



**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 j: Speech, Language and Hearing
Exams, Three Years and Eight
Years (Final)**

December 1983

**Prepared for
the National Institute of Neurological
and Communicative Disorders and Stroke
under Contract 231105150**

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Pacific Northwest Laboratories

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

Volume 11: Project Study Forms and Documentation
of Transfer to Computerized Data Bases
in Master File

Part 1: Speech, Language and Hearing Trans.
Three Years and Eight Years (Final)

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September 1981

Prepared for
National Institute of Neurological
and Communicative Disorders and Stroke
under Contract 01-1106160

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INTRODUCTION

DOCUMENT OBJECTIVES AND READER ASSUMPTIONS

Volume II, Project Study Forms and Documentation of Transfer to Computerized Data Bases 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 in microfilm. The reader is assured 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:

1. Prenatal Record and Medical History
2. Labor and Delivery
3. Pathological Exams and Autopsies
4. Family and Socioeconomic History
5. Neonatal Exams and Observations
6. Pediatric and Neurological Exams, Four Months - one Year
7. Pediatric Neurological Exams, Seven Years
8. Psychological Exams, Eight Months
9. Psychological Exams, Four Years and Seven Years
10. Speech, Language and Hearing Exams, Three Years and Eight Years (Final)

This part of Volume II contains Part 10: Speech, Language and Hearing Exams, Three Years and Eight Years and includes forms PS-10 through PS-17 and PS-40 through PS-45.

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 as is indicated to trace them through all revision periods. Thus, in Part A of Volume II, 13-11 follows 13-10 and 13-12 appears next to 13-11 and 13-13. For an explanation of how the master file was organized to result in this ordering, see Appendix 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 in each form, except those on microfiche only, showing the number of records available for each revision.
- Data Item Reference 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 Map. Map of last revision of form.
- Data Item Reference Form in Data Items. A list organized by form item which lists all computerized data items originating from the form.
- Definition of Codes. Includes instructions regarding the codes assigned to each computerized data item from the form.
- Master File Card Map. Illustrates transfer of data from form to Master File card.
- Illustration for Inputting Form. The instructions used by user, designed to facilitate the inputting of data.
- Copies of Forms in Progress. Copies of earlier versions of forms or material that were used during the study.

MASTER FILE IDENTIFICATION OF FORMS

When a revision of a form or the master file was made, the change should be well indicated with a note to show the form or data item is different from the old. The numbering system used for forms and cards provides information on how data may be processed by the master file.

Forms

The first forms used in the study were the IR 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 substitution resulted across the master file, both of which appear in the IR series. In the first type of revision, modified copies in the concept of a form created a need for new coding in the master file. Form 11-9, for example, was replaced by forms 13-11 for national form retained by the institution, 11-11, and 11-11 in April 1961. Data for earlier patients were recorded on 13-9 and entered on cards 1309, 1319, 319 and 409 in the master file; after April 1961, data was recorded on 13-11 and 13-11 and were entered on cards 1311, 1319 and 1319 of the master file.

In the second type of revision, the Collaborative Perinatal Task Force considered revisions important enough to warrant the distribution 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 of the same card series. An example of this type of revision is form 13-35, replaced by 13-57 in April 1961. Records for both 13-35 and 13-57 are entered on cards 1337, 1337, 1357, 3357, 1357, and 3257 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 10; when revised, these forms were assigned numbers in the forties. Labor and hospital records appeared on the 31 series of forms. When these forms were revised, they were assigned numbers in the fifties. Some 31 data in the master file were abstracted by NICHD staff members from forms pulled out of the hospital. Cards derived from this procedure were designated as coming from forms 140-49, 51 and 52 (which were actually Abstract 1-147). Delivery protocol and laboratory exams of the placenta were recorded on forms 147-1, 147-1, and 147-1.

Forms for recording family medical history and genetic information during pregnancy also received a fair amount of revision. Early records appear on forms 11-1, 11-1 and 4. With revisions in April 1961, form 11-1 replaces part of 11-1 and 11-1; 11-1, 11-1 and parts of 11-1 and 11-1 were replaced by

forms CB-4 through CB-6 in May 1962. Form Fm-9, initiated in November 1965 for collection of sociometric data at time the child was seven years of age, was not replaced or revised.

The Fm series of forms underwent little revision. Records for newborn babies appeared on Fm-1 through Fm-6; records for children up to age one and interval records were placed on Fm-10 through Fm-19. Seven year records were included in the series numbered Fm-74 and up. Only one pediatrics form was radically revised: Fm-7 was replaced by Fm-8 in March 1963.

All replacements made in the Fm series, were results of psychological and speech, language and hearing tests were included. The Fm forms are divided into distinct groups based on time of testing and subject of testing. Psychological testing occurred at 2 months, 4 years and 7 years; speech, language and hearing exams were administered at ages 3 and 6. Only the 2 month psychological examination underwent substantial revisions.

Master File Card Number and NICHD Case Number Rationale

Computer cards for each NICHD 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, NICHD 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 NICHD 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 (first is, or other cards are present), for example CB-3, or for cards where repetitive data are contained. Cards for CB-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 CB-5, CB-37, PATH-1 and Fm-14 are exceptions to these rules.

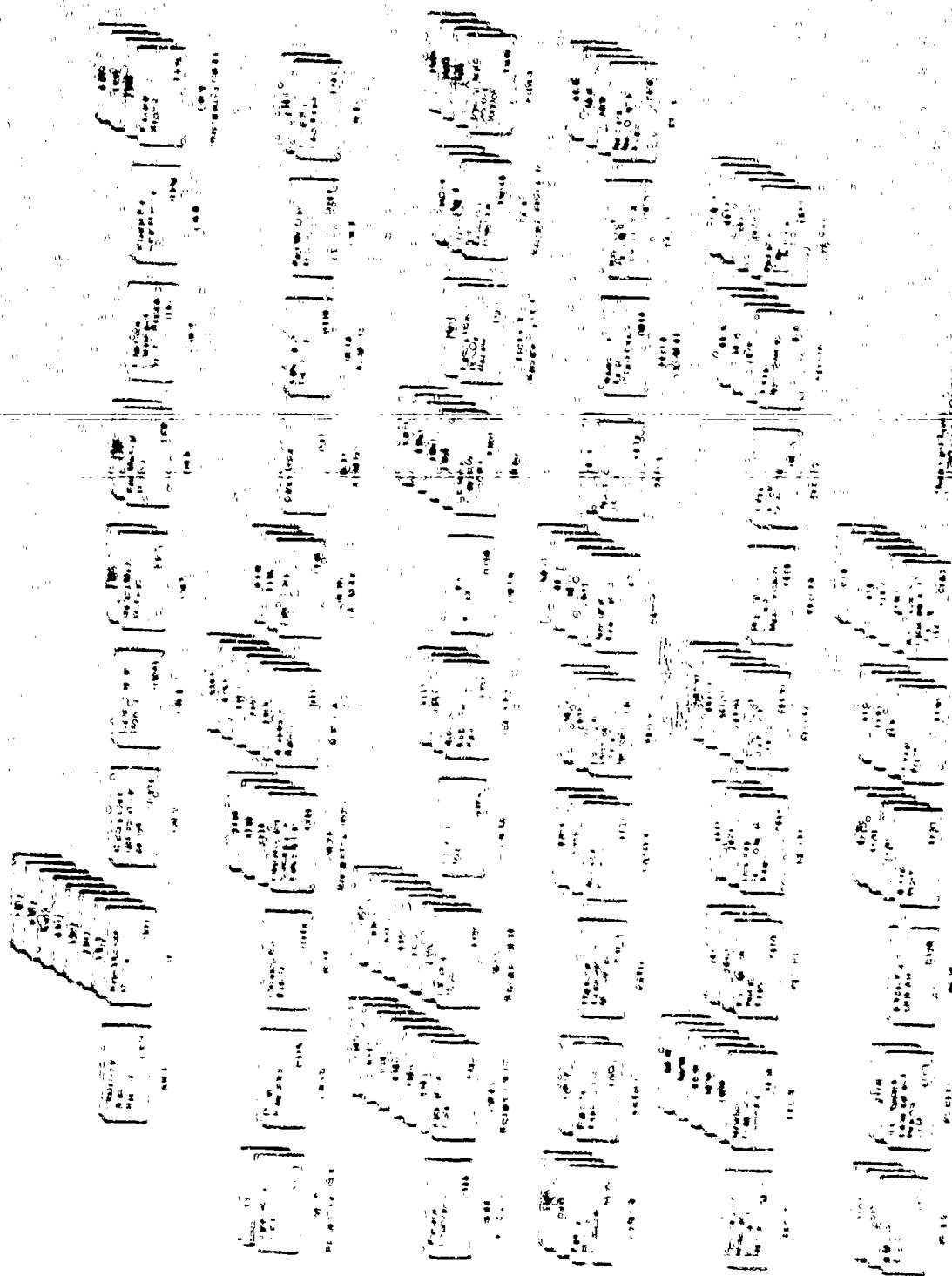


FIGURE 1. Cards on the Master Data File

TABLE 1. Derivation of Master File Card Number and NHIS 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
NHIS Case Number	
collaborating institution	6-7
type of patient selection	8
gravidity identification number	9-11
order of the pregnancy	12
identifies child or gravidity	13

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 "1"; pediatrics, with a "4"; and psychological testing with a "10".

