

7.5.0: Neurological Events – Overview

A. CSSCD Forms (collection) and Records (storage) Relating to Events:

<u>Form #</u>	<u>Name of Form</u>	<u>Collected</u>	<u>Patient Population</u>	<u>SAS Dataset</u>
40	Seizures	03/01/79- 06/01/86	All	R40.SD2
		06/01/86- 12/31/86	Patients Entered at < 6 Months of Age	
42	Meningitis	03/01/79- 06/01/86	All	R42.SD2
		06/01/86- 12/31/86	Patients Entered at < 6 Months of Age	
44	Cerebrovascular Accident	03/01/79- 06/01/86	All	R44.SD2
		06/01/86- 12/31/86	Patients Entered at < 6 Months of Age	
53	Comprehensive Special Event Form for Patients Entered at < 6 Months of Age	01/01/87- 09/30/88	Patients Entered at < 6 Months of Age	R53.SD2
--	CSSCD Stroke Questionnaire	09/15/86- 09/30/87	Patients who had CVA events before and/or after study entry	R41.SD2
--	CVA Summary	03/01/79- 09/30/88	All	R88.SD2
45	Cerebrovascular Accident & Meningitis Flow Sheet	03/01/79- 06/01/86	All	R45.SD2
		06/01/86- 12/31/86	Patients Entered at < 6 Months of Age	
52	Acute Event Treatment Follow-up Form	03/01/79- 06/01/86	All	R52.SD2
		06/01/86- 12/31/86	Patients Entered at < 6 Months	

B. Definition of Events

1. Seizures [See Section 7.5.1]

Major or minor motor seizures or psychomotor seizures which are not secondary to central nervous system infection, tumor, or stroke.

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Seizure disorder:

Transient electrical abnormality of a localized area of the brain resulting in involuntary movements, altered perception, or altered state of consciousness.

2. Meningitis [See Section 7.5.2]

Inflammation of the meninges caused by an infectious agent as demonstrated by lumbar puncture abnormalities and cultures.

3. Cerebrovascular Accident (CVA) [See Sections 7.5.3, 7.5.4, 7.5.6]

Acute neurologic syndrome secondary to occlusion of an artery or hemorrhage with resultant ischemic and neurologic symptoms and signs.

Types of CVA:

- **Transient Ischemic Attack (TIA):**
Neurologic signs with vascular distribution that clear within 24 hours (48 hours if basilar system is involved)
- **“Thrombotic” (infarctive):**
Completed stroke due to occlusion of vessel(s) by thrombus or embolus or to vessel spasm
- **“Hemorrhagic” (intracerebral hemorrhage):**
Completed stroke due to hemorrhage (e.g., subarachnoid, subdural, intracerebral, aneurysm)

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- A. List of variables deleted **F40DATE F40INIT F40NDATE F40LASTU F40LASTE
F40ESTAT F40VDATE F40DFC F40FCB**
- 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 **F40DATE**
- H. New name **JF40DATE**
- I. Collection Information:

Form 40 (Seizures) was filled out whenever a study patient entered the clinic, emergency room, or hospital at a study institution with major or minor motor or psychomotor seizures. According to the CSSCD Manual of Operations (MOO), however, a Form 40 was not required for:

1. a seizure which was secondary to meningitis, tumor, or stroke
2. repeated incidents of the same type of seizure – i.e., Form 40 was to be completed only for initial work-up for the first occurrence of a type of seizure. If the patient experienced a different type of seizure, Form 40 was to be used for only the initial work-up also.

Neither of these restrictions was enforced or followed—i.e., 1) forms for seizures which were secondary to meningitis and CVA were completed and accepted to the database, 2) multiple forms for the same type of seizure may be present on the database—in fact, information regarding the type of seizure was not even collected.

- J. Data Collection Period: 03/79 – 12/86

Form 40 was used between 03/79 and 06/86 for all cohorts and continued to be used for patients entered at < 6 months of age through 12/86.

- K. Form Version Dates: 03/01/79, 10/10/80

- L. Files Used to Store Information:

SAS System File: **R40.SD2**

Format File: **R40.FMT**

- M. Unique Record Identifiers: **ANONID, F40DATE**

Records within the SAS dataset are sorted by **ANONID** and **F40DATE**.

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N. Number of Observations (Patients) in SAS Dataset: 115 (93)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See p. 454
- Listing of Variables by Position: See p. 455

P. Notes About Selected Variables:

- **F40EVENT** – is a concatenated variable consisting of 4 2-digit codes which identify forms completed in addition to Form 40; values are left-justified so that if there were fewer than 4 associated event forms completed, there will be trailing zeroes—e.g., a value of '84000000' means that only a transfusion form (Form 84) was completed in association with the Form 40.

Q. Computed Variables:

- **F40FRM13** – is the variable which indicates whether a Neurologic Evaluation form (Form 13, SAS Dataset **R23.SD2**) was completed within two weeks of the event. The value was derived by searching through “Record 23s” between **F40DATE** (the date patient first sought care for the event) and **F40DATE** + 14 and making **F40FRM13** equal to “2” if a “Record 23” was found within this time period—i.e., if $0 \leq \text{F23DATE} - \text{F40DATE} \leq 14$. If the patient was ≥ 3 years of age at the time of the event and a “Record 23” was not found within the 14 day time period, the value of **F40FRM13** was computed as “1”. Neurologic Evaluation forms (Form 13) were not required for the events occurring at < 3 years of age; as a result, the value of **F40FRM13** will be missing if the patient was < 3 years of age and a Form 13 was not completed [See Section 6.1].
- **F40FRM52** – is the associated event code number (**F52TYPE**) entered on the Acute Treatment Follow-up record (SAS dataset **R52.SD2**) which links with “Record 40” by date patient first sought care for the event (**F52DATE=F40DATE**). Values for **F40FRM52** were derived by linking “Record 40” with “Record 52” by date patient first sought care and making **F40FRM52** equal to the value of **F52TYPE**. The only valid values of **F52TYPE** are 30 (pain), 32 (acute chest), 34 (RUQ), 36 (skeletal & joint), 38 (hand/foot), 40 (seizures), 42 (acute anemic event), 48 (acute febrile event), 50 (priapism). However, the variable **F40FRM52** may also have a value of “31” or “33” if “Record 40” did not link with a “Record 52” but did link with either a 31 (pain/skel & joint flow sheet) or

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a 33 (acute chest flow sheet)—i.e., the seizure event was associated with one of these events and the flow sheet used (31 or 33) collected the same information as “Record 52” regarding treatment and outcome.

Note: Form 52 was not required for seizures. However, the variable was included on all acute event record schemas.

R. Inter-Relationship With Other Datasets:

1. Seizure event data were also collected on

Phase 1 Forms	SAS Dataset
Form 53	R53.SD2

[See Section 7.9]

Form 53, the Comprehensive Special Event Form For Patients Entered At < 6 Months of Age, was used to continue collection of seizure event information on the newborn cohort from 01/01/87 through the end of Phase 1.

2. Treatment follow-up information for seizure events which were reported on Form 40 were collected on

Phase 1 Form	SAS Dataset
Form 52	R52.SD2

Form 52 is the Acute Event Treatment Follow-up form. This form, which contains information regarding treatment, resolution of symptoms, and final diagnosis, was not required for seizure events. However, about 1/3 of the “Record 40s” have a “Record 52” which links to it by date patient first sought care for the event (i.e., **F52DATE=F40DATE**).

The linking variable for a “Record 40” and “Record 52” is date patient first sought care (i.e., if **F52DATE=F40DATE**).

If the value of **F40FRM52** is “31”, “Record 40” should be linked by date to “Record 31” (rather than “Record 52”) to obtain information regarding treatment, resolution of symptoms, etc [See Section 7.1.4]. If the value of **F40FRM52** is “33”, “Record 40” should be linked by date to “Record 33” (rather than “Record 52”) to obtain information about treatment, etc [See Section 7.2.3]. More than one “Record 31” (or “Record 33”) may link with (i.e., have the same date as) “Record 40” depending on the length of hospitalization. If this is the case, the treatment, resolution of symptoms, and final diagnosis summary data will, in most instances, be recorded only on the last record which links (i.e., the record with

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the highest “F31SHEET” number or the record with the highest “F33SHEET” number).

Form 52 in described in detail in Section 7.10.

3. Other sources which collect information about seizures

SAS Dataset

“Patient Roster”	R09.SD2
Form 10	R10.SD2
Form 14	R14.SD2
Form 15	R15.SD2
Forms 17, 19, 20, 21, 24	R1722.SD2
Form 25	R25.SD2
Form 13	R13.SD2, F23.SD2
Form 42	R42.SD2
Form 44	R44.SD2

The table below summarizes the data collected on these forms which pertain to seizures:

<u>Form #</u>	<u>Form Name</u>	<u>SAS Dataset</u>	<u>Type of Information Collected</u>	<u>Variable Name</u>
10	Past Medical History	R10.SD2	Patient/family history of seizures, use of anti-seizure medication prior to entry	F10SEIZ F10HSEIZ F10MOTHC*
14	Young Infant Form	R14.SD2	Family history of seizures, neonatal convulsions, tremors	F15HSEIZ F15CNVL F14TRMR
15	Infant Past Medical History	R15.SD2	Patient/family history of seizures prior to entry, neonatal convulsions, tremors	F15SEIZ F15HSEIZ F15CNVL F15TRMR
17, 19, 20, 21, 24	Routine visit forms	R1722.SD2	Occurrence of seizures since last routine study visit, use of anti-seizure medication	F17SEIZ F17SEIZ1-4* F17MDCDE*
25	Extension Annual Visit	R25.SD2	Occurrence of seizures in last 12 months, use of anti-seizure medication	F25SEIZ F25SEIZ1-4 F25SEIZM1-4* F25MDCDE*
13	Neurologic Evaluation	R13.SD2 R23.SD2	Neurologic exam data	All
42	Meningitis	R42.SD2	Seizures at time of meningitis	F42SEIZ F42SEIZS F42NSEIZ

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				F42COMP
44	Cerebrovascular Accident	R44.SD2	Seizures within week prior to CVA	F44HIST1
--	"Patient Roster"	R09.SD2	Neurologic event status (before and/or after entry)	SEIZSTAT MENSTAT CVASTAT

* Look for DRUG LIST codes 191 (dilantin, 512 (phenoarbital)

**CODEBOOK FOR CSSCD FORM 40
SEIZURES**

CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R40.SD2
DATA FROM CSSCD FORM 40 - SEIZURES
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FO

The SAS System 10:38 Friday, December 8, 2006 5

The CONTENTS Procedure

Data Set Name	OUT1.R40	Observations	115
Member Type	DATA	Variables	8
Engine	V9	Indexes	0
Created	11:17 Monday, December 4, 2006	Observation Length	64
Last Modified	11:17 Monday, December 4, 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	2
First Data Page	1
Max Obs per Page	127
Obs in First Data Page	96
Number of Data Set Repairs	0
File Name	r40.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 #
3	F40DIAG1	Num	8	FINAL DIAGNOSIS
4	F40DIAG2	Num	8	2ND FINAL DIAGNOSIS
5	F40DIAG3	Num	8	3RD FINAL DIAGNOSIS
2	F40EVENT	Num	8	ASSOCIATED EVENTS
6	F40FRM13	Num	8	IS THERE A 13 FOR THIS EVENT
7	F40FRM52	Num	8	IS THERE A 52 ON THE DATABASE
8	JF40DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 40

SEIZURES

CSSCD FULL COHORT PATIENTS

* R40.FMT contains value labels for numerical codes assigned to
categorical *
* variables in the SAS dataset R40.SD2
*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 11/14/98 11:04:22;

PROC FORMAT;

* FORMAT DIAGF is used for the following variables: F40DIAG1 F40DIAG2
F40DIAG3;

