

6.1: Neurologic Evaluation - Overview

<u>Form #</u>	<u>Name of Form</u>	<u>Collected</u>	<u>Patient Population</u>	<u>SAS Dataset</u>
13	Neurologic Evaluation	03/01/79- 05/31/86	Entry age \geq 6 mos; exam done at entry if entry age \geq 3 years; exam done at 1 st annual visit for patients with no history of neuro events.	R13.SD2
		03/01/79- 05/31/86	Exam age \geq 3 yrs; concurrent with neuro event; follow-up exams for patients with history of neuro event	R23.SD2
		03/01/79- 09/30/88	Entry age < 6 mos; baseline exam at age 3 yrs; no history of neuro event	R23.SD2
		03/01/79- 09/30/88	Entry age < 6 mos; exam age \geq 3 yrs; exam concurrent with neuro event; follow-up exams for patients with history of neuro event.	R23.SD2

6.1: Neurologic Evaluation – Form 13

- A. List of variables deleted **F13INIT F13NDATE F13LASTU F13LASTE
F13ESTAT F13VDATE F13DATE F13FCB F13NEB**
- B. List of variables modified **NONE**
- C. List of variables modified with a name change **NONE**
- D. Old name
- E. New name
- F. List of variables modified date to days since DOE
- G. Old name **F13DATE**
- H. New name **JF13DATE**
- I. List of variables deleted **F23INIT F23NDATE F23LASTU F23LASTE
F23ESTAT F23VDATE F23DATE F23FCB F23NEB F23TDATE**
- J. List of variables modified **NONE**
- K. List of variables modified with a name change **NONE**
- L. Old name
- M. New name
- N. List of variables modified date to days since DOE
- O. Old name **F23DATE F23TDATE**
- P. New name **JF23DATE JF23TDATE**

CONTENTS OF SAS DATASET: R18.SD2

A. Collection Information:

Form 13 (Neurologic Evaluation) was to be filled out

1. at the time of study entry for patients entered at ≥ 3 years of age
2. at the time of the first annual visit for all patients (for patients entered at < 3 years of age, the scheduled date for the first annual visit would coincide with the patient being 3 years of age)
3. at the time of a neurologic event (seizures, meningitis, CVA) if the patient was ≥ 3 years of age at the time of the event (within 48 hours of admission and at discharge)
4. at the time of all routine follow-up visits of patients with a history of stroke, meningitis, seizures, or other neurologic abnormality if patient was ≥ 3 years of age at the time of the visit.

In general, the neurologic exam form was completed by the hematology staff member who did the routine physical exam. However, patients found to have

6.1: Neurologic Evaluation – Form 13

significant abnormalities were to be evaluated by a neurologist for confirmation of findings.

Examination methods are described in Chapter 10 of the CSSCD Manual of Operations [See Appendix E].

B. Data Collection Period: 03/79 – 09/88

C. Form Version Dates: 03/01/79, 03/29/79, 06/11/79, 12/04/86

Note that “Reason for Completing Form” (Q. 2.b. on the 12/04/86 version of the form) was not collected [See Section I, Computed Variables].

D. Files Used to Store Information:

SAS System Files: **R13.SD2, R23.SD2**

Format Files: **R13.FMT, R23.FMT**

E. Unique Record Identifiers:

R13.SD2: ANONID, F13CYCLE

Records within the dataset are sorted by **ANONID** and **F13CYCLE**.

R23.SD2: ANONID, F23DATE

Records within the dataset are sorted by **ANONID** and **F23DATE**.

F. Number of Observations (Patients) in SAS Dataset:

R13.SD2: 5302 (3345)

R23.SD2: 930 (421)

G. Contents of SAS Datasets:

R13.SD2:

- Alphabetical Listing of Variables: See pp. 5-7
- Listing of Variables by Position: See pp. 8-9

R23.SD2:

- Alphabetical Listing of Variables: See pp. 33-35
- Listing of Variables by Position: See pp. 36-38

R13.SD2 is used for storage of 1) all entry neurologic exams regardless of history of a neurologic event (seizures, meningitis, CVA) prior to entry and 2) first annual neurologic exam data for patients with no history of neurologic event prior to the date of the exam.

6.1: Neurologic Evaluation – Form 13

F23.SD2 is used for storage of 1) neurologic exams done at the time of a neurologic event (seizures, meningitis, CVA), and 2) routine follow-up neurologic exams for patients with a history of a neurologic event.

Variables in **R13.SD2** and **R23.SD2** are identical with the exception of four variables: **F13CYCLE** (in **R13.SD2** only); **F23TYPE**, **F23TDATE**, **F23SEQ** (in **R23.SD2** only).

H. Notes About Selected Variables:

In addition to the restrictions listed above, values for some variables (e.g., visual acuity/fields, cerebellar function, sensory position and vibration) may be missing due to inability to test or evaluate because of young age (3-6 years) and/or lack of cooperation.

I. Computed Variables:

- **F23TYPE** – is the variable name for type of neurologic event the exam is associated with. There are only 4 valid values for this variable: 40 (seizures), 42 (meningitis), 44 CVA, 90 (other neurologic abnormality). The value was computed by searching through dates of CVA events stored in **R41.SD2 (F41DTE1-15)**, dates of CVA events stored in **R44.SD2 (F44DATE)** and **R53.SD2 (F53CVAD)**, retrieving the values of **R09.SD2** variables **MENSTAT** and **SEIZSTAT**, searching through dates of seizures stored in **R40.SD2 (F40DATE)** and **R53.SD2 (F53SEIZD)** and dates of meningitis stored in **R42.SD2 (F42DATE)** and **R53.SD2 (F53MENID)**. **F23TYPE** was computed to be the value of the event which immediately preceded or was concurrent with the date of the neurologic exam. If seizures and CVA were concurrent events immediately preceding the exam, the value of **F23TYPE=44** (CVA). If seizures and meningitis were concurrent events immediately preceding the exam, the value of **F23TYPE=42** (meningitis).
- **F23TDATE** – is the variable name for date of neurologic event (**F23TYPE**) which immediately preceded or was concurrent with the neurologic exam. The value was computed by using date of event variables in SAS datasets **R40.SD2**, **R41.SD2**, **R42.SD2**, **R44.SD2**, **R53.SD2** and making **F23TDATE** equal to the date from the appropriate neurologic event record which was closest in time to the date of the neurologic exam. If the value of **F23TYPE** is 40 (seizures) or 42

6.1: Neurologic Evaluation – Form 13

(meningitis) and the closest one of these events occurred prior to the date of entry (DOE), the value of **F23TDATE** is missing since dates of these two events which occurred prior to entry are not stored in the dataset.

- **F23SEQ** – is the variable name for sequence number of the exam following the most recent neurologic event which occurred prior to the neurologic exam. The value was computed by chronologically ordering the neurologic exams following **F23TDATE** and making **F23SEQ** equal to the ordered number.

J. Inter-Relationship With Other Datasets:

Neurologic event and/or status data were collected on

Phase 1 Forms	SAS Dataset	See Section
40	R40.SD2	} 7.5 [Neurologic Events]
--	R41.SD2	
42	R42.SD2	
44	R44.SD2	
53	R53.SD2	
26	R20.SD2	7.9 [Comprehensive Special Event Form for Patients Entered at < 6 Months of Age]
10	R10.SD2	10.1 [Associated Medical Conditions]
14	R14.SD2	} 2 [Past Medical History]
15	R15.SD2	
--	R09.SD2	
17, 19, 20, 21, 24	R1722.SD2	1 [Patient Roster]
25	R25.SD2	4
91	R91.SD2	[Routine Visits]
		9.5 [Death]

**CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM**

CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R13.SD2

DATA FROM CSSCD FORM 13 - NEUROLOGIC EVALUATION REGULAR VISIT
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 13

CONTENTS OF SAS DATASET: R13.SD2

DATA FROM CSSCD FORM 13 - NEUROLOGIC EVALUATION REGULAR VISIT
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION

The SAS System 15:48 Monday, October 30, 2006 1

The CONTENTS Procedure

Data Set Name	OUT1.R13	Observations	5302
Member Type	DATA	Variables	71
Engine	V9	Indexes	0
Created	11:49 Tuesday, October 24, 2006	Observation Length	568
Last Modified	11:49 Tuesday, October 24, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
ncoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	16384
Number of Data Set Pages	190
First Data Page	1
Max Obs per Page	28
Obs in First Data Page	12
Number of Data Set Repairs	0
File Name	r13.sas7bdat
Release Created	9.0000M0
Host Created	XP_PRO

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
1	ANONID	Char	8	ANONYMIZED ID #
60	F13ANKLL	Num	8	ANKLE REFLEXES LEFT
59	F13ANKLR	Num	8	ANKLE REFLEXES RIGHT
50	F13BICL	Num	8	BICEPS REFLEXES LEFT
49	F13BICR	Num	8	BICEPS REFLEXES RIGHT
48	F13CRBLL	Num	8	CEREBELLAR FUNCTION LEFT
47	F13CRBLR	Num	8	CEREBELLAR FUNCTION RIGHT
18	F13CRNRL	Num	8	CORNEAL REFLEX LEFT
17	F13CRNRR	Num	8	CORNEAL REFLEX RIGHT
2	F13CYCLE	Num	8	CYCLE NUMBER OF VISIT
16	F13EXMVL	Num	8	EXTRAOCULAR MOVEMENT LEFT
15	F13EXMVR	Num	8	EXTRAOCULAR MOVEMENT RIGHT
22	F13FACPL	Num	8	FACIAL POWER LEFT
21	F13FACPR	Num	8	FACIAL POWER RIGHT
20	F13FACSL	Num	8	FACIAL SENSATION LEFT
19	F13FACSR	Num	8	FACIAL SENSATION RIGHT

SECTION 6.1 NEUROLOGIC EVALUATION

FORM 13

**CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM**

CSSCD FULL COHORT PATIENTS

8	F13FUNDL	Num	8	FUNDOSCOPIC EXAM	LEFT
7	F13FUNDR	Num	8	FUNDOSCOPIC EXAM	RIGHT
45	F13GAIT	Num	8	GAIT	
31	F13HRNSL	Num	8	HORNERS SYNDROME	LEFT
30	F13HRNSR	Num	8	HORNERS SYNDROME	RIGHT
3	F13INFCT	Num	8	INTELLECTUAL FUNCTION	
43	F13INVLL	Num	8	INVOLUNTARY MOVEMENT	LEFT LOWER
42	F13INVLU	Num	8	INVOLUNTARY MOVEMENT	LEFT UPPER
41	F13INVRL	Num	8	INVOLUNTARY MOVEMENT	RIGHT LOWER
40	F13INVRU	Num	8	INVOLUNTARY MOVEMENT	RIGHT UPPER
58	F13KNEEL	Num	8	KNEE REFLEXES	LEFT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM
 CSSCD FULL COHORT PATIENTS