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 NHIS staff (AM 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 (NHIS 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

sedation. 17% was used for patients selected for the control side study; 6% indicated that the patient had been transferred from the institution of origin, and 8% indicated that the patient was part of a special study conducted by the participating institution. The latter group of patients were used to identify the procedure, while the entire group identified the value of the procedure in improved growth in the project. The study might not also be identifying the procedure as applied in the hospital; 10% indicated the procedure was applied in a single center, 10% indicated the three levels of a multiple center, 10% indicated the second level of a multiple center, etc.

TABLE 1. Participating Institutions and Their Case Numbers
Indicated the number of all patients listed.

1 - <u>University of Washington</u>	2 - <u>University of Washington</u>
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
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Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center
Pediatric Medical Center	Pediatric Medical Center

researcher is more likely to find something under A1 than under A2 in an alphabetical list.

- Second, key words were prepared with a basic form of facsimile representation of the permuted index. For example, "abstract; abstract" will be listed under both the A1 and A2 portions of volume II.
- Finally, words are alphabetically listed and will not appear as "abstract; abstract". The abstract; abstract; abstract will not be used in any of the series.
- In special terminology, where the words were the study was completed, other terms to be included should be enclosed in brackets. Thus "psychology; psychology" will appear under both the A1 and A2 portions of volume II.
- If treatment words are identified with a data item rate, they are included in parentheses and placed at the end of the rate as in "psychology (rate)".

-
- The categories "person", "time", and "space" are included in the right-hand data item rates.
-

Definitions for each category, used in rating data items are given in Table 4 at the end of this introduction. Additional information is found in Chapter 6 of volume I.

Data item rates from assigned are terse and brief, simplified as we have already indicated. They are not the names used by NIM during the active phase of the project. Our aim was to develop standardized rates that would stand alone. These rates 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., 511.68-64, the data item should be traced to the appropriate study form, e.g., 68-64, located in volume II. A variable file data item, e.g., 5113....45, 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 I, for its description.

Some data items obtained in the indexes may include the notation "00 167 011." 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 I, II and III).

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	Clip. 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	Drug. & Cond.
	Four year	Med. history
	Seven year	Medications
	Eight year	Neurological Exam
		Observations
		Pathology
		Physical Exam
		Procedure
		Psych. Exam
		Reproductive Hist.
		Serology
		Sociodem. Info
		Speech
		Vision
		Work History
		X-ray
		Summary
		Gyn. history
		Special Studies
		Fam/Genetic Hist.
		SLT Exam

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

<u>PERSON</u>	<u>DEFINITION</u>
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.
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.
Siblings	Child or children having one or both of the same biologic parents as the study child; siblings; half siblings; (1/2 sib) etc.

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

TYPE	DEFINITION
General	Data with no pertinent time period or data pertaining to more than one time period.
Precconception	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.

CONTENTS

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PS-11	Language Expression	
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PS-40	Final Hearing Examination	
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PS-44	Final Speech Production	
PS-45	Additional Observations	

PS-10 Through PS-17

- PS-10 Language Reception
- PS-11 Language Expression
- PS-12 Auditory Memory for Digit and Nonsense Syllables
- PS-13 Hearing Test
- PS-14 Speech Mechanism
- PS-15 Speech Production
- PS-16 Additional Observations
- PS-17 Final Summary of Test Performance

Forms PS-10 through PS-17 were used in recording information about the development of the speech, language and hearing abilities of the child at three years of age. Implemented into the study in January 1963, these forms underwent revision once in April 1964. Revision affected the coding of item 25 on PS-15 only (dysfluent events and struggle behavior). Data from the PS-10 - PS-15 series were recorded on two cards in the master file (Table PS-10.1).

TABLE PS-10.1 Cards and Data Records by Revision
for Forms PS-10 through PS-17

CARD NAME	CARD NUMBER	REV. NO.	NUMBER RECORDS
PS-10: Auditory Memory, Verbal Expression, Spontaneous Word Test and Speech Mechanism	1110		
		0	4,321
		1	21,187
			25,508
PS-10: Articulation, Intelligibility, Unusual Behavior	2110		
		0	4,336
		1	21,175
			25,511
total for form			51,019

Data Item Referencing Form PS-10, Language Reception

DATA ITEM ID	ITEM ID	CAHN NUM	FORM TH	DATA TYPE NAME
2027..PS-10	9	1110	33	13 Comprehension, verbal, familiar object
2028..PS-10	9	1110	34	14 Comprehension, verbal, action obj
2029..PS-10	9	1110	35	15 Comprehension, verbal, SDSC
2030..PS-10	14	1110	36	16 Comprehension, non-verbal, picture
2031..PS-10	14	1110	37	17 Comprehension, non-verbal, obj. object
2032..PS-10	14	1110	38	18 Comprehension, non-verbal, nonverbal
2033..PS-10	14	1110	39	19 Comprehension, non-verbal, matching

Data Items Referencing PS-11, Language Expression

DATA ITEM ID	ITEM ID	CRAN NUM	FROM TO	DATA ITEM NAME
2034..PS-11	9	1110	40	40 Expression, verbal, naming objects
2035..PS-11	9	1110	41	41 Expression, verbal, sentence length
2036..PS-11	9	1110	42	42 Expression, verbal, sentence structure
2037..PS-11	9	1110	43	43 Expression, verbal, relevance
2038..PS-11	9	1110	44	44 Expression, verbal, sort order
2039..PS-11	9	1110	45	45 Expression, verbal, use of pronouns
2040..PS-11	9	1110	46	46 Expression, verbal, summary scope
2041..PS-11	14	1110	47	47 Non-verbal; expression, picture
2042..PS-11	14	1110	48	48 Non-verbal; expression, objects

DATA ITEMS REFERENCED IN PS-12, AUDITORY MEMORY OF U.S. IN FOREIGN COUNTRIES

DATA ITEM ID	ITEM ID	DATA ITEM	DATA ITEM	DATA ITEM	DATA ITEM
2443..PS-12	4	40	40	40	40
2444..PS-12	4	40	40	40	40
2445..PS-12	10	40	40	40	40
2446..PS-12	10	40	40	40	40

DATA ITEMS REINTERPRETED FOR P5-13, HEARING TEST

DATA ITEM ID	ITEM IN P304	CARD NUM	FROM P10	DATA ITEM NAME
2943...PS-13	0	1110	53	53 SNOONALIC WORD LAST VIBRAL, AFTER SETTING 1
2944...PS-13	0	1110	54	54 SNOONALIC WORD LAST VIBRAL, AFTER SETTING 2
2949...PS-13	0	1110	55	55 SNOONALIC WORD LAST VIBRAL, AFTER SETTING 3
2950...PS-13	0	1110	56	56 SNOONALIC WORD LAST VIBRAL, AFTER SETTING 4
2951...PS-13	0	1110	57	57 SNOONALIC WORD LAST NON-VIBRAL, AFTER SETTING 5
2952...PS-13	0	1110	58	58 SNOONALIC WORD LAST NON-VIBRAL, AFTER SETTING 6
2953...PS-13	0	1110	59	59 SNOONALIC WORD LAST NON-VIBRAL, AFTER SETTING 7
2954...PS-13	0	1110	60	60 SNOONALIC WORD LAST NON-VIBRAL, AFTER SETTING 8
2955...PS-13	0	1110	61	61 SNOONALIC WORD LAST SUMMARY SCORE
2956...PS-13	11	1110	62	62 HEARING: PURE TONE BETWEEN SUMMARY SCORE RIGHT EAR
2957...PS-13	11	1110	63	63 HEARING: PURE TONE BETWEEN SUMMARY SCORE LEFT EAR
5923...VAD	0	1110	1110	1110 SNOONALIC WORD LAST SUMMARY SCORE
5924...VAD	11	1111	1111	1111 HEARING: PURE TONE BETWEEN SUMMARY SCORE, RIGHT EAR
5925...VAD	11	1112	1112	1112 HEARING: PURE TONE BETWEEN SUMMARY SCORE, LEFT EAR

