birth 9 - Unknown	28

**DEFINITION OF CODES (continued)**

**FORM PATH 1**

Card 12012

Card 12013

**CARD**

**COLUMN**

**FIELD**

10.	<u>Placenta Fused</u> Item 7 Code: Same as in Field 9	29
11.	<u>Anastomosis Present</u> Item 8 Code: Same as in Field 9	30
12.	<u>Dimensions</u> Item 9 Six-digit code for: <u>Largest Diameter</u> (cols. 31-32) <u>Smallest Diameter</u> (cols. 33-34) Code for each two columns: 01-50 - As given in cms. 97 - Multi-lobed 98 - More than one set of dimensions 99 - Unknown <u>Thickness</u> (cols. 35-36) Code: 01-95 - As given in tenths of cms. 96 - 9.6 cms. or more 97 - Multi-lobed 98 - More than one set of dimensions 99 - Unknown	31-36
13.	<u>Shape</u> Item 10 Code: 1 - Non-partite 2 - Bipartite 3 - Tripartite 4 - Succenturiate 5 - Membranous placenta 6 - Crescent shaped 8 - Irregular shape 9 - Unknown	37

**CORD**

14.	<u>Description</u> Code: 0 - No description 1 - Edema 2 - Maceration 3 - Several pieces of cord seen 4 - Narrow 5 - Flat 6 - Soft 9 - Unknown	38
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## DEFINITION OF CODES (continued)

FORM PATH 1

Card 12012

Card 12013

CARD

COLUMNFIELD

15.	<u>Length</u> Item 12 Code: 001-200 - As given in cms. 999 - Unknown	39-41
16.	<u>Shortest Distance from Cord Insertion to Placental Margin</u> Item 13 Code: 00 - At margin 01-20 - As given in cms. 99 - Unknown	42-43
17.	<u>Type of Insertion</u> Item 13 Code: 0 - Marginal 1 - Not membranous 2 - Membranous 9 - Unknown	44
18.	<u>Number of Vessels</u> Item 14 Code: 2 - Two 3 - Three 8 - Other 9 - Unknown	45
19.	<u>True Knot</u> Item 15 Code: 0 - No 1 - Yes 9 - Unknown	46
20.	<u>Color</u> Item 16 Code: 0 - Normal 1 - Green 2 - Yellow 3 - Purple 8 - Other 9 - Unknown	47
21.	<u>Frozen Section Taken</u> Item 17 Code: Same as in Field 19	48

## DEFINITION OF CODES (continued)

FORM PATH 1

Card 12012

Card 12013

CARD

COLUMNFIELD

## MEMBRANES AND FETAL SURFACE

22.	<u>Description</u>	49
	Code: 0 - No description 1 - Squamous metaplasia 2 - Amnion not available 3 - Velamentous vessels 8 - Other 9 - Unknown	
23.	<u>Membranes Complete</u>	50
	Item 19 Code: Same as in Field 19	
24.	<u>Decidua Necrosis</u>	51
	Item 20 Code: 0 - Not seen grossly 1 - Present, not massive 2 - Present, massive 8 - Other 9 - Unknown	
25.	<u>Membranes Edematous</u>	52
	Item 21 Code: 0 - No 1 - Yes 2 - Possibly 9 - Unknown	
26.	<u>Insertion of Membranes</u>	53
	Item 22 Code: 1 - Marginal 2 - Circummarginate 3 - Combination of codes 1 and 2 4 - Circumvallate 5 - Combination of codes 1 and 4 6 - Combination of codes 2 and 4 7 - Combination of codes 1, 2 and 4 9 - Unknown	
27.	<u>Shortest Distance From Edge of Rupture to Placental Margin</u>	54-55
	Item 23 Code: 00 - At margin 01-30 - As given in cms. 97 - Membranes not ruptured 99 - Unknown	

## DEFINITION OF CODES (continued)

FORM PATH 1

Card 12012

Card 12013

CARD  
COLUMN

<u>FIELD</u>		<u>COLUMN</u>
28.	<u>Color of Fetal Surface</u>	56
	Item 24	
	Code: 1 - Blue-gray 2 - Green 3 - Combination of codes 1 and 2 4 - Brownish-yellow 5 - Combination of codes 1 and 4 6 - Combination of codes 2 and 4 7 - Combination of codes 1, 2 and 4 8 - Other 9 - Unknown	
29.	<u>Opacity of Membranes</u>	57
	Item 25	
	Code: 0 - Not opaque 1 - Opaque 2 - Partially opaque 9 - Unknown	
30.	<u>Sub-Chorionic Fibrin</u>	58
	Item 26	
	Code: 0 - Not seen 1 - Present, not massive 2 - Present, massive 9 - Unknown	
31.	<u>Description of Sub-Chorionic Fibrin</u>	59
	Item 27	
	Code: 0 - No sub-chorionic fibrin 1 - Patchy 2 - Diffuse 3 - Combination of codes 1 and 2 9 - Unknown	
32.	<u>Thrombosed Fetal Vessels</u>	60
	Item 28	
	Code: 0 - Not seen 1 - Present 9 - Unknown	
33.	<u>Ammion Nodosum</u>	61
	Item 29	
	Code: Same as in Field 32	

## DEFINITION OF CODES (continued)

FORM PATH 1  
Card 12012  
Card 12013

CARD  
COLUMN

<u>FIELD</u>		<u>COLUMN</u>
34.	<u>Cysts</u> Item 30 Code: 0 - Not seen 1-7 - As given 8 - 8 or more, numerous 9 - Unknown	62
35.	<u>Weight</u> Item 31 Code: 0001-2000 - As given in gms. 9999 - Unknown	63-66
36.	<u>Blank</u>	67-72
37.	<u>Placenta Number</u> Code: Institution identification* as given 8 Blanks - None reported	73-80

\* Any combination of alpha and numeric codes with  
blanks permitted in cols. 76-80.

## DEFINITION OF CODES (continued)

FORM PATH 1

Card 22012

Card 22013

CARD

COLUMN

<u>FIELD</u>	<u>COLUMN</u>
1. <u>Card Number</u> Code: 2	1
2. <u>Basic Date</u> Code: Same as in cols. 2-14 of card 1	2-14
MATERNAL SURFACE	
3. <u>Surface</u> Item 33 Code: 1 - Intact 2 - Lacerated 9 - Unknown	15
4. <u>Completeness</u> Item 24 Code: 1 - Complete 2 - Incomplete 9 - Unknown	16
5. <u>Depressed Area</u> Items 35-37 Six-digit code for: <u>Total Number</u> (col. 17) Code: 0 - None 1 - One 2 - Two or more 3 - Present, number unknown (Rev. "3" only) 9 - Unknown <u>Size: Length</u> (cols. 18-19) <u>Size: Width</u> (cols. 20-21) Code for each two columns: 00 - Not applicable 01-98 - As given 99 - Unknown <u>Apparent Cause</u> (col. 22) Code: 0 - Not applicable 1 - Hemorrhage 2 - Atrophy or Infarct 3 - Combination of codes 1 and 2 4 - Other (Rev. 3 only) 5 - Combination of codes 1 and 4 6 - Combination of codes 2 and 4 7 - Combination of codes 1, 2 and 4 9 - Unknown	17-22

NOTE: 0's in entire field = no depressed area

## DEFINITION OF CODES (continued)

FORM PATH 1

Card 22012

Card 22013

CARD  
COLUMNFIELD

6.

Hemorrhage

Items 38-40

23-33

Eleven-digit code for:

Age (col. 23)

Code: 0 - None

1 - Recent, elastic

2 - Old, firm

3 - Combination of codes 1 and 2

8 - Hemorrhage present but age unspecified

9 - Unknown

Size: Largest Diameter (cols. 24-25)Size: Smallest Diameter (cols. 26-27)Size: Thickness (cols. 28-29)

Code for each two columns:

00 - Not applicable

01-98 - As given

99 - Unknown

Shortest Distance from Peripheral Edge of Hemorrhageto Placental Margin: Retroplacental (cols. 30-31)Retromembranous (cols. 32-33)

Code for each two columns:

00 - Not applicable

01-20 - As given in cms.

77 - Less than 0.5 cms.

98 - Hemorrhage present but distance unknown

99 - Unknown

NOTE: 0's in entire field = no hemorrhage present

## CUT SURFACE

7.