The SAS System

15:48 Monday, October 30, 2006 2

The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
57	F13KNEER	Num	8	KNEE REFLEXES RIGHT
46	F13LIMP	Num	8	TYPE OF LIMP
4	F13LNFCFA	Num	8	LANGUAGE FUNCTION
5	F13LNFCB	Num	8	LANGUAGE FUNCTION DEFICITS
6	F13LNFC	Num	8	LANGUAGE FUNCTION CHANGE
39	F13MOPLL	Num	8	MOTOR POWER LEFT LOWER
38	F13MOPLU	Num	8	MOTOR POWER LEFT UPPER
37	F13MOPRL	Num	8	MOTOR POWER RIGHT LOWER
36	F13MOPRU	Num	8	MOTOR POWER RIGHT UPPER
35	F13MSTLL	Num	8	MUSCLE TONE LEFT LOWER
34	F13MSTLU	Num	8	MUSCLE TONE LEFT UPPER
33	F13MSTRL	Num	8	MUSCLE TONE RIGHT LOWER
32	F13MSTRU	Num	8	MUSCLE TONE RIGHT UPPER
27	F13NYGTL	Num	8	NYSTAGMUS GAZE TOWARD LEFT
26	F13NYGTR	Num	8	NYSTAGMUS GAZE TOWARD RIGHT
29	F13NYVGL	Num	8	NYSTAGMUS VERTICAL GAZE LEFT
28	F13NYVGR	Num	8	NYSTAGMUS VERTICAL GAZE RIGHT
63	F13PAIN	Num	8	PAIN PRESENT
24	F13PALRL	Num	8	PALATAL REFLEX LEFT
23	F13PALRR	Num	8	PALATAL REFLEX RIGHT
62	F13PLNRL	Num	8	PLANTAR REFLEXES LEFT
61	F13PLNRR	Num	8	PLANTAR REFLEXES RIGHT
67	F13POSIT	Num	8	POSITION ABNORMALITIES
14	F13PUPRL	Num	8	PUPILLARY REFLEXES LEFT
13	F13PUPRR	Num	8	PUPILLARY REFLEXES RIGHT
56	F13RADL	Num	8	RADIAL REFLEXES LEFT
55	F13RADR	Num	8	RADIAL REFLEXES RIGHT
44	F13RMBRG	Num	8	ROMBERG
64	F13SPAIN	Num	8	NUMBER OF SITES WITH PAIN
68	F13SPOSI	Num	8	NUMBER OF SITES WITH POSITION ABNORMAL
66	F13STACT	Num	8	NUMBER OF SITES W TACTILE ABNORMALITIES
70	F13SVIBR	Num	8	NUMBER SITES WITH VIBRATION
65	F13TACT	Num	8	TACTILE SITE ABNORMALITIES
25	F13TONGM	Num	8	TONGUE MOVEMENTS
52	F13TRICL	Num	8	TRICEPS REFLEXES LEFT
51	F13TRICR	Num	8	TRICEPS REFLEXES RIGHT
54	F13ULNL	Num	8	ULNAR REFLEXES LEFT
53	F13ULNR	Num	8	ULNAR REFLEXES RIGHT
69	F13VIBR	Num	8	VIBRATION
10	F13VSACL	Num	8	VISUAL ACUITY LEFT
9	F13VSACR	Num	8	VISUAL ACUITY RIGHT
12	F13VSFLL	Num	8	VISUAL FIELDS LEFT
11	F13VSFLR	Num	8	VISUAL FIELDS RIGHT
71	JF13DATE	Num	8	DATE OF VISIT - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM
CSSCD FULL COHORT PATIENTS

```
*****
*****
* R13.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R13.SD2
*
*****
****;
```

```
* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    06/11/99 11:24:59;
```

```
PROC FORMAT;
```

```
VALUE F13CYCLE
  25      = 'INTAKE OR AGE 2 YRS '
  26      = '1ST INTERIM'
  27      = '1ST ANNUAL'
  29      = '2ND ANNUAL'
  30      = '3RD INTERIM'
  31      = '3RD ANNUAL'
  32      = '4TH INTERIM'
  33      = '4TH ANNUAL';
```

```
VALUE F13INFCT
  1      = 'NORMAL'
  2      = 'DISORIENTED'
  3      = 'UNABLE TO CARE'
  4      = 'NOT TESTED';
```

```
VALUE F13LNFCA
  1      = 'NO DEFICITS'
  2      = 'SOME ERRORS'
  3      = 'FREQUENT ERRORS'
  4      = 'SOME VERBAL'
  5      = 'NO COMMUNICATION'
  6      = 'DYSARTHRIA';
```

```
*FORMAT NO_YES used for the following variables: F13LNFCA F13INVRU
                                                    F13INVRL F13INVLU
                                                    F13INVLL;
```

```
VALUE NO_YES
  1      = 'NO'
  2      = 'YES';
```

```
VALUE F13LNFCC
  1      = 'SAME'
  2      = 'WORSENER'
  3      = 'IMPROVED';
```

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM
CSSCD FULL COHORT PATIENTS

*FORMAT STATUS used for the following variables: F13FUNDR F13FUNDL;

VALUE STATUS
0 = 'OTHR ABNRMLTY(0)'
1 = 'PAPILLEDEMA (1)'
2 = 'HEMORRHAGES (2)'
4 = 'EXUDATE (4)'
8 = 'NORMAL (8)';

* FORMAT NOAB used for the following variables: F13VSACR F13VSACL
F13VSFLR F13VSFLL
F13PUPRR F13PUPRL
F13EXMVR F13EXMVL
F13CRNRR F13CRNRL
F13FACSR F13FACSL
F13FACPR F13FACPL
F13PALRR F13PALRL
F13TONGM F13PAIN
F13TACT F13POSIT
F13VIBR;

VALUE NOAB
1 = 'NORMAL'
2 = 'ABNORMAL';

* FORMAT ABPR used for the following variables: F13NYGTR F13NYGTL
F13NYVGR F13NYVGL
F13HRNSR F13HRNSL;

VALUE ABPR
1 = 'ABSENT'
2 = 'PRESENT';

* FORMAT NID used for the following variables: F13MSTRU F13MSTRL
F13MSTLU F13MSTLL;

VALUE NID
1 = 'NORMAL'
2 = 'INCREASED'
3 = 'DECREASED';

* FORMAT NAP used for the following variables: F13MOPRU F13MOPRL
F13MOPLU F13MOPLL;

VALUE NAP
1 = 'NORMAL'

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM
CSSCD FULL COHORT PATIENTS

2	=	'ABNORMAL'
3	=	'PROXIMAL'
4	=	'DISTAL'
5	=	'BOTH';

VALUE F13RMBRG

1	=	'NEGATIVE'
2	=	'POSITIVE';

VALUE F13GAIT

1	=	'NORMAL'
2	=	'UNABLE TO WALK'
3	=	'BROAD BASED'
4	=	'LIMP'
5	=	'ATAXIC'
6	=	'NOT TESTED';

VALUE F13LIMP

1	=	'RIGHT'
2	=	'LEFT'
3	=	'BOTH';

* FORMAT NAA used for the following variables: F13CRBLR F13CRBLR;

VALUE NAA

8	=	'NORMAL (8)'
1	=	'ABN FING-NOSE(1)'
2	=	'ABN HEEL-SHIN(2)'
4	=	'ABN RAPID MOV(4)';

* FORMAT NAH used for the following variables: F13BICR F13BICL
F13TRICR F13TRICL
F13ULNR F13ULNL
F13RADR F13RADL
F13KNEER F13KNEEL
F13ANKLR F13ANKLL;

VALUE NAH

1	=	'NORMAL'
2	=	'ABSENT-HYPOACTIVE'
3	=	'HYPERACTIVE';

* FORMAT NAC used for the following variables: F13PLNRR F13PLNRL;

VALUE NAC

1	=	'NORMAL'
2	=	'ABNORMAL'
3	=	'CLONUS';

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM
CSSCD FULL COHORT PATIENTS

* FORMAT

F13INFCT F13INFCT.
F13LNFCA F13LNFCA.
F13LNFCA F13LNFCA.
F13LNFCB F13INVRU
F13INVRL F13INVLU
F13INVLL NO_YES.
F13LNFCC F13LNFCC.
F13FUNDR F13FUNDL STATUS.
F13VSACR F13VSACL
F13VSFLR F13VSFLL
F13PUPRR F13PUPRL
F13EXMVR F13EXMVL
F13CRNRR F13CRNRL
F13FACSR F13FACSL
F13FACPR F13FACPL
F13PALRR F13PALRL
F13TONGM F13PAIN
F13TACT F13POSIT
F13VIBR NOAB.
F13NYGTR F13NYGTL
F13NYVGR F13NYVGL
F13HRNSR F13HRNSL ABPR.
F13MSTRU F13MSTRL
F13MSTLU F13MSTLL NID.
F13MOPRU F13MOPRL
F13MOPLU F13MOPLL NAP.
F13RMBRG F13RMBRG.
F13GAIT F13GAIT.
F13LIMP F13LIMP.
F13CRBLR F13CRBLL NAA.
F13BICR F13BICL
F13TRICR F13TRICL
F13ULNR F13ULNL
F13RADR F13RADL
F13KNEER F13KNEEL
F13ANKLR F13ANKLL NAH.
F13PLNRR F13PLNRL NAC.;

RUN;
QUIT;

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 1
 CSSCD FULL COHORT PATIENTS

F13VDATE ----- VERSION DATE **DELETED**

type: numeric daily date (int)
 label: datelab

range: [6999,9834] units: 1
 or equivalently: [01mar1979,04dec1986] units: days
 unique values: 4 coded missing: 0 / 5302

tabulation:	Freq.	Numeric	Label
	395	6999	03/01/79
	439	7027	03/29/79
	4462	7101	06/11/79
	6	9834	12/04/86

F13CYCLE ----- CYCLE NUMBER OF VISIT

type: numeric (float)
 label: F13CYCLE

range: [25,41] units: 1
 unique values: 8 coded missing: 0 / 5302

tabulation:	Freq.	Numeric	Label
	3228	25	INTAKE OR AGE 2 YRS
	1	26	1ST INTERIM
	1909	27	1ST ANNUAL
	159	29	2ND ANNUAL
	2	33	4TH ANNUAL
	1	35	
	1	37	
	1	41	

F13INFCT ----- INTELLECTUAL FUNCTION

type: numeric (float)
 label: F13INFCT

range: [1,4] units: 1
 unique values: 4 coded missing: 1396 / 5302

tabulation:	Freq.	Numeric	Label
	3838	1	NORMAL
	12	2	DISORIENTED
	28	3	UNABLE TO CARE
	28	4	NOT TESTED