DATA ITEMS Relating to PS-14, Speech Mechanism

DATA ITEM TO	ITEM IN PJW	CARD ROW	FROM	TO	DATA ITEM NAME
2058..PS-14	0	110	64	64	Speech mechanism, LOS, reposition
2059..PS-14	0	110	65	65	Speech mechanism, LOS, reposition
2060..PS-14	0	110	66	66	Speech mechanism, tongue, biting
2061..PS-14	0	110	67	67	Speech mechanism, tongue, biting
2062..PS-14	0	110	68	68	Speech mechanism, tongue, biting
2063..PS-14	0	110	69	69	Speech mechanism, tongue, biting
2064..PS-14	0	110	70	70	Speech mechanism, tongue, biting
2065..PS-14	0	110	71	71	Speech mechanism, tongue, biting

Data Items Measuring Foreigner's Speech Production

DATA ITEM ID	TYPE IN FORM	FORM NUM	FORM ID	DATA ITEM NAME
2986...PS-15	9	2110	33	13 voice, pitch
2987...PS-14	9	2110	34	14 voice, loudness
2988...PS-14	9	2110	35	15 voice, quality
2989...PS-14	9	2110	36	16 voice, summary score
2990...PS-15	14	2110	37	17 Articulation, initial consonants
2991...PS-14	14	2110	38	18 Articulation, final consonants
2992...PS-14	14	2110	39	19 Articulation, vowels and diphthongs
2993...PS-14	14	2110	40	20 Articulation, summary score
2994...PS-14	10	2110	41	21 Intelligibility of speech, difficulty in understanding, degree
2995...PS-14	10	2110	42	22 Intelligibility of speech, rhythm, summary evaluation
2996...PS-14	10	2110	43	23 Intelligibility of speech, rate, summary evaluation
2997...PS-14	10	2110	44	24 Intelligibility of speech, loudness, summary evaluation
2998...PS-14	10	2110	45	25 Intelligibility of speech, pitch, summary evaluation
2999...PS-14	10	2110	46	26 Intelligibility of speech, quality, summary evaluation
3000...PS-14	10	2110	47	27 Intelligibility of speech, articulation, summary evaluation
3001...PS-14	10	2110	48	28 Intelligibility of speech, other, summary evaluation
3002...PS-14	10	2110	49	29 Intelligibility of speech, summary score
3003...PS-14	10	2110	50	30 Fluency, fluency
3004...PS-14	24	2110	51	31 Fluency, fluency
3005...PS-14	24	2110	52	32 Fluency, fluency
3006...PS-14	24	2110	53	33 Fluency, fluency
5430...VAD	15	1121	1121	Articulation summary score

DATA LINES RELATING TO PS-10, ADDITIONAL OBSERVATIONS

DATA ITEM ID	ITEM NO FROM	CARD NUM	FROM PAGE	DATA ITEM NAME
1007..PS-16	10	2110	34	54 Anomalies, physical, head, observed by examiner
1008..PS-16	10	2110	55	55 Anomalies, physical, face, observed by examiner
1009..PS-16	10	2110	56	56 Anomalies, physical, ears, observed by examiner
1010..PS-16	10	2110	57	57 Anomalies, physical, eyes, observed by examiner
1011..PS-16	10	2110	58	58 Anomalies, physical, mouth, observed by examiner
1012..PS-16	10	2110	59	59 Anomalies, physical, hands/fingers, observed by examiner
1013..PS-16	10	2110	60	60 Anomalies, physical, torso, observed by examiner
1014..PS-16	15	2110	61	61 behavior unusual; observation, 1st type
1015..PS-16	15	2110	62	62 behavior unusual; observation, 2nd type
1016..PS-16	15	2110	63	63 behavior unusual; observation, 3rd type
1017..PS-16	15	2110	64	64 behavior unusual; observation, 4th type
1018..PS-16	15	2110	65	65 behavior unusual; observation, total number
1019.....		2110	70	66 blank

Data Items Referencing Form PS-17, Final Summary of Test Performance

DATA ITEM TO	ITEM JV FJOM	CARD NUM	FROM TO	DATA ITEM NAME
2908.....		1110	1	5 Card number (sequence, data type, form number, revision number)
2909.....		1110	6	14 Ntoun case number
2910..PS-17	4	1110	15	15 Age
2911..PS-17	5	1110	16	16 Sex
2912..PS-17	6	1110	17	17 Age
2913..PS-17	7	1110	18	18 Examination
2914..PS-17	9	1110	20	20 Language reception, summary, final
2915..PS-17	10	1110	21	21 Language expression, summary, final
2916..PS-17	11	1110	22	22 Hearing, summary, final
2917..PS-17	12	1110	23	23 Speech mechanism, summary, final
2918..PS-17	13	1110	24	24 Speech production, summary, final
2919..PS-17	14	1110	25	25 Global scoring, summary, final
2920..PS-17	15	1110	26	26 Auditory memory, final, summary, final
2921..PS-17	15	1110	27	27 Auditory memory, final, summary, final
2922..PS-17	15	1110	28	28 Auditory memory, final, summary, final
2923..PS-17	15	1110	29	29 Auditory memory, final, summary, final
2924..PS-17	16	1110	30	30 Adequacy of exam
2925..PS-17	17	1110	31	31 Referral for further SUM examination
2926..PS-17		1110	32	32 Language used
2927.....		1110	37	37 Blank
2928.....		2110	1	5 Card number (sequence, data type, form number, revision number)
2929.....		2110	6	14 Ntoun case number
2930..PS-17	4	2110	15	15 Age
2931..PS-17	5	2110	16	16 Sex
2932..PS-17	6	2110	17	17 Age
2933..PS-17	9	2110	18	18 Examination
2934..PS-17	10	2110	20	20 Language reception, summary, final
2935..PS-17	11	2110	21	21 Language expression, summary, final
2936..PS-17	12	2110	22	22 Hearing, summary, final
2937..PS-17	13	2110	23	23 Speech mechanism, summary, final
2938..PS-17	14	2110	24	24 Speech production, summary, final
2939..PS-17	15	2110	25	25 Global scoring, summary, final
2940..PS-17	15	2110	26	26 Auditory memory, final, summary, final
2941..PS-17	15	2110	27	27 Auditory memory, final, summary, final
2942..PS-17	15	2110	28	28 Auditory memory, final, summary, final
2943..PS-17	15	2110	29	29 Auditory memory, final, summary, final
2944..PS-17	16	2110	30	30 Adequacy of exam
2945..PS-17	17	2110	31	31 Referral
2946.....		2110	32	32 Language used
2947.....		1110	1100	1100 Referral for further SUM examination
2948.....		1110	1111	1111 Age
2949.....		1110	1112	1112 Age
2950.....		1110	1113	1113 Age
2951.....		1110	1114	1114 Language reception, summary, final

CO. 315-1
REV. 4-65

1. PATIENT IDENTIFICATION

**SPEECH, LANGUAGE AND HEARING EXAMINATION
LANGUAGE RECEPTION**

2. NAME OF CHILD

3. DATE OF BIRTH & AGE & SEX

MO. DAY YEAR

SEX

MALE

FEMALE

AGE

7. EXAMINED BY

8. DATE OF EXAM

MO. DAY YEAR

9. VERBAL COMPREHENSION

10. COMMENTS

1. IDENTIFICATION OF FAMILIAR OBJECTS

Objects	Pass	Fail
CAR	☐	☐
DOG	☐	☐
FLY	☐	☐
MAN	☐	☐

SUMMARY ITEM SCORE PASS = 3 CORRECT RESPONSES

Pass	Fail
☐	☐

2. UNDERSTANDING ACTION WORDS

Action Words	Pass	Fail
WALK	☐	☐
MAN JUMP	☐	☐
PUSH CAR	☐	☐
SHAPE DOG	☐	☐
WAVE FLAG	☐	☐

SUMMARY ITEM SCORE PASS = 5 CORRECT RESPONSES

Pass	Fail
☐	☐

3. UNDERSTANDING SPACE RELATIONSHIPS

Objects and Relationships	Pass	Fail
CAT IN DOG	☐	☐
CAT ON TABLE	☐	☐
CAT UNDER TABLE	☐	☐
PUSH TOUCH BACKWARDS	☐	☐
CUP UPSIDE DOWN	☐	☐