Infarcts

Items 43-45

34-45

Twelve-digit code for:

Total Number (cols. 34-35)

Code: 00 - None

01-96 - As given

97 - 97 or more

98 - Too numerous to count

99 - Unknown

Pink-Red: Marginal (col. 36)Pink-Red: Not Marginal (col. 37)

## DEFINITION OF CODES (continued)

FORM PATH 1  
 Card 22012  
 Card 22013  
 CARD  
COLUMN

FIELD

7.	<u>Infarcts</u> (continued)	34-45
	<u>Yellowish-White: Marginal</u> (col. 38)	
	<u>Yellowish-White: Not Marginal</u> (col. 39)	
	Code for each column:	
	0 - None	
	1-7 - As given	
	8 - 8 or more, too numerous to count	
	9 - Unknown	
	<u>Pink-Red: Unknown location</u> (col. 40)	
	<u>Yellow-White: Unknown location</u> (col. 41)	
	<u>Unknown Color: Marginal</u> (col. 42)	
	<u>Unknown Color: Not Marginal</u> (col. 43)	
	<u>Unknown Color: Unknown location</u> (col. 44)	
	Code for each column:	
	0 - None	
	1-7 - As given	
	8 - 8 or more	
	9 - Unknown	
	<u>Size</u> (col. 45)	
	0 - Not applicable	
	1 - All infarcts less than 3 cms.	
	2 - At least one infarct measures 3 or more cms.	
	9 - Unknown	
8.	<u>Maternal Floor Infarcts</u>	46
	Item 46	
	Code: 0 - Not seen	
	1 - Present	
	9 - Unknown	
9.	<u>Color</u>	47
	Item 47	
	Code: 0 - Normal	
	1 - Unusually light	
	2 - Unusually dark	
	3 - Combination of codes 1 and 2	
	8 - Other	
	9 - Unknown	
10.	<u>Consistency</u>	48
	Item 48	
	Code: 1 - Firm	
	2 - Spongy	
	3 - Combination of codes 1 and 2	
	4 - Soft	
	9 - Unknown	

## DEFINITION OF CODES (continued)

FORM PATH 1  
Card 22012  
Card 22013

CARD  
COLUMN

FIELD

11.	<u>Calcification</u> Item 48 Code: 0 - None 1 - Maternal surface only 2 - Throughout 9 - Unknown	49
12.	<u>Intervillous Thrombosis</u> Items 50-53 Six-digit code for: <u>Total</u> (cols. 50-51) Code: 00 - None 01-96 - As given 97 - 97 or more 98 - Too numerous to count 99 - Unknown <u>Total Number Laminated</u> (col. 52) <u>Number Laminated in Marginal Sinus</u> (col. 53) <u>Total Number Not Laminated</u> (col. 54) <u>Number Not Laminated in Marginal Sinus</u> (col. 55) Code for each column: 0 - None 1-7 " As given 8 - 8 or more, too numerous to count 9 - Unknown	50-55
13.	<u>Tumor</u> Item 54 Code: Same as in Field 8	56
14.	<u>Hydatid Cyst</u> Item 55 Code: Same as in Field 8	57
15.	<u>True Cysts</u> Item 56 Code: Same as in Field 12, col. 52	58
16.	<u>Gross Examination Done With Knowledge That</u> Item 58 Code: 1 - Clinical outcome normal 2 - Clinical outcome abnormal 3 - No knowledge of case 9 - Unknown	59

## DEFINITION OF CODES (continued)

FORM PATH 1  
 Card 22012  
 Card 22013

CARD  
COL 61

FIELD

17. Special Studies 60-61

Item 59

Two-digit code for:

Photography, Virology or Histochemistry (col. 60)

- Code: 0 - None  
 1 - Photography only  
 2 - Virology only  
 3 - Combination of codes 1 and 2  
 4 - Histochemistry  
 5 - Combination of codes 1 and 4  
 6 - Combination of codes 2 and 4  
 7 - Combination of codes 1, 2 and 4  
 9 - Unknown

Other (col. 61)

- Code: 0 - None  
 1 - Bacterial culture  
 2 - Other than bacterial culture  
 3 - Combination of codes 1 and 2  
 9 - Unknown

18. Other Abnormalities 62

Item 60

- Code: 0 - No  
 1 - Yes  
 9 - Unknown

19. Designation of Placenta 63

Item 5

- Code: 0 - Single Birth  
 1 - First of Multiple  
 2 - Second of Multiple  
 3 - Third of Multiple  
 4 - Fourth of Multiple

20. Blank 64-72

21. Placenta Number 73-80

Code: Institution identification\* as given  
 8 Blanks - None reported

\* Any combination of alpha and numeric codes with blanks permitted in cols. 76-80.

PLACENTAL EXAMINATION - GROES

EXAMINERS

05 - Boston

01 Benirschke  
02 Driscoll  
03 J.K.  
04 Potter  
05 Craig  
06 Szulman  
07 Bradford  
08 Leoindas  
09 Cury or Kury  
10 Favara  
11 Aires  
12 Alvario  
13 McCoombs  
14 Mechanic  
15 Gibson  
16 Santos  
17 Amicic  
18 Paci  
19 Raslavicus  
20 Deliglesi  
21 Saber  
22 Whyte  
23 Laga  
24 Malouf  
25 Hedley  
99 Unknown

15 - Charity

01 Johnson  
02 Burch  
03 Gilmer  
04 Foley  
05 Rosal  
06 Elliott  
07 Medawar  
08 Beck  
09 Melton  
10 Meek  
99 Unknown

31 - Columbia

01 Blanc  
02 Kaufman  
03 Goetz  
34 Navarro  
05 Richard  
99 Unknown

37 - Johns Hopkins

01 Gruenwald  
02 Brown  
03 Lane  
04 Kramer  
05 Hannibal  
06 Nicastri  
07 Linthicum  
08 Beitnott  
09 Bloodwell  
10 McCall  
11 Lee  
12 Clowry  
13 Pusch  
14 Esterly  
15 Hutchins  
16 Ebert  
17 Haghghi  
18 Patterson  
19 Haller  
20 Benson  
21 Porro  
22 Berman

10 - Buffalo

01 O'Sullivan  
02 Aquino  
03 Froehlich  
04 Leghami  
05 Lehoczky  
06 Managle  
07 Atarman  
08 Harrod  
09 Abaci  
10 Darwish  
99 Unknown

PLACENTAL EXAMINATION - GROSS

EXAMINERS (cont.)

37 - Johns Hopkins (cont.)

23 Frederick  
24 Barnby  
25 Simonsen  
26 Rieumont  
27 Bransford  
28 WL  
29 MacLeod  
30 Cornell  
31 Caplan  
32 Jacobs  
33 Wasserman  
34 O'Quinn  
35 Hingson  
36 Lewis  
37 Benjyroji  
38 Zerins  
39 Taylor  
40 Brazendale  
41 Rogers  
42 Goldman  
43 Russo  
44 Wasnick  
45 Wheeler  
46 Mancini  
47 Pelham  
48 Laubscher  
49 Singer  
50 Curtin  
51 Gray  
52 Wilson  
53 Vitsky  
54 Leiby  
55 Siegal  
56 WDZ  
57 Ziererink  
58 Tolo  
59 Brammer  
60 Abraham  
61 Houghtaling  
62 Johnson  
63 Hall  
64 Addman  
65 Davis  
66 Shelley  
67 Elliott  
68 Baens  
69 Woodward  
79 Unknown

45 - Virginia

01 Belter  
02 Richart  
03 Martin  
04 Calle  
05 Bates  
06 Davis  
07 Makoneczna  
08 Ishizaki  
09 Friedrick  
99 Unknown

50 - Minnesota

01 Burke  
02 Swallen  
03 Woolfrey  
04 Goodlin  
99 Unknown

55 - New York Medical

01 diBlasi  
02 Cempo  
03 Kim  
04 Sedlis  
05 Sonnenblick  
06 Mahairas  
07 Stone  
08 Gugliucci  
09 Murphy  
10 Asimakopulos  
11 Saphier  
12 Derry  
13 Kapusta  
14 Smith  
15 Fabricant  
16 Brenner  
17 Caturani  
18 Seigal  
19 Vansom  
20 Olivo  
21 Yatvin  
22 Schwartz  
23 Wasserwald  
24 Aneckstein  
25 Ortiz  
26 Dacosta

PLACENTAL EXAMINATION - GROSS

EXAMINERS (cont.)

55 - New York Medical (cont.)

27 Kandemir  
28 Breyan  
29 Clemendorf  
30 Pineda  
31 Calnoy  
32 Lim  
33 McCartin  
34 Vasquez  
35 Palmer  
36 Lefkowitz  
99 Unknown

60 - Oregon

01 Fujikura  
02 Emig  
03 Berroth  
04 Philp  
05 Gourley  
06 Wellings  
07 Pvopst  
08 Evans  
99 Unknown  
09 Waterman  
10 Napier

66 - Pennsylvania

01 Ziel  
02 Scarano  
03 Sharpe  
04 Lerner  
05 Baker  
06 Chatten  
07 Knauer  
08 Gonzalez  
09 Muniz  
10 Schiller  
11 Hausman  
12 Weidmann  
13 Schultze  
14 Frederick  
15 Pendleton  
16 Lane  
17 Beatty  
18 Seidel  
19 Vakil  
20 Amurao

66 - Pennsylvania (cont.)