F13INFCT:

1. Required only if age \geq 10.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 1
CSSCD FULL COHORT PATIENTS

F13LNFC A ----- LANGUAGE FUNCTION

type: numeric (float)
label: F13LNFC A

range: [1,6] units: 1
unique values: 6 coded missing: 1493 / 5302

tabulation:	Freq.	Numeric	Label
	3668	1	NO DEFICITS
	102	2	SOME ERRORS
	4	3	FREQUENT ERRORS
	12	4	SOME VERBAL
	7	5	NO COMMUNICATION
	16	6	DYSARTHRIA

F13LNFC A:

1. Required only if age \geq 10.

F13LNFC B ----- LANGUAGE FUNCTION DEFICITS

type: numeric (float)
label: F13LNFC B

range: [1,2] units: 1
unique values: 2 coded missing: 3623 / 5302

tabulation:	Freq.	Numeric	Label
	1622	1	NO
	57	2	YES

F13LNFC B:

1. Required only if age $<$ 10.

F13LNFC C ----- LANGUAGE FUNCTION CHANGE

type: numeric (float)
label: F13LNFC C

range: [1,3] units: 1
unique values: 3 coded missing: 3349 / 5302

tabulation:	Freq.	Numeric	Label
	1886	1	SAME
	17	2	WORSENER
	50	3	IMPROVED

F13LNFC C:

1. Required only if it is a repeat exam.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
 CSSCD FULL COHORT PATIENTS

F13FUNDR ----- FUNDOSCOPIC EXAM RIGHT

type: numeric (float)
 label: F13FUNDR

range: [0,8] units: 1
 unique values: 7 coded missing: 170 / 5302

tabulation:	Freq.	Numeric	Label
	73	0	OTHR ABNRMLTY(0)
	6	1	PAPILLEDEMA (1)
	26	2	HEMORRHAGES (2)
	13	4	EXUDATE (4)
	9	6	
	1	7	
	5004	8	NORMAL (8)

F13FUNDR:

1. Binary coded variable. See Part II for explanation of binary coded variables.

F13FUNDL ----- FUNDOSCOPIC EXAM LEFT

type: numeric (float)
 label: F13FUNDL

range: [0,8] units: 1
 unique values: 7 coded missing: 196 / 5302

tabulation:	Freq.	Numeric	Label
	67	0	OTHR ABNRMLTY(0)
	8	1	PAPILLEDEMA (1)
	25	2	HEMORRHAGES (2)
	18	4	EXUDATE (4)
	8	6	
	2	7	
	4978	8	NORMAL (8)

F13FUNDL:

1. Binary coded variable. See Part II for explanation of binary coded variables.

F13VSACR ----- VISUAL ACUITY RIGHT

type: numeric (float)
 label: F13VSACR

range: [1,2] units: 1
 unique values: 2 coded missing: 807 / 5302

tabulation:	Freq.	Numeric	Label
	4098	1	NORMAL
	397	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13VSACL ----- VISUAL ACUITY LEFT

type: numeric (float)
label: F13VSACL

range: [1,2] units: 1
unique values: 2 coded missing: 828 / 5302

tabulation:	Freq.	Numeric	Label
	4075	1	NORMAL
	399	2	ABNORMAL

F13VSFLR ----- VISUAL FIELDS RIGHT

type: numeric (float)
label: F13VSFLR

range: [1,2] units: 1
unique values: 2 coded missing: 542 / 5302

tabulation:	Freq.	Numeric	Label
	4687	1	NORMAL
	73	2	ABNORMAL

F13VSFLL ----- VISUAL FIELDS LEFT

type: numeric (float)
label: F13VSFLL

range: [1,2] units: 1
unique values: 2 coded missing: 567 / 5302

tabulation:	Freq.	Numeric	Label
	4668	1	NORMAL
	67	2	ABNORMAL

F13PUPRR ----- PUPILLARY REFLEXES RIGHT

type: numeric (float)
label: F13PUPRR

range: [1,2] units: 1
unique values: 2 coded missing: 340 / 5302

tabulation:	Freq.	Numeric	Label
	4933	1	NORMAL
	29	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13PUPRL ----- PUPILLARY REFLEXES LEFT

type: numeric (float)
label: F13PUPRL

range: [1,2] units: 1
unique values: 2 coded missing: 372 / 5302

tabulation:	Freq.	Numeric	Label
	4904	1	NORMAL
	26	2	ABNORMAL

F13EXMVR ----- EXTRAOCULAR MOVEMENT RIGHT

type: numeric (float)
label: F13EXMVR

range: [1,2] units: 1
unique values: 2 coded missing: 189 / 5302

tabulation:	Freq.	Numeric	Label
	5097	1	NORMAL
	16	2	ABNORMAL

F13EXMVL ----- EXTRAOCULAR MOVEMENT LEFT

type: numeric (float)
label: F13EXMVL

range: [1,2] units: 1
unique values: 2 coded missing: 234 / 5302

tabulation:	Freq.	Numeric	Label
	5049	1	NORMAL
	19	2	ABNORMAL

F13CRNRR ----- CORNEAL REFLEX RIGHT

type: numeric (float)
label: F13CRNRR

range: [1,2] units: 1
unique values: 2 coded missing: 356 / 5302

tabulation:	Freq.	Numeric	Label
	4932	1	NORMAL
	14	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13CRNRL ----- CORNEAL REFLEX LEFT

type: numeric (float)
label: F13CRNRL

range: [1,2] units: 1
unique values: 2 coded missing: 394 / 5302

tabulation:	Freq.	Numeric	Label
	4898	1	NORMAL
	10	2	ABNORMAL

F13FACSR ----- FACIAL SENSATION RIGHT

type: numeric (float)
label: F13FACSR

range: [1,2] units: 1
unique values: 2 coded missing: 138 / 5302

tabulation:	Freq.	Numeric	Label
	5155	1	NORMAL
	9	2	ABNORMAL

F13FACSL ----- FACIAL SENSATION LEFT

type: numeric (float)
label: F13FACSL

range: [1,2] units: 1
unique values: 2 coded missing: 174 / 5302

tabulation:	Freq.	Numeric	Label
	5118	1	NORMAL
	10	2	ABNORMAL

F13FACPR ----- FACIAL POWER RIGHT

type: numeric (float)
label: F13FACPR

range: [1,2] units: 1
unique values: 2 coded missing: 129 / 5302

tabulation:	Freq.	Numeric	Label
	5157	1	NORMAL
	16	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13FACPL ----- FACIAL POWER LEFT

type: numeric (float)
label: F13FACPL

range: [1,2] units: 1
unique values: 2 coded missing: 164 / 5302

tabulation:	Freq.	Numeric	Label
	5123	1	NORMAL
	15	2	ABNORMAL

F13PALRR ----- PALATAL REFLEX RIGHT

type: numeric (float)
label: F13PALRR

range: [1,2] units: 1
unique values: 2 coded missing: 127 / 5302

tabulation:	Freq.	Numeric	Label
	5168	1	NORMAL
	7	2	ABNORMAL

F13PALRL ----- PALATAL REFLEX LEFT

type: numeric (float)
label: F13PALRL

range: [1,2] units: 1
unique values: 2 coded missing: 158 / 5302

tabulation:	Freq.	Numeric	Label
	5135	1	NORMAL
	9	2	ABNORMAL

F13TONGM ----- TONGUE MOVEMENTS

type: numeric (float)
label: F13TONGM

range: [1,2] units: 1
unique values: 2 coded missing: 123 / 5302

tabulation:	Freq.	Numeric	Label
	5159	1	NORMAL
	20	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13NYGTR ----- NYSTAGMUS GAZE TOWARD RIGHT

type: numeric (float)
label: F13NYGTR

range: [1,2] units: 1
unique values: 2 coded missing: 79 / 5302

tabulation:	Freq.	Numeric	Label
	5095	1	ABSENT
	128	2	PRESENT

F13NYGTL ----- NYSTAGMUS GAZE TOWARD LEFT

type: numeric (float)
label: F13NYGTL

range: [1,2] units: 1
unique values: 2 coded missing: 143 / 5302

tabulation:	Freq.	Numeric	Label
	5033	1	ABSENT
	126	2	PRESENT

F13NYVGR ----- NYSTAGMUS VERTICAL GAZE RIGHT

type: numeric (float)
label: F13NYVGR

range: [1,2] units: 1
unique values: 2 coded missing: 81 / 5302

tabulation:	Freq.	Numeric	Label
	5125	1	ABSENT
	96	2	PRESENT

F13NYVGL ----- NYSTAGMUS VERTICAL GAZE LEFT

type: numeric (float)
label: F13NYVGL

range: [1,2] units: 1
unique values: 2 coded missing: 143 / 5302

tabulation:	Freq.	Numeric	Label
	5070	1	ABSENT
	89	2	PRESENT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 2
CSSCD FULL COHORT PATIENTS

F13HRNSR ----- HORNERS SYNDROME RIGHT

type: numeric (float)
label: F13HRNSR

range: [1,2] units: 1
unique values: 2 coded missing: 81 / 5302

tabulation:	Freq.	Numeric	Label
	5154	1	ABSENT
	67	2	PRESENT

F13HRNSL ----- HORNERS SYNDROME LEFT

type: numeric (float)
label: F13HRNSL

range: [1,2] units: 1
unique values: 2 coded missing: 142 / 5302

tabulation:	Freq.	Numeric	Label
	5097	1	ABSENT
	63	2	PRESENT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 3
CSSCD FULL COHORT PATIENTS

F13MSTRU ----- MUSCLE TONE RIGHT UPPER

type: numeric (float)
label: F13MSTRU

range: [1,3] units: 1
unique values: 3 coded missing: 37 / 5302

tabulation:	Freq.	Numeric	Label
	5204	1	NORMAL
	21	2	INCREASED
	40	3	DECREASED

F13MSTRL ----- MUSCLE TONE RIGHT LOWER

type: numeric (float)
label: F13MSTRL

range: [1,3] units: 1
unique values: 3 coded missing: 43 / 5302

tabulation:	Freq.	Numeric	Label
	5183	1	NORMAL
	24	2	INCREASED
	52	3	DECREASED

F13MSTLU ----- MUSCLE TONE LEFT UPPER

type: numeric (float)
label: F13MSTLU

range: [1,3] units: 1
unique values: 3 coded missing: 38 / 5302

tabulation:	Freq.	Numeric	Label
	5190	1	NORMAL
	18	2	INCREASED
	56	3	DECREASED

F13MSTLL ----- MUSCLE TONE LEFT LOWER

type: numeric (float)
label: F13MSTLL

range: [1,3] units: 1
unique values: 3 coded missing: 47 / 5302

tabulation:	Freq.	Numeric	Label
	5175	1	NORMAL
	16	2	INCREASED
	64	3	DECREASED

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 3
CSSCD FULL COHORT PATIENTS