SUMMARY ITEM SCORE PASS = 5 CORRECT RESPONSES

Pass	Fail
☐	☐

DO NOT ADMINISTER REMAINING ITEMS
IF CHILD PASSED AT LEAST 2 OF THE 3
VERBAL COMPREHENSION ITEMS

0000

204-117-12
REV. 4-64

11. PATIENT IDENTIFICATION

**SPEECH, LANGUAGE AND HEARING EXAMINATION
LANGUAGE RECEPTION**

12. EXAMINED BY

13. DATE OF EXAM
MO. DAY YEAR

14. ALTERNATE COMPREHENSION

1. WORD AND PICTURE IDENTIFICATION

Picture	Pass	Fail
CUP	☐	☐
DOG	☐	☐
TEST TUBES	☐	☐
SPOON	☐	☐
CLIP	☐	☐
SHOE	☐	☐

SUMMARY ITEM SCORE (PASS = 6 CORRECT RESPONSES)

Pass Fail
= =

DO NOT ADMINISTER REMAINING ITEMS
IF CHILD PASSES ITEM 1

=
000

2. WORD AND OBJECT IDENTIFICATION

Object	Pass	Fail
CUP	☐	☐
DOG	☐	☐
SHOE	☐	☐
SPOON	☐	☐
CLIP	☐	☐
TEST TUBES	☐	☐

SUMMARY ITEM SCORE (PASS = 6 CORRECT RESPONSES)

Pass Fail
= =

DO NOT ADMINISTER REMAINING ITEMS
IF CHILD PASSES ITEM 2

=
00

**SPEECH, LANGUAGE AND HEARING EXAMINATION
LANGUAGE RECEPTION**

18. PATIENT IDENTIFICATION

17. EXAMINED BY

19. DATE OF EXAM

MO. DAY YEAR

14. ALTERNATE COMPREHENSION (continued)

16. COMMENTS

3. Pantomime and OBJECT IDENTIFICATION

Objects and Pantomime

Pass

Fail

CUP

☐

☐

TEST-BEFORE

☐

☐

SPOON

☐

☐

SUMMARY ITEM SCORE (PASS = 5 CORRECT RESPONSES)

Pass

Fail

==

0

DO NOT ADMINISTER ITEMS
IF CHILD PASSES ITEMS 3

==

4. MATCHING OBJECT TO PICTURE

Objects and Pictures

Pass

Fail

BOX

☐

☐

CUP

☐

☐

POSS

☐

☐

SPON

☐

☐

DOG

☐

☐

TEST-BEFORE

☐

☐

SUMMARY ITEM SCORE (PASS = 5 CORRECT RESPONSES)

Pass

Fail

==

0

**SPEECH, LANGUAGE AND HEARING EXAMINATION
LANGUAGE EXPRESSION**

2. NAME OF CHILD

3. DATE OF BIRTH 4. AGE 5. SEX
MO. DAY YEAR MONTHS YEARS M F

7. EXAMINED BY 8. DATE OF EXAM.
MO. DAY YEAR

9. VERBAL EXPRESSION

1. NAMING OBJECTS

Object	Pass	Fail
CHAIR	☐	☐
NECKTIE	☐	☐
DOG	☐	☐
KEY	☐	☐
BUTTON	☐	☐

SUMMARY ITEM SCORE (PASS = 4 CORRECT RESPONSES)

Pass	Fail
☐	☐

2. USE OF PHRASES OR SENTENCES

CHECKLIST FOR USE OF PHRASES OR SENTENCES
SEE MANUAL FOR DEFINITION OF TERMS "PHRASE OR
PHRASE LENGTH," "SENTENCE STRUCTURE," ETC., AS
WELL AS SCORING DEVIATIONS.

	Pass	Fail
SENTENCE OR PHRASE LENGTH	☐	☐
SENTENCE STRUCTURE	☐	☐
RELEVANCE	☐	☐
WORD ORDER	☐	☐
USE OF PRONOUNS	☐	☐

SUMMARY ITEM SCORE (SEE MANUAL FOR SCORING)

Pass	Fail
☐	☐

DO NOT ADMINISTER REMAINING ITEMS
IF CHILD PASSES AT LEAST 1 OF THE 2
VERBAL EXPRESSION ITEMS

☐

10. COMMENTS

**SPEECH, LANGUAGE AND HEARING EXAMINATION
LANGUAGE EXPRESSION**

12. EXAMINED BY _____

13. DATE OF EXAM
MO - DAY - YEAR

14. ALTERNATE EXPRESSION (ALTERNATE TEST ITEMS)

1 IDENTIFICATION OF PICTURES THROUGH PANTOMIME

Picture	PASS		Fail
	VERBAL	NON-VERBAL	
FOOT-BEACH	---	---	---
CUP	---	---	---
SHOE	---	---	---
SUMMARY ITEM SCORE (PASS / 3 CORRECT RESPONSES)			

PASS		Fail
VERBAL	NON-VERBAL	
---	---	---
---	---	---
DO NOT ADMINISTER ITEM 2 IF CHILD PASSES ITEM 1		

2 IDENTIFICATION OF OBJECTS THROUGH PANTOMIME

Object	PASS		Fail
	VERBAL	NON-VERBAL	
FOOT-BEACH	---	---	---
CUP	---	---	---
SHOE	---	---	---
SUMMARY ITEM SCORE (PASS / 3 CORRECT RESPONSES)			

PASS		Fail
VERBAL	NON-VERBAL	
---	---	---
---	---	---

15. COMMENTS

CDL-311-2
REV. 4-54

**SPEECH, LANGUAGE AND HEARING EXAMINATION
AUDITORY MEMORY FOR
DIGITS AND NONSENSE SYLLABLES**

PATIENT IDENTIFICATION

NAME OF CHILD

DATE OF BIRTH: _____ AGE: _____ SEX: _____
 MONTH: _____ DAY: _____ YEAR: _____
 MALE _____ FEMALE _____
 EXAMINED BY: _____ DATE OF EXAM: _____
 NO. _____

9. RECALL OF DIGITS

1. TWO-DIGIT SERIES

Two-Digit Series	Verbal Response	Pass	Fail
4.2	_____	___	___
9.3	_____	___	___
8.1	_____	___	___
1.4	_____	___	___

SUMMARY: ITEMS CORRECT: _____ PASS: _____ CORRECT RESPONSE: _____

Pass _____ Fail _____

2. THREE-DIGIT SERIES

Three-Digit Series	Verbal Response	Pass	Fail
1.4.2	_____	___	___
9.3.1	_____	___	___
1.1.4	_____	___	___
1.4	_____	___	___

SUMMARY: ITEMS CORRECT: _____ PASS: _____ CORRECT RESPONSE: _____

Pass _____ Fail _____

11. COMMENTS

10. RECALL OF NONSENSE SYLLABLES

1. TWO-SYLLABLE SERIES

Two-Syllable Series	Verbal Response	Pass	Fail
KOD. GAW	_____	___	___
DEE. GDD	_____	___	___
WOP. GAW	_____	___	___
KAW. GDD	_____	___	___

SUMMARY: ITEMS CORRECT: _____ PASS: _____ CORRECT RESPONSE: _____

Pass _____ Fail _____

2. THREE-SYLLABLE SERIES

Three-Syllable Series	Verbal Response	Pass	Fail
KAW. GDD. DEE	_____	___	___
WOP. GAW. GDD	_____	___	___
KAW. GDD. GDD	_____	___	___
DEE. GAW. KAW	_____	___	___

SUMMARY: ITEMS CORRECT: _____ PASS: _____ CORRECT RESPONSE: _____

Pass _____ Fail _____

DEVELOPMENTAL RESEARCH
360 NATIONAL RESEARCH BRANCH, NINDS, NIH
BETHESDA, MD

REV. 4-54

PS-12

3518-3-5-73
REV. 4-64

PATIENT IDENTIFICATION

SPEECH, LANGUAGE AND HEARING EXAMINATION HEARING TEST

1. NAME OF CHILD

2. DATE OF BIRTH - AGE 7 SEX
MO DAY YEAR
3. RACE
WHITE BLACK OTHER
4. EXAMINED BY
5. DATE OF EXAM
MO DAY YEAR

9. SPONTANEOUS WORD TEST (VERBAL)

(METER SETTING MUST BE 25. AMBIENT NOISE LEVEL) 30.