21 Prompiti  
22 Francis  
23 Baroff  
24 Lipkin  
25 Sumerson  
26 Stanitski  
27 Longo  
28 Crane  
29 Decker  
30 Olen  
31 SZ  
32 E.D.E.  
99 Unknown

71 - Providence

01 Song  
02 Anderson  
03 Grace  
04 Freeman  
05 Mald  
06 Robinson  
07 Fethiere  
99 Unknown

82 - Tennessee

01 Johnson  
02 Greer  
03 Pitzer  
04 Bro' i  
05 Crocher  
06 Bowers  
07 Fuste  
08 C.A.C.  
09 T.A.B.  
10 A.B.  
11 Manzano  
12 Blumenfeld  
13 Smith  
14 Ainsworth  
15 Wise  
16 Threlkeld  
17 RHA  
18 Bushow (see 24)  
19 Sainz

**PLACENTAL EXAMINATION - GROSS**

PATH-1 - 16

PLACEMENT FORM PART-I

NINDB#		CUT SURFACE													
		MATERNAL SURFACE					INFARCTS					INTER-VILLOUS THROMBOSIS			
		DEPRESSED AREA		HEMORRHAGE		SIZE		SIZE		TOTAL NUMBER		TOTAL			
		36		39		40		43		44		45		46	
NINDB#		36		39		40		43		44		45		46	
ON FORM		1		2		3		4		5		6		7	
CARD #		1125457		2801		1		2		3		4		5	

PATH-1 - 17

## PLACENTAL EXAMINATION-GROSS (For Form PATH-1, Dated 7-59)

**PURPOSE.** The purpose of this examination is to provide precise and detailed information about the gross appearance of the placenta and how it may relate to the outcome of the pregnancy for both mother and infant. Report the information on PATH-1, Placental Examination - Gross.

**ORDER OF EXAMINATION.** For the sake of convenience and thoroughness, the order of the examination is to conform in so far as possible with the order of items as they appear on the form.

**EXAMINER'S LACK OF BIAS.** In so far as possible, the examiner should have no knowledge of the course or outcome of the pregnancy until this form has been completed.

**WHEN TO USE THIS FORM.** This form is to be used in every case in which the crown-rump length is 16.5 centimeters or more (gestational age 20 weeks or more), and in those cases in which the placenta is intact when the fetus is less than 16.5 centimeters crown-rump.

**DESCRIPTION OF ABNORMALITIES.** All abnormalities are to be described in the space provided at the bottom of the form. This includes those abnormalities which are not specifically mentioned in the form. If the space at the bottom of the form is not sufficient, additional pages may be added. Wherever possible, include the item number with the description of the abnormality.

**METHODS OF PREPARING SECTIONS.** At least three sections are to be prepared: cord, membrane roll, and placenta. In cases of twins, a section of the dividing membranes should also be prepared. In addition, sections of all significant gross abnormalities are to be prepared.

**SECTION OF DIVIDING MEMBRANE OF TWINS.** In fused placentas the first step after inspection and measuring of the length of the cord, etc., should be to remove a square of membranes from the area which divides the two amniotic sacs. In other words, the dividing membranes are identified and a section is cut through them. This section of membranes is then rolled by means of forceps and the roll is placed in fixative. After 24 hours, it is trimmed so that a jelly-roll-like structure is obtained for histologic examination.

**SECTION OF UMBILICAL CORD.** At the end of the gross examination of the umbilical cord, the cord is cut at a point two centimeters from the fetal surface and a section of the middle portion of the cord is placed in fixative. This segment should be approximately three to four centimeters in length and after proper fixation, a section should be trimmed from its center.

**PREPARATION OF MEMBRANE ROLL.** After inspection of the membranes, a segment is cut out measuring approximately ten centimeters in length and five centimeters in width, starting at the point of rupture and proceeding towards the margin of the placenta and including a very small piece of marginal placenta. Care must be taken that the amnion is not stripped off in this procedure. This section of membranes is then rolled by means of forceps and the roll is placed in fixative. After 24 hours, it is trimmed so that a jelly-roll-like structure is obtained for histologic examination.

**SECTION OF PLACENTA.** After complete sectioning and inspection of the cut surfaces of the placenta, select a representative block of placental tissue. Such a block is preferably three to four centimeters wide, spanning the entire thickness of the placenta and including the fetal surface with some large fetal blood vessels. It must be handled carefully lest it disrupt in the center. It should be chosen from the central portions of the placenta, some three or four centimeters away from the insertion of the cord, and it should be placed in fixative immediately. Abnormal areas, such as tumors, intervillous thromboses, and occasional infarcts, should be sampled as indicated. It is not deemed advisable to section all infarcts. However, it is suggested that cysts and intervillous thromboses and any other unusual structures be sampled for histologic observation. The choice of fixative is left to the individual institution.

**Item 1, Patient Identification.** As a minimum, enter the patient's name by addressograph or other method.

**Item 2, Gross Examination By.** Enter name and status of examiner.

**Item 3, Time and Date.** Enter the time and date of the examination.

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## PLACENTAL EXAMINATION - GROSS (Con't)

PATH-1  
7-59

**Item 4, Multiple Births.** In cases of multiple births, 35 millimeter Kodachrome photographs of the placenta must be submitted with the protocol. Each fetus is to be designated A, B, etc., with regard to order of birth and a separate form is to be used for each fetus even if the placentas are fused. In cases of fused placentas, all entries after Item 13 refer to that portion of the placenta containing the fetal circulatory district of the fetus whose designation appears on the form. If the form is being used for a single birth, leave Items 5-8 blank.

**Item 5, Designation of Placenta Described on this Form.** If the multiple birth has two members enter the designation of the placentas of the twins described on this form. If the designations have not as yet been assigned on the basis of birth order, they are to be arbitrarily assigned at this time. If this multiple birth has more than two members, check box "other multiple births" and enter in space at the bottom of the form the number of fetuses and their designation.

**Item 6, Labeled at Delivery.** Self-explanatory.

**Item 7, Placentas Fused.** Enter "yes" or "no" in this space. Fill out a separate form for each fetus in either case.

**Item 8, If Fused Placentas, Is Anastomosis Present.** In cases of fused placentas, the safest way to identify anastomoses is by injection of a colored medium into the placenta. Isolate areas of probable anastomoses and dissect one small surface vessel which leads into this district. Then isolate this vessel, insert a cannula with a ball tip, tying a small tie behind this ball tip and inject either air or preferably a colored dye. White or green dyes (e.g., a light green saline solution) provide better contrast than blue or red dyes and are more practical than the use of plastic injection materials. Large anastomoses may be identified readily by moving the possibly liquid blood in this large vessel from one placental district to the other. Check appropriate box and describe anastomoses in the space provided at the bottom of the form. Indicate whether anastomoses are artery to artery, vein to vein, or artery to vein. Note size of anastomoses, etc.

**Item 9, Dimensions.** The thickness is measured at the center of the placental tissue by pier-

cing it with a knitting needle on which centimeter marks have been inscribed.

**Item 10, Shape.** Check appropriate box. If shape is other than round or oval, describe in Item 61.

**Item 11, Cord.** This section refers to the examination of the umbilical cord. If abnormalities are present other than those specified, describe them in Item 61.

**Item 12, Length of Cord.** Measure and enter the length of the cord left on the placenta plus any loose pieces. The pediatrician will measure the length of the cord left on the baby so that a total length may eventually be obtained.

**Item 13, Shortest Distance from Cord Insertion to Placental Margin.** Record this distance in centimeters. Check proper box with regard to type of insertion. If a membranous insertion is present, describe the course and integrity of the large fetal vessels from the insertion of the cord along the membranes onto the placenta.

**Item 14, Number of Vessels.** Self-explanatory.

**Item 15, True Knot in Cord.** Check appropriate box. In the presence of true knots, this segment of the umbilical cord should be fixed in toto and sections should be placed at the ends of the knot and through its center to observe possible thrombosis in some of the blood vessels.

**Item 16, Color of Cord.** Check appropriate box. If color is abnormal, describe in Item 61. Include some impression as to possible etiology of abnormal coloration.

**Item 17, Frozen Section Taken.** Check appropriate box.

**Item 18, Membranes and Fetal Surfaces.** If abnormalities are present other than those specified, describe them in Item 61. This is to be especially emphasized in the case of spontaneous hemorrhage of the fetal surface.

**Item 19, Membranes Complete.** Self-explanatory.

**Item 20, Decidual Necrosis.** This refers to changes in the decidua capsularis.

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## PLACENTAL EXAMINATION - GROSS (Cont'd)