F13MOPRU ----- MOTOR POWER RIGHT UPPER

type: numeric (float)
label: F13MOPRU

range: [1,5] units: 1
unique values: 5 coded missing: 40 / 5302

tabulation:	Freq.	Numeric	Label
	5194	1	NORMAL
	12	2	ABNORMAL
	16	3	PROXIMAL
	13	4	DISTAL
	27	5	BOTH

F13MOPRL ----- MOTOR POWER RIGHT LOWER

type: numeric (float)
label: F13MOPRL

range: [1,5] units: 1
unique values: 5 coded missing: 46 / 5302

tabulation:	Freq.	Numeric	Label
	5171	1	NORMAL
	13	2	ABNORMAL
	13	3	PROXIMAL
	26	4	DISTAL
	33	5	BOTH

F13MOPLU ----- MOTOR POWER LEFT UPPER

type: numeric (float)
label: F13MOPLU

range: [1,5] units: 1
unique values: 5 coded missing: 39 / 5302

tabulation:	Freq.	Numeric	Label
	5184	1	NORMAL
	14	2	ABNORMAL
	12	3	PROXIMAL
	17	4	DISTAL
	36	5	BOTH

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 3
 CSSCD FULL COHORT PATIENTS

F13MOPLL ----- MOTOR POWER LEFT LOWER

type: numeric (float)
 label: F13MOPLL

range: [1,5] units: 1
 unique values: 5 coded missing: 46 / 5302

tabulation:	Freq.	Numeric	Label
	5153	1	NORMAL
	13	2	ABNORMAL
	21	3	PROXIMAL
	26	4	DISTAL
	43	5	BOTH

F13INVRU ----- INVOLUNTARY MOVEMENT RIGHT UPPER

type: numeric (float)
 label: F13INVRU

range: [1,2] units: 1
 unique values: 2 coded missing: 38 / 5302

tabulation:	Freq.	Numeric	Label
	5254	1	NO
	10	2	YES

F13INVRL ----- INVOLUNTARY MOVEMENT RIGHT LOWER

type: numeric (float)
 label: F13INVRL

range: [1,2] units: 1
 unique values: 2 coded missing: 43 / 5302

tabulation:	Freq.	Numeric	Label
	5250	1	NO
	9	2	YES

F13INVLU ----- INVOLUNTARY MOVEMENT LEFT UPPER

type: numeric (float)
 label: F13INVLU

range: [1,2] units: 1
 unique values: 2 coded missing: 39 / 5302

tabulation:	Freq.	Numeric	Label
	5252	1	NO
	11	2	YES

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 3
 CSSCD FULL COHORT PATIENTS

F13INVLL ----- INVOLUNTARY MOVEMENT LEFT LOWER

type: numeric (float)
 label: F13INVLL

range: [1,2] units: 1
 unique values: 2 coded missing: 46 / 5302

tabulation:	Freq.	Numeric	Label
	5243	1	NO
	13	2	YES

F13RMBRG ----- ROMBERG

type: numeric (float)
 label: F13RMBRG

range: [1,2] units: 1
 unique values: 2 coded missing: 135 / 5302

tabulation:	Freq.	Numeric	Label
	5108	1	NEGATIVE
	59	2	POSITIVE

F13GAIT ----- GAIT

type: numeric (float)
 label: F13GAIT

range: [1,6] units: 1
 unique values: 6 coded missing: 50 / 5302

tabulation:	Freq.	Numeric	Label
	4967	1	NORMAL
	19	2	UNABLE TO WALK
	39	3	BROAD BASED
	205	4	LIMP
	12	5	ATAXIC
	10	6	NOT TESTED

F13LIMP ----- TYPE OF LIMP

type: numeric (float)
 label: F13LIMP

range: [1,3] units: 1
 unique values: 3 coded missing: 5097 / 5302

tabulation:	Freq.	Numeric	Label
	91	1	RIGHT
	105	2	LEFT
	9	3	BOTH

F13LIMP:

1. Required only if F13GAIT=4.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 3
 CSSCD FULL COHORT PATIENTS

F13CRBLR ----- CEREBELLAR FUNCTION RIGHT

type: numeric (float)
 label: F13CRBLR

range: [0,8] units: 1
 unique values: 9 coded missing: 174 / 5302

tabulation:	Freq.	Numeric	Label
	1	0	
	14	1	ABN FING-NOSE(1)
	18	2	ABN HEEL-SHIN(2)
	4	3	
	66	4	ABN RAPID MOV(4)
	7	5	
	69	6	
	48	7	
	4901	8	NORMAL (8)

F13CRBLR:

1. Binary coded variable. See Part II for explanation of binary coded variables.

F13CRBLL ----- CEREBELLAR FUNCTION LEFT

type: numeric (float)
 label: F13CRBLL

range: [1,8] units: 1
 unique values: 8 coded missing: 181 / 5302

tabulation:	Freq.	Numeric	Label
	17	1	ABN FING-NOSE(1)
	20	2	ABN HEEL-SHIN(2)
	3	3	
	66	4	ABN RAPID MOV(4)
	9	5	
	72	6	
	52	7	
	4882	8	NORMAL (8)

F13CRBLL:

1. Binary coded variable. See Part II for explanation of binary coded variables.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 4
CSSCD FULL COHORT PATIENTS

F13KNEER ----- KNEE REFLEXES RIGHT

type: numeric (float)
label: F13KNEER

range: [1,3] units: 1
unique values: 3 coded missing: 48 / 5302

tabulation:	Freq.	Numeric	Label
	4888	1	NORMAL
	239	2	ABSENT-HYPOACTIVE
	127	3	HYPERACTIVE

F13KNEEL ----- KNEE REFLEXES LEFT

type: numeric (float)
label: F13KNEEL

range: [1,3] units: 1
unique values: 3 coded missing: 79 / 5302

tabulation:	Freq.	Numeric	Label
	4824	1	NORMAL
	256	2	ABSENT-HYPOACTIVE
	143	3	HYPERACTIVE

F13ANKLR ----- ANKLE REFLEXES RIGHT

type: numeric (float)
label: F13ANKLR

range: [1,3] units: 1
unique values: 3 coded missing: 55 / 5302

tabulation:	Freq.	Numeric	Label
	4936	1	NORMAL
	205	2	ABSENT-HYPOACTIVE
	106	3	HYPERACTIVE

F13ANKLL ----- ANKLE REFLEXES LEFT

type: numeric (float)
label: F13ANKLL

range: [1,3] units: 1
unique values: 3 coded missing: 82 / 5302

tabulation:	Freq.	Numeric	Label
	4884	1	NORMAL
	220	2	ABSENT-HYPOACTIVE
	116	3	HYPERACTIVE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 4
 CSSCD FULL COHORT PATIENTS

F13PLNRR ----- PLANTAR REFLEXES RIGHT

type: numeric (float)
 label: F13PLNRR

range: [1,3] units: 1
 unique values: 3 coded missing: 62 / 5302

tabulation:	Freq.	Numeric	Label
	5184	1	NORMAL
	44	2	ABNORMAL
	12	3	CLONUS

F13PLNRL ----- PLANTAR REFLEXES LEFT

type: numeric (float)
 label: F13PLNRL

range: [1,3] units: 1
 unique values: 3 coded missing: 58 / 5302

tabulation:	Freq.	Numeric	Label
	5174	1	NORMAL
	52	2	ABNORMAL
	18	3	CLONUS

F13PAIN ----- PAIN PRESENT

type: numeric (float)
 label: F13PAIN

range: [1,2] units: 1
 unique values: 2 coded missing: 117 / 5302

tabulation:	Freq.	Numeric	Label
	5143	1	NORMAL
	42	2	ABNORMAL

F13SPAIN ----- NUMBER OF SITES WITH PAIN

type: numeric (float)

range: [1,4] units: 1
 unique values: 4 coded missing: 5269 / 5302

tabulation:	Freq.	Value
	15	1
	10	2
	3	3
	5	4

F13SPAIN:

1. Required only if F13PAIN=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 4
CSSCD FULL COHORT PATIENTS

F13TACT ----- TACTILE SITE ABNORMALITIES

type: numeric (float)
label: F13TACT

range: [1,2] units: 1
unique values: 2 coded missing: 133 / 5302

tabulation:	Freq.	Numeric	Label
	5125	1	NORMAL
	44	2	ABNORMAL

F13STACT ----- NUMBER OF SITES W TACTILE ABNORMALITIES

type: numeric (float)

range: [1,4] units: 1
unique values: 4 coded missing: 5265 / 5302

tabulation:	Freq.	Value
	17	1
	11	2
	5	3
	4	4

F13STACT:

1. Required only if F13TACT=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

F13POSIT ----- POSITION ABNORMALITIES

type: numeric (float)
label: F13POSIT

range: [1,2] units: 1
unique values: 2 coded missing: 197 / 5302

tabulation:	Freq.	Numeric	Label
	5082	1	NORMAL
	23	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGIC EVALUATION FORM - PAGE 4
CSSCD FULL COHORT PATIENTS

F13SPOSI ----- NUMBER OF SITES WITH POSITION ABNORMAL
type: numeric (float)

range: [1,4] units: 1
unique values: 4 coded missing: 5283 / 5302

tabulation:	Freq.	Value
	10	1
	7	2
	1	3
	1	4

F13SPOSI:

1. Required only if F13POSIT=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

F13VIBR ----- VIBRATION

type: numeric (float)
label: F13VIBR

range: [1,2] units: 1
unique values: 2 coded missing: 233 / 5302

tabulation:	Freq.	Numeric	Label
	5039	1	NORMAL
	30	2	ABNORMAL

F13SVIBR ----- NUMBER SITES WITH VIBRATION

type: numeric (float)

range: [1,4] units: 1
unique values: 4 coded missing: 5275 / 5302

tabulation:	Freq.	Value
	9	1
	13	2
	4	3
	1	4

F13SVIBR:

1. Required only if F13VIBR=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

_dta:

1. Created 06/29/00.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
 CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R23.SD2
 DATA FROM CSSCD FORM 13 - NEUROLOGIC EVALUATION
 FOLLOW-UP FOR AN ACUTE EVENT
 VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
 IN THE SAS DATASET AND ON FORM 13
 The SAS System 15:48 Monday, October 30, 2006 8

The CONTENTS Procedure

Data Set Name	OUT1.R23	Observations	930
Member Type	DATA	Variables	73
Engine	V9	Indexes	0
Created	13:36 Tuesday, October 24, 2006	Observation Length	584
Last Modified	13:36 Tuesday, October 24, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	16384
Number of Data Set Pages	34
First Data Page	1
Max Obs per Page	28
Obs in First Data Page	11
Number of Data Set Repairs	0
File Name	r23.sas7bdat
Release Created	9.0000M0
Host Created	XP_PRO