PASS FAIL

COBBLE

PASS FAIL

BASEBALL

PASS FAIL

WOLF DOG

PASS FAIL

SUMMARY SCORE: PASS ALL 3 WORDS REPEATED CORRECTLY.

PASS FAIL

2. METER SETTING MUST BE 20.

PASS FAIL

COBBLE

PASS FAIL

FLASHLIGHT

PASS FAIL

SOLIFISH

PASS FAIL

LIPSTICK

PASS FAIL

FOOTBALL

PASS FAIL

BIGERAL

PASS FAIL

WOLF DOG

PASS FAIL

BASEBALL

PASS FAIL

COBBLE

PASS FAIL

WOLF DOG

PASS FAIL

SUMMARY SCORE: PASS ANY 3 CONSECUTIVE WORDS REPEATED CORRECTLY OR 7 OF 10 WORDS REPEATED CORRECTLY.

PASS FAIL

COOPERATIVE RESEARCH
PSYCHOLOGICAL RESEARCH BRANCH - WASH. D.C.
RECEIVED 17 MAR 1964

REV. 4-64

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**SPEECH, LANGUAGE AND HEARING EXAMINATION
HEARING TEST**

7. EXAMINED BY

10. DATE OF EXAM
MO. DAY YEAR

9. SPONGAC AND TEST VERBAL CONTINUED)

13. COMMENTS

9. METER SETTING TO LIST III

	Pass	Fail
WILSON	---	---
SEESAW	---	---
ICE CREAM	---	---
LIPSTICK	---	---
BARBECUE	---	---
TOOTHPASTE	---	---
CUTTING	---	---
SAILBOAT	---	---
AIRPLANE	---	---
SHOTGUN	---	---
SUMMARY SCORE PASS - ANY 5 CONSECUTIVE WORDS REPEATED CORRECTLY OR 10 OF 10 WORDS REPEATED CORRECTLY.		
	Pass	Fail
	---	---

10. METER SETTING TO LIST IV

	Pass	Fail
POPCORN	---	---
ICEBOX	---	---
PACKAGE	---	---
POPCORN	---	---
SHOTGUN	---	---
ICE CREAM	---	---
TOOTHPASTE	---	---
SHOTGUN	---	---
BARBECUE	---	---
SHOTGUN	---	---
SUMMARY SCORE PASS - ANY 5 CONSECUTIVE WORDS REPEATED CORRECTLY OR 10 OF 10 WORDS REPEATED CORRECTLY.		
	Pass	Fail
	---	---

**SPEECH, LANGUAGE AND HEARING EXAMINATION
HEARING TEST**

17. EXAMINED BY

18. DATE OF EXAM
MO. DAY YEAR

19. SPONGE WORD TEST (NONVERBAL)

19. AMBIENT NOISE LEVEL

20. COMMENTS

3. METER SETTING IN LIST V

	Pass	Fail
CORROD	==	==
BASBALL	==	==
WET DOG	==	==
SUMMARY SCORE: PASS: ALL 3 PICTURES IDENTIFIED CORRECTLY	==	==

6. METER SETTING IN LIST VI

	Pass	Fail
BATHUB	==	==
ICE CREAM	==	==
ICEBAW	==	==
REDWOOD	==	==
HAMBURGER	==	==
ICE CREAM	==	==
REDWOOD	==	==
HAMBURGER	==	==
ICEBAW	==	==
BATHUB	==	==
SUMMARY SCORE: PASS: ALL 9 CONSECUTIVE PICTURES IDENTIFIED CORRECTLY OR 7 OF 10 PICTURES IDENTIFIED CORRECTLY	==	==

**SPEECH, LANGUAGE AND HEARING EXAMINATION
HEARING TEST**

22. EXAMINED BY _____ 23. DATE OF EXAM
MO. DAY YEAR

9. SPONGAC WORD TEST (NONVERBAL CONTINUED)

25. COMMENTS

7. METER SETTING 60-125 HZ

	Pass	Fail
MAILMAN	☐	☐
BLUEBIRD	☐	☐
TOOTHBRUSH	☐	☐
RAILROAD	☐	☐
APPLE	☐	☐
RAILROAD	☐	☐
APPLE	☐	☐
MAILMAN	☐	☐
TOOTHBRUSH	☐	☐
BLUEBIRD	☐	☐
SUMMARY SCORE PASS AND 9 CONSECUTIVE PICTURES SENT FIED CORRECTLY ON 1 OF 13 PICTURES SENT FIED CORRECTLY		
	Pass	Fail
	☐	☐

8. METER SETTING 60-125 HZ

	Pass	Fail
POPcorn	☐	☐
SOLDIER	☐	☐
NECKTIE	☐	☐
FLASHLIGHT	☐	☐
TELEPHONE	☐	☐
TELEPHONE	☐	☐
SOLDIER	☐	☐
POPcorn	☐	☐
FLASHLIGHT	☐	☐
NECKTIE	☐	☐
SUMMARY SCORE PASS AND 9 CONSECUTIVE PICTURES SENT FIED CORRECTLY ON 1 OF 13 PICTURES SENT FIED CORRECTLY		
	Pass	Fail
	☐	☐

26. SUMMARY TOTAL SCORE FOR SPONGAC WORD TEST SUBAREA

Pass	Fail
☐	☐

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20. PATIENT IDENTIFICATION

**SPEECH, LANGUAGE AND HEARING EXAMINATION
HEARING TEST**

27. EXAMINED BY

28. DATE OF EXAM
MO DAY YEAR

29. PURE TONE SCREENING TEST

32. COMMENTS

1. TRIAL ONE

30. AMBIENT NOISE LEVEL _____ dB

Sequence of Tones (at 20 db)

1000 CYCLES

RIGHT

Pass

Fail

1250 CYCLES

RIGHT

Pass

Fail

1500 CYCLES

RIGHT

Pass

Fail

1800 CYCLES

LEFT

Pass

Fail

2000 CYCLES

LEFT

Pass

Fail

31. SUMMARY TOTAL SCORE FOR PURE TONE SCREENING TEST
SUBAREA

RIGHT EAR

Pass

Fail

LEFT EAR

Pass

Fail

COLLABORATIVE RESEARCH
FOR NATAL RESEARCH TRAINING
BETHESDA, MD

REV. 4-66

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1 OF 1

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100-4-10-10
RE: 440

SPEECH, LANGUAGE AND HEARING EXAMINATION SPEECH MECHANISM

1. PATIENT IDENTIFICATION

2. NAME OF CHILD

3. DATE OF BIRTH AGE SEX

4. RACE

5. TEST YEAR MONTH DAY WEEK

6. EXAMINED BY

7. DATE OF EXAM

9. EXAMINATION OF THE SPEECH MECHANISM

10. COMMENTS

1. EXAMINATION OF THE LIPS

A. RETRACTION

- ☐ PASS
- ☐ PASS WITH SUGGEST
- ☐ PASS WITH TREMOR
- ☐ MOVES TO LEFT
- ☐ MOVES TO RIGHT
- ☐ DOES NOT SUCCEED IN RETRACTION
- ☐ OTHER OBSERVED

B. PROTRUSION

- ☐ PASS
- ☐ PASS WITH SUGGEST
- ☐ PASS WITH TREMOR
- ☐ MOVES TO LEFT
- ☐ MOVES TO RIGHT
- ☐ DOES NOT SUCCEED IN PROTRUSION
- ☐ OTHER OBSERVED

2. EXAMINATION OF THE TONGUE

A. MEDIAN PROTRUSION

- ☐ PASS
- ☐ PASS WITH HEAD MOVEMENT
- ☐ PASS WITH TREMOR
- ☐ MOVES TO LEFT
- ☐ MOVES TO RIGHT
- ☐ DOES NOT SUCCEED IN MEDIAN PROTRUSION
- ☐ OTHER OBSERVED

B. LATERAL PROTRUSION

- ☐ PASS
- ☐ PASS WITH SUGGEST
- ☐ PASS WITH TREMOR
- ☐ HEAD MOVES TO SAME SIDE
- ☐ MANDIBLE MOVES WITH TONGUE
- ☐ DOES NOT SUCCEED IN LATERAL PROTRUSION
- ☐ OTHER OBSERVED