VALUE DIAGF

- 1 = 'ALCOHOL WITHDRAWAL'
- 2 = 'NARCOTIC WITHDRAWAL'
- 3 = 'BARBITUATE WITHD.'
- 4 = 'ALCOHOL INTOXICATION'
- 5 = 'DRUG INTOXICATION'
- 6 = 'ACUTE LEAD INTOX.'
- 7 = 'HEAD INJURY'
- 8 = 'CEREBROVASCULAR ACC.'
- 9 = 'BENIGN FEBRILE ILL.'
- 10 = 'EPILEPSY STOPPED MED.'
- 11 = 'EPILEPSY INAD. MED.'
- 12 = 'NEW EPILEPSY'
- 13 = 'BACTERIAL MENINGITIS'
- 14 = 'ASEPTIC MENINGITIS'
- 15 = 'METABOLIC'
- 16 = 'BRAIN TUMOR'
- 17 = 'OTHER';

* FORMAT NO_YES is used for the variable F40FRM13;

VALUE NO_YES

- 1 = 'NO'
- 2 = 'YES';

* FORMAT

F40DIAG1 F40DIAG2
F40DIAG3 DIAGF.
F40FRM13 NO_YES.;

RUN;
QUIT;

CODEBOOK FOR CSSCD FORM 40

SEIZURES

CSSCD FULL COHORT PATIENTS

7.5.2: Meningitis – Form 42

F40VDATE ----- VERSION DATE **DELETED**

type: numeric daily date (int)
label: datelab

range: [6999,7588] units: 1
or equivalently: [01mar1979,10oct1980] units: days
unique values: 2 coded missing: 0 / 115

tabulation:	Freq.	Numeric	Label
	15	6999	03/01/79
	100	7588	10/10/80

F40EV1 ----- ASSOCIATED EVENT 1

type: string (str12)

unique values: 20 coded missing: 0 / 115

tabulation:	Freq.	Value
	7	"0"
	20	"A"
	1	"11"
	6	"13"
	1	"17"
	14	"30"
	7	"32"
	2	"36"
	1	"40"
	2	"42"
	9	"44"
	3	"46"
	11	"48"
	1	"50"
	10	"54"
	1	"62"
	1	"82"
	2	"83"
	14	"84"
	2	"90"

F40EV1:

1. See Appendix L for clinical event codes.
2. Computed variable $\bar{\pi}$ not saved in .SD2 file; see F40EVENT.

F40EV2 ----- ASSOCIATED EVENT 2

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type: string (str12)

unique values: 17

coded missing: 60 / 115

tabulation:	Freq.	Value
	8	"00"
	4	"13"
	2	"31"
	2	"32"
	1	"33"
	2	"34"
	1	"36"
	1	"40"
	2	"44"
	3	"46"
	5	"48"
	1	"49"
	4	"54"
	1	"60"
	2	"62"
	1	"83"
	15	"84"

F40EV2:

1. See Appendix L for clinical event codes.
2. Computed variable $\bar{\pi}$ not saved in .SD2 file; see F40EVENT.

F40EV3 ----- ASSOCIATED EVENT 3

type: string (str12)

unique values: 14

coded missing: 79 / 115

tabulation:	Freq.	Value
	8	"00"
	3	"13"
	2	"30"
	1	"31"
	1	"35"
	1	"36"
	1	"44"
	1	"45"
	2	"46"
	1	"49"
	1	"60"
	3	"83"
	10	"84"
	1	"90"

F40EV3:

1. See Appendix L for clinical event codes.
2. Computed variable $\bar{\pi}$ not saved in .SD2 file; see F40EVENT.

F40EV4 ----- ASSOCIATED EVENT 4

type: string (str12)

7.5.2: Meningitis – Form 42

unique values: 8

coded missing: 94 / 115

tabulation:	Freq.	Value
	10	"00"
	1	"32"
	2	"48"
	3	"52"
	1	"54"
	1	"83"
	2	"84"
	1	"90"

F40EV4:

1. See Appendix L for clinical event codes.
2. Computed variable $\bar{\pi}$ not saved in .SD2 file; see F40EVENT.

F40DIAG1 ----- FINAL DIAGNOSIS

type: numeric (float)
label: F40DIAG1

range: [1,17] units: 1
unique values: 11 coded missing: 9 / 115

tabulation:	Freq.	Numeric	Label
	2	1	ALCOHOL WITHDRAWAL
	1	2	NARCOTIC WITHDRAWAL
	3	5	DRUG INTOXICATION
	15	8	CEREBROVASCULAR ACC.
	9	9	BENIGN FEBRILE ILL.
	10	10	EPILEPSY STOPPED MED.
	11	11	EPILEPSY INAD. MED.
	14	12	NEW EPILEPSY
	2	13	BACTERIAL MENINGITIS
	3	15	METABOLIC
	36	17	OTHER

F40DIAG1:

1. Not collected before 10/10/80, so final diagnosis may be missing for events collected on the early version of FORM 40 if information was not retrieved when form was edited.

F40DIAG2 ----- 2ND FINAL DIAGNOSIS

type: numeric (float)
label: F40DIAG2

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range: [10,17] units: 1
unique values: 4 coded missing: 105 / 115

tabulation:	Freq.	Numeric	Label
	1	10	EPILEPSY STOPPED MED.
	1	12	NEW EPILEPSY
	1	15	METABOLIC
	7	17	OTHER

F40DIAG2:

1. Not collected before 10/10/80, so final diagnosis may be missing for events collected on the early version of FORM 40 if information was not retrieved when form was edited.

F40DIAG3 ----- 3RD FINAL DIAGNOSIS

type: numeric (float)
label: F40DIAG3

range: [17,17] units: 1
unique values: 1 coded missing: 114 / 115

tabulation:	Freq.	Numeric	Label
	1	17	OTHER

F40DIAG3:

1. Not collected before 10/10/80, so final diagnosis may be missing for events collected on the early version of FORM 40 if information was not retrieved when form was edited.

F40FRM13 ----- IS THERE A 13 FOR THIS EVENT

type: numeric (float)
label: F40FRM13

range: [1,2] units: 1
unique values: 2 coded missing: 9 / 115

tabulation:	Freq.	Numeric	Label
	59	1	NO
	47	2	YES

F40FRM13:

1. See section on computed variables.

F40FRM52 ----- IS THERE A 52 ON THE DATABASE

type: numeric (float)

range: [0,48] units: 1

7.5.2: Meningitis – Form 42

unique values: 8

coded missing: 0 / 115

tabulation:	Freq.	Value
	79	0
	3	31
	2	33
	1	36
	19	40
	3	44
	3	46
	5	48

F40FRM52:

1. See section on computed variables.

_dta:

1. Created 05/23/00.

- A. List of variables deleted **F42DATE F42INIT F42NDATE F42LASTU F42LASTE
F42ESTAT F42VDATE F42DFC F42FCB F42VODTE F42HDATE F42FDATE
F42SDATE F42ODATE F42IDATE F42PDATE F42SRGDT F42BLDTE
F42URDTE F42PITDT**
- 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 **F42DATE F42VODTE F42HDATE F42FDATE F42SDATE
F42ODATE F42IDATE F42PDATE F42SRGDT**
- H. New name **JF42DATE J42VODTE J42HDATE J42FDATE J42SDATE
J42ODATE J42IDATE J42PDATE J42SRGDT**
- I. Collection Information:
 Form 42 (Meningitis) was filled out whenever a study patient entered the clinic, emergency room, or hospital at a study institution with inflammation of the meninges caused by an infectious agent, as demonstrated by lumbar puncture abnormalities and culture.
- J. Data Collection Period: 03/79 – 12/86

7.5.2: Meningitis – Form 42

Form 42 was used between 03/79 and 06/86 for all cohorts and continued to be used for patients entered at < 6 months of age through 12/86.

K. Form Version Dates: 03/01/79, 05/07/79, 10/10/80

The codebook coincides with the most recent version of Form 42. However, some data collected on older versions of the form (but not on the most recent version) are also stored in SAS dataset.

L. Files Used to Store Information:

SAS System File: **R42.SD2**

Format File: **R42.FMT**

M. Unique Record Identifiers: **ANONID, F42DATE**

Records within the SAS dataset are sorted by **ANONID** and **F42DATE**.

N. Number of Observations (Patients) in SAS Dataset: 42 (40)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 468-471
- Listing of Variables by Position: See pp. 472-474

P. Notes About Selected Variables:

- **F42CBCWB** – is the variable name for CBC White Blood Cell Count. The value for this variable should be uncorrected for nucleated RBCs.
- **F42NRB** – is the variable name for nucleated RBCs. The field length for this variable is only two digits—if there were more than 100 nucleated RBCs/100 WBCs, a value of “99” was entered.
- **CBC WBC Differential** – values for one or more of the WBC differential variables (**F42DFPMN, F42DFBND, F42DFEOS, F42DFBAS, F42DFLYM, F42DFMON, F42DFMM, F42DFATC, F42DFPRO**) may be missing when the value should in fact be “0” since some clinic personnel just entered numbers for variables with non-zero values. If the sum of the differential variables with non-missing values is 100, the differential variables with missing values are assumed to have a value of “0”.
- **F42PNDTE, F42FLUDT** – are the variable names for dates pneumococcal and H. flu vaccines were received respectively. The values are stored as 4 digit integers consisting of month and year (“mmyy”) the vaccine was received.

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- **F42SFWB, F42SFRB** – are the variable names for CSF WBC and CSF RBC respectively. The units of measurement specified for these variables on Form 42 were inappropriate (___) . (___) x 10⁹/liter, (___) . (___) x 10¹²/liter respectively. In the SAS dataset, the values are stored as 5 and 6 digit integers respectively. However, because of the inappropriate units specified on Form 42 for these variables, it is difficult to determine whether the values recorded are the absolute number of cells or number of cells x 10⁹/ liter for WBC (or number of cells x 10¹²/liter for RBC). For example, a value of 15 could be 15 cells or 1500 cells. Because of the problems with these two variables, it would be better to dichotomize the values:
 - If **F42SFWB (F42SFRB) = 0**, then **F42SFWB (F42SFRB) = 0** (absent).
 - If **F42SFWB (F42SFRB) > 0**, then **F42SFWB (F42SFRB) = 1** (present).
- **F42SFPM, F42SFMO** – are variable names for CSF WBC pmns and CSF WBC monos respectively. The value recorded should be the proportion (%) of CSF WBC cells that were pmns, monos respectively. However, the value recorded on the form may in fact be # of cells rather than % of CSF WBC. Both variables have a field length of only 2 digits; “99” was entered if the proportion was 100%.