PATH-1  
7-59

- Item 21, Membranes Elementary.** Self-explanatory.
- Item 22, Insertion of Membranes.** If the insertion is partial, then check two boxes to describe it properly and note in the space at the bottom of the form the proportion of each type of insertion, (e.g., in case of partial circumvallate insertion, check circumvallate and marginal and then note at the bottom of the form the proportion of the periphery of the placenta occupied by each type of insertion).
- Item 23, Shortest Distance from Edge of Rupture to Placental Margin.** If the rupture is at the margin or through the body of the placenta, enter "0" and describe in Item 61.
- Item 24, Color of the Fetal Surfaces.** Self-explanatory.
- Item 25, Opacity of Membranes.** Self-explanatory.
- Item 26, Subchorionic Fibria.** This entry refers to the quantity of fibria present.
- Item 27,** This entry refers to the distribution of fibria present.
- Item 28, Thrombosed Fetal Vessels.** This does not include clots which formed after birth. If thrombosed vessels are present, note in Item 61, the type of vessel, its size and the presence or absence of degenerative changes in its walls. Also describe the thrombus and give an estimate of its age.
- Item 29, Amniotic Nodules.** If present, include in Item 61 a general description as to size, number and color of the granules.
- Item 30, Cysts.** If present, describe in Item 61. Note the number, size, location, and type of contents. Especially note the presence or absence of hemorrhage into the cyst.
- Item 31, Weight of Entire Placenta Less Cord, Membranes, and Large Clots.** Record in grams. In cases of fused twin placentas the placenta is to be cut along the approximate cleavage plane of fetal circulatory districts. The weight entered is to be that of the fetus whose designation appears on this form.
- Item 32, Maternal Surface.** If abnormalities are present other than those specified, describe them in Item 61.
- Item 33 and 34, Surface.** Self-explanatory.
- Item 35, Depressed area.** If "none" is checked, leave items 36 and 37 blank.
- Item 36, If Present.** State largest diameter and smallest diameter.
- Item 37, Apparently Caused By.** If cause is known and is not hemorrhage, atrophy, or infarct, check "other" or "unknown" cause and give cause in a note in Item 61.
- Item 38, Hemorrhage.** If "none" is checked for Item 38, then Items 39 and 40 are to be left blank. If more than one hemorrhage of significant size is present, then the largest one is to be described in Items 38 - 40 and similar information is to be provided for others of significance in Item 61.
- Item 39, Size.** Self-explanatory.
- Item 40, Shortest Distance from Peripheral Edge of Hemorrhage to Placental Margin.** Measure the shortest distance from the edge of the hemorrhage to the placental margin and check either or both boxes as applicable.
- Item 41, Cut Surface.** If abnormalities are present other than those specified, describe them in Item 61.
- Item 42, Infarcts.** Give number of infarcts according to color, in Items 43 and 44 if present. If none are present, write "0" in both blanks in Items 43 and 44. Also check box labeled "not applicable" in Item 45.
- Item 43, Pink-Red Infarcts.** Self-explanatory.
- Item 44, Yellow-White Infarcts.** Self-explanatory.
- Item 45, Size of Infarcts.** All infarcts more than 3 centimeters in largest diameter must be described in Item 61. The distribution of these infarcts should be noted and may be entered in a sketch of the placenta.
- Item 46, Maternal Floor Infarcts.** This refers to areas where the maternal surface is yellowish, very firm, and thickened. On section of these areas, the major portion of the villous tissue is normal, but the floor is apparently infarcted. If such an infarct is present, describe it in the space provided at the bottom of the form with regard to its size and location. The

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## PLACENTAL EXAMINATION - GROSS (Con't)

PATH-1  
7-59

flounces which normally divide the "maternal" cotyledons are often absent in this condition. If the flounces are absent, this should be noted in the description.

**Item 47, Color.** This refers to the color of the cut surface.

**Item 48, Consistency.** Self-explanatory.

**Item 49, Intervillous Thrombosis.** If none are observed, write "0" in Items 50 - 53.

**Item 50, Total Number Laminated.** Self-explanatory.

**Item 51, Number Laminated in Marginal Sinus.** Self-explanatory.

**Item 52, Total Number not Laminated.** Self-explanatory.

**Item 53, Number not Laminated in Marginal Sinus.** Self-explanatory.

**Item 54, Tumor.** If present, describe in Item 61 with regard to type, size, location, shape, color, consistency, etc.

**Item 55, Hydatid Change.** If present, describe in Item 61 with regard to appearance and extent.

**Item 56, Two Cysts (in Substances).** Enter number present. If none, write "0". Describe each cyst in Item 61 with regard to size, location and type of contents. Especially note presence or absence of hemorrhage into the cyst.

**Item 57, Patient Identification.** As a minimum, enter the patient's name by addressograph or other method.

**Item 58, Gross Examination was Done with the Knowledge That:** Self-explanatory.

**Item 59, Special Studies.** Describe any studies other than those choices specified on the form. "Photography" does not refer to routine photography of multiple birth placentas.

**Item 60, Presence of Other Abnormalities.** Check appropriate box with regard to the presence or absence of abnormalities other than those specifically mentioned in the form.

**Item 61, Description of Abnormalities.** In this space, all those abnormalities previously noted and all those abnormalities not specifically noted in the form are to be described. Whenever possible include the item number with the description of the abnormality.

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## **PATH-2 Placental Examination - Microscopic**

Form PATH-2 provided precise, detailed information about the microscopic appearance of the placenta and how the placenta might relate to the outcome of the pregnancy for both mother and infant. The form was implemented into the study in November 1959; it was not revised. Data from PATH-2 were coded onto card 1202 of the master file (Table PATH-2.1).

TABLE PATH-2.1 Cards and Data Records by Revision for Form PATH-2

CARD NAME	CARD NUMBER	REV. NO.	NUMBER RECORDS
PATH-2: Cord, Membranes, Decidua, Terminal Viii	1202	2	49,799
			49,799
			total for form
			49,799



Data Items Referencing Form PATH-2, Placental Exam - Micros.

DATA ITEM	ITEM FORM	CARD NUM	FROM TO	DATA ITEM NAME
110.....				
131.....				
132.PATH-2	2	1202	1	5 Card number (sequence, form type, form number, revision number)
133.PATH-2	3	1202	6	14 NINDB case number
134.PATH-2	3	1202	15	16 Pathology: microscopic, examination by
135.PATH-2	3	1202	17	18 Pathology: microscopic, date ('yy)
136.PATH-2	4	1202	19	20 Pathology: microscopic, date (day)
137.PATH-2	5	1202	21	22 Pathology: microscopic, date (yr)
138.PATH-2	6	1202	23	23 Pathology: microscopic, designation of placenta, plurality
139.PATH-2	9	1202	24	24 Pathology: microscopic, section available for examination
140.PATH-2	10	1202	25	25 Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein
		1202	26	26 Pathology: microscopic; cord, neutrophilic infiltration, umbilical artery
		1202	27	27 Pathology: microscopic; cord, neutrophilic infiltration, cord substance
141.PATH-2	11	1202	28	28 Pathology: microscopic; cord, thrombosis of vessels
142.PATH-2	12	1202	29	29 Pathology: microscopic; cord, number of umbilical arteries
143.PATH-2	15	1202	30	30 Pathology: microscopic; membranes, epithelium of amion, necrosis
144.PATH-2	16	1202	31	31 Pathology: microscopic; membranes, epithelium of amion, squamous metaplasia
145.PATH-2	17	1202	32	32 Pathology: microscopic; membranes, epithelium of amion, amian
		1202	33	33 Pathology: microscopic; membranes, epithelium of amion, bacterial colonies
147.PATH-2	20	1202	34	34 Pathology: microscopic; membranes, neutrophilic infiltration,
148.PATH-2	21	1202	35	35 Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll, amion
149.PATH-2	22	1202	36	36 Pathology: microscopic; membranes, neutrophilic infiltration, placental surface, amion
150.PATH-2	23	1202	37	37 Pathology: microscopic; membranes, neutrophilic infiltration, placental surface, chorion
151.PATH-2	24	1202	38	38 Pathology: microscopic; membranes, neutrophilic infiltration, fetal surface vessels
152.PATH-2	25	1202	39	39 Pathology: microscopic; membranes, fetal surface vascular changes, other
153.PATH-2	27	1202	40	41 Pathology: microscopic; membranes, macrophages in amion or chorion
154.PATH-2	28	1202	42	43 Pathology: microscopic; membranes, macrophages in decidua
155.PATH-2	29	1202	44	44 Pathology: microscopic; membranes, class. of dividing membranes of twin placentas
156.PATH-2	32	1202	45	45 Pathology: microscopic; decidua vessels, thrombosis
157.PATH-2	33	1202	46	46 Pathology: microscopic; decidua vessels, fibrinoid
158.PATH-2	34	1202	47	47 Pathology: microscopic; decidua vessels, etherose

## Data Items Referencing Form PATH-2, Placental Exam - Micros.

DATA ITEM ID	ITEM FIRM	CAH# NIN#	FROM TO	DATA ITEM NAME
159.PATH-2	36	1202	49	48 Pathology: microscopic; decidua, nuclear necrosis, margin
160.PATH-2	37	1202	49	49 Pathology: microscopic; decidual necrosis, capsularis
161.PATH-2	38	1202	50	50 Pathology: microscopic; decidual necrosis, basalis
162.PATH-2	40	1202	51	51 Pathology: microscopic; decidua, neutrophilic infiltration at margin
163.PATH-2	41	1202	52	52 Pathology: microscopic; decidua, neutrophilic infiltration in capsularis
164.PATH-2	42	1202	53	53 Pathology: microscopic; decidua, neutrophilic infiltration in basalis
165.PATH-2	44	1202	54	54 Pathology: microscopic; decidua, lymphocytic infiltration at margin
166.PATH-2	45	1202	55	55 Pathology: microscopic; decidua, lymphocytic infiltration in capsularis
167.PATH-2	46	1202	56	56 Pathology: microscopic; decidua, lymphocytic infiltration in basalis
168.PATH-2	48	1202	57	57 Pathology: microscopic; decidua, cytotrophoblast of columns, fibrin deposition
169.PATH-2	49	1202	58	58 Pathology: microscopic; decidua, cytotrophoblast of columns, cystic change
170.PATH-2	50	1202	59	59 Pathology: microscopic; decidua, syncytium, nuclear clumping
171.PATH-2	52	1202	60	60 Pathology: microscopic; terminal villi, Langhans' layer
172.PATH-2	53	1202	61	61 Pathology: microscopic; terminal villi, Hofbauer cells
173.PATH-2	54	1202	62	62 Pathology: microscopic; terminal villi, stromal fibrosis
174.PATH-2	55	1202	63	63 Pathology: microscopic; terminal villi, pathological edema
175.PATH-2	56	1202	64	64 Pathology: microscopic; terminal villi, micro infarcts
176.PATH-2	57	1202	65	65 Pathology: microscopic; terminal villi, nucleated RBC in fetal circulation
177.PATH-2	58	1202	66	66 Pathology: microscopic; terminal villi, melanin
178.PATH-2	61-62	1202	67	68 Pathology: microscopic; intervillous space, thrombi and adjacent villous infarction
179.PATH-2	63	1202	68	69 Pathology: microscopic; intervillous space, marginal sinus thrombi
180.PATH-2	64	1202	70	70 Pathology: microscopic; intervillous space, sickling: maternal blood
181.PATH-2	65	1202	71	71 Pathology: microscopic; intervillous space, apparent maturity of placenta
182.PATH-2	66	1202	72	72 Pathology: microscopic; exam done with knowledge of case
183.PATH-2	67	1202	73	73 Pathology: microscopic; other abnormalities present
184.....		1202	74	80 Blank
536B....VAR	12		530	530 Pathology: cord, arteries, number
5370....VAR	27		532	533 Pathology: membranes, macrophages in amniotic or chorion (yes, no, unknown)
5371....VAR	27		534	534 Pathology: membranes, macrophages in amniotic or chorion (yes, no, unknown)
5372....VAR	28		535	536 Pathology: membranes, macrophages in decidua (yes, no, unknown)
5373....VAR			537	537 Pathology: membranes, macrophages in decidua (yes, no, unknown)