100-4-10-10
RE: 440
100-4-10-10

440-440

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**SPEECH, LANGUAGE AND HEARING EXAMINATION
SPEECH MECHANISM**

1. EXAMINED BY _____ 2. DATE OF EXAM
MO. DAY YEAR

3. EXAMINATION OF THE SPEECH MECHANISM (continued)

4. COMMENTS

2. EXAMINATION OF THE TONGUE (continued)

C. ELEVATION

- ☐ 1 PASS
- ☐ 2 PASS WITH HEAD MOVEMENT
- ☐ 3 PASS WITH TREMOR
- ☐ 4 DOES NOT SUCCEED IN ELEVATION
- ☐ 5 OTHER (Describe):

3. EXAMINATION OF THE SOFT PALATE

A. ELEVATION

- ☐ 1 PASS
- ☐ 2 LIMITED MOTILITY
- ☐ 3 ASYMMETRICAL ELEVATION
- ☐ 4 CLEFT, REPAIRED OR UNREPAIRED
- ☐ 5 OTHER (Describe):

4. DIADYCHOMAS

A. LIPS

- ☐ 1 PASS
- ☐ 2 UNSUSTAINED
- ☐ 3 OTHER

B. TONGUE

- ☐ 1 PASS
- ☐ 2 UNSUSTAINED
- ☐ 3 OTHER (Describe):

**SPEECH, LANGUAGE AND HEARING EXAMINATION
SPEECH PRODUCTION**

2. NAME OF CHILD

3. DATE OF BIRTH 4. AGE 5. SEX 6. RACE

MO. DAY YEAR MONTH YEAR MALE FEMALE OTHER OTHER

7. EXAMINED BY 8. DATE OF EXAM

MO. DAY YEAR MO. DAY YEAR

9. VOICE

- ☐ 1. SOFT
- ☐ 2. ADEQUATE
- ☐ 3. UNUSUAL FLUCTUATIONS
- ☐ 4. TOO HIGH
- ☐ 5. TOO LOW
- ☐ 6. MONOTONE
- ☐ 7. OTHER Describe.

10. COMMENTS

11. LOUDNESS

- ☐ 1. SOFT
- ☐ 2. ADEQUATE
- ☐ 3. TOO LOUD
- ☐ 4. UNUSUAL FLUCTUATIONS
- ☐ 5. OTHER Describe.

12. QUALITY

- ☐ 1. ADEQUATE
- ☐ 2. HYPERNASAL
- ☐ 3. HYPONASAL
- ☐ 4. NASALNESS
- ☐ 5. OTHER Describe.

13. SUMMARY SCORE

NORMAL	SUSPECT	ABNORMAL
☐	☐	☐

**SPEECH, LANGUAGE AND HEARING EXAMINATION
SPEECH PRODUCTION**

PATIENT IDENTIFICATION

EXAMINED BY

DATE OF EXAM
MO. DAY YEAR

26. ARTICULATION

CODE -

- 1 CORRECT ARTICULATION
- 2 INCORRECT ARTICULATION
- 3 OMISSION
- 4 NO RESPONSE

Test Word	Initial	Final	Consonants	Vowels & Diphthongs	Test Word	Initial	Final	Consonants	Vowels & Diphthongs
1. MOUTH	M				18. MOUTH	M			au
2. MORE	M			ou	19. SET	S			e
3. PEACH	P				20. JAR	J			
4. FISH	F			i	21. WHITE	W			i
5. CAR	K			r	22. COVER	K			u
6. GO	G			o	23. LUMP	L			
7. DO	D				24. RUN	R			
8. GIVE	G			v	25. HIDE	H			
9. FEEL	F				26. WARE	W			u
10. THUMB	T			h	27. TWO	T			
11. ECK	E			a	28. FIVE	F			i
12. END	N				29. MORE	M			
13. LE	L			e	30. BOY	B			
14. TWO	T			u	31. HOUSE	H			
15. RED	R			d	32. EIGHT	E			
16. LEE	L			g	33. CASE	K			a
					34. CO	C			u

25. SUMMARY EVALUATION

	Normal	Suspect	Abnormal
INITIAL CONSONANTS	1	1	1
FINAL CONSONANTS	1	1	1
VOWELS AND DIPHTHONGS	1	1	1
SUMMARY SCORE ALL TESTED SOUNDS	1	1	1

INSTRUCTIONS FOR SCORING CATEGORIES

- INITIAL CONSONANTS: NORMAL = 12 OR ABOVE; SUSPECT = 11 OR 10; ABNORMAL = 9 OR LESS
- FINAL CONSONANTS: NORMAL = 11 OR ABOVE; SUSPECT = 10; ABNORMAL = 9 OR LESS
- VOWELS AND DIPHTHONGS: NORMAL = 12 OR ABOVE; SUSPECT = 11; ABNORMAL = 10 OR LESS
- ALL TESTED SOUNDS: NORMAL = ALL 3 CATEGORIES NORMAL OR 2 NORMAL AND 1 SUSPECT CATEGORY;
SUSPECT = SUSPECT OR ABNORMAL ON ANY 1 CATEGORY AND SUSPECT ON AT LEAST 1 OF THE
REMAINING CATEGORIES; OR NORMAL ON ANY TWO CATEGORIES AND ABNORMAL ON
THE REMAINING CATEGORY;
ABNORMAL = ABNORMAL ON 2 OR MORE CATEGORIES

SPEECH, LANGUAGE AND HEARING EXAMINATION SPEECH PRODUCTION

EXAMINED BY

DATE OF EXAM
MO. DAY YEAR

19. INTELLIGIBILITY OF SPEECH

HOW WELL CAN YOU UNDERSTAND THIS CHILD? Check only one of the following.

Description

☐ NO DIFFICULTY IN UNDERSTANDING WHAT HE SAYS REGARDLESS OF ANY DEVIATIONS WHICH MAY BE PRESENT IN ARTICULATION, VOICE QUALITY, PITCH, RHYTHM, ETC.

☐ SOME DIFFICULTY IN UNDERSTANDING WHAT THE CHILD SAYS.

☐ CONSIDERABLE DIFFICULTY IN UNDERSTANDING WHAT THE CHILD SAYS.

☐ THE CHILD HAS FORMALIZED BUT IS INTELLECTUALLY

☐ NO SPEECH

☐ OTHER

INSERT CHECKS IN THE FOLLOWING LIST ONLY IF SCALE VALUES 2, 3, 4 OR 5 ARE MARKED.

RYTHM	☐	QUALITY	☐
PACE	☐	VOICE	☐
LOUDNESS	☐	ARTICULATION	☐
PITCH	☐	OTHER	☐

SUMMARY SCORE

Normal

Language

Adaptation

1

1

2

20. COMMENTS

**SPEECH, LANGUAGE AND HEARING EXAMINATION
SPEECH PRODUCTION**

21. PATIENT IDENTIFICATION

22. EXAMINED BY

23. DATE OF EXAM
MO. DAY YEAR
/ /

24. FLUENCY OF SPEECH PRODUCTION

25. COMMENTS

1. OVERFLUENT ELEMENTS

None	SOME OBSERVED	MANY OBSERVED
<u>0</u>	<u>1</u>	<u>2</u>

2. STRUGGLE BEHAVIOR

None	SOME OBSERVED	MANY OBSERVED
<u>0</u>	<u>1</u>	<u>2</u>

SUMMARY SCORE	NORMAL	SUSPECT	ABNORMAL
	<u>1</u>	<u>1</u>	<u>2</u>

**SPEECH, LANGUAGE AND HEARING EXAMINATION
ADDITIONAL OBSERVATIONS**

1. PATIENT IDENTIFICATION

2. NAME OF CHILD

3. DATE OF BIRTH AGE SEX RACE
MO. DAY YEAR MALE FEMALE OTHER
1 2 3 4 5 6 7 8 9 10 11 12

7. EXAMINED BY

8. DATE OF EXAM
MO. DAY YEAR

9. STATE OF HEALTH ON DAY OF EXAMINATION. MAKE NOTE OF ANY CONDITION WHICH MAY AFFECT THE CHILD'S TEST PERFORMANCE, E.G., HEARING AID, GLASSES OR OTHER PROSTHESES, RESPIRATORY CONDITION, RUNNING EARS, ETC.