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
1	ANONID	Char	8	ANONYMIZED ID #
59	F23ANKLL	Num	8	ANKLE REFLEXES LEFT
58	F23ANKLR	Num	8	ANKLE REFLEXES RIGHT
49	F23BICL	Num	8	BICEPS REFLEXES LEFT
48	F23BICR	Num	8	BICEPS REFLEXES RIGHT
47	F23CRBLL	Num	8	CEREBELLAR FUNCTION LEFT
46	F23CRBLR	Num	8	CEREBELLAR FUNCTION RIGHT
17	F23CRNRL	Num	8	CORNEAL REFLEX LEFT
16	F23CRNRR	Num	8	CORNEAL REFLEX RIGHT
15	F23EXMVL	Num	8	EXTRAOCULAR MOVEMENT LEFT
14	F23EXMVR	Num	8	EXTRAOCULAR MOVEMENT RIGHT
21	F23FACPL	Num	8	FACIAL POWER LEFT
20	F23FACPR	Num	8	FACIAL POWER RIGHT
19	F23FACSL	Num	8	FACIAL SENSATION LEFT
18	F23FACSR	Num	8	FACIAL SENSATION RIGHT
7	F23FUNDL	Num	8	FUNDOSCOPIE EXAM LEFT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

6	F23FUNDR	Num	8	FUNDOSCOPIC EXAM	RIGHT
44	F23GAIT	Num	8	GAIT	
30	F23HRNSL	Num	8	HORNERS SYNDROME	LEFT
29	F23HRNSR	Num	8	HORNERS SYNDROME	RIGHT
2	F23INFCT	Num	8	INTELLECTUAL FUNCTION	
42	F23INVLL	Num	8	INVOLUNTARY MOVEMENT	LEFT LOWER
41	F23INVLU	Num	8	INVOLUNTARY MOVEMENT	LEFT UPPER
40	F23INVRL	Num	8	INVOLUNTARY MOVEMENT	RIGHT LOWER
39	F23INVRU	Num	8	INVOLUNTARY MOVEMENT	RIGHT UPPER
57	F23KNEEL	Num	8	KNEE REFLEXES	LEFT
56	F23KNEER	Num	8	KNEE REFLEXES	RIGHT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
 CSSCD FULL COHORT PATIENTS

The SAS System

15:48 Monday, October 30, 2006 9

The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
45	F23LIMP	Num	8	TYPE OF LIMP
3	F23LNFCFA	Num	8	LANGUAGE FUNCTION
4	F23LNFCB	Num	8	LANGUAGE FUNCTION DEFICITS
5	F23LNFCF	Num	8	LANGUAGE FUNCTION CHANGE
38	F23MOPLL	Num	8	MOTOR POWER LEFT LOWER
37	F23MOPLU	Num	8	MOTOR POWER LEFT UPPER
36	F23MOPRL	Num	8	MOTOR POWER RIGHT LOWER
35	F23MOPRU	Num	8	MOTOR POWER RIGHT UPPER
34	F23MSTLL	Num	8	MUSCLE TONE LEFT LOWER
33	F23MSTLU	Num	8	MUSCLE TONE LEFT UPPER
32	F23MSTRL	Num	8	MUSCLE TONE RIGHT LOWER
31	F23MSTRU	Num	8	MUSCLE TONE RIGHT UPPER
26	F23NYGTL	Num	8	NYSTAGMUS GAZE TOWARD LEFT
25	F23NYGTR	Num	8	NYSTAGMUS GAZE TOWARD RIGHT
28	F23NYVGL	Num	8	NYSTAGMUS VERTICAL GAZE LEFT
27	F23NYVGR	Num	8	NYSTAGMUS VERTICAL GAZE RIGHT
62	F23PAIN	Num	8	PAIN PRESENT
23	F23PALRL	Num	8	PALATAL REFLEX LEFT
22	F23PALRR	Num	8	PALATAL REFLEX RIGHT
61	F23PLNRL	Num	8	PLANTAR REFLEXES LEFT
60	F23PLNRR	Num	8	PLANTAR REFLEXES RIGHT
66	F23POSIT	Num	8	POSITION ABNORMALITIES
13	F23PUPRL	Num	8	PUPILLARY REFLEXES LEFT
12	F23PUPRR	Num	8	PUPILLARY REFLEXES RIGHT
55	F23RADL	Num	8	RADIAL REFLEXES LEFT
54	F23RADR	Num	8	RADIAL REFLEXES RIGHT
43	F23RMBRG	Num	8	ROMBERG
71	F23SEQ	Num	8	SEQUENCE NUMBER OF FOLLOW-UP
63	F23SPAIN	Num	8	NUMBER OF SITES WITH PAIN
67	F23SPOSI	Num	8	NUMBER OF SITES WITH POSITION ABNORMAL
65	F23STACT	Num	8	NUMBER OF SITES W TACTILE ABNORMALITIES
69	F23SVIBR	Num	8	NUMBER SITES WITH VIBRATION
64	F23TACT	Num	8	TACTILE SITE ABNORMALITIES
24	F23TONGM	Num	8	TONGUE MOVEMENTS
51	F23TRICL	Num	8	TRICEPS REFLEXES LEFT
50	F23TRICR	Num	8	TRICEPS REFLEXES RIGHT
70	F23TYPE	Num	8	TYPE CODE OF ASSOCIATED EVENT
53	F23ULNL	Num	8	ULNAR REFLEXES LEFT
52	F23ULNR	Num	8	ULNAR REFLEXES RIGHT
68	F23VIBR	Num	8	VIBRATION
9	F23VSACL	Num	8	VISUAL ACUITY LEFT
8	F23VSACR	Num	8	VISUAL ACUITY RIGHT
11	F23VSFLL	Num	8	VISUAL FIELDS LEFT
10	F23VSFLR	Num	8	VISUAL FIELDS RIGHT
73	J23TDATE	Num	8	DATE OF ASSOCIATED EVENT - RECCODE DAYS SINCE DO

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

72 JF23DATE Num 8 DATE OF VISIT - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
CSSCD FULL COHORT PATIENTS

* R23.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R23.SD2
*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 06/11/99 11:28:29;

PROC FORMAT;

VALUE F23INFCT
1 = 'NORMAL'
2 = 'DISORIENTED'
3 = 'UNABLE TO CARE'
4 = 'NOT TESTED';

VALUE F23LNFCA
1 = 'NO DEFICITS'
2 = 'SOME ERRORS'
3 = 'FREQUENT ERRORS'
4 = 'SOME VERBAL'
5 = 'NO COMMUNICATION'
6 = 'DYSARTHRIA';

*FORMAT NO_YES used for the following variables: F23LNFCB F23INVRU
F23INVRL F23INVLU
F23INVLL;

VALUE NO_YES
1 = 'NO'
2 = 'YES';

VALUE F23LNFCC
1 = 'SAME'
2 = 'WORSENERD'
3 = 'IMPROVED';

*FORMAT STATUS used for the following variables: F23FUNDR F23FUNDL;

VALUE STATUS

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
CSSCD FULL COHORT PATIENTS

0 = 'OTHR ABNRMLTY(0)'
1 = 'PAPILLEDEMA (1)'
2 = 'HEMORRHAGES (2)'
4 = 'EXUDATE (4)'
8 = 'NORMAL (8)';

* FORMAT NOAB used for the following variables: F23VSACR F23VSACL
F23VSFLR F23VSFLL
F23PUPRR F23PUPRL
F23EXMVR F23EXMVL
F23CRNRR F23CRNRL
F23FACSR F23FACSL
F23FACPR F23FACPL
F23PALRR F23PALRL
F23TONGM F23PAIN
F23TACT F23POSIT
F23VIBR;

VALUE NOAB

1 = 'NORMAL'
2 = 'ABNORMAL';

* FORMAT ABPR used for the following variables: F23NYGTR F23NYGTL
F23NYVGR F23NYVGL
F23HRNSR F23HRNSL;

VALUE ABPR

1 = 'ABSENT'
2 = 'PRESENT';

* FORMAT NID used for the following variables: F23MSTRU F23MSTRL
F23MSTLU F23MSTLL;

VALUE NID

1 = 'NORMAL'
2 = 'INCREASED'
3 = 'DECREASED';

* FORMAT NAP used for the following variables: F23MOPRU F23MOPRL
F23MOPLU F23MOPLL;

VALUE NAP

1 = 'NORMAL'
2 = 'ABNORMAL'
3 = 'PROXIMAL'

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
CSSCD FULL COHORT PATIENTS

4 = 'DISTAL'
5 = 'BOTH';

VALUE F23RMBRG
1 = 'NEGATIVE'
2 = 'POSITIVE';

VALUE F23GAIT
1 = 'NORMAL'
2 = 'UNABLE TO WALK'
3 = 'BROAD BASED'
4 = 'LIMP'
5 = 'ATAXIC'
6 = 'NOT TESTED';

VALUE F23LIMP
1 = 'RIGHT'
2 = 'LEFT'
3 = 'BOTH';

* FORMAT NAA used for the following variables: F23CRBLR F23CRBLL;

VALUE NAA
8 = 'NORMAL (8)'
1 = 'ABN FING-NOSE(1)'
2 = 'ABN HEEL-SHIN(2)'
4 = 'ABN RAPID MOV(4)';

* FORMAT NAH used for the following variables: F23BICR F23BICL
F23TRICR F23TRICL
F23ULNR F23ULNL
F23RADR F23RADL
F23KNEER F23KNEEL
F23ANKLR F23ANKLL;

VALUE NAH
1 = 'NORMAL'
2 = 'ABSENT-HYPOACTIVE'
3 = 'HYPERACTIVE';

* FORMAT NAC used for the following variables: F23PLNRR F23PLNRL;

VALUE NAC
1 = 'NORMAL'
2 = 'ABNORMAL'
3 = 'CLONUS';

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
CSSCD FULL COHORT PATIENTS

VALUE F23TYPE

40 = 'SEIZURES'
42 = 'MENINGITIS'
44 = 'CVA'
90 = 'OTHER' ;