NAME ITEMS REFERENCING FORM PATH-2, PLACENTAL FRAME - MICROSE.

DATA ITEM ID	ITEM ID FROM	ITEM ID TO	DATA ITEM NAME	
	ITEM ID FROM	CARD NUM	FRM	TO
5374....VAR 20			53A	518 Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll,羊膜卷, unknown
5375....VAR 20			53B	539 Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll,羊膜卷, yes, no, unknown)
5376....VAR 22			540	540 Pathology: microscopic; membranes, neutrophilic infiltration, placental surface,羊膜表面
5377....VAR 22			541	541 Pathology: microscopic; membranes, neutrophilic infiltration, placental surface,羊膜表面, avion (yes, no, unknown)
5378....VAR 21			542	542 Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll,chorion
5379....VAR 21			543	543 Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll,chorion (yes, no, unknown)
5380....VAR 8			544	544 Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein
5381....VAR 8			545	545 Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein (yes, no, unknown)

11-60 PLACENTAL EXAMINATION-MICROSCOPIC

INSTRUCTIONS: (1) For use when crown-rump length of fetus is 16.5 cm. or more (gestational age 28 weeks). (2) An entry is required for every item except those for twins only. (3) Describe all abnormalities in the spaces at bottom of sheet. (4) Examine at least 3 sections; cord, membrane roll, and placenta. (5) Use ball point pen.

2. MICROSCOPIC EXAMINATION BY: 3. DATE  
Mo. Day Year

4. DESIGNATION OF PLACENTA DESCRIBED ON THIS FORM <input type="checkbox"/> Single Birth <input checked="" type="checkbox"/> Twin A <input type="checkbox"/> Twin B <input type="checkbox"/> Other Multi-Birth   (Identify below)				5. WAS AMNION AVAILABLE FOR EXAMINATION <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes			
6. CORD							
7. NEUTROPHILIC INFILTRATION 8. Umbilical Vein <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		9. Umbilical Artery <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		10. Cord Substance <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked			
11. THROMBOSIS OF VESSELS <input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)				12. NUMBER OF UMBILICAL ARTERIES <input type="checkbox"/> One <input checked="" type="checkbox"/> Two			
13. MEMBRANES							
14. EPITHELIUM OF AMNIOTIC 15. Necrosis <input type="checkbox"/> Not seen <input checked="" type="checkbox"/> Present		16. Severeous metaplasia <input type="checkbox"/> Not seen <input type="checkbox"/> Present		17. Amniotic Macrocum <input type="checkbox"/> Not seen <input checked="" type="checkbox"/> Present		18. Bacterial Colonies <input type="checkbox"/> Not seen <input type="checkbox"/> Present	
19. NEUTROPHILIC INFILTRATION OF: 20. Amion of Membrane Roll <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		21. Chorion of Membrane Roll <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		22. Amion of Placental Surface <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked			
23. Chorion of Placental Surface <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		24. Fetal Surface Vessels <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked					
25. OTHER FETAL SURFACE VASCULAR CHANGES <input type="checkbox"/> None <input type="checkbox"/> Thrombosis <input type="checkbox"/> Necrosis <input type="checkbox"/> Other (Describe)							
26. MACROPHAGES							
27. In Amniot or Chorion <input type="checkbox"/> Not seen <input type="checkbox"/> Present (containing no pigment) <input type="checkbox"/> Present (containing meconium) <input type="checkbox"/> Present (containing hemoglobin) <input type="checkbox"/> Present (containing unknown pigment)							
28. In Decidua <input type="checkbox"/> Not seen <input type="checkbox"/> Present (containing no pigment) <input type="checkbox"/> Present (containing meconium) <input type="checkbox"/> Present (containing hemoglobin) <input type="checkbox"/> Present (containing unknown pigment)							
29. TWIN PLACENTAS ONLY - CLASSIFY DIVIDING MEMBRANES <input type="checkbox"/> Monoamniotic-Monochorionic <input type="checkbox"/> Diamniotic-Dichorionic <input type="checkbox"/> Diamniotic-Monochorionic <input type="checkbox"/> Unknown <input type="checkbox"/> (No dividing membranes present)							
30. DECIDUA							
31. VESSELS (of intact, non-necrotic areas of decidua) 32. Thrombosis <input type="checkbox"/> Not seen <input type="checkbox"/> Present <input type="checkbox"/> Unable to evaluate		33. Fibroid <input type="checkbox"/> Not seen <input type="checkbox"/> Present <input type="checkbox"/> Unable to evaluate		34. Atherosma <input type="checkbox"/> Not seen <input type="checkbox"/> Present <input type="checkbox"/> Unable to evaluate			
35. NECROSIS 36. At Margin <input type="checkbox"/> Not marked <input type="checkbox"/> Marked <input type="checkbox"/> Unable to evaluate		37. In Capillaries <input type="checkbox"/> Not marked <input type="checkbox"/> Marked <input type="checkbox"/> Unable to evaluate		38. In Basalis <input type="checkbox"/> Not marked <input type="checkbox"/> Marked <input type="checkbox"/> Unable to evaluate			
39. NEUTROPHILIC INFILTRATION 40. At Margin <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		41. In Capillaries <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		42. In Basalis <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked			
43. LYMPHOCYTIC INFILTRATION 44. At Margin <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		45. In Capillaries <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked		46. In Basalis <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked			
47. CYTOTROPHOBlast OF COLUMNS 48. Fibrin Deposition <input type="checkbox"/> Average <input type="checkbox"/> Excessive		49. Cystic Change <input type="checkbox"/> Not seen <input type="checkbox"/> Present		50. Syncytium-Nuclear Clumping <input type="checkbox"/> Normal (clumps less than 1 on 30% of villi) <input type="checkbox"/> Excessive for normal for term placentas			
51. TERMINAL VILLI							
52. LANGHANS' LAYER <input type="checkbox"/> Absent <input type="checkbox"/> Present		53. HOPBAUER CELLS <input type="checkbox"/> Few <input type="checkbox"/> Many		54. STROMAL FIBROSIS <input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)		55. PATHOLOGICAL EDEMA <input type="checkbox"/> Not seen <input type="checkbox"/> Present (Describe)	
56. MICRO INFARCTS (as specified in manual) <input type="checkbox"/> Not seen <input type="checkbox"/> Present		57. NUCLEATED RBC IN FETAL CIRCULATION <input type="checkbox"/> Not seen <input type="checkbox"/> Present		58. MELANIN <input type="checkbox"/> Not seen <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Marked			

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(PATH-2) Page 1 of 2

## **PLACENTAL EXAMINATION-MICROSCOPIC (Continued)**

60. INTERVILLOUS SPACE			
61. INTERVILLOUS THROMBI		62. VF THROMBI PRESENT	
<input type="checkbox"/> Not seen	<input type="checkbox"/> Present, RBC intact	<input type="checkbox"/> Present, RBC hemolyzed	<input type="checkbox"/> No adjacent villous infarction seen 0
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> Adjacent villous infarction seen 1
63. MARGINAL SINUS THROMBI		64. SICKLING (maternal blood)	
<input type="checkbox"/> Not seen	<input type="checkbox"/> Present, RBC intact	<input type="checkbox"/> Present, RBC hemolyzed	<input type="checkbox"/> Not noted 0
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> Present 1
65. APPARENT MATURITY OF PLACENTA			
<input type="checkbox"/> Under 26 weeks	<input type="checkbox"/> 26-27 weeks	<input type="checkbox"/> 28-34 weeks	<input type="checkbox"/> 37 weeks or over
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
66. MICROSCOPIC EXAMINATION WAS DONE WITH KNOWLEDGE THAT:			
<input type="checkbox"/> Clinical course or outcome for mother or baby was normal	<input type="checkbox"/> Clinical course or outcome for mother or baby was abnormal	<input type="checkbox"/> With no knowledge of the case	
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	
67. PRESENCE OF OTHER ABNORMALITIES			
<input type="checkbox"/> No abnormalities other than those specified above		<input type="checkbox"/> Abnormalities other than those specified above	
<input type="checkbox"/> 0		<input type="checkbox"/> 1	
68. DESCRIPTION OF ABNORMALITIES CHECKED AND OTHER PERTINENT FINDINGS. IDENTIFY EACH COMMENT BY THE CORRESPONDING ITEM NUMBER.			
69. FINAL DIAGNOSIS			
70. DO NOT USE			

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Form Item Numbers linked to Data Items on PATH-2, Placental Exam - Micros.