11. COMMENTS

10. OBSERVABLE PHYSICAL ANOMALIES

1 HEAD - NONE
EXTREMELY SMALL
EXTREMELY LARGE
PECULIAR SHAPE
OTHER (Describe)
2 FACE - NONE
ASYMMETRY
WASH-LINE
GRIMACES
TICS
OTHER (Describe)
3 EARS - NONE
ATRESIA
OTHER (Describe)
4 EYES - NONE
STRABISMUS
NISTAGMUS
OTHER (Describe)
5 MOUTH - NONE
CLEFT LIP
DROOLING
MOUTH BREATHING
OTHER (Describe)

**SPEECH, LANGUAGE AND HEARING EXAMINATION
ADDITIONAL OBSERVATIONS**

11. EXAMINED BY _____ 12. DATE OF EXAM _____
MO. DAY YEAR

13. OBSERVABLE PHYSICAL ANOMALIES (continued)

- 6. HANDS AND ARMS - NONE
- IMPAIRED FUNCTION (Describe):
- OTHER (Describe):
- 7. LEGS
- NONE
- IMPAIRED FUNCTION (Describe):
- OTHER (Describe):

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14. COMMENTS (Please describe in detail any behavior category that is observed.)

15. UNUSUAL BEHAVIOR OBSERVED DURING TEST PERIOD

- NONE
- PURPOSELESS HAND MOTIONS
- UNUSUAL POSTURING
- EXCESSIVE CRYING
- EXCESSIVE LAUGHING
- HYPERACTIVITY
- HYPACTIVITY
- STIMULUS
- PERSEVERATION
- ECHOLALIA
- SPONTANEOUS COMMUNICATION, LIMITED OR LACKING
- OTHER (Describe):

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**SPEECH, LANGUAGE AND HEARING EXAMINATION
FINAL SUMMARY OF TEST PERFORMANCE**

1. NAME OF CHILD

2. DATE OF BIRTH - MO. DAY YEAR

3. SEX
☐ MALE ☐ FEMALE

4. EXAMINED BY

5. DATE OF EXAM
 MO. DAY YEAR

6. LANGUAGE RECEPTION

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

7. COMMENTS

8. LANGUAGE EXPRESSION

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

9. HEARING

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

10. SPEECH MECHANISM

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

11. SPEECH PRODUCTION

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

12. GLOBAL SCORING*

☐ NORMAL ☐ SUSPECT ☐ ABNORMAL

13. AUDITORY MEMORY

2-CHIT	Pass	Fail	2-WORD NON-VERBALLY	Pass	Fail
	☐	☐		☐	☐
2-DIGIT	☐	☐	2-WORD NON-VERBALLY	☐	☐

14. ADEQUACY OF EXAMINATION

☐ ADEQUATE ☐ INADEQUATE (Describe)

15. REFERRAL

☐ NO REFERRAL INDICATED
☐ REFERRED FOR FURTHER PROFESSIONAL EXAMINATION

***INSTRUCTIONS FOR GLOBAL SCORING**

- NORMAL : 3 MAJOR AREAS SCORED AS NORMAL.
 4 MAJOR AREAS SCORED AS NORMAL AND REMAINING MAJOR AREAS SCORED AS SUSPECT.
- SUSPECT : ANY COMBINATION OF NORMAL AND SUSPECT SCORES IN THE 3 MAJOR AREAS OR 1 OR 2 ABNORMAL SCORES IN THE 4 MAJOR AREAS AND ANY COMBINATION OF SUSPECT AND NORMAL IN THE REMAINING 4 MAJOR AREAS.
- ABNORMAL : ABNORMAL SCORES IN 3 OR MORE OF THE 8 MAJOR AREAS.

Form Item numbers linked to Data Items on PS-10, including recenting

ITEM ON FORM	DATA ITEM ID	CAND NUM	FROM ID	DATA ITEM NAME
9	2024..PS-10	1110	14	Comprehension, verbal, action word
9	2027..PS-10	1110	14	Comprehension, verbal, familiar object
9	2029..PS-10	1110	15	Comprehension, verbal, space
14	2033..PS-10	1110	19	Comprehension, non-verbal, matching
14	2037..PS-10	1110	18	Comprehension, non-verbal, pantomime
14	2030..PS-10	1110	16	Comprehension, non-verbal, picture
14	2031..PS-10	1110	17	Comprehension, non-verbal, word, object

Form Item Numbers Linked to Data Items on PS-11, Language Expression

ITEM NO	DATA ITEM ID	CARD NUM	FORM NO	DATA ITEM NAME
0	2034..PS-11	1110	40	expression, verbal, naming objects
0	2037..PS-11	1110	41	expression, verbal, relevance
0	2035..PS-11	1110	41	expression, verbal, sentence length
0	2036..PS-11	1110	42	expression, verbal, sentence structure
0	2040..PS-11	1110	46	expression, verbal, summary score
0	2030..PS-11	1110	45	expression, verbal, use of pronouns
14	2038..PS-11	1110	44	expression, verbal, word order
14	2042..PS-11	1110	48	non-verbal; expression, objects
14	2041..PS-11	1110	47	non-verbal; expression, picture

Form Item Numbers linked to Data Items on PS-12, Auditory Memory of Digit and Nonsense Syllables

ITEM NO	DATA ITEM	CARD NUM	FORM	DATA ITEM NAME
9	2043..PS-12	1110	40	40 Auditory memory, recall of digits, 2 digit
9	2044..PS-12	1110	40	50 Auditory memory, recall of digits, 3 digit
10	2045..PS-12	1110	51	51 Auditory memory, recall nonsense syllables, 2 syllable
10	2046..PS-12	1110	52	52 Auditory memory, recall nonsense syllables, 3 syllable

FORA ITEM NUMBERS LINKED TO DATA ITEMS ON PS-13, HEARING TEST

ITEM ON FORM	DATA ITEM ID	CARD NUM	FROM	TO	DATA ITEM NAME
0	2055..PS-13	1110	01	61	Soundaic word test: summary score
0	2051..PS-13	1110	57	57	Soundaic word test: non-verbal, water setting 5
0	2052..PS-13	1110	58	58	Soundaic word test: non-verbal, water setting 6
0	2053..PS-13	1110	59	59	Soundaic word test: non-verbal, water setting 7
0	2054..PS-13	1110	60	60	Soundaic word test: non-verbal, water setting 8
0	2047..PS-13	1110	53	53	Soundaic word test: verbal, water setting 1
0	2048..PS-13	1110	54	54	Soundaic word test: verbal, water setting 2
0	2049..PS-13	1110	55	55	Soundaic word test: verbal, water setting 3
0	2050..PS-13	1110	56	56	Soundaic word test: verbal, water setting 4
0	2023....VAR		1110	1110	Soundaic word test: summary score
31	2057..PS-13	1110	01	61	Hearing: pure tone screen summary score left ear
31	2056..PS-13	1110	02	62	Hearing: pure tone screen summary score right ear
31	2025....VAR		1112	1112	Hearing: pure tone screen summary score, left ear
31	2024....VAR		1111	1111	Hearing: pure tone screen summary score, right ear

FROM THE NUMBERS LISTED IN THIS PAGE ON PAGE 10, CIRCLES, CHECKS AND

ITEM NO	DATA ITEM ID	UNIT	PRIM	TR	DATA ITEM NAME
9	2064..05-14	1110	70	70	speech mechanism, flatness of vocal tract, tongue
9	2065..05-14	1110	71	71	speech mechanism, flatness of vocal tract, tongue
9	2066..05-14	1110	65	65	speech mechanism, flatness of vocal tract, tongue
9	2067..05-14	1110	66	66	speech mechanism, flatness of vocal tract, tongue
9	2068..05-14	1110	67	67	speech mechanism, flatness of vocal tract, tongue
9	2069..05-14	1110	68	68	speech mechanism, flatness of vocal tract, tongue
9	2070..05-14	1110	69	69	speech mechanism, flatness of vocal tract, tongue
9	2071..05-14	1110	70	70	speech mechanism, flatness of vocal tract, tongue
9	2072..05-14	1110	71	71	speech mechanism, flatness of vocal tract, tongue
9	2073..05-14	1110	72	72	speech mechanism, flatness of vocal tract, tongue
9	2074..05-14	1110	73	73	speech mechanism, flatness of vocal tract, tongue
9	2075..05-14	1110	74	74	speech mechanism, flatness of vocal tract, tongue
9	2076..05-14	1110	75	75	speech mechanism, flatness of vocal tract, tongue
9	2077..05-14	1110	76	76	speech mechanism, flatness of vocal tract, tongue
9	2078..05-14	1110	77	77	speech mechanism, flatness of vocal tract, tongue
9	2079..05-14	1110	78	78	speech mechanism, flatness of vocal tract, tongue
9	2080..05-14	1110	79	79	speech mechanism, flatness of vocal tract, tongue
9	2081..05-14	1110	80	80	speech mechanism, flatness of vocal tract, tongue
9	2082..05-14	1110	81	81	speech mechanism, flatness of vocal tract, tongue
9	2083..05-14	1110	82	82	speech mechanism, flatness of vocal tract, tongue
9	2084..05-14	1110	83	83	speech mechanism, flatness of vocal tract, tongue
9	2085..05-14	1110	84	84	speech mechanism, flatness of vocal tract, tongue
9	2086..05-14	1110	85	85	speech mechanism, flatness of vocal tract, tongue
9	2087..05-14	1110	86	86	speech mechanism, flatness of vocal tract, tongue
9	2088..05-14	1110	87	87	speech mechanism, flatness of vocal tract, tongue
9	2089..05-14	1110	88	88	speech mechanism, flatness of vocal tract, tongue
9	2090..05-14	1110	89	89	speech mechanism, flatness of vocal tract, tongue
9	2091..05-14	1110	90	90	speech mechanism, flatness of vocal tract, tongue
9	2092..05-14	1110	91	91	speech mechanism, flatness of vocal tract, tongue
9	2093..05-14	1110	92	92	speech mechanism, flatness of vocal tract, tongue
9	2094..05-14	1110	93	93	speech mechanism, flatness of vocal tract, tongue
9	2095..05-14	1110	94	94	speech mechanism, flatness of vocal tract, tongue
9	2096..05-14	1110	95	95	speech mechanism, flatness of vocal tract, tongue
9	2097..05-14	1110	96	96	speech mechanism, flatness of vocal tract, tongue
9	2098..05-14	1110	97	97	speech mechanism, flatness of vocal tract, tongue
9	2099..05-14	1110	98	98	speech mechanism, flatness of vocal tract, tongue
9	2100..05-14	1110	99	99	speech mechanism, flatness of vocal tract, tongue