Q. Computed Variables:

- **F42FRM13** – is the variable which indicates whether a Neurologic Evaluation form (Form 13, SAS dataset **R23.SD2**) was completed within two weeks of the event. The value was derived by searching through “Record 23s” between **F42DATE** (the date patient first sought care for the event) and **F42DATE + 14** and making **F42FRM13** equal to “2” if a “Record 23” was found within this time period—i.e., if $0 \leq \mathbf{F23DATE} - \mathbf{F42DATE} \leq 14$. If the patient was ≥ 3 years of age at the time of the event and a “Record 23” was not found within the 14 day time period, the value of **F42FRM13** was computed as “1”. Neurologic Evaluation forms (Form 13) were not required for events occurring at < 3 years of age; as a result, the value of **F42FRM13** will be missing if the patient was < 3 years of age and a Form 13 was not completed [See Section 6.1].
- **F42FLOWS** – is the variable name for number of follow-up flow sheets (form 45s) associated with a given meningitis event. The value for this variable was derived by linking “Record 45(s)” with “Record 42” by date patient first sought

7.5.2: Meningitis – Form 42

- care for the meningitis event (**F45DATE=F42DATE**) and counting the number of flow sheet records which linked.
- **F42DHOSP** – is the variable name for number of days patient was hospitalized or seen daily for the event. The number of days “hospitalized” was derived by linking the flow sheet record(s) (“Record 45”) with “Record 42” by date patient first sought care for the meningitis event (**F45DATE=F42DATE**), identifying the last flow sheet record (i.e., the one with the highest **F45SHEET** value) and using the last non-missing value of the **F45DTE**x variables on that record as the date (“mm/dd” date format) of discharge. The ‘mm/dd/yy’ date equivalent was computed for the “mm/dd” discharge date and **F42DATE** was subtracted from this date to obtain the number of days hospitalized.
 - **F42FRM52** – is the associated event code number (**F52TYPE**) entered on the Acute Treatment Follow-up record (SAS dataset **R52.SD2**) which links with “Record 42” by date patient first sought care for the event (**F52DATE=F42DATE**). Values for **F42FRM52** were derived on the database by linking “Record 42” with “Record 52” by date patient first sought care and making **F42FRM52** equal to the value of **F52TYPE**. The only valid values of **F52TYPE** are 30 (pain), 32 (acute chest), 34 (RUZ), 36 (skeletal & joint), 38 (hand/foot), 40 (seizures), 42 (meningitis), 44 (cva), 46 (acute anemic event), 48 (acute febrile event), 50 (priapism). However, the variable **F42FRM52** may also have a value of “31” or “33” if “Record 42” did not link with a Record 52 but did link with either a 31 (pain/skel & joint flow sheet) or a 33 (acute chest flow sheet)—i.e., the meningitis event was associated with one of these events and the flow sheet used (31 or 33) collected the same information as “Record 52” regarding treatment and outcome.
 - **F42PIT**, **F42PITDT** – are the variable names for pit count (pocked RBCs) and date of pit count respectively. Blood samples for quantitation of % circulating pocked RBCs were to be collected at the time of bacterial infection in order to assess splenic function. Pit count data are stored in **R07.SD2** [See Sections 5.2 and 7.7]. A pit count of $\geq 3.5\%$ is considered indicative of functional asplenia. Very few pit counts were done at the time of a meningitis event. The values of **F42PIT** and **F42PITDT** were derived by searching “Record 7s” with dates \leq **F42DATE**. If the pit count value at the closest preceding visit was $\geq 3.5\%$ and the patient was not transfused within four months preceding **F42DATE**, **F42PIT**

7.5.2: Meningitis – Form 42

- and **F42PITDT** were computed to be the values of **F07PIT**, **F07DATE** respectively from this record. If the pit count value at the closest preceding visit was < 3.5% and the visit (**F07DATE**) was within 60 days prior to the event (**F42DATE**) and the patient was not transfused within four months prior to **F42DATE** or **F07DATE**, **F42PIT** and **F42PITDT** were computed to be the values of **F07PIT**, **F07DATE** respectively from this record. If the pit count value at the time of the closest preceding visit was < 3.5% and the pit count value at the time of the closest visit following the event was < 3.5% and the patient was not transfused within four months preceding the date of either pit count, the values of **F42PIT**, **F42PITDT** were computed to be the values of **F07PIT**, **F07DATE** respectively from this record regardless of the interval between the preceding pit count date and **F42DATE**.
- **F42MCH** – is the variable name for mean corpuscular hemoglobin. The value for this variable was derived by multiplying the hemoglobin (**F42CBCHB**) by 10 and dividing by the number of red cells (**F42CBCRB**).
 - **F42MCHC** – is the variable name for mean corpuscular hemoglobin concentration. The value for this variable was computed by multiplying the hemoglobin (**F42CBCHB**) by 100 and dividing by the hematocrit (**F42CBCHC**).

R. Inter-Relationship With Other Datasets:

1. Meningitis event data were also collected on

Phase 1 Forms	SAS Dataset
Form 53	R53.SD2

[See Section 7.9]

Form 53, the Comprehensive Special Event Form For Patients Entered At < 6

Months of Age (stored in **R53.SD2**), was used to continue collection of meningitis

event information on the newborn cohort from 01/01/87 through the end of the Phase 1.

2. Follow-up and treatment information for meningitis events which were reported on Form 42 were collected on

Phase 1 Forms	SAS Dataset
Form 45	R45.SD2

7.5.2: Meningitis – Form 42

Form 52

R52.SD2

Both of the above “records” should be linked to the appropriate meningitis event “Record 42” by the date patient first sought care for the event (i.e., if **F45DATE=F42DATE** or if **F52DATE=F42DATE**).

- a. Form 45 is the Cerebrovascular Accident and Meningitis Flow Sheet. Data collected on this form are stored in **R45.SD2**. The form was completed if a patient was either hospitalized or seen on a daily basis as an outpatient for a meningitis event. Each “Record 45” contains 6 days of hospital information. Consequently, multiple “Record 45s” may exist for a given meningitis event dependent on length of hospitalization.

“Record 45s” are sorted by ID# of patient (**ANONID**), date patient first sought care (**F45DATE**), and flow sheet number (**F45SHEET**) [See Section 7.5.5 for details.

- b. Form 52 is the Acute Event Treatment Follow-up form. Data collected on this form are stored in **R52.SD2**. This form, which was supposed to be completed for all meningitis events regardless of whether the patient was hospitalized, contains information regarding treatment, resolution of symptoms, and final diagnosis.

If the value of **F42FRM52** is “31”, “Record 42” should be linked by date to “Record 31” (rather than “Record 52”) to obtain information regarding treatment, resolution of symptoms, etc. [See Section 7.1.4]. If the value of **F42FRM52** is “33”, “Record 42” should be linked by date to “Record 33” (rather than “Record 52”) to obtain information about treatment, etc. [See Section 7.2.3]. More than one “Record 31” (or “Record 33”) may link with (i.e., have the same date as) “Record 42” depending on the length of hospitalization. If this is the case, the treatment, resolution of symptoms, and final diagnosis summary data will, in most instances, be recorded only on the last record which links (i.e., the record with the highest **F31SHEET** number or the record with the highest **F33SHEET** number).

3. Other sources which collect information about meningitis events

Form

SAS Dataset

Form 10

R10.SD2

Form 14

R14.SD2

7.5.2: Meningitis – Form 42

Form 15	R15.SD2
Form 13	R13.SD2, R23.SD2
Form 91	R91.SD2
“Patient Roster”	R09.SD2

The table below summarizes the data collected on these forms (records) which pertain to meningitis:

<u>Form #</u>	<u>Form Name</u>	<u>SAS Dataset</u>	<u>Type of Information Collected</u>	<u>Variable Name</u>
10	Past Medical History	R10.SD2	History of meningitis prior to entry	F10MENI
14	Young Infant Form	R14.SD2	Meningitis during neonatal period	F14MENI
15	Infant Past Medical History	R15.SD2	Meningitis during neonatal period or prior to entry	F15MENI F15HMENI
13	Neurologic Evaluation	R13.SD2 R23.SD2	Neurologic exam data	All
91	Cause of Death	R91.SD2	Cause of death, organism cultured in CSF, CSF pneumococcal serotype	F91CAUSE F91IMCSE F91MENOR F91MENSr
--	“Patient Roster”	R09.SD2	Meningitis status before and/or after study entry	MENSTAT

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R42.SD2
DATA FROM CSSCD FORM 42 - MENINGITIS
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 42
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Data Set Name	OUT1.R42	Observations	42
Member Type	DATA	Variables	105
Engine	V9	Indexes	0
Created	15:23 Monday, December 4, 2006	Observation Length	840
Last Modified	15:23 Monday, December 4, 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	4
First Data Page	1
Max Obs per Page	19
Obs in First Data Page	3
Number of Data Set Repairs	0
File Name	r42.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 #
18	F42ANTIB	Num	8	ANTIBIOTICS WITHIN LAST 3 DAYS
75	F42BLD1	Num	8	BLOOD CULTURE ORGANISM
76	F42BLD2	Num	8	BLOOD CULTURE ORGANISM
74	F42BLOOD	Num	8	BLOOD CULTURE RESULTS
32	F42BP1D	Num	8	DIASTOLIC BLOOD PRESSURE, 1ST READING
31	F42BP1S	Num	8	SYSTOLIC BLOOD PRESSURE,1ST READING
34	F42BP2D	Num	8	DIASTOLIC BLOOD PRESSURE,2ND READING
33	F42BP2S	Num	8	SYSTOLIC BLOOD PRESSURE, 2ND READING
41	F42CBCHB	Num	8	CBC HB G DL
42	F42CBCHC	Num	8	CBC HCT %
93	F42CBCMV	Num	8	CBC MCV (FL)
43	F42CBCRB	Num	8	CBC RBC (X 10(12) L)
44	F42CBCWB	Num	8	CBC WBC (X 10(9) L)
88	F42COMP	Num	8	COMPLICATIONS OF DISEASE
55	F42CORWB	Num	8	IS WBC UNCORRECTED FOR NRBC?
58	F42CSF	Num	8	WAS SPINAL TAP DONE?
68	F42CULT	Num	8	CSF ORGANISM PRESENT?

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

69	F42CULT1	Num	8	CSF CULTURE ORGANISM CODE
70	F42CULT2	Num	8	CSF CULTURE ORGANISM CODE
51	F42DFATC	Num	8	DIFFERENTIAL ATYPICAL CELLS
48	F42DFBAS	Num	8	DIFFERENTIAL BASOPHILS
46	F42DFBND	Num	8	DIFFERENTIAL BANDS
47	F42DFEOS	Num	8	DIFFERENTIAL EOSINOPHILS
49	F42DFLYM	Num	8	DIFFERENTIAL LYMPHOCYTES
52	F42DFMM	Num	8	DIFFERENTIAL MYELOCYTES - METAMYELOCYTES
50	F42DFMON	Num	8	DIFFERENTIAL MONOCYTES

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MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

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Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
45	F42DFPMN	Num	8	DIFFERENTIAL PMN
53	F42DFPRO	Num	8	DIFFERENTIAL PROMYELOCYTES
92	F42DHOSP	Num	8	NUMBER OF DAYS HOSPITALIZED
2	F42EVNT1	Num	8	CSSCD CODE OF RELATED EVENT
3	F42EVNT2	Num	8	CSSCD CODE OF RELATED EVENT
4	F42EVNT3	Num	8	CSSCD CODE OF RELATED EVENT
5	F42EVNT4	Num	8	CSSCD CODE OF RELATED EVENT
10	F42FEVER	Num	8	FEVER
90	F42FLOWS	Num	8	NUMBER OF FLOWSHEETS
26	F42FLREC	Num	8	RECORDS CONFIRM FLU IMMUN.
25	F42FLUDT	Num	8	FLU IMMUN. DATE
89	F42FRM13	Num	8	IS THERE A FORM 13 FOR THIS EVENT?
91	F42FRM52	Num	8	EVENT FORM 52 STORED WITH
66	F42GRAM	Num	8	GRAM STAIN DONE
67	F42GRAMS	Num	8	GRAM STAIN ORGANISM CODE
87	F42HBS	Num	8	HB S (%)
9	F42HEAD	Num	8	HEADACHE
16	F42HINJ	Num	8	HEAD INJURY WITHIN PRECEDING WEEK
6	F42HOSP	Num	8	PATIENT HOSPITALIZED
28	F42HTEMP	Num	8	HOW TEMPERATURE TAKEN
24	F42IMFLU	Num	8	RECEIVED H.INFLUENZA IMMUNIZATION
21	F42IMPNE	Num	8	RECEIVED PNEUMOCOCCAL IMMUNIZATION
13	F42INFEC	Num	8	INFECTION WITHIN PRECEDING WEEK
38	F42INFS	Num	8	SIGNS OF OTHER INFECTION
17	F42INJDT	Num	8	SEVERE HEAD INJURY DATE
95	F42MCH	Num	8	MCH
96	F42MCHC	Num	8	MCHC
19	F42MED1	Num	8	MEDICINE CODE #1
20	F42MED2	Num	8	MEDICINE CODE #2
54	F42NRB	Num	8	NUCLEATED RED BLOOD CELLS
37	F42NSEIZ	Num	8	NUMBER OF SEIZURES
40	F42OPF	Num	8	OTHER PHYSICAL FINDINGS
12	F42OTHR	Num	8	OTHER SYMPTOMS
14	F42PAIN	Num	8	PAIN WITHIN PRECEDING WEEK
80	F42PENDN	Num	8	WERE PENICILLIN LEVELS DONE?
81	F42PENDT	Num	8	PENICILLIN LEVEL DATE
39	F42PHYS	Num	8	PHYSICAL SIGNS
94	F42PIT	Num	8	PIT COUNT (%)
57	F42PLATE	Num	8	PLATELET COUNT (X 10(9) L)
22	F42PNDE	Num	8	PNEUM. IMMUN. DATE
85	F42PNEDT	Num	8	PNEUMOCOCCI TYPING DATE
84	F42PNTYP	Num	8	SEROTYPING DONE
35	F42POSNR	Num	8	LEVEL OF CONSCIOUSNESS-POSNER STAGE
23	F42PREC	Num	8	RECORDS CONFIRM PNEUM. IMMUN.
73	F42PRES	Num	8	PRESSURE - SPINAL FLUID EXAM
72	F42PRESR	Num	8	WAS CSF PRESSURE RECORDED?