* FORMAT

F23INFCT F23INFCT.
F23LNFCFA F23LNFCFA.
F23LNFCB F23INVRU
F23INVRL F23INVLU
F23INVLL NO_YES.
F23LNFCC F23LNFCC.
F23FUNDR F23FUNDL STATUS.
F23VSACR F23VSACL
F23VSFLR F23VSFLL
F23PUPRR F23PUPRL
F23EXMVR F23EXMVL
F23CRNRR F23CRNRL
F23FACSR F23FACSL
F23FACPR F23FACPL
F23PALRR F23PALRL
F23TONGM F23PAIN
F23TACT F23POSIT
F23VIBR NOAB.
F23NYGTR F23NYGTL
F23NYVGR F23NYVGL
F23HRNSR F23HRNSL ABPR.
F23MSTRU F23MSTRL
F23MSTLU F23MSTLL NID.
F23MOPRU F23MOPRL
F23MOPLU F23MOPLL NAP.
F23RMBRG F23RMBRG.
F23GAIT F23GAIT.
F23LIMP F23LIMP.
F23CRBLR F23CRBLN NAA.
F23BICR F23BICL
F23TRICR F23TRICL
F23ULNR F23ULNL
F23RADR F23RADL
F23KNEER F23KNEEL
F23ANKLR F23ANKLL NAH.
F23PLNRR F23PLNRL NAC.
F23TYPE F23TYPE. ;

RUN ;
QUIT ;

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
 CSSCD FULL COHORT PATIENTS

F23VDATE ----- VERSION DATE **DELETED**

type: numeric daily date (int)
 label: datelab

range: [6999,9834] units: 1
 or equivalently: [01mar1979,04dec1986] units: days
 unique values: 4 coded missing: 0 / 930

tabulation:	Freq.	Numeric	Label
	4	6999	03/01/79
	11	7027	03/29/79
	873	7101	06/11/79
	42	9834	12/04/86

F23INFCT ----- INTELLECTUAL FUNCTION

type: numeric (float)
 label: F23INFCT

range: [1,4] units: 1
 unique values: 4 coded missing: 239 / 930

tabulation:	Freq.	Numeric	Label
	598	1	NORMAL
	24	2	DISORIENTED
	46	3	UNABLE TO CARE
	23	4	NOT TESTED

F23INFCT:

1. Required only if age \geq 10.

F23LNFCA ----- LANGUAGE FUNCTION

type: numeric (float)
 label: F23LNFCA

range: [1,6] units: 1
 unique values: 6 coded missing: 259 / 930

tabulation:	Freq.	Numeric	Label
	486	1	NO DEFICITS
	121	2	SOME ERRORS
	12	3	FREQUENT ERRORS
	11	4	SOME VERBAL
	17	5	NO COMMUNICATION
	24	6	DYSARTHRIA

F23LNFCA:

1. Required only if age \geq 10.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 1
CSSCD FULL COHORT PATIENTS

F23LNFCB ----- LANGUAGE FUNCTION DEFICITS

 type: numeric (float)
 label: F23LNFCB

 range: [1,2] units: 1
unique values: 2 coded missing: 641 / 930

 tabulation: Freq. Numeric Label
 211 1 NO
 78 2 YES

F23LNFCB:
1. Required only if age<10.

F23LNFCB ----- LANGUAGE FUNCTION CHANGE

 type: numeric (float)
 label: F23LNFCB

 range: [1,3] units: 1
unique values: 3 coded missing: 157 / 930

 tabulation: Freq. Numeric Label
 579 1 SAME
 85 2 WORSENERD
 109 3 IMPROVED

F23LNFCB:
1. Required only if repeat exam.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
 CSSCD FULL COHORT PATIENTS

F23FUNDR ----- FUNDOSCOPIIC EXAM RIGHT

type: numeric (float)
 label: F23FUNDR

range: [0,8] units: 1
 unique values: 7 coded missing: 45 / 930

tabulation:	Freq.	Numeric	Label
	9	0	OTHR ABNRMLTY(0)
	5	1	PAPILLEDEMA (1)
	8	2	HEMORRHAGES (2)
	2	3	
	0	4	EXUDATE (4)
	4	6	
	1	7	
	856	8	NORMAL (8)

F23FUNDR:

1. Binary coded variable. See Part II for explanation of binary coded variables.

F23FUNDL ----- FUNDOSCOPIIC EXAM LEFT

type: numeric (float)
 label: F23FUNDL

range: [0,8] units: 1
 unique values: 8 coded missing: 60 / 930

tabulation:	Freq.	Numeric	Label
	5	0	OTHR ABNRMLTY(0)
	5	1	PAPILLEDEMA (1)
	7	2	HEMORRHAGES (2)
	1	3	
	2	4	EXUDATE (4)
	4	6	
	2	7	
	844	8	NORMAL (8)

F23FUNDL:

1. Binary coded variable. See Part II for explanation of binary coded variables.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
 CSSCD FULL COHORT PATIENTS

F23VSACR ----- VISUAL ACUITY RIGHT

 type: numeric (float)
 label: F23VSACR

 range: [1,2] units: 1
 unique values: 2 coded missing: 184 / 930

tabulation:	Freq.	Numeric	Label
	685	1	NORMAL
	61	2	ABNORMAL

F23VSACL ----- VISUAL ACUITY LEFT

 type: numeric (float)
 label: F23VSACL

 range: [1,2] units: 1
 unique values: 2 coded missing: 201 / 930

tabulation:	Freq.	Numeric	Label
	665	1	NORMAL
	64	2	ABNORMAL

F23VSFLR ----- VISUAL FIELDS RIGHT

 type: numeric (float)
 label: F23VSFLR

 range: [1,2] units: 1
 unique values: 2 coded missing: 153 / 930

tabulation:	Freq.	Numeric	Label
	740	1	NORMAL
	37	2	ABNORMAL

F23VSFLL ----- VISUAL FIELDS LEFT

 type: numeric (float)
 label: F23VSFLL

 range: [1,2] units: 1
 unique values: 2 coded missing: 168 / 930

tabulation:	Freq.	Numeric	Label
	721	1	NORMAL
	41	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
 CSSCD FULL COHORT PATIENTS

F23PUPRR ----- PUPILLARY REFLEXES RIGHT

type: numeric (float)
 label: F23PUPRR

range: [1,2] units: 1
 unique values: 2 coded missing: 115 / 930

tabulation:	Freq.	Numeric	Label
	799	1	NORMAL
	16	2	ABNORMAL

F23PUPRL ----- PUPILLARY REFLEXES LEFT

type: numeric (float)
 label: F23PUPRL

range: [1,2] units: 1
 unique values: 2 coded missing: 136 / 930

tabulation:	Freq.	Numeric	Label
	774	1	NORMAL
	20	2	ABNORMAL

F23EXMVR ----- EXTRAOCULAR MOVEMENT RIGHT

type: numeric (float)
 label: F23EXMVR

range: [1,2] units: 1
 unique values: 2 coded missing: 59 / 930

tabulation:	Freq.	Numeric	Label
	850	1	NORMAL
	21	2	ABNORMAL

F23EXMVL ----- EXTRAOCULAR MOVEMENT LEFT

type: numeric (float)
 label: F23EXMVL

range: [1,2] units: 1
 unique values: 2 coded missing: 81 / 930

tabulation:	Freq.	Numeric	Label
	828	1	NORMAL
	21	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
CSSCD FULL COHORT PATIENTS

F23FACPR ----- FACIAL POWER RIGHT

type: numeric (float)
label: F23FACPR

range: [1,2] units: 1
unique values: 2 coded missing: 65 / 930

tabulation:	Freq.	Numeric	Label
	816	1	NORMAL
	49	2	ABNORMAL

F23FACPL ----- FACIAL POWER LEFT

type: numeric (float)
label: F23FACPL

range: [1,2] units: 1
unique values: 2 coded missing: 83 / 930

tabulation:	Freq.	Numeric	Label
	804	1	NORMAL
	43	2	ABNORMAL

F23PALRR ----- PALATAL REFLEX RIGHT

type: numeric (float)
label: F23PALRR

range: [1,2] units: 1
unique values: 2 coded missing: 65 / 930

tabulation:	Freq.	Numeric	Label
	848	1	NORMAL
	17	2	ABNORMAL

F23PALRL ----- PALATAL REFLEX LEFT

type: numeric (float)
label: F23PALRL

range: [1,2] units: 1
unique values: 2 coded missing: 86 / 930

tabulation:	Freq.	Numeric	Label
	824	1	NORMAL
	20	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
 CSSCD FULL COHORT PATIENTS

F23TONGM ----- TONGUE MOVEMENTS

type: numeric (float)
 label: F23TONGM

range: [1,2] units: 1
 unique values: 2 coded missing: 56 / 930

tabulation:	Freq.	Numeric	Label
	844	1	NORMAL
	30	2	ABNORMAL

F23NYGTR ----- NYSTAGMUS GAZE TOWARD RIGHT

type: numeric (float)
 label: F23NYGTR

range: [1,2] units: 1
 unique values: 2 coded missing: 17 / 930

tabulation:	Freq.	Numeric	Label
	853	1	ABSENT
	60	2	PRESENT

F23NYGTL ----- NYSTAGMUS GAZE TOWARD LEFT

type: numeric (float)
 label: F23NYGTL

range: [1,2] units: 1
 unique values: 2 coded missing: 54 / 930

tabulation:	Freq.	Numeric	Label
	820	1	ABSENT
	56	2	PRESENT

F23NYVGR ----- NYSTAGMUS VERTICAL GAZE RIGHT

type: numeric (float)
 label: F23NYVGR

range: [1,2] units: 1
 unique values: 2 coded missing: 18 / 930

tabulation:	Freq.	Numeric	Label
	861	1	ABSENT
	51	2	PRESENT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 2
CSSCD FULL COHORT PATIENTS

F23NYVGL ----- NYSTAGMUS VERTICAL GAZE LEFT

type: numeric (float)
label: F23NYVGL

range: [1,2] units: 1
unique values: 2 coded missing: 55 / 930

tabulation:	Freq.	Numeric	Label
	822	1	ABSENT
	53	2	PRESENT

F23HRNSR ----- HORNERS SYNDROME RIGHT

type: numeric (float)
label: F23HRNSR

range: [1,2] units: 1
unique values: 2 coded missing: 19 / 930

tabulation:	Freq.	Numeric	Label
	881	1	ABSENT
	30	2	PRESENT

F23HRNSL ----- HORNERS SYNDROME LEFT

type: numeric (float)
label: F23HRNSL

range: [1,2] units: 1
unique values: 2 coded missing: 55 / 930

tabulation:	Freq.	Numeric	Label
	847	1	ABSENT
	28	2	PRESENT

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
 CSSCD FULL COHORT PATIENTS