Form Item Numbers linked to Data Items on PS-15, Speech Production

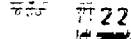
ITEM NM FORM	DATA ITEM IN	CARD NUM	FORM IN	DATA ITEM NAME
0	2047..PS-15 2110	14	14	voice, loudness
0	2046..PS-15 2110	31	31	voice, pitch
0	2048..PS-15 2110	35	35	voice, quality
0	2049..PS-15 2110	36	36	voice, summary score
14	2041..PS-15 2110	38	38	articulation, final consonants
14	2040..PS-15 2110	37	37	articulation, initial consonants
14	2042..PS-15 2110	39	39	articulation, vowels and diphthongs
15	5434....VAR	1121	1121	articulation, summary score
15	2043..PS-15 2110	40	40	articulation, summary score
19	3001..PS-15 2110	48	48	intelligibility of speech, articulation, summary evaluation
19	2044..PS-15 2110	41	41	intelligibility of speech, difficulty in understanding, degrees
19	2047..PS-15 2110	44	44	intelligibility of speech, loudness, summary evaluation
19	3002..PS-15 2110	49	49	intelligibility of speech, other, summary evaluation
19	2048..PS-15 2110	45	45	intelligibility of speech, pitch, summary evaluation
19	2049..PS-15 2110	46	46	intelligibility of speech, quality, summary evaluation
19	2046..PS-15 2110	41	41	intelligibility of speech, rate, summary evaluation
19	2045..PS-15 2110	42	42	intelligibility of speech, rhythm, summary evaluation
19	3003..PS-15 2110	47	47	intelligibility of speech, stress, summary evaluation
19	3004..PS-15 2110	50	50	intelligibility of speech, summary score
24	3005..PS-15 2110	51	51	fluency, fluent
24	3006..PS-15 2110	51	51	fluency, fluent
24	3005..PS-15 2110	52	52	fluency, fluent

Copy Item Numbers Linked to Data Items on PS-10, Additional Observations

ITEM NO FROM	DATA ITEM IN	CARD NO	FROM TO	DATA ITEM NAME
10	1009..PS-16	2110	56	56 Anomalies, physical, ears, observed by examiner
10	1010..PS-16	2110	57	57 Anomalies, physical, eyes, observed by examiner
10	1011..PS-16	2110	58	58 Anomalies, physical, face, observed by examiner
10	1012..PS-16	2110	59	59 Anomalies, physical, hands/arms, observed by examiner
10	1013..PS-16	2110	60	60 Anomalies, physical, head, observed by examiner
10	1014..PS-16	2110	61	61 Anomalies, physical, legs, observed by examiner
10	1015..PS-16	2110	62	62 Anomalies, physical, mouth, observed by examiner
10	1016..PS-16	2110	63	63 behavior unusual; observation, 1st type
10	1017..PS-16	2110	64	64 behavior unusual; observation, 2nd type
10	1018..PS-16	2110	65	65 behavior unusual; observation, 3rd type
10	1019..PS-16	2110	66	66 behavior unusual; observation, 4th type
10	1020..PS-16	2110	67	67 behavior unusual; observation, total number

Form Item Numbers Linked to Data Items on PS-17, Final Summary of Test Performance

ITEM NUM	DATA ITEM	CAND NUM	FROM	TO	DATA ITEM NAME
4	2085...PS-15	2110	32	12	LANGUAGE USED
4	2086...PS-17	2110	32	12	LANGUAGE USED
4	2010...PS-17	2110	14	15	AGE
4	2060...PS-17	2110	15	15	AGE
4	2026...VAR		1113	1113	AGE
5	2011...PS-17	2110	16	16	SEX
5	2010...PS-17	2110	16	16	SEX
6	2012...PS-17	2110	17	17	MACT
6	2011...PS-17	2110	17	17	MACT
7	2013...PS-17	2110	18	19	EXAMINER
7	2013...PS-17	2110	18	19	EXAMINER
9	2014...PS-17	2110	20	20	LANGUAGE RECEPTION, SUMMARY, FINAL
9	2027...VAR		1114	1114	LANGUAGE RECEPTION, SUMMARY, FINAL
10	2028...VAR		1115	1115	LANGUAGE RECEPTION, SUMMARY, FINAL
10	2015...PS-17	2110	21	21	LANGUAGE EXPRESSION, SUMMARY, FINAL
11	2020...VAR		1116	1116	HEATING, SUMMARY, FINAL
11	2016...PS-17	2110	22	22	HEATING, SUMMARY, FINAL
12	2076...PS-17	2110	23	23	SPEECH MECHANISM, SUMMARY, FINAL
12	2017...PS-17	2110	23	23	SPEECH MECHANISM, SUMMARY, FINAL
12	2030...VAR		1117	1117	SPEECH MECHANISM, SUMMARY, FINAL
13	2011...VAR		1118	1118	SPEECH PRODUCTION, SUMMARY, FINAL
13	2019...PS-17	2110	24	24	SPEECH PRODUCTION, SUMMARY, FINAL
13	2017...PS-17	2110	24	24	SPEECH PRODUCTION, SUMMARY, FINAL
14	2078...PS-17	2110	25	25	GLOBAL PRODUCTION, SUMMARY, FINAL
14	2019...PS-17	2110	25	25	GLOBAL PRODUCTION, SUMMARY, FINAL
14	2032...VAR		1119	1119	GLOBAL SCORING, SUMMARY, FINAL
15	2079...PS-17	2110	26	26	AUDITORY MEMORY, 2 ALBIT, SUMMARY, FINAL
15	2020...PS-17	2110	26	26	AUDITORY MEMORY, 2 ALBIT, SUMMARY, FINAL
15	2081...PS-17	2110	28	28	AUDITORY MEMORY, 2 SYLLABLES, SUMMARY, FINAL
15	2022...PS-17	2110	28	28	AUDITORY MEMORY, 2 SYLLABLES, SUMMARY, FINAL
15	2021...PS-17	2110	27	27	AUDITORY MEMORY, 3 ALBIT, SUMMARY, FINAL
15	2080...PS-17	2110	27	27	AUDITORY MEMORY, 3 ALBIT, SUMMARY, FINAL
15	2082...PS-17	2110	29	29	AUDITORY MEMORY, 3 SYLLABLE, SUMMARY, FINAL
15	2023...PS-17	2110	29	29	AUDITORY MEMORY, 3 SYLLABLE, SUMMARY, FINAL
16	2081...PS-17	2110	30	30	ADEQUACY OF EXAM
16	2026...PS-17	2110	30	30	ADEQUACY OF EXAM
16	2033...VAR		1120	1120	ADEQUACY OF EXAM
17	2084...PS-17	2110	31	31	Referral
17	2025...PS-17	2110	31	31	Referral
17	2022...VAR		1109	1109	Referral for further SLW examination



1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

CONTINUED ON NEXT FICHE