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

82	F42PSER	Num	8	PENICILLIN SERUM LEVEL
29	F42PULSE	Num	8	PULSE
83	F42PURI	Num	8	PENICILLIN URINE LEVEL
56	F42RETIC	Num	8	RETICULOCYTE COUNT (%)
30	F42RR	Num	8	RESPIRATION RATE
11	F42SEIZ	Num	8	SEIZURES

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MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

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Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
36	F42SEIZS	Num	8	SEIZURES
86	F42SERO	Num	8	S. PNEUMONIAE SEROTYPE
65	F42SFCO	Num	8	COLOR - SPINAL FLUID EXAM
59	F42SFGL	Num	8	GLUCOSE - SPINAL FLUID EXAM
63	F42SFMO	Num	8	MONONUCLEAR - SPINAL FLUID EXAM
62	F42SFPM	Num	8	PMN - SPINAL FLUID EXAM
60	F42SFPR	Num	8	PROTEIN - SPINAL FLUID EXAM
64	F42SFRB	Num	8	RBC - SPINAL FLUID EXAM
61	F42SFWB	Num	8	WBC - SPINAL FLUID EXAM
15	F42SURG	Num	8	SURGERY WITHIN PRECEDING WEEK
27	F42TEMP	Num	8	TEMPERATURE
7	F42TRANS	Num	8	PATIENT TRANSFUSED
71	F42URCIE	Num	8	URINE CIE RESULTS
78	F42URI1	Num	8	URINE CULTURE ORGANISM CODE
79	F42URI2	Num	8	URINE CULTURE ORGANISM CODE
77	F42URINE	Num	8	URINE ORGANISMS PRESENT?
8	F42VOMIT	Num	8	VOMITING
100	J42FDATE	Num	8	FEVER DATE - RECODE DAYS SINCE DOE
99	J42HDATE	Num	8	HEADACHE DATE - RECODE DAYS SINCE DOE
103	J42IDATE	Num	8	INFECTION DATE - RECODE DAYS SINCE DOE
102	J42ODATE	Num	8	OTHER SYMPTOMS DATE - RECODE DAYS SINCE DOE
104	J42PDATE	Num	8	PAINFUL EVENT DATE - RECODE DAYS SINCE DOE
101	J42SDATE	Num	8	SEIZURES DATE - RECODE DAYS SINCE DOE
105	J42SRGDT	Num	8	SURGERY DATE - RECODE DAYS SINCE DOE
98	J42VODTE	Num	8	VOMITING DATE - RECODE DAYS SINCE DOE
97	JF42DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

* R42.FMT contains value labels for numerical codes assigned to
categorical *
* variables in the SAS dataset R42.SD2
*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 11/14/98 11:07:44;

PROC FORMAT;

* FORMAT EVNTF is used for the following variables: F42EVNT1-F42EVNT4;

VALUE EVNTF
99 = 'YES BUT ASSOCIATED EVENT NOT LISTED';

VALUE F42HOSP
1 = 'NOT HOSPITALIZED'
2 = 'HOSPITALIZED';

VALUE F42TRANS
1 = 'NOT TRANSFUSED'
2 = 'TRANSFUSED';

* FORMAT NODKYES used for the following variables: F42VOMIT F42HEAD
F42FEVER F42SEIZ F42OTHR
F42INFEC F42PAIN F42SURG
F42HINJ F42IMPNE F42IMFLU;

VALUE NODKYES
1 = 'NO'
2 = 'DK'
3 = 'YES';

VALUE F42ANTIB
1 = 'NO'
2 = 'DK'
3 = 'YES'
4 = 'YES, PROPHYLACTIC';

* FORMAT NOYESNA used for the following variables: F42PREC F42FLREC;

VALUE NOYESNA

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

1 = 'NO'
2 = 'YES'
3 = 'NOT AVAILABLE';

VALUE F42HTEMP

1 = 'ORAL'
2 = 'RECTAL';

VALUE F42POSNR

0 = 'AWAKE & ALERT'
1 = 'LETHARGIC'
2 = 'CONFUSED'
3 = 'STUPEROUS'
4 = 'COMATOSE'
5 = 'UNRESPONSIVE';

* FORMAT NO_YES used for the following variables: F42SEIZS F42OPF;

VALUE NO_YES

1 = 'NO'
2 = 'YES';

VALUE F42INFS

0 = 'NONE(0)'
1 = 'UPPER RESPIRATORY INFECTION(1)'
2 = 'OTITIS(2)'
4 = 'PNEUMONIA(4)'
8 = 'PHARYNGITIS(8)'
16 = 'ORBITAL CELLULITIS(16)'
32 = 'MASTOIDITIS(32)'
64 = 'SEPTICEMIA(64)'
128 = 'OTHER(128)'
256 = 'NONE(256)';

VALUE F42PHYS

0 = 'NONE(0)'
1 = 'PAPILLEDEMA(1)'
2 = 'FONTANELLE, BULGING(2)'
4 = 'CRANIAL NERVE PALSY(4)'
8 = 'OTHER(8)'
16 = 'NONE(16)';

VALUE F42CORWB

1 = 'NOT CORRECTED'
2 = 'CORRECTED'
3 = 'UNKNOWN';

VALUE F42CSF

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1 = 'NOT DONE'
2 = 'DONE' ;

VALUE F42SFCO

1 = 'CLEAR'
2 = 'XANTHOCHROMIC'
3 = 'CLOUDY' ;

* FORMAT RESULT used for the following variables: F42GRAM F42CULT
F42BLOOD F42URINE ;

VALUE RESULT

1 = 'NOT DONE'
2 = 'DONE NEGATIVE RESULTS'
3 = 'DONE POSITIVE RESULTS' ;

* FORMAT CULTF used for the following variables: F42CULT1 F42CULT2 ;

VALUE CULTF

170 = 'STREP PNEUMONIAE'
1200 = 'HEMOPHILUS INFLUENZAE' ;

VALUE F42URCIE

1 = 'NEGATIVE'
170 = 'STREP PNEUMONIAE'
1200 = 'HEMOPHILUS INFLUENZA'
9000 = 'UNCLASSIFIED' ;

VALUE F42PRESR

1 = 'CSF PRESSURE NOT RECORDED'
2 = 'CSF PRESSURE RECORDED' ;

VALUE F42PENDN

1 = 'PENICILLIN LEVELS NOT DONE'
2 = 'PENICILLIN LEVELS DONE' ;

VALUE F42PNTYP

1 = 'NOT DONE, NOT APPLICABLE'
2 = 'NOT DONE, APPLICABLE'
3 = 'DONE' ;

VALUE F42COMP

0 = 'NONE(0)'
1 = 'INAPPROPRIATE ADH(1)'
2 = 'SUBDURALS(2)'
4 = 'SEIZURES(4)'
8 = 'DIC(8)'

CODEBOOK FOR CSSCD FORM 42

MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

16 = 'OTHER(16)'
32 = 'DEATH(32)'
64 = 'NONE(64)';

* FORMAT F42FRMF used for the variable F42FRM13;

VALUE F42FRMF
1 = 'NO FORM 13 RECEIVED'
2 = 'FORM 13 RECEIVED';

* FORMAT

F42HOSP F42HOSP.
F42TRANS F42TRANS.
F42VOMIT F42HEAD F42FEVER F42SEIZ F42OTHR F42INFEC
F42PAIN F42SURG F42HINJ F42IMPNE F42IMFLU NODKYES.
F42ANTIB F42ANTIB.
F42PREC F42FLREC NOYESNA.
F42HTEMP F42HTEMP.
F42POSNR F42POSNR.
F42SEIZS F42OPF NO_YES.
F42INFS F42INFS.
F42PHYS F42PHYS.
F42CORWB F42CORWB.
F42CSF F42CSF.
F42SFCO F42SFCO.
F42GRAM F42CULT F42BLOOD F42URINE RESULT.
F42CULT1-F42CULT2 CULTF.
F42URCIE F42URCIE.
F42PRESR F42PRESR.
F42PENDN F42PENDN.
F42PNTYP F42PNTYP.
F42COMP F42COMP.
F42FRM13 F42FRMF.;

RUN;
QUIT;

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MENINGITIS FORM

CSSCD FULL COHORT PATIENTS

SECTION 7.5.2 MENINGITIS

FORM 42

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CSSCD FULL COHORT PATIENTS

F42VDATE ----- VERSION DATE **DELETED**

type: numeric daily date (int)

label: labdate

range: [6999,7588]

units: 1

or equivalently: [01mar1979,10oct1980]

units: days

unique values: 3

coded missing: 0 / 42

tabulation: Freq. Numeric Label

6	6999	03/01/79
1	7066	05/07/79
35	7588	10/10/80

F42EVNT1 ----- CSSCD CODE OF RELATED EVENT

type: numeric (float)

label: F42EVNT1

range: [0,99]

units: 1

unique values: 9

coded missing: 9 / 42

tabulation: Freq. Value

6	0
1	30
2	32
13	48
1	62
1	83
6	84
1	91
2	99 YES BUT ASSOCIATED EVENT NOT LISTED

F42EVNT1:

1. See Appendix L for event form codes.

F42EVNT2 ----- CSSCD CODE OF RELATED EVENT

type: numeric (float)

label: F42EVNT2

range: [32,91]

units: 1

unique values: 5

coded missing: 32 / 42

tabulation: Freq. Value

1	32
1	40
1	48
6	84
1	91

F42EVNT2:

1. See Appendix L for event form codes.

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MENINGITIS FORM - PAGE 1

CSSCD FULL COHORT PATIENTS

F42EVNT3 ----- CSSCD CODE OF RELATED EVENT

type: numeric (float)
label: F42EVNT3

range: [30,84] units: 1
unique values: 3 coded missing: 38 / 42

tabulation: Freq. Value
1 30
1 40
2 84

F42EVNT3:

1. See Appendix L for event form codes.

F42EVNT4 ----- CSSCD CODE OF RELATED EVENT

type: numeric (float)
label: F42EVNT4

range: [46,91] units: 1
unique values: 2 coded missing: 39 / 42

tabulation: Freq. Value
1 46
2 91

F42EVNT4:

1. See Appendix L for event form codes.

F42HOSP ----- PATIENT HOSPITALIZED

type: numeric (float)
label: F42HOSP

range: [2,2] units: 1
unique values: 1 coded missing: 0 / 42

tabulation: Freq. Numeric Label
42 2 HOSPITALIZED

F42TRANS ----- PATIENT TRANSFUSED

type: numeric (float)
label: F42TRANS

range: [1,2] units: 1
unique values: 2 coded missing: 7 / 42

tabulation: Freq. Numeric Label
31 1 NOT TRANSFUSED
4 2 TRANSFUSED

F42TRANS:

1. Not collected before 10/10/80.

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CSSCD FULL COHORT PATIENTS

F42VOMIT ----- VOMITING

type: numeric (float)
label: F42VOMIT

range: [1,3] units: 1
unique values: 2 coded missing: 1 / 42

tabulation:	Freq.	Numeric	Label
	22	1	NO
	19	3	YES

F42HEAD ----- HEADACHE

type: numeric (float)
label: F42HEAD

range: [1,3] units: 1
unique values: 3 coded missing: 1 / 42

tabulation:	Freq.	Numeric	Label
	14	1	NO
	9	2	DK
	18	3	YES

F42FEVER ----- FEVER

type: numeric (float)
label: F42FEVER

range: [1,3] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	4	1	NO
	38	3	YES

F42SEIZ ----- SEIZURES

type: numeric (float)
label: F42SEIZ

range: [1,3] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	38	1	NO
	4	3	YES

F42SEIZ:

1. Not collected before 10/10/80.

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CSSCD FULL COHORT PATIENTS

F420THR ----- OTHER SYMPTOMS

type: numeric (float)
label: F420THR

range: [1,3] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	26	1	NO
	16	3	YES

F420THR:

1. Not collected before 10/10/80.

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CSSCD FULL COHORT PATIENTS

F42INFEC ----- INFECTION WITHIN PRECEDING WEEK

type: numeric (float)
label: F42INFEC

range: [1,3] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	34	1	NO
	8	3	YES

F42PAIN ----- PAIN WITHIN PRECEDING WEEK

type: numeric (float)
label: F42PAIN

range: [1,3] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	39	1	NO
	3	3	YES

F42SURG ----- SURGERY WITHIN PRECEDING WEEK

type: numeric (float)
label: F42SURG

range: [1,1] units: 1
unique values: 1 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	42	1	NO

F42HINJ ----- HEAD INJURY WITHIN PRECEDING WEEK

type: numeric (float)
label: F42HINJ

range: [1,1] units: 1
unique values: 1 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	42	1	NO

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MENINGITIS FORM - PAGE 2

CSSCD FULL COHORT PATIENTS

F42ANTIB ----- ANTIBIOTICS WITHIN LAST 3 DAYS

type: numeric (float)
label: F42ANTIB

range: [1,4] units: 1
unique values: 3 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	24	1	NO
	16	3	YES
	2	4	YES, PROPHYLACTIC

F42MED1 ----- MEDICINE CODE #1

type: numeric (float)

range: [25,397] units: 1
unique values: 7 coded missing: 24 / 42

tabulation:	Freq.	Value
	3	25
	6	28
	1	231
	2	367
	1	370
	4	371
	1	397

F42MED1:

1. See Appendix D for medication codes. Note that patients may have indicated only one or both depending on the type(s) of medication.
2. Required only if F42ANTIB=3.

F42MED2 ----- MEDICINE CODE #2

type: numeric (float)

range: [25,341] units: 1
unique values: 3 coded missing: 39 / 42

tabulation:	Freq.	Value
	1	25
	1	231
	1	341

F42MED2:

1. See Appendix D for medication codes. Note that patients may have indicated only one or both depending on the type(s) of medication.
2. Required only if F42ANTIB=3.

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MENINGITIS FORM - PAGE 2

CSSCD FULL COHORT PATIENTS

F42IMPNE ----- RECEIVED PNEUMOCOCCAL IMMUNIZATION

type: numeric (float)
label: F42IMPNE

range: [1,3] units: 1
unique values: 3 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	21	1	NO
	3	2	DK
	18	3	YES

F42PREC ----- RECORDS CONFIRM PNEUM. IMMUN.

type: numeric (float)
label: F42PREC

range: [1,3] units: 1
unique values: 3 coded missing: 11 / 42

tabulation:	Freq.	Numeric	Label
	1	1	NO
	29	2	YES
	1	3	NOT AVAILABLE

F42IMFLU ----- RECEIVED H.INFLUENZA IMMUNIZATION

type: numeric (float)
label: F42IMFLU

range: [1,2] units: 1
unique values: 2 coded missing: 1 / 42

tabulation:	Freq.	Numeric	Label
	40	1	NO
	1	2	DK

F42FLREC ----- RECORDS CONFIRM FLU IMMUN.

type: numeric (float)
label: F42FLREC

range: [1,2] units: 1
unique values: 2 coded missing: 17 / 42

tabulation:	Freq.	Numeric	Label
	2	1	NO
	23	2	YES

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CSSCD FULL COHORT PATIENTS

F42TEMP ----- TEMPERATURE

type: numeric (float)

range: [36.6,40.7] units: .1
unique values: 23 coded missing: 1 / 42

mean: 39.122
std. dev: .873932

percentiles: 10% 25% 50% 75% 90%
38.3 38.6 39 39.7 40.3

F42HTEMP ----- HOW TEMPERATURE TAKEN

type: numeric (float)
label: F42HTEMP

range: [1,2] units: 1
unique values: 2 coded missing: 2 / 42

tabulation: Freq. Numeric Label
17 1 ORAL
23 2 RECTAL

F42PULSE ----- PULSE

type: numeric (float)

range: [100,180] units: 1
unique values: 7 coded missing: 33 / 42

mean: 136.333
std. dev: 34.4311

percentiles: 10% 25% 50% 75% 90%
100 104 120 165 180

F42PULSE:

- 1. Not collected on version 10/10/80.

F42RR ----- RESPIRATION RATE

type: numeric (float)

range: [24,72] units: 1
unique values: 7 coded missing: 33 / 42

mean: 45.2222
std. dev: 18.0401

percentiles: 10% 25% 50% 75% 90%
24 30 48 62 72

F42RR:

- 1. Not collected on version 10/10/80.

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CSSCD FULL COHORT PATIENTS

F42BP1S ----- SYSTOLIC BLOOD PRESSURE,1ST READING

type: numeric (float)

range: [80,130] units: 1
unique values: 5 coded missing: 35 / 42

mean: 102
std. dev: 17.9258

percentiles:	10%	25%	50%	75%	90%
	80	84	100	120	130

F42BP1S:

1. Not collected on version 10/10/80.

F42BP1D ----- DIASTOLIC BLOOD PRESSURE, 1ST READING

type: numeric (float)

range: [50,70] units: 10
unique values: 3 coded missing: 37 / 42

mean: 58
std. dev: 8.3666

percentiles:	10%	25%	50%	75%	90%
	50	50	60	60	70

F42BP1D:

1. Not collected on version 10/10/80.

F42BP2S ----- SYSTOLIC BLOOD PRESSURE, 2ND READING

type: numeric (float)

range: [80,128] units: 1
unique values: 4 coded missing: 37 / 42

mean: 105.4
std. dev: 23.5117

percentiles:	10%	25%	50%	75%	90%
	80	80	117	122	128

F42BP2S:

1. Not collected on version 10/10/80.

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CSSCD FULL COHORT PATIENTS

F42BP2D ----- DIASTOLIC BLOOD PRESSURE,2ND READING

type: numeric (float)

range: [46,60] units: 1
unique values: 4 coded missing: 38 / 42

mean: 51
std. dev: 6.21825

percentiles: 10% 25% 50% 75% 90%
46 47 49 55 60

F42BP2D:

1. Not collected on version 10/10/80.

F42POSNR ----- LEVEL OF CONSCIOUSNESS-POSNER STAGE

type: numeric (float)
label: F42POSNR

range: [0,5] units: 1
unique values: 6 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	20	0	AWAKE & ALERT
	14	1	LETHARGIC
	3	2	CONFUSED
	3	3	STUPEROUS
	1	4	COMATOSE
	1	5	UNRESPONSIVE

F42SEIZS ----- SEIZURES

type: numeric (float)
label: F42SEIZS

range: [1,2] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	38	1	NO
	4	2	YES

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MENINGITIS FORM - PAGE 3

CSSCD FULL COHORT PATIENTS

F42NSEIZ ----- NUMBER OF SEIZURES

type: numeric (float)

range: [0,3] units: 1
unique values: 3 coded missing: 38 / 42

tabulation: Freq. Value
1 0
2 1
1 3

F42NSEIZ:

1. Required only if F42SEIZ=2.

F42INFS ----- SIGNS OF OTHER INFECTION

type: numeric (float)
label: F42INFS

range: [1,256] units: 1
unique values: 15 coded missing: 0 / 42

tabulation: Freq. Numeric Label
0 0 NONE(0)
2 1 UPPER RESPIRATORY INFECTION(1)
2 2 OTITIS(2)
1 3
3 4 PNEUMONIA(4)
1 8 PHARYNGITIS(8)
3 9
0 16 ORBITAL CELLULITIS(16)
0 32 MASTOIDITIS(32)
2 64 SEPTICEMIA(64)
3 65
1 72
1 77
2 128 OTHER(128)
1 129
1 196
1 200
18 256 NONE(256)

F42INFS:

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

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CSSCD FULL COHORT PATIENTS

F42PHYS ----- PHYSICAL SIGNS

type: numeric (float)
label: F42PHYS

range: [2,16] units: 1
unique values: 6 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	0	0	NONE(0)
	0	1	PAPILLEDEMA(1)
	1	2	FONTANELLE,BULGING(2)
	1	4	CRANIAL NERVE PALS(4)
	1	6	
	9	8	OTHER(8)
	1	10	
	29	16	NONE(16)

F42PHYS:

1. Binary coded variable. See Part II for explanation of binary coded variables.
2. 'CRANIAL NERVE PALS(4)' was not included in response choices on older form versions.

F42OPF ----- OTHER PHYSICAL FINDINGS

type: numeric (float)
label: F42OPF

range: [1,2] units: 1
unique values: 2 coded missing: 0 / 42

tabulation:	Freq.	Numeric	Label
	23	1	NO
	19	2	YES

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MENINGITIS FORM - PAGE 4

CSSCD FULL COHORT PATIENTS

F42CBCHB ----- CBC HB G|DL

type: numeric (float)

range: [4.5,13.6] units: .1
unique values: 28 coded missing: 0 / 42

mean: 8.49762
std. dev: 2.00603

percentiles:	10%	25%	50%	75%	90%
	6.4	7.4	8.25	9.6	11

F42CBCHC ----- CBC HCT %

type: numeric (float)

range: [12.5,41.5] units: .1
unique values: 36 coded missing: 1 / 42

mean: 25.7829
std. dev: 6.01577

percentiles:	10%	25%	50%	75%	90%
	19.8	21.6	25	29	33.1

F42BCRB ----- CBC RBC (X 10(12) | L)

type: numeric (float)

range: [1.52,5.71] units: .01
unique values: 41 coded missing: 1 / 42

mean: 3.15122
std. dev: .958163

percentiles:	10%	25%	50%	75%	90%
	2.04	2.54	2.96	3.82	4.61

F42CBCWB ----- CBC WBC (X 10(9) | L)

type: numeric (float)

range: [3.3,45.6] units: .1
unique values: 40 coded missing: 0 / 42

mean: 18.5357
std. dev: 9.56263

percentiles:	10%	25%	50%	75%	90%
	7.9	10	18.1	24.4	30.2

F42CBCWB:

- 1. Assumed to be 'uncorrected' for nRBCs.