F23MSTRU ----- MUSCLE TONE RIGHT UPPER

type: numeric (float)
 label: F23MSTRU

range: [1,3] units: 1
 unique values: 3 coded missing: 4 / 930

tabulation:	Freq.	Numeric	Label
	722	1	NORMAL
	106	2	INCREASED
	98	3	DECREASED

F23MSTRL ----- MUSCLE TONE RIGHT LOWER

type: numeric (float)
 label: F23MSTRL

range: [1,3] units: 1
 unique values: 3 coded missing: 7 / 930

tabulation:	Freq.	Numeric	Label
	717	1	NORMAL
	106	2	INCREASED
	100	3	DECREASED

F23MSTLU ----- MUSCLE TONE LEFT UPPER

type: numeric (float)
 label: F23MSTLU

range: [1,3] units: 1
 unique values: 3 coded missing: 9 / 930

tabulation:	Freq.	Numeric	Label
	735	1	NORMAL
	93	2	INCREASED
	93	3	DECREASED

F23MSTLL ----- MUSCLE TONE LEFT LOWER

type: numeric (float)
 label: F23MSTLL

range: [1,3] units: 1
 unique values: 3 coded missing: 10 / 930

tabulation:	Freq.	Numeric	Label
	742	1	NORMAL
	89	2	INCREASED
	89	3	DECREASED

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
 CSSCD FULL COHORT PATIENTS

F23MOPRU ----- MOTOR POWER RIGHT UPPER

type: numeric (float)
 label: F23MOPRU

range: [1,5] units: 1
 unique values: 5 coded missing: 10 / 930

tabulation:	Freq.	Numeric	Label
	696	1	NORMAL
	20	2	ABNORMAL
	23	3	PROXIMAL
	44	4	DISTAL
	137	5	BOTH

F23MOPRL ----- MOTOR POWER RIGHT LOWER

type: numeric (float)
 label: F23MOPRL

range: [1,5] units: 1
 unique values: 5 coded missing: 17 / 930

tabulation:	Freq.	Numeric	Label
	701	1	NORMAL
	17	2	ABNORMAL
	20	3	PROXIMAL
	47	4	DISTAL
	128	5	BOTH

F23MOPLU ----- MOTOR POWER LEFT UPPER

type: numeric (float)
 label: F23MOPLU

range: [1,5] units: 1
 unique values: 5 coded missing: 12 / 930

tabulation:	Freq.	Numeric	Label
	735	1	NORMAL
	13	2	ABNORMAL
	19	3	PROXIMAL
	24	4	DISTAL
	127	5	BOTH

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
 CSSCD FULL COHORT PATIENTS

F23MOPLL ----- MOTOR POWER LEFT LOWER

type: numeric (float)
 label: F23MOPLL

range: [1,5] units: 1
 unique values: 5 coded missing: 13 / 930

tabulation:	Freq.	Numeric	Label
	732	1	NORMAL
	14	2	ABNORMAL
	15	3	PROXIMAL
	31	4	DISTAL
	125	5	BOTH

F23INVRU ----- INVOLUNTARY MOVEMENT RIGHT UPPER

type: numeric (float)
 label: F23INVRU

range: [1,2] units: 1
 unique values: 2 coded missing: 9 / 930

tabulation:	Freq.	Numeric	Label
	909	1	NO
	12	2	YES

F23INVRL ----- INVOLUNTARY MOVEMENT RIGHT LOWER

type: numeric (float)
 label: F23INVRL

range: [1,2] units: 1
 unique values: 2 coded missing: 10 / 930

tabulation:	Freq.	Numeric	Label
	913	1	NO
	7	2	YES

F23INVLU ----- INVOLUNTARY MOVEMENT LEFT UPPER

type: numeric (float)
 label: F23INVLU

range: [1,2] units: 1
 unique values: 2 coded missing: 14 / 930

tabulation:	Freq.	Numeric	Label
	908	1	NO
	8	2	YES

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
 CSSCD FULL COHORT PATIENTS

F23INVLL ----- INVOLUNTARY MOVEMENT LEFT LOWER

type: numeric (float)
 label: F23INVLL

range: [1,2] units: 1

unique values: 2 coded missing: 13 / 930

tabulation:	Freq.	Numeric	Label
	907	1	NO
	10	2	YES

F23RMBRG ----- ROMBERG

type: numeric (float)
 label: F23RMBRG

range: [1,2] units: 1

unique values: 2 coded missing: 127 / 930

tabulation:	Freq.	Numeric	Label
	719	1	NEGATIVE
	84	2	POSITIVE

F23GAIT ----- GAIT

type: numeric (float)
 label: F23GAIT

range: [1,6] units: 1

unique values: 6 coded missing: 28 / 930

tabulation:	Freq.	Numeric	Label
	542	1	NORMAL
	62	2	UNABLE TO WALK
	36	3	BROAD BASED
	195	4	LIMP
	28	5	ATAXIC
	39	6	NOT TESTED

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
 CSSCD FULL COHORT PATIENTS

F23LIMP ----- TYPE OF LIMP

type: numeric (float)
 label: F23LIMP

range: [1,3] units: 1
 unique values: 3 coded missing: 733 / 930

tabulation:	Freq.	Numeric	Label
	108	1	RIGHT
	85	2	LEFT
	4	3	BOTH

F23LIMP:

1. Required only if F23GAIT=4.

F23CRBLR ----- CEREBELLAR FUNCTION RIGHT

type: numeric (float)
 label: F23CRBLR

range: [1,8] units: 1
 unique values: 8 coded missing: 72 / 930

tabulation:	Freq.	Numeric	Label
	5	1	ABN FING-NOSE(1)
	9	2	ABN HEEL-SHIN(2)
	2	3	
	39	4	ABN RAPID MOV(4)
	13	5	
	38	6	
	118	7	
	634	8	NORMAL (8)

F23CRBLR:

1. Binary coded variable. See Part II for explanation of binary coded variables.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 3
CSSCD FULL COHORT PATIENTS

F23CRBLL ----- CEREBELLAR FUNCTION LEFT

type: numeric (float)
label: F23CRBLL

range: [1,8] units: 1
unique values: 8 coded missing: 73 / 930

tabulation:	Freq.	Numeric	Label
	5	1	ABN FING-NOSE(1)
	13	2	ABN HEEL-SHIN(2)
	4	3	
	46	4	ABN RAPID MOV(4)
	8	5	
	31	6	
	100	7	
	650	8	NORMAL (8)

F23CRBLL:

1. Binary coded variable. See Part II for explanation of binary coded variables.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
 CSSCD FULL COHORT PATIENTS

F23BICR ----- BICEPS REFLEXES RIGHT

type: numeric (float)
 label: F23BICR

range: [1,3] units: 1
 unique values: 3 coded missing: 17 / 930

tabulation:	Freq.	Numeric	Label
	717	1	NORMAL
	36	2	ABSENT-HYPOACTIVE
	160	3	HYPERACTIVE

F23BICL ----- BICEPS REFLEXES LEFT

type: numeric (float)
 label: F23BICL

range: [1,3] units: 1
 unique values: 3 coded missing: 29 / 930

tabulation:	Freq.	Numeric	Label
	694	1	NORMAL
	43	2	ABSENT-HYPOACTIVE
	164	3	HYPERACTIVE

F23TRICR ----- TRICEPS REFLEXES RIGHT

type: numeric (float)
 label: F23TRICR

range: [1,3] units: 1
 unique values: 3 coded missing: 21 / 930

tabulation:	Freq.	Numeric	Label
	715	1	NORMAL
	37	2	ABSENT-HYPOACTIVE
	157	3	HYPERACTIVE

F23TRICL ----- TRICEPS REFLEXES LEFT

type: numeric (float)
 label: F23TRICL

range: [1,3] units: 1
 unique values: 3 coded missing: 37 / 930

tabulation:	Freq.	Numeric	Label
	686	1	NORMAL
	41	2	ABSENT-HYPOACTIVE
	166	3	HYPERACTIVE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
 CSSCD FULL COHORT PATIENTS

F23ULNR ----- ULNAR REFLEXES RIGHT

type: numeric (float)
 label: F23ULNR

range: [1,3] units: 1
 unique values: 3 coded missing: 32 / 930

tabulation:	Freq.	Numeric	Label
	708	1	NORMAL
	34	2	ABSENT-HYPOACTIVE
	156	3	HYPERACTIVE

F23ULNL ----- ULNAR REFLEXES LEFT

type: numeric (float)
 label: F23ULNL

range: [1,3] units: 1
 unique values: 3 coded missing: 44 / 930

tabulation:	Freq.	Numeric	Label
	684	1	NORMAL
	38	2	ABSENT-HYPOACTIVE
	164	3	HYPERACTIVE

F23RADR ----- RADIAL REFLEXES RIGHT

type: numeric (float)
 label: F23RADR

range: [1,3] units: 1
 unique values: 3 coded missing: 24 / 930

tabulation:	Freq.	Numeric	Label
	712	1	NORMAL
	35	2	ABSENT-HYPOACTIVE
	159	3	HYPERACTIVE

F23RADL ----- RADIAL REFLEXES LEFT

type: numeric (float)
 label: F23RADL

range: [1,3] units: 1
 unique values: 3 coded missing: 36 / 930

tabulation:	Freq.	Numeric	Label
	688	1	NORMAL
	42	2	ABSENT-HYPOACTIVE
	164	3	HYPERACTIVE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
 CSSCD FULL COHORT PATIENTS

F23KNEER ----- KNEE REFLEXES RIGHT

type: numeric (float)
 label: F23KNEER

range: [1,3] units: 1
 unique values: 3 coded missing: 23 / 930

tabulation:	Freq.	Numeric	Label
	685	1	NORMAL
	51	2	ABSENT-HYPOACTIVE
	171	3	HYPERACTIVE

F23KNEEL ----- KNEE REFLEXES LEFT

type: numeric (float)
 label: F23KNEEL

range: [1,3] units: 1
 unique values: 3 coded missing: 37 / 930

tabulation:	Freq.	Numeric	Label
	671	1	NORMAL
	50	2	ABSENT-HYPOACTIVE
	172	3	HYPERACTIVE

F23ANKLR ----- ANKLE REFLEXES RIGHT

type: numeric (float)
 label: F23ANKLR

range: [1,3] units: 1
 unique values: 3 coded missing: 25 / 930

tabulation:	Freq.	Numeric	Label
	696	1	NORMAL
	49	2	ABSENT-HYPOACTIVE
	160	3	HYPERACTIVE

F23ANKLL ----- ANKLE REFLEXES LEFT

type: numeric (float)
 label: F23ANKLL

range: [1,3] units: 1
 unique values: 3 coded missing: 41 / 930

tabulation:	Freq.	Numeric	Label
	674	1	NORMAL
	52	2	ABSENT-HYPOACTIVE
	163	3	HYPERACTIVE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
CSSCD FULL COHORT PATIENTS