ITEM ON FORM	DATA ITEM ID	CARD NUM	FROM	TO	DATA ITEM NAME
2	5373....VAR		537	537	Pathology: microscopic; membranes, macrophages in decidua (yes, no, unknown)
3	132.PATH-2	1202	15	16	Pathology: microscopic, examination by
3	134.PATH-2	1202	19	20	Pathology: microscopic, date (day)
3	133.PATH-2	1202	17	18	Pathology: microscopic, date (no)
3	135.PATH-2	1202	21	22	Pathology: microscopic, date (yr)
4	136.PATH-2	1202	23	23	Pathology: microscopic, designation of placenta, plurality
5	137.PATH-2	1202	24	24	Pathology: microscopic, amnion available for examination
9	138.PATH-2	1202	25	25	Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein
9	5380....VAR		544	544	Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein
9	5381....VAR		545	545	Pathology: microscopic; cord, neutrophilic infiltration, umbilical vein (yes, no, unknown)
9	139.PATH-2	1202	26	26	Pathology: microscopic; cord, neutrophilic infiltration, umbilical artery
10	40.PATH-2	1202	27	27	Pathology: microscopic; cord, neutrophilic infiltration, cord substance
11	1...PATH-2	1202	28	28	Pathology: microscopic; cord, thrombosis of vessels
12	5368....VAR		530	530	Pathology: cord, arteries, number
12	142.PATH-2	1202	29	29	Pathology: cord, number of umbilical arteries
15	143.PATH-2	1202	30	30	Pathology: microscopic; membranes, epithelium of amnion, necrosis
16	144.PATH-2	1702	31	31	Pathology: microscopic; membranes, epithelium of amnion, squamous metaplasia
17	145.PATH-2	1702	32	32	Pathology: microscopic; membranes, epithelium of amnion, senion nodosum
18	146.PATH-2	1202	33	33	Pathology: microscopic; membranes, epithelium of amnion, bacterial
20	147.PATH-2	1202	34	34	Pathology: microscopic; membranes, neutrophilic infiltration,
20	5374....VAR		539	539	Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll, amnion
20	5375....VAR		539	539	Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll, amnion (yes, no, unknown)
21	5376....VAR		542	542	Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll, chorion
21	148.PATH-2	1202	35	35	Pathology: microscopic; membranes, neutrophilic infiltration,
21	5379....VAR		543	543	Pathology: microscopic; membranes, neutrophilic infiltration, membrane roll, chorion (yes, no, unknown)
22	5376....VAR		540	540	Pathology: microscopic; membranes, neutrophilic infiltration, placental surface, amnion

Form Item Numbers linked to Data Items on PATH-2, Placental Exam - VICTUS.

ITEM NUM FROM	DATA ITEM IN	CARD NUM	FROM IN	DATA ITEM NAME
22	149.PATH-2 1202	36	36 Pathology: microscopic; membranes, neutrophilic infiltration, amniotic diplacent surface,	
22	5177....VAR	541	541 Pathology: microscopic; membranes, neutrophilic infiltration, amniotic (yes, no, unknown)	
23	150.PATH-2 1202	37	37 Pathology: microscopic; membranes, neutrophilic infiltration, amniotic surface, chorion	
24	151.PATH-2 1202	38	38 Pathology: microscopic; membranes, neutrophilic infiltration, fetal surface vessels	
25	152.PATH-2 1207	39	39 Pathology: microscopic; membranes, fetal surface vascular changes, other	
27	153.PATH-2 1202	40	41 Pathology: microscopic; membranes, macrophages in amniotic or chorion	
27	5370....VAR	532	533 Pathology: microscopic; membranes, macrophages in amniotic or chorion	
27	5371....VNR	534	534 Pathology: microscopic; membranes, macrophages in amniotic or chorion (yes, no, unknown)	
28	5372....VAR	535	536 Pathology: microscopic; membranes, macrophages in decidua	
28	154.PATH-2 1292	42	43 Pathology: microscopic; membranes, macrophages in decidua	
29	155.PATH-2 1292	44	44 Pathology: microscopic; membranes, class. of dividing membranes of twin placentas	
32	156.PATH-2 1202	45	45 Pathology: microscopic; decidua, thrombosis	
33	157.PATH-2 1202	46	46 Pathology: microscopic; decidua vessels, fibrinoid	
34	158.PATH-2 1202	47	47 Pathology: microscopic; decidua vessels, atherosclerotic	
36	159.PATH-2 1202	48	48 Pathology: microscopic; decidua necrosis, margin	
37	160.PATH-2 1202	49	49 Pathology: microscopic; decidua necrosis, capsularis	
38	161.PATH-2 1202	50	50 Pathology: microscopic; decidua necrosis, basalis	
40	162.PATH-2 1202	51	51 Pathology: microscopic; decidua, neutrophilic infiltration at margin	
41	163.PATH-2 1202	52	52 Pathology: microscopic; decidua, neutrophilic infiltration in capsularis	
42	164.PATH-2 1202	53	53 Pathology: microscopic; decidua, neutrophilic infiltration in basalis	
44	165.PATH-2 1202	54	54 Pathology: microscopic; decidua, lymphocytic infiltration at margin	
45	166.PATH-2 1202	55	55 Pathology: microscopic; decidua, lymphocytic infiltration in capsularis	
46	167.PATH-2 1202	56	56 Pathology: microscopic; decidua, lymphocytic infiltration in basalis	
48	168.PATH-2 1202	57	57 Pathology: microscopic; decidua, cytotrophoblast of columns, fibrin deposition	
49	169.PATH-2 1202	58	58 Pathology: microscopic; decidua, cytotrophoblast of columns, cystic change	
50	170.PATH-2 1202	59	59 Pathology: microscopic; decidua, syncytium, nuclear clumping	
52	171.PATH-2 1202	60	60 Pathology: microscopic; terminal villi, Langhans' layer	
53	172.PATH-2 1202	61	61 Pathology: microscopic; terminal villi, Hofbauer cells	
54	173.PATH-2 1202	62	62 Pathology: microscopic; terminal villi, stromal fibrosis	

Fora Item Numbers Linked to Data Items on PATH-2, Placental Exam - Micros.

ITEM ON FORM	DATA ITEM ID	CARD NUM	FROM	TO	DATA ITEM NAME
55	174.PATH-2 1202	63	63 Pathology: microscopie; terminal villi, pathological edema		
56	175.PATH-2 1202	64	64 Pathology: microscopie; terminal villi, micro infarcts		
57	176.PATH-2 1202	65	65 Pathology: microscopie; terminal villi, nucleated RBC in fetal circulation		
58	177.PATH-2 1202	66	66 Pathology: microscopie; terminal villi, melanin		
61-62	178.PATH-2 1202	67	68 Pathology: microscopie; intervillous space, thrombi and adjacent villous infarction		
63	179.PATH-2 1202	69	69 Pathology: microscopie; intervillous space, marginal sinus thrombi		
64	180.PATH-2 1202	70	70 Pathology: microscopie; intervillous space, sickling; maternal blood		
65	181.PATH-2 1202	71	71 Pathology: microscopie; intervillous space, apparent maturity of placenta		
66	182.PATH-2 1202	72	72 Pathology: microscopie; exam done with knowledge of case		
67	183.PATH-2 1202	73	73 Pathology: microscopie; other abnormalities present		

DEFINITION OF CODES  
 PLACENTAL EXAMINATION - MICROSCOPIC  
 FORM PATH-2 CARD 12022

<u>FIELD</u>	<u>CARD COLUMN</u>
1. <u>Card Number</u> Code: 1	1
2. <u>Form Number</u> Code: 202	2-4
3. <u>Revision Number</u> Code: 2 - Form dated: 1/59 (Revised coding 1965)	5
4. <u>NINDB Number</u> Item 1 Nine-digit number for Patient Identification Code: As given	6-14
5. <u>Microscopic Examination By</u> Item 2 Code: See "Examiners" - 12012 card, pages 12-13	15-16
6. <u>Date</u> Item 3 Six-digit code for: <u>Month</u> (cols. 17-18) <u>Day</u> (cols. 19-20) <u>Year</u> (cols. 21-22) Code: As given 99 - Month, Day and/or Year Unknown	17-22
7. <u>Designation of Placenta</u> Item 4 Code: 0 - Single birth 1 - First of Multiple 2 - Second of Multiple 3 - Third of Multiple 4 - Fourth of Multiple 9 - Unknown	23
8. <u>Ampion Available for Examination</u> Item 5 Code: 0 - No 1 - Yes - not further qualified 2 - Yes - roll only 3 - Yes - fetal or placental surface only 9 - Unknown	24