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CSSCD FULL COHORT PATIENTS

F42DFPMN ----- DIFFERENTIAL PMN

type: numeric (float)

range: [8,85] units: 1
unique values: 31 coded missing: 0 / 42

mean: 53.3095
std. dev: 20.5859

percentiles: 10% 25% 50% 75% 90%
25 37 57 66 81

F42DFBND ----- DIFFERENTIAL BANDS

type: numeric (float)

range: [0,58] units: 1
unique values: 18 coded missing: 3 / 42

mean: 9.05128
std. dev: 13.3829

percentiles: 10% 25% 50% 75% 90%
0 0 3 15 28

F42DFBND:

1. Not collected before 10/10/80.

F42DFEOS ----- DIFFERENTIAL EOSINOPHILS

type: numeric (float)

range: [0,6] units: 1
unique values: 5 coded missing: 0 / 42

mean: .52381
std. dev: 1.27333

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 2

F42DFBAS ----- DIFFERENTIAL BASOPHILS

type: numeric (float)

range: [0,2] units: 1
unique values: 3 coded missing: 0 / 42

mean: .142857
std. dev: .417392

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 1

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CSSCD FULL COHORT PATIENTS

F42DFLYM ----- DIFFERENTIAL LYMPHOCYTES

type: numeric (float)

range: [6,88] units: 1
unique values: 31 coded missing: 0 / 42

mean: 29.9286
std. dev: 20.9009

percentiles: 10% 25% 50% 75% 90%
11 14 21 37 61

F42DFMON ----- DIFFERENTIAL MONOCYTES

type: numeric (float)

range: [0,12] units: 1
unique values: 12 coded missing: 0 / 42

mean: 5.21429
std. dev: 3.35345

percentiles: 10% 25% 50% 75% 90%
1 2 5.5 7 9

F42DFATC ----- DIFFERENTIAL ATYPICAL CELLS

type: numeric (float)

range: [0,12] units: 1
unique values: 6 coded missing: 0 / 42

mean: .761905
std. dev: 2.09307

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 2

F42DFMM ----- DIFFERENTIAL MYELOCYTES-METAMYELOCYTES

type: numeric (float)

range: [0,9] units: 1
unique values: 6 coded missing: 1 / 42

mean: .463415
std. dev: 1.5984

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 1

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CSSCD FULL COHORT PATIENTS

F42DFPRO ----- DIFFERENTIAL PROMYELOCYTES

type: numeric (float)

range: [0,0] units: 0
unique values: 1 coded missing: 4 / 42

mean: 0
std. dev: 0

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 0

F42NRB ----- NUCLEATED RED BLOOD CELLS

type: numeric (float)

range: [0,95] units: 1
unique values: 10 coded missing: 2 / 42

mean: 6.375
std. dev: 18.2682

percentiles: 10% 25% 50% 75% 90%
0 0 0 3 13.5

F42NRB:

1. If value was more than 100nRBCs/100WBCs, then a value of 99 was entered.

F42RETIC ----- RETICULOCYTE COUNT (%)

type: numeric (float)

range: [1,39] units: 1
unique values: 19 coded missing: 6 / 42

mean: 11.4167
std. dev: 8.58362

percentiles: 10% 25% 50% 75% 90%
3 4 8.5 18 22

F42CORWB ----- IS WBC UNCORRECTED FOR NRBC?

type: numeric (float)
label: F42CORWB

range: [1,1] units: 1
unique values: 1 coded missing: 40 / 42

tabulation: Freq. Numeric Label
2 1 NOT CORRECTED

F42CORWB:

1. Required only if F42NRB >= 10.

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CSSCD FULL COHORT PATIENTS

F42CSF ----- WAS SPINAL TAP DONE?

type: numeric (float)
label: F42CSF

range: [2,2] units: 1
unique values: 1 coded missing: 0 / 42

tabulation: Freq. Numeric Label
 42 2 DONE

F42SFGL ----- GLUCOSE - SPINAL FLUID EXAM

type: numeric (float)

range: [0,200] units: 1
unique values: 31 coded missing: 0 / 42

mean: 66.4762
std. dev: 32.6476

percentiles: 10% 25% 50% 75% 90%
 24 55 65.5 75 89

F42SFPR ----- PROTEIN - SPINAL FLUID EXAM

type: numeric (float)

range: [0,1580] units: 1
unique values: 35 coded missing: 0 / 42

mean: 109.214
std. dev: 247.466

percentiles: 10% 25% 50% 75% 90%
 21 24 36.5 90 203

F42SFWB ----- WBC - SPINAL FLUID EXAM

type: numeric (float)

range: [0,78000] units: 1
unique values: 36 coded missing: 0 / 42

mean: 3631.62
std. dev: 13081.3

percentiles: 10% 25% 50% 75% 90%
 2 9 130 336 4100

F42SFWB:

- 1. Data collection problem. See section on problem variables.

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CSSCD FULL COHORT PATIENTS

F42SFPM ----- PMN - SPINAL FLUID EXAM

type: numeric (float)

range: [0,94] units: 1
unique values: 30 coded missing: 4 / 42

mean: 49.9737
std. dev: 34.5195

percentiles:	10%	25%	50%	75%	90%
	1	12	62.5	80	89

F42SFPM:

1. Required only if F42SFWB>0.

F42SFMO ----- MONONUCLEAR - SPINAL FLUID EXAM

type: numeric (float)

range: [0,99] units: 1
unique values: 22 coded missing: 5 / 42

mean: 20.7297
std. dev: 26.2675

percentiles:	10%	25%	50%	75%	90%
	0	2	10	27	59

F42SFMO:

1. Required only if F42SFWB>0.

F42SFRB ----- RBC - SPINAL FLUID EXAM

type: numeric (float)

range: [0,1900] units: 1
unique values: 24 coded missing: 2 / 42

mean: 136.425
std. dev: 416.634

percentiles:	10%	25%	50%	75%	90%
	0	.5	6	59	197

F42SFRB:

1. Data collection problem. See section on problem variables.

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CSSCD FULL COHORT PATIENTS

F42SFC0 ----- COLOR - SPINAL FLUID EXAM

type: numeric (float)
label: F42SFC0

range: [1,3] units: 1
unique values: 3 coded missing: 4 / 42

tabulation:	Freq.	Numeric	Label
	26	1	CLEAR
	10	2	XANTHOCHROMIC
	2	3	CLOUDY

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CSSCD FULL COHORT PATIENTS

F42GRAM ----- GRAM STAIN DONE

type: numeric (float)
label: F42GRAM

range: [1,3] units: 1
unique values: 3 coded missing: 3 / 42

tabulation: Freq. Numeric Label

3	1	NOT DONE
29	2	DONE NEGATIVE RESULTS
7	3	DONE POSITIVE RESULTS

F42GRAMS ----- GRAM STAIN ORGANISM CODE

type: numeric (float)

range: [170,1200] units: 10
unique values: 2 coded missing: 35 / 42

tabulation: Freq. Value

6	170
1	1200

F42GRAMS:

1. Required only if F42GRAM=3.
2. See Appendix H - PATHOGEN LIST.

F42CULT ----- CSF ORGANISM PRESENT?

type: numeric (float)
label: F42CULT

range: [1,3] units: 1
unique values: 3 coded missing: 1 / 42

tabulation: Freq. Numeric Label

1	1	NOT DONE
25	2	DONE NEGATIVE RESULTS
15	3	DONE POSITIVE RESULTS

F42CULT1 ----- CSF CULTURE ORGANISM CODE

type: numeric (float)
label: F42CULT1

range: [170,1200] units: 10
unique values: 2 coded missing: 27 / 42

tabulation: Freq. Numeric Label

14	170	STREP PNEUMONIAE
1	1200	HEMOPHILUS INFLUENZAE

F42CULT1:

1. Required only if F42CULT=3.
2. See Appendix H - PATHOGEN LIST.

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CSSCD FULL COHORT PATIENTS

F42CULT2 ----- CSF CULTURE ORGANISM CODE

type: numeric (float)
label: F42CULT2

range: [.,.] units: .
unique values: 0 coded missing: 42 / 42

tabulation: Freq. Numeric Label
Value missing for all patients.

F42CULT2:

1. Required only if F42CULT=3.
2. See Appendix H - PATHOGEN LIST.

F42URCIE ----- URINE CIE RESULTS

type: numeric (float)
label: F42URCIE

range: [1,1200] units: 1
unique values: 3 coded missing: 38 / 42

tabulation:	Freq.	Numeric	Label
	1	1	NEGATIVE
	1	170	STREP PNEUMONIAE
	2	1200	HEMOPHILUS INFLUENZA

F42URCIE:

1. See Appendix H - PATHOGEN LIST.

F42PRESR ----- WAS CSF PRESSURE RECORDED?

type: numeric (float)
label: F42PRESR

range: [1,2] units: 1
unique values: 2 coded missing: 10 / 42

tabulation:	Freq.	Numeric	Label
	24	1	CSF PRESSURE NOT RECORDED
	8	2	CSF PRESSURE RECORDED

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CSSCD FULL COHORT PATIENTS

F42PRES ----- PRESSURE - SPINAL FLUID EXAM

type: numeric (float)

range: [10,26]

units: 1

unique values: 7

coded missing: 34 / 42

tabulation: Freq. Value

2	10
1	13
1	17
1	22
1	23
1	25
1	26

F42PRES:

1. Required only if F42PRESR=2.

F42BLOOD ----- BLOOD CULTURE RESULTS

type: numeric (float)

label: F42BLOOD

range: [2,3]

units: 1

unique values: 2

coded missing: 1 / 42

tabulation: Freq. Numeric Label

25	2	DONE NEGATIVE RESULTS
16	3	DONE POSITIVE RESULTS

F42BLD1 ----- BLOOD CULTURE ORGANISM

type: numeric (float)

range: [170,9000]

units: 10

unique values: 3

coded missing: 26 / 42

tabulation: Freq. Value

14	170
1	1200
1	9000

F42BLD1:

1. Required only if F42BLOOD=3.
2. See Appendix H - PATHOGEN LIST.

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CSSCD FULL COHORT PATIENTS

F42BLD2 ----- BLOOD CULTURE ORGANISM

type: numeric (float)

range: [401,401] units: 1
unique values: 1 coded missing: 41 / 42

tabulation: Freq. Value
1 401

F42BLD2:

1. Required only if F42BLOOD=3.
2. See Appendix H - PATHOGEN LIST.

F42URINE ----- URINE ORGANISMS PRESENT?

type: numeric (float)
label: F42URINE

range: [1,3] units: 1
unique values: 3 coded missing: 3 / 42

tabulation: Freq. Numeric Label
7 1 NOT DONE
29 2 DONE NEGATIVE RESULTS
3 3 DONE POSITIVE RESULTS

F42URI1 ----- URINE CULTURE ORGANISM CODE

type: numeric (float)

range: [401,9000] units: 1
unique values: 2 coded missing: 39 / 42

tabulation: Freq. Value
2 401
1 9000

F42URI1:

1. Required only if F42URINE=3.
2. See Appendix H - PATHOGEN LIST.

F42URI2 ----- URINE CULTURE ORGANISM CODE

type: numeric (float)

range: [.,.] units: .
unique values: 0 coded missing: 42 / 42

tabulation: Freq. Value
Value missing for all patients.

F42URI2:

1. Required only if F42URINE=3.
2. See Appendix H - PATHOGEN LIST.

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CSSCD FULL COHORT PATIENTS

F42PENDN ----- WERE PENICILLIN LEVELS DONE?

type: numeric (float)
label: F42PENDN

range: [1,1] units: 1
unique values: 1 coded missing: 19 / 42

tabulation: Freq. Numeric Label
23 1 PENICILLIN LEVELS NOT DONE

F42PENDN:

1. Required only if F42ANTIB=4.

F42PSER ----- PENICILLIN SERUM LEVEL

type: numeric (float)

range: [.,.] units: .
unique values: 0 coded missing: 42 / 42

tabulation: Freq. Value
Value missing for all patients.

F42PSER:

1. Required only if F42ANTIB=4.

F42PURI ----- PENICILLIN URINE LEVEL

type: numeric (float)

range: [.,.] units: .
unique values: 0 coded missing: 42 / 42

tabulation: Freq. Value
Value missing for all patients.