F23PLNRR ----- PLANTAR REFLEXES RIGHT

type: numeric (float)
label: F23PLNRR

range: [1,3] units: 1
unique values: 3 coded missing: 34 / 930

tabulation:	Freq.	Numeric	Label
	757	1	NORMAL
	111	2	ABNORMAL
	28	3	CLONUS

F23PLNRL ----- PLANTAR REFLEXES LEFT

type: numeric (float)
label: F23PLNRL

range: [1,3] units: 1
unique values: 3 coded missing: 36 / 930

tabulation:	Freq.	Numeric	Label
	742	1	NORMAL
	117	2	ABNORMAL
	35	3	CLONUS

F23PAIN ----- PAIN PRESENT

type: numeric (float)
label: F23PAIN

range: [1,2] units: 1
unique values: 2 coded missing: 48 / 930

tabulation:	Freq.	Numeric	Label
	844	1	NORMAL
	38	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
 CSSCD FULL COHORT PATIENTS

F23SPAIN ----- NUMBER OF SITES WITH PAIN

type: numeric (float)
 range: [1,9] units: 1
 unique values: 5 coded missing: 903 / 930

tabulation:	Freq.	Value
	1	1
	8	2
	9	3
	8	4
	1	9

F23SPAIN:

1. Required only if F23PAIN=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

F23TACT ----- TACTILE SITE ABNORMALITIES

type: numeric (float)
 label: F23TACT
 range: [1,2] units: 1
 unique values: 2 coded missing: 66 / 930

tabulation:	Freq.	Numeric	Label
	821	1	NORMAL
	43	2	ABNORMAL

F23STACT ----- NUMBER OF SITES W TACTILE ABNORMALITIES

type: numeric (float)
 range: [1,9] units: 1
 unique values: 5 coded missing: 896 / 930

tabulation:	Freq.	Value
	4	1
	13	2
	7	3
	9	4
	1	9

F23STACT:

1. Required only if F23TACT=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
 CSSCD FULL COHORT PATIENTS

F23POSIT ----- POSITION ABNORMALITIES

type: numeric (float)
 label: F23POSIT

range: [1,2] units: 1
 unique values: 2 coded missing: 79 / 930

tabulation:	Freq.	Numeric	Label
	810	1	NORMAL
	41	2	ABNORMAL

F23SPOSI ----- NUMBER OF SITES WITH POSITION ABNORMAL

type: numeric (float)

range: [1,9] units: 1
 unique values: 5 coded missing: 895 / 930

tabulation:	Freq.	Value
	11	1
	12	2
	6	3
	5	4
	1	9

F23SPOSI:

1. Required only if F23POSIT=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

F23VIBR ----- VIBRATION

type: numeric (float)
 label: F23VIBR

range: [1,2] units: 1
 unique values: 2 coded missing: 93 / 930

tabulation:	Freq.	Numeric	Label
	801	1	NORMAL
	36	2	ABNORMAL

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT - PAGE 4
CSSCD FULL COHORT PATIENTS

F23SVIBR ----- NUMBER SITES WITH VIBRATION

type: numeric (float)
range: [1,9] units: 1
unique values: 5 coded missing: 901 / 930

tabulation:	Freq.	Value
	7	1
	11	2
	5	3
	5	4
	1	9

F23SVIBR:

1. Required only if F23VIBR=2.
2. Number of abnormal sites rather than locations of abnormalities were entered.

F23TYPE ----- TYPE CODE OF ASSOCIATED EVENT

type: numeric (float)
label: F23TYPE
range: [40,90] units: 1
unique values: 4 coded missing: 0 / 930

tabulation:	Freq.	Numeric	Label
	197	40	SEIZURES
	132	42	MENINGITIS
	588	44	CVA
	13	90	OTHER

F23TYPE:

1. Computed variable.

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
 CSSCD FULL COHORT PATIENTS

F23SEQ ----- SEQUENCE NUMBER OF FOLLOW-UP

type: numeric (float)

range: [1,12] units: 1
 unique values: 12 coded missing: 0 / 930

tabulation:	Freq.	Value
	483	1
	197	2
	109	3
	66	4
	38	5
	19	6
	8	7
	5	8
	2	9
	1	10
	1	11
	1	12

F23SEQ:

1. Computed variable.

_dta:

1. Created 06/27/00.

K. List of variables deleted **F28DATE F28LASTU F28FCB**

L. List of variables modified **NONE**

M. List of variables modified with a name change **NONE**

N. Old name

O. New name

P. List of variables modified date to days since DOE

Q. Old name **F28DATE**

R. New name **JF28DATE**

S. Collection Information:

The **Denver Developmental Screening Test (DDST)** was to be completed at each routine study visit of children 5 years of age or younger between 3/79 and 10/83. However, because of the difficulty encountered in certifying examiners at the clinical sites due to lack of attention to the detail necessary to achieve standardized

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

results, DDST exams performed prior to June 1981 were considered invalid. After that time, exams completed by examiners who received training from Alma Fandal at the Health Sciences Center at the University of Colorado in Denver, completed exam proficiency testing, and passed the DDST Proficiency Exam which was scored centrally by Dr. Fandal were considered acceptable. The schedule for DDST administration was modified so that the test was to be performed twice each year for children less than three years (at ages 6, 12, 18, 24, 30, 36 months) and once each year for four and five year olds. Thirteen pediatric centers had approved DDST administrators.

The goals of the study were to determine the incidence of developmental delays in children with sickle cell disease and to study the pattern of such delays over time. In November 1982, the SCC Project Director determined that, if at least one DDST study was collected on each child at those clinical centers staffing approved testers, the incidence of developmental delays could be effectively estimated in the sample of children tested.

T. Data Collection Period: 03/79 – 10/83

U. Form Version Dates: N/A

V. Files Used to Store Information:

SAS System Files: **R28.SD2**

Format Files: **R28.FMT**

W. Unique Record Identifiers: **ANONID, F28DATE**

Records within the dataset are sorted by **ANONID** and **F28DATE**

X. Number of Observations (Patients) in SAS Dataset: 1708 (584)

Y. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See p. 1
- Listing of Variables by Position: See p. 2

Z. Notes About Selected Variables: None

AA. Computed Variables: None

CODEBOOK FOR CSSCD FORM 13
 NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
 FOLLOWING A NEUROLOGICAL EVENT
 CSSCD FULL COHORT PATIENTS

BB. Inter-Relationship With Other Datasets: N/A

CONTENTS OF SAS DATASET: R28.SD2
 DATA FROM CSSCD "FORM" 28 - DENVER DEVELOPMENTAL SCREENING TEST (DDST)
 VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
 IN THE SAS DATASET

The SAS System 10:22 Tuesday, October 31, 2006 2

The CONTENTS Procedure

Data Set Name	OUT1.R28	Observations	1708
Member Type	DATA	Variables	7
Engine	V9	Indexes	0
Created	14:14 Tuesday, October 24, 2006	Observation Length	56
Last Modified	14:14 Tuesday, October 24, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	8192
Number of Data Set Pages	13
First Data Page	1
Max Obs per Page	145
Obs in First Data Page	112
Number of Data Set Repairs	0
File Name	r28.sas7bdat
Release Created	9.0000M0
Host Created	XP_PRO

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
1	ANONID	Char	8	ANONYMIZED ID #
4	F28FMOT	Num	8	FINE MOTOR-ADAPTIVE DELAYS
6	F28GMOT	Num	8	GROSS MOTOR DELAYS
5	F28LANG	Num	8	LANGUAGE DELAYS
2	F28OVER	Num	8	OVERALL TEST SCORE
3	F28PERS	Num	8	PERSONAL-SOCIAL DELAYS
7	JF28DATE	Num	8	DATE OF TEST - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

```
*****  
*****  
* R28.FMT contains value labels for numerical codes assigned to  
categorical *  
* variables in the SAS dataset R28.SD2  
*  
*****  
*****;
```

```
* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 07/01/99 14:06:08;
```

```
PROC FORMAT;
```

```
* FORMAT F28OVER IS DEFINED FOR VARIABLE F28OVER;
```

```
VALUE F28OVER  
  1          = 'NORMAL'  
  2          = 'QUESTIONABLE'  
  3          = 'ABNORMAL'  
  4          = 'UNTESTABLE'  
  5          = 'UNABLE TO INTERPRET';
```

```
* FORMAT F28PERS IS DEFINED FOR VARIABLES F28PERS F28FMOT F28LANG  
F28GMOT;
```

```
VALUE F28PERS  
  9          = 'QUESTIONABLE DELAYS';
```

```
* FORMAT  
  F28OVER F28OVER.  
  F28PERS F28FMOT F28LANG F28GMOT F28PERS.;
```

```
RUN;
```

```
QUIT;
```

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

CODEBOOK FOR CSSCD FORM 13
 NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
 FOLLOWING A NEUROLOGICAL EVENT
 CSSCD FULL COHORT PATIENTS

F28OVER ----- OVERALL TEST SCORE

type: numeric (float)
 label: F28OVER
 range: [1,5] units: 1
 unique values: 5 coded missing: 0 / 1708
 tabulation:

Freq.	Numeric	Label
1376	1	NORMAL
76	2	QUESTIONABLE
19	3	ABNORMAL
24	4	UNTESTABLE
213	5	UNABLE TO INTERPRET

F28PERS ----- PERSONAL-SOCIAL DELAYS

type: numeric (float)
 label: F28PERS
 range: [0,9] units: 1
 unique values: 6 coded missing: 0 / 1708
 tabulation:

Freq.	Numeric	Label
1588	0	
46	1	
4	2	
1	3	
1	4	
68	9	QUESTIONABLE DELAYS

F28FMOT ----- FINE MOTOR-ADAPTIVE DELAYS

type: numeric (float)
 label: F28FMOT
 range: [0,9] units: 1
 unique values: 6 coded missing: 0 / 1708
 tabulation:

Freq.	Numeric	Label
1510	0	
71	1	
21	2	
5	3	
2	4	
99	9	QUESTIONABLE DELAYS

F28LANG ----- LANGUAGE DELAYS

type: numeric (float)
 label: F28LANG
 range: [0,9] units: 1
 unique values: 7 coded missing: 0 / 1708
 tabulation:

Freq.	Numeric	Label
1489	0	
68	1	
17	2	
6	3	
2	4	
1	5	

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

125

9 QUESTIONABLE DELAYS

CODEBOOK FOR CSSCD FORM 13
NEUROLOGICAL EVALUATION FORM COMPLETED AT TIME OF OR
FOLLOWING A NEUROLOGICAL EVENT
CSSCD FULL COHORT PATIENTS

F28GMOT ----- GROSS MOTOR DELAYS

type: numeric (float)
label: F28GMOT

range: [0,9] units: 1
unique values: 7 coded missing: 0 / 1708

tabulation:	Freq.	Numeric	Label
	1523	0	
	61	1	
	18	2	
	8	3	
	2	4	
	1	5	
	95	9	QUESTIONABLE DELAYS

_dta:

1. Created 8/9/2000.