## DEFINITION OF CODES (continued)

FORM PATH-2  
Card 12022FIELDCARD  
COLUMN

## CORD

9. Neutrophilic Infiltration 25-27  
 Items 8, 9 and 10  
 Three-digit code for:  
Umbilical Vein (col. 25)  
Umbilical Artery (col. 26)  
Cord Substance (col. 27)  
 Code for each column:  
 0 - Not seen  
 1 - Slight  
 2 - Marked  
 3 - Combination of codes 1 and 2, moderate  
 9 - Unknown

10. Thrombosis of Vessels 28  
 Item 11  
 Code: 0 - Not seen  
 1 - Present  
 9 - Unknown

11. Number of Umbilical Arteries 29  
 Item 12  
 Code: 1 - One  
 2 - Two  
 9 - Unknown

## MEMBRANES

12. Epithelium of Amnion 30-33  
 Items 15, 16, 17 and 18  
 Four-digit code for:  
Necrosis (col. 30)  
 Code: 0 - Not seen  
 1 - Present - not qualified further  
 2 - Present - slight  
 3 - Present - marked  
 9 - Unknown  
Squamous Metaplasia (col. 31)  
Amnion Nodosum (col. 32)  
Bacterial Colonies (col. 33)  
 Code for each column:  
 Same as in Field 10

## DEFINITION OF CODES (continued)

FORM PATH-2  
Card 12022FIELDCARD  
COLUMN13. Neutrophilic Infiltration of:

Items 20, 21, 22, 23 and 24

34-38

Five-digit code for:

<u>Amnion of Membrane Roll</u>	(col. 34)
<u>Chorion of Membrane Roll</u>	(col. 35)
<u>Amnion of Placental Surface</u>	(col. 36)
<u>Chorion of Placental Surface</u>	(col. 37)
<u>Fetal Surface Vessels</u>	(col. 38)

Code for each column:

Same as in Field 9

14. Other Fetal Surface Vascular Changes

39

Item 25

- Code: 0 - None  
 1 - Thrombosis  
 2 - Necrosis  
 3 - Combination of codes 1 and 2  
 4 - Other than specified above  
 5 - Combination of codes 1 and 4  
 6 - Combination of codes 2 and 4  
 7 - Combination of codes 1, 2 and 4  
 9 - Unknown.

15. Macrophage

40-43

Items 27 and 28

Four-digit code for:

<u>In Amnion or Chorion</u>	(cols. 40-41)
<u>In Decidua</u>	(cols. 42-43)

Code for each two columns:

- 00 - Not seen  
 01 - Containing no pigment  
 02 - Containing meconium  
 03 - Combination of codes 01 and 02  
 04 - Containing hemosiderin  
 05 - Combination of codes 01 and 04  
 06 - Combination of codes 02 and 04  
 07 - Combination of codes 01, 02 and 04  
 08 - Containing unknown pigment  
 09 - Combination of codes 01 and 08  
 10 - Combination of codes 02 and 08  
 11 - Combination of codes 01, 02 and 08  
 12 - Combination of codes 04 and 08  
 13 - Combination of codes 01, 04 and 08  
 14 - Combination of codes 02, 04 and 08  
 15 - Combination of codes 01, 02, 04 and 08  
 99 - Unknown

**DEFINITION OF CODES (continued)**

FORM PATH-2  
Card 12022

**FIELD**

**CARD  
COLUMN**

16. Classification of Dividing Membranes of Twin Placentas

44

Item 29

- Code: 0 - Single birth  
 1 - Monoamniotic - monochorionic  
 2 - Diamniotic - dichorionic  
 3 - Diamniotic - monochorionic  
 8 - Other than twins  
 9 - Unknown

**DECIDUA**

17. Vessels

45-47

Items 32, 33 and 34

Three-digit code for:

- |                   |             |
|-------------------|-------------|
| <u>Thrombosis</u> | { col. 45 } |
| <u>Fibrinoid</u>  | { col. 46 } |
| <u>Atherosia</u>  | { col. 47 } |

Code for each column:

- 0 - Not seen  
 1 - Present  
 2 - Unable to determine  
 9 - Unknown

18. Necrosis

48-50

Items 36, 37 and 38

Three-digit code for:

- |                      |             |
|----------------------|-------------|
| <u>At Margin</u>     | { col. 48 } |
| <u>In Capsularis</u> | { col. 49 } |
| <u>In Basalis</u>    | { col. 50 } |

Code for each column:

- 0 - Not marked  
 1 - Marked  
 2 - Unable to determine  
 9 - Unknown

19. Neutrophilic Infiltration

51-53

Items 40, 41 and 42

Three-digit code for:

- |                      |             |
|----------------------|-------------|
| <u>At Margin</u>     | { col. 51 } |
| <u>In Capsularis</u> | { col. 52 } |
| <u>In Basalis</u>    | { col. 53 } |

Code for each column:

Same as in Field 9

## DEFINITION OF CODES (continued)

FORM PATH-2  
Card 12022FIELDCARD  
COLUMN20. Lymphocytic Infiltration 54-56

Items 44, 45 and 46

Three-digit code for:

<u>At Margin</u>	(col. 54)
<u>In Capsularis</u>	(col. 55)
<u>In Basalis</u>	(col. 56)

Code for each column:

Same as in Field 9

21. Cytotrophoblast of Columns 57-58

Items 48 and 49

Two-digit code for:

<u>Fibrin Deposition</u>	(col. 57)
--------------------------	-----------

Code: 0 - Not seen

- 1 - Average
- 2 - Excessive
- 3 - Combination of codes 1 and 2
- 4 - Less than average
- 8 - Unable to determine
- 9 - Unknown

<u>Cystic Change</u>	(col. 58)
----------------------	-----------

Code: 0 - Not seen

- 1 - Present
- 8 - Unable to determine
- 9 - Unknown

22. Syncytium - Nuclear Clumping 59

Item 50

Code: 1 - Normal  
2 - Less than normal for term placenta  
3 - Excessive for term placenta  
4 - Excessive in parts  
8 - Unable to determine  
9 - Unknown

## TERMINAL VILLI

23. Langhans' Layer 60

Item 52

Code: Same as in Field 10

24. Hofbauer Cells 61

Item 53

Code: 1 - Few  
2 - Many  
9 - Unknown

## DEFINITION OF CODES (continued)

FORM PATH-2  
Card 12022

<u>FIELD</u>	<u>CARD COLUMN</u>
25. <u>Stromal Fibrosis</u> Item 54	62
Code: 0 - Not seen 1 - Present - not qualified further 2 - Present - rare 3 - Present - many 8 - Unable to determine 9 - Unknown	
26. <u>Pathological Edema</u> Item 55	63
Code: Same as in Field 25	
27. <u>Micro Infarcts</u> Item 56	64
Code: Same as in Field 25	
28. <u>Hemolized RBC in Fetal Circulation</u> Item 57	65
Code: Same as in Field 25	
29. <u>Melanin</u> Item 58	66
Code: Same as in Field 9	
<b>INTERVILLOUS SPACE</b>	
30. <u>Intervillous Thrombi and Adjacent Villous Infarction</u> Items 61 and 62	67-68
Code: 00 - Not seen 10 - RBC intact and no adjacent villous seen 11 - RBC intact and adjacent villous seen 12 - Combination of codes 10 and 11 20 - RBC hemolyzed and no adjacent villous seen 21 - RBC hemolyzed and adjacent villous seen 22 - Combination of codes 20 and 21 30 - Combination of codes 10 and 20 31 - Combination of codes 11 and 21 32 - Combination of codes 12 and 22 99 - Unknown	
31. <u>Marginal Sinus Thrombi</u> Item 63	69
Code: 0 - Not seen 1 - RBC intact 2 - RBC hemolyzed 3 - Combination of codes 1 and 2 9 - Unknown	

## DEFINITION OF CODES (continued)

FORM PATH-2  
Card 12C22

<u>FIELD</u>	<u>CARD</u>	<u>COLUMN</u>
32. <u>Sickling: Maternal Blood</u> Item 64 Code: Same as in Field 21, col. 58	70	
33. <u>Apparent Maturity of Placenta</u> Item 65 Code: 1 - Under 20 weeks 2 - 20-27 weeks 3 - 28-36 weeks 4 - 37 weeks or over 8 - Unable to determine 9 - Unknown	71	
34. <u>Microscopic Examination Was Done With Knowledge That</u> Item 66 Code: 0 - No knowledge 1 - Normal outcome for mother or baby 2 - Abnormal outcome for mother or baby 9 - Unknown	72	
35. <u>Presence of Other Abnormalities</u> Item 67 Code: Same as in Field 10	73	

Placental Examination - Microscopic  
Form PATH-2

ITEM # OR FORM #	DATE	NUMBER #	Microscopic Examination Box:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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## PLACENTAL EXAMINATION-MICROSCOPIC

(For Form PATH-2, Dated 11-59)

**PURPOSE.** The purpose of this examination is to provide precise, detailed information about the microscopic appearance of the placenta and how it may relate to the outcome of the pregnancy for both mother and infant. Report the information on PATH-2, Placental Examination - Microscopic.

**ORDER OF EXAMINATION.** For the sake of convenience and thoroughness, the order of the examination is to conform as far as possible with the order of items as they appear on the form.