F42PURI:

1. Required only if F42ANTIB=4.

F42PNTYP ----- SEROTYPING DONE

type: numeric (float)
label: F42PNTYP

range: [1,3] units: 1
unique values: 3 coded missing: 20 / 42

tabulation: Freq. Numeric Label
10 1 NOT DONE, NOT APPLICABLE
6 2 NOT DONE, APPLICABLE
6 3 DONE

F42PNTYP:

1. Required only if F42BLD1 or F42BLD2 or F42CULT1 or F42CULT2 = 170.

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CSSCD FULL COHORT PATIENTS

F42SER0 ----- S. PNEUMONIAE SEROTYPE

type: numeric (float)

range: [4,23] units: 1
unique values: 4 coded missing: 36 / 42

tabulation: Freq. Value
1 4
2 6
1 12
2 23

F42SER0:

1. Required only if F42BLD1 or F42BLD2 or F42CULT1 or F42CULT2 = 170.

F42HBS ----- HB S (%)

type: numeric (float)

range: [8,92] units: 1
unique values: 2 coded missing: 40 / 42

mean: 50
std. dev: 59.397

percentiles: 10% 25% 50% 75% 90%
8 8 50 92 92

F42HBS:

1. Required only if F42TRANS=2.

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CSSCD FULL COHORT PATIENTS

F42COMP ----- COMPLICATIONS OF DISEASE

type: numeric (float)
label: F42COMP

range: [3,64] units: 1
unique values: 12 coded missing: 1 / 42

tabulation:	Freq.	Numeric	Label
	0	0	NONE(0)
	0	1	INAPPROPRIATE ADH(1)
	0	2	SUBDURALS(2)
	1	3	
	0	4	SEIZURES(4)
	0	8	DIC(8)
	1	15	
	1	16	OTHER(16)
	1	20	
	1	24	
	1	28	
	1	31	
	1	32	DEATH(32)
	1	36	
	2	40	
	1	52	
	29	64	NONE(64)

F42COMP:

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

7.5.3: Cerebrovascular Accident (CVA) – Form 44

F42FRM13 ----- IS THERE A FORM 13 FOR THIS EVENT?

type: numeric (float)
label: F42FRM13

range: [1,2] units: 1
unique values: 2 coded missing: 14 / 42

tabulation:	Freq.	Numeric	Label
	11	1	NO FORM 13 RECEIVED
	17	2	FORM 13 RECEIVED

F42FRM13:

1. See section on computed variables.
2. Required only if age \geq 3 years.

F42FLOWS ----- NUMBER OF FLOWSHEETS

type: numeric (float)

range: [0,4] units: 1
unique values: 5 coded missing: 0 / 42

tabulation:	Freq.	Value
	14	0
	12	1
	10	2
	3	3
	3	4

F42FLOWS:

1. See section on computed variables.

F42FRM52 ----- EVENT FORM 52 STORED WITH

type: numeric (float)

range: [0,48] units: 1
unique values: 6 coded missing: 0 / 42

tabulation:	Freq.	Value
	6	0
	1	32
	1	33
	1	40
	28	42
	5	48

F42FRM52:

1. See section on computed variables.

7.5.3: Cerebrovascular Accident (CVA) – Form 44

F42DHOSP ----- NUMBER OF DAYS HOSPITALIZED

type: numeric (float)

range: [1,53] units: 1
unique values: 18 coded missing: 11 / 42

mean: 10.8065
std. dev: 9.99473

percentiles: 10% 25% 50% 75% 90%
2 4 10 16 20

tabulation: Freq. Value

3	1
2	2
2	3
2	4
1	5
2	6
2	7
1	9
2	10
2	11
2	12
2	13
2	16
1	17
1	19
2	20
1	21
1	53

F42DHOSP:

1. See section on computed variables.

F42CBCMV ----- CBC MCV (FL)

type: numeric (float)

range: [51,104] units: 1
unique values: 28 coded missing: 1 / 42

mean: 83.2683
std. dev: 10.8743

percentiles: 10% 25% 50% 75% 90%
72 76 82 92 97

7.5.3: Cerebrovascular Accident (CVA) – Form 44

F42PIT ----- PIT COUNT (%)

type: numeric (float)

range: [1.6,32.2] units: .1
unique values: 19 coded missing: 18 / 42

mean: 11.2833
std. dev: 7.69639

percentiles:	10%	25%	50%	75%	90%
	2.2	5.6	9.4	16.9	19.8

F42PIT:

1. See section on computed variables.
2. Required only if event occurred before 11/85.

F42MCH ----- MCH

type: numeric (float)

range: [19.1,41.6] units: .1
unique values: 29 coded missing: 1 / 42

mean: 28.1146
std. dev: 4.31715

percentiles:	10%	25%	50%	75%	90%
	23.6	24.9	28.6	30.8	32.3

F42MCH:

1. See section on computed variables.

F42MCHC ----- MCHC

type: numeric (float)

range: [30.2,40.9] units: .1
unique values: 27 coded missing: 1 / 42

mean: 33.4659
std. dev: 1.99695

percentiles:	10%	25%	50%	75%	90%
	31.4	32.3	33.2	34.5	36

F42MCHC:

1. See section on computed variables.

_dta:

1. Created 05/16/00.

7.5.3: Cerebrovascular Accident (CVA) – Form 44

A. List of variables deleted **F44DATE F44INIT F44NDATE F44LASTU F44LASTE
F44ESTAT F44VDATE F44DFC F44FCB F44PEB F44LABDT**

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 **F44DATE**

H. New name **JF44DATE**

I. Collection Information:

Form 44 (Cerebrovascular Accident) was filled out whenever a study patient entered the clinic, emergency room, or hospital at a study institution with acute neurologic syndrome secondary to occlusion of an artery or hemorrhage with resultant ischemic and neurologic symptoms and signs.

J. Data Collection Period: 03/79 – 12/86

 Form 44 was used between 03/01/79 and 06/01/86 for all patients and continued to be used for patients entered at < 6 months of age until December 1986.

K. Form Version Dates: 03/01/79, 09/25/80

 The codebook coincides with the most recent version of Form 44.

L. Files Used to Store Information:

 SAS System File: **R44.SD2**

 Format File: **R44.FMT**

M. Unique Record Identifiers: **ANONID, F44DATE**

 Records within the dataset are sorted by **ANONID** and **F44DATE**.

N. Number of Observations (Patients) in SAS Dataset: 133 (102)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 514-515
- Listing of Variables by Position: See pp. 516-517

P. Notes About Selected Variables:

- **F44EVENT** – is a concatenated variable consisting of 4 2-digit codes which identify forms completed in addition to Form 44; values are left justified so that if

7.5.3: Cerebrovascular Accident (CVA) – Form 44

there were fewer than 4 associated event forms completed, there will be trailing zeros—e.g., a value of “84000000” means that only a transfusion form (Form 84) was completed in association with the Form 44.

- **F44CBCWB** – is the variable name for CBC White Blood Cell Count. The value for this variable should be uncorrected for nucleated RBCs.
- **CBC WBC Differential** – values for one or more of the WBC differential variables (**F44DFPMN**, **F44FBND**, **F44DFEOS**, **F44DFBAS**, **F44DFLYM**, **F44DFMON**, **F44DFMM**, **F44DATC**) may be missing when the value should in fact be “0” since some clinic personnel just entered numbers for variables with non-zero values. If the sum of the differential variables with non-missing values is 100, the differential variables with missing values are assumed to have a value of “0”.
- **F44SFWBC**, **F44SFRBC** – are variable names for CSF WBC and CSF RBC respectively. The units of measurement specified for these variables on Form 44 were inappropriate (___) . (___) x 10⁹/liter, (___) . (___) x 10¹²/liter respectively. In the SAS dataset, the values are stored as 5 and 6 digit integers respectively. However, because of the inappropriate units specified on Form 44 for these variables, it is difficult to determine whether the values recorded are number of cells or number of cells x 10⁹/liter for WBC (or number of cells x 10¹²/liter for RBC). For example, a value of 15 could be 15 cells or 1500 cells; a value of 1500 could be 15 cells or 1500 cells. Because of the problems with values for these two variables, it would be better to dichotomize the values for both:
 - If **F44SFWBC (F44SFRBC) = 0**, then **F44SFWBC (F44SFRBC) = 0** (absent).
 - If **F44SFWBC (F44SFRBC) > 0**, then **F44SFWBC (F44SFRBC) = 1** (present).
- **F44SFPMN**, **F44SFMON** – are variable names for CSF WBC pmns and CSF WBC monos respectively. The value recorded should be the proportion % of CSF WBC cells that were pmns, monos respectively. However, the value recorded on the form may in fact be # of cells rather than % of CSF WBC. Both variables have a field length of only 2 digits. A value of “99” was entered if the proportion was 100%.

7.5.3: Cerebrovascular Accident (CVA) – Form 44

- **F44SKFCD, F44ARTCD** – are variable names for skull film diagnosis code and arteriogram diagnosis code respectively. Abnormalities identified on skull films and arteriograms were not coded; all values for both variables are missing.

Q. Computed Variables:

- **F44FRM13** – is the variable which indicates whether a Neurologic Evaluation form (Form 13, SAS dataset **R23.SD2**) was completed within two weeks of the event. The form was supposed to be completed within 48 hours of admission and at the time of discharge. The value was derived by searching through “Record 23s” between **F44DATE** (date patient first sought care for the event) and **F44DATE + 14 days** and making **F44FRM13** equal to “2” if a “Record 23” was found within this time period—i.e., if $0 \leq \text{F44DATE} - \text{F44DATE} \leq 14$. If the patient was ≥ 3 years of age at the time of the event and a “Record 23” was not found within the 14 day time period the value of **F44FRM13** was computed as “1”. Neurologic Evaluation forms (Form 13) were not required for events occurring at < 3 years of age; as a result, the value of **F44FRM13** will be missing If the patient was < 3 years of age and a Form 13 was not completed [See Section 6.1].
- **F44FLOWS** – is the variable name for the number of follow-up flow sheets (Form 45s) associated with a given CVA event. The value of this variable was derived by linking “Record 45(s)” with “Record 44” by date patient first sought care for the CVA event (**F45DATE=F44DATE**) and counting the number of flow sheet records which linked.
- **F44DHOSP** – is the variable name for number of days patient was hospitalized or seen daily for the event. The number of days “hospitalized” was derived by linking the flow sheet record(s) (“Record 45”) with “Record 44” by date patient first sought care for the CVA event (**F45DATE=F44DATE**), identifying the last flow sheet record (i.e., the one with the highest **F45SHEET** value) and using the last non-missing value of the **F45DTE** variables on that record as the date (“mm/dd” date format) of discharge. The “mm/dd/yy” date equivalent was computed for the “mm/dd” discharge date and **F44DATE** was subtracted from this date to obtain the number of days hospitalized.
- **F44FRM52** – is the associated event code number (**F52TYPE**) entered on the Acute Treatment Follow-up record (“Record 52”) which links with “Record 44” by date patient first sought care for the event (**F52DATE=F44DATE**). Values for

7.5.3: Cerebrovascular Accident (CVA) – Form 44

F44FRM52 were derived by linking “Record 44” with “Record 52” by date patient first sought care and making **F44FRM52** equal to the value of **F52TYPE**. The only valid values of **F52TYPE** are 30 (pain), 32 (acute chest), 34 (RUQ), 36 (skeletal & joint), 38 (hand/foot), 40 (seizures), 42 (meningitis), 44 (CVA), 46 (acute anemic event), 48 (acute febrile event), 50 (priapism). However, the variable **F44FRM52** may also have a value of “31” or “33” if “Record 44” did not link with a “Record 52” but did link with either a 31 (pain/skel & joint flow sheet) or a 33 (acute chest flow sheet)—i.e., the CVA event was associated with one of these events and the flow sheet used (31 or 33) collected the same information as “Record 52” regarding treatment and outcome.

R. Inter-Relationship With Other Datasets:

1. CVA event data were also collected on

Phase 1 Forms	SAS Dataset
Form 53	R53.SD2

[See Section 7.9]

Form 53, the Comprehensive Special Event Form For Patients Entered At < 6 Months of Age, was used to continue collection of CVA event information on the newborn cohort from 01/01/87 through the end of the Phase 1.

2. Follow-up and Treatment Information for CVA events which were reported on Form 44 were collected on

Form	SAS Dataset
Form 45	R45.SD2
Form 52	R52.SD2

Both of the above “records” should be linked to the appropriate CVA event “Record 44” by the date patient first sought care for the event (i.e., if **F45DATE=F44DATE** or if **F52DATE=F44DATE**).

- a. Form 45 is the Cerebrovascular Accident and Meningitis Flow Sheet. Data collected on this form are stored in **R45.SD2**. The form was completed if a patient was either hospitalized or seen on a daily basis as an outpatient for a CVA event. Each “Record 45” contains 6 days of hospital information. Consequently, multiple “Record 45s” may exist for a given CVA event dependent on length of hospitalization.