**EXAMINER'S LACK OF BIAS.** Insofar as possible, the examiner should have no knowledge of course or outcome of the pregnancy until this form has been completed.

**WHEN TO USE THIS FORM.** This form is to be used in every case in which the crown-rump length is 16.5 centimeters or more (gestational age 20 weeks or more), and in those cases in which the placenta is intact when the fetus is less than 16.5 centimeters crown-rump.

**EXAMINATION OF SECTIONS.** During the course of this examination, at least three sections — cord, membrane roll, and placenta — should be examined. The methods for the preparation of these sections are outlined in Pathology Manual, PHS-3222-1, Placental Examination — Gross.

**DESCRIPTION OF ABNORMALITIES.** All abnormalities are to be described in Item 68. This includes those abnormalities which are not specifically mentioned in the form. Wherever possible, the item number corresponding to the abnormality should be included with the description of the abnormality. If the space at the bottom of the sheet is not sufficient, additional pages may be added.

**MULTIPLE BIRTHS.** In cases of multiple births, a separate form is to be prepared for the placenta of each fetus.

### INSTRUCTIONS

**Item 1, Patient Identification.** As a minimum, enter the patient's name by addressograph or other method.

**Item 2, Microscopic Examination By.** Enter name and status of examiner.

**Item 3, Date.** Enter date of examination.

**Item 4, Designation of Placenta Described on this Form.** Check the appropriate box. In cases of multiple births with more than two members, check box "other multiple births" and enter in Item 68 the number of fetuses and the designation of the fetus whose placenta is described in this form.

**Item 5, Was Amnion Available for Examination.** Self-explanatory.

**Item 6, Cord.** If abnormalities are present other than those specified, describe them in Item 68. In particular, if any special sections have been taken during the course of the gross examination, describe these fully.

**Item 7, Neutrophilic Infiltration.** Self-explanatory.

**Item 8, Umbilical Vein.** Self-explanatory.

**Item 9, Umbilical Artery.** Self-explanatory.

**Item 10, Cord Substance.** Self-explanatory.

**Item 11, Thrombosis of Vessels.** If present, describe in Item 68 the age of the thrombus, the size of the vessel and the presence or absence of degenerative changes in the wall of the vessel.

**Item 12, Number of Umbilical Arteries.** Self-explanatory.

**Item 13, Membranes.** Self-explanatory.

**Item 14, Epithelium of Amnion.** Self-explanatory.

**Item 15, Necrosis.** If present, describe in Item 68 with regard to degree and extent.

**Item 16, Squamous Metaplasia.** Self-explanatory.

**Item 17, Amniotic Nodules.** Self-explanatory.

**Item 18, Bacterial Colonies.** If present, describe these morphologically, insofar as is possible, in Item 68.

**Item 19, Neutrophilic Infiltration of.** Self-explanatory.

**Item 20, Amnion of Membrane Roll.** Self-explanatory.

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## PLACENTAL EXAMINATION-MICROSCOPIC (Cont'd)

PATH-2  
11-59

- Item 21, Chorion of Membrane Roll. Self-explanatory.
- Item 22, Amnion of Placental Surface. Self-explanatory.
- Item 23, Chorion of Placental Surface. Self-explanatory.
- Item 24, Fetal Surface Vessels. Self-explanatory.
- Item 25, Other Fetal Surface Vascular Changes. Check the proper box. If changes are present, describe them in Item 68.
- Item 26, Macrophages. Self-explanatory.
- Item 27, In Amnion or Chorion. Self-explanatory.
- Item 28, In Decidua. Self-explanatory.
- Item 29, Twin Placentas Only - Classify Dividing Membranes. Fill out this item only in the case of twins. If this is a multiple birth, of more than two members, leave this blank and describe all the dividing membranes in Item 68. Indicate the relationship of the fetus described on this form to the other members of the birth insofar as the dividing membranes are concerned.
- Item 30, Decidua. If abnormalities are present other than those specified describe them in Item 68.
- Item 31, Vessels. These must be observed in intact, non-necrotic areas of decidua.
- Item 32, Thrombosis. If present, describe in Item 68 with regard to age, extent, and whether or not the lumen of the vessel is narrowed.
- Item 33, Fibrinoid. If present, describe in Item 68 with regard to extent and presence or absence of luminal narrowing.
- Item 34, Atherosclerosis. If present, describe in Item 68 with regard to extent and presence or absence of luminal narrowing.
- Item 35, Necrosis. Self-explanatory.
- Item 36, At Margin. This refers to necrosis at the margin of the placenta.
- Item 37, In Capsularis. This refers to necrosis in the decidua basalis.
- Item 38, In Basalis. This refers to necrosis in the decidua basalis.
- Item 39, Neutrophilic Infiltration. Self-explanatory.
- Item 40, At Margin. Self-explanatory.
- Item 41, In Capsularis. Self-explanatory.
- Item 42, In Basalis. Self-explanatory.
- Item 43, Lymphocytic Infiltration. Self-explanatory.
- Item 44, At Margin. Self-explanatory.
- Item 45, In Capsularis. Self-explanatory.
- Item 46, In Basalis. Self-explanatory.
- Item 47, Cytotrophoblast of Columns. Self-explanatory.
- Item 48, Fibrin Deposition. This refers to the fibrin or fibrinoid deposits which occur in cytotrophoblast cells as term is approached.
- Item 49, Cystic Change. These may form within the trophoblastic columns. If the change is present, check the proper box.
- Item 50, Syncytium-Nuclear Clumping. At term, approximately 30% of all terminal fetal villi have a syncytial bud attached to their surface. Using this as a normal, check the proper box with regard to syncytial nuclear clumping in the placenta under examination.
- Item 51, Terminal Villi. If abnormalities other than those specified are present, describe them in Item 68.
- Item 52, Langhans Layer. Self-explanatory.
- Item 53, Hofbauer Cells. Self-explanatory.
- Item 54, Stromal Fibrosis. If present, describe in Item 68 with regard to degree and distribution.
- Item 55, Pathological Edema. If present, describe in Item 68 with regard to extent and distribution and roughly estimate what proportion of villi appear to be involved.
- Item 56, Microinfarcts. Microinfarcts are small areas of incipient degeneration of placental tissue which form a distinct histologic lesion although they cannot be seen grossly. Most

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## PLACENTAL EXAMINATION-MICROSCOPIC (Con't)

PATH-2  
11-59

often terminal villi are closely packed in a microinfarct and often they appear to be agglutinated by inflammatory cells or degenerated epithelium. The blood vessels are apparently obliterated.

**Item 57, Necrotized RBC in Fetal Circulation.** Self-explanatory.

**Item 58, Melanin.** This pigment may be present within, and next to, calcium deposits, in fibrin masses, in the thickened granular basement membrane of villi, and rarely in Hofbauer cells. It is yellowish-brown in color.

**Item 59, Patient Identification.** As a minimum, enter the patient's name by addressograph or other method.

**Item 60, Intervillous Spaces.** If abnormalities other than those specified are present, describe them in Item 68.

**Item 61, Intervillous Thrombi.** If nucleated red blood cells are seen in the substance of such a thrombus, this should be noted in Item 68.

**Item 62, If Thrombi Present.** Self-explanatory.

**Item 63, Marginal Sinus Thrombi.** Self-explanatory.

**Item 64, Sickling (Maternal Blood).** Self-explanatory.

**Item 65, Apparent Maturity of Placenta.** Self-explanatory. If question arises as to the criteria to be used in this estimation, the examiner is referred to pages 14 and 15 of the revised form of *The Examination of the Placenta* by Dr. Kurt Beairschke.

**Item 66, Microscopic Examination Was Done with Klem Edge That.** Self-explanatory.

**Item 67, Presence of Other Abnormalities.** Check the appropriate box with respect to presence of abnormalities other than those specifically mentioned in the form.

**Item 68, Description of Abnormalities.** In this space, all those abnormalities previously noted and all those abnormalities not specifically mentioned in this form are to be described. Whenever possible, include the item number with the description of the abnormality.

**Item 69, Final Diagnosis.** Self-explanatory.

**Item 70, Do Not Use.** This box is to be used by central office of Collaborative Research for coding.

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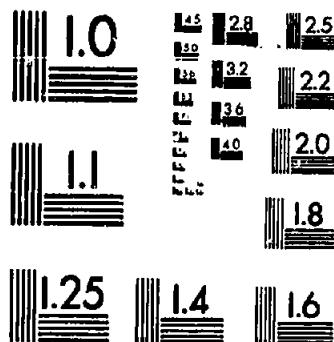
**II.C.52**

### PATH-3 Autopsy Protocol

Form PATH-3 was used to provide information obtained from autopsies of deceased infants or children. Implemented into the study in August 1961, the form was never revised. Data from PATH-3 were punched onto three cards of the master file (Table PATH-3.1).

**TABLE PATH-3.1 Cards and Data Records by Revision for Form PATH-3**

Card Name	Card Number	Rev. No.	Number Records
PATH-3: Diagnoses	1203	1	28,329
PATH-3: Weights of Organs	2203	1	3,083
PATH 3: Summary of Conditions	4203	1	2,172
total for form			33,584



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS  
STANDARD REFERENCE MATERIAL 1010a  
(ANSI and ISO TEST CHART No. 2)

**CONTINUED ON NEXT FICHE**