7.5.3: Cerebrovascular Accident (CVA) – Form 44

“Record 45s” are sorted by ID# of patient (**ANONID**), date patient first sought care (**F45DATE**), and flow sheet number (**F45SHEET**). [See Section 7.5.5 for details]

- b. Form 52 is the Acute Event Treatment Follow-Up form. Data collected on this form are stored in **R52.SD2**. This form which was supposed to be completed for all CVA events regardless of whether the patient was hospitalized, contains information regarding treatment, resolution of symptoms, and final diagnosis.

Form 52 was used for CVA event follow-up data until December 1986 for patients entered at < 6 months of age.

If the value of **F44FRM52** is “31”, “Record 44” should be linked by date to “Record 31” (rather than “Record 52”) to obtain information regarding treatment, resolution of symptoms, etc. [See Section 7.1.4]. If the value of **F44FRM52** is “33”, “Record 44” should be linked by date to “Record 33” (rather than “Record 52”) to obtain information about treatment, etc. [See Section 7.2.3] More than one “Record 31” (or “Record 33”) may link with (i.e., have the same date as) “Record 44” depending on the length of hospitalization. If this is the case, the treatment, resolution or symptoms, and final diagnosis summary data will, in most instances, be recorded only on the last record which links (i.e., the “record” with the highest **F31SHEET** number or the “record” with the highest **F33SHEET** number).

Form 52 was used as the follow-up form for all acute events and is described in detail in Section 7.10.

- 3. Other sources which collect information about CVA events

Form	SAS Dataset
Form 10	R10.SD2
Form 14	R14.SD2
Form 15	R15.SD2
---	R41.SD2
Form 13	R13.SD2, R23.SD2
Form 26	R20.SD2
Form 91	R91.SD2
“Patient Roster”	R09.SD2

The table below summarizes the data collected on these forms which pertain to CVAs:

7.5.3: Cerebrovascular Accident (CVA) – Form 44

<u>Form #</u>	<u>Form Name</u>	<u>SAS Dataset</u>	<u>Type of Information Collected</u>	<u>Variable Name</u>
10	Past Medical History	R10.SD2	Patient/family history of CVA prior to entry	F10STRK F10HSTRK
14	Young Infant Form	R14.SD2	Family history of CVA prior to patient's entry	F14HSTRK
15	Infant Past Medical History	R15.SD2	Patient/family history of CVA prior to entry	F15STRK F15HSTRK
--	CSSCD Stroke Questionnaire	R41.SD2	Nature of CVAs, duration of transfusions for all CVAs before & during study	All
13	Neurologic Evaluation	R13.SD2 R23.SD2	Neurologic exam data	All
26	Supplement to Annual	R20.SD2	Cerebral aneurysm while on study	F20CERAN
91	Cause of Death	R91.SD2	Cause of death	F91IMCSE
--	"Patient Roster"	R09.SD2	CVA status before and/or after entry, meningitis/seizure status before and/or after entry	CVASTAT MENSTAT SEIZSTAT

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

CONTENTS OF SAS DATASET: R44.SD2
DATA FROM CSSCD FORM 44 - CEREBROVASCULAR ACCIDENT
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 44

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The CONTENTS Procedure

Data Set Name	OUT1.R44	Observations	133
Member Type	DATA	Variables	54
Engine	V9	Indexes	0
Created	16:51 Monday, December 4, 2006	Observation Length	432
Last Modified	16:51 Monday, December 4, 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	5
First Data Page	1
Max Obs per Page	37
Obs in First Data Page	21
Number of Data Set Repairs	0
File Name	r44.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 #
47	F44ART	Num	8	ARTERIOGRAM
48	F44ARTCD	Num	8	ARTERIOGRAM CODE
45	F44BRSCN	Num	8	BRAIN SCAN
10	F44CBCHB	Num	8	CBC HB
11	F44CBCHC	Num	8	CBC HCT
14	F44CBCMV	Num	8	CBC MCV
12	F44CBCRB	Num	8	CBC RBC
13	F44CBCWB	Num	8	CBC WBC
42	F44CTSCN	Num	8	CT SCAN
37	F44CULT1	Num	8	CULTURE ORGANISM CODES
38	F44CULT2	Num	8	CULTURE ORGANISM CODES
39	F44CULT3	Num	8	CULTURE ORGANISM CODES
40	F44CULT4	Num	8	CULTURE ORGANISM CODES
21	F44DFATC	Num	8	DIFFERENTIAL ATYPICAL CELLS
18	F44DFBAS	Num	8	DIFFERENTIAL BASOPHILS
16	F44DFBND	Num	8	DIFFERENTIAL BANDS
17	F44DFEOS	Num	8	DIFFERENTIAL EOSINOPHILS
19	F44DFLYM	Num	8	DIFFERENTIAL LYMPHOCYTES
22	F44DFMM	Num	8	DIFFERENTIAL METAMYELOCYTES MYELOCYTES

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

20	F44DFMON	Num	8	DIFFERENTIAL MONOCYTES
15	F44DFPMN	Num	8	DIFFERENTIAL PMN
52	F44DHOSP	Num	8	NUMBER OF DAYS HOSPITALIZED
46	F44EEG	Num	8	EEG
2	F44EVENT	Num	8	ASSOCIATED EVENTS
50	F44FLOWS	Num	8	NUMBER OF FLOW SHEETS
53	F44FRM13	Num	8	IS THERE A 13 ON THE DATABASE

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

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The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
51	F44FRM52	Num	8	IS THERE A 52 ON THE DATABASE
32	F44GRAM	Num	8	GRAM STAIN
33	F44GRAM1	Num	8	GRAM STAIN ORGANISM
34	F44GRAM2	Num	8	GRAM STAIN ORGANISM
35	F44GRAM3	Num	8	GRAM STAIN ORGANISM
36	F44GRAM4	Num	8	GRAM STAIN ORGANISM
49	F44HBS	Num	8	HB S %
6	F44HIST1	Num	8	HISTORY BEFORE EPISODE
7	F44HIST2	Num	8	HISTORY BEFORE EPISODE
4	F44HOSP	Num	8	HOSPITALIZED
23	F44NRB	Num	8	NUCLEATED RED BLOOD CELLS
9	F44OPF	Num	8	OTHER PHYSICAL FINDINGS
24	F44PLATE	Num	8	PLATELETS
8	F44POSNR	Num	8	POSNER STAGE
41	F44PRES	Num	8	PRESSURE - SPINAL FLUID EXAM
3	F44RESP	Num	8	RESPONDENT
31	F44SFCOL	Num	8	COLOR - SPINAL FLUID EXAM
25	F44SFGLU	Num	8	GLUCOSE - SPINAL FLUID EXAM
29	F44SFMON	Num	8	MONONUCLEAR - SPINAL FLUID EXAM
28	F44SFPMN	Num	8	PMN - SPINAL FLUID EXAM
26	F44SFPRO	Num	8	PROTEIN - SPINAL FLUID EXAM
30	F44SFRBC	Num	8	RBC - SPINAL FLUID EXAM
27	F44SFWBC	Num	8	WBC - SPINAL FLUID EXAM
44	F44SKFCD	Num	8	SKULL FILM CODE
43	F44SKFLM	Num	8	SKULL FILMS
5	F44TRANS	Num	8	TRANSFUSED IN LAST 6 MONTHS
54	JF44DATE	Num	8	DATE PATIENT FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

* R44.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R44.SD2
*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 11/14/98 11:11:39;

PROC FORMAT;

VALUE F44RESP
1 = 'PATIENT'
2 = 'OTHER';

* FORMAT NO_YES used for the following variables: F44HOSP F44TRANS
F44OPF;

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

* FORMAT HIST1F used for the following variable: F44HIST1;

VALUE HIST1F
0 = 'NONE (0)'

1 = 'CONSCIOUSNESS LOSS (1)'
2 = 'MENTAL CHANGE (2)'
4 = 'SPEECH DIFFICULTY (4)'
8 = 'PARALYSIS (8)'
16 = 'SWALLOWING DIFFICULTY (16)'
32 = 'VISION DIFFICULTY (32)'
64 = 'DIZZINESS (64)'
128 = 'SEIZURES (128)'
256 = 'HEADACHE (256)'
512 = 'NONE OF ABOVE (512)';

* FORMAT HIST2F used for the following variable: F44HIST2;

VALUE HIST2F
0 = 'NONE (0)'
1 = 'VOMITING (1)'
2 = 'INFECTION (2)'
4 = 'FEVER (4)'
8 = 'PAINFUL EPISODE (8)'
16 = 'GENERAL ANESTHESIA (16)'
32 = 'RADIOLOGIC PROC. (32)'
64 = 'HEAD TRAUMA (64)'

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

128 = 'NONE OF ABOVE (128)';

VALUE F44POSNR

0 = 'ALERT'
1 = 'LETHARGIC'
2 = 'CONFUSED'
3 = 'STUPOROUS'
4 = 'COMATOSE'
5 = 'UNRESPONSIVE';

VALUE F44SFCOL

1 = 'CLEAR'
2 = 'XANTHOCHROMIC';

VALUE F44GRAM

1 = 'POSITIVE'
2 = 'NEGATIVE';

* FORMAT RESULT is used for the following variables: F44GRAM1 F44GRAM2
F44GRAM3
F44GRAM4 F44CULT1 F44CULT2 F44CULT3 F44CULT3
F44CULT4;

VALUE RESULT

-8 = 'NOT DONE'
-1 = 'NEGATIVE';

VALUE F44CTSCN

1 = 'NORMAL'
2 = 'ABNORMAL'
3 = 'ABNORMAL, RECD';

* FORMAT OUTCOME is used for the following variables: F44SKFLM
F44BRSCN F44EEG;

VALUE OUTCOME

10 = 'DONE, NO RESULTS'
11 = 'DONE, NORMAL'
12 = 'DONE, ABNORMAL'
13 = 'DONE, ABNORMAL, RECD'
20 = 'NOT DONE';

VALUE F44ART

10 = 'DONE, NO RESULTS'
11 = 'DONE, VESSEL OBST.'
12 = 'DONE, NO VESSEL OBST.'
13 = 'DONE, VESSEL OBS, RECD'
20 = 'NOT DONE';

**CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA)**

* FORMAT F44FRMF used for the variable F44FRM13;

VALUE F44FRMF

1 = 'NO'
2 = 'YES';

* FORMAT

F44RESP F44RESP.
F44HOSP F44TRANS F44OPF NO_YES.
F44HIST1 HIST1F.
F44HIST2 HIST2F.
F44POSNR F44POSNR.
F44SFCOL F44SFCOL.
F44GRAM F44GRAM.
F44GRAM1 F44GRAM2 F44GRAM3 F44GRAM4 F44CULT1 F44CULT2
F44CULT3 F44CULT3 F44CULT4 RESULT.
F44CTSCN F44CTSCN.
F44SKFLM F44BRSCN F44EEG OUTCOME.
F44ART F44ART.
F44FRM13 F44FRMF.;

RUN;
QUIT;

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 1

F44VDATE ----- VERSION DATE **DELETED**

type: numeric (float)
label: datelab

range: [6999,9820] units: 1
unique values: 3 coded missing: 0 / 133

tabulation:	Freq.	Numeric	Label
	17	6999	03/01/79
	107	7573	09/25/80
	9	9820	11/20/86

F44EVNT1 ----- ASSOCIATED EVENT CODE 1

type: numeric (float)

range: [30,91] units: 1
unique values: 14 coded missing: 44 / 133

tabulation:	Freq.	Value	tabulation:	Freq.	Value
	3	30		1	50
	4	32		3	54
	1	34		1	62
	1	36		2	83
	6	40		54	84
	1	46		2	90
	8	48		2	91

F44EVNT1:

1. COMPUTED VARIABLE: F44EVNT1=int(F44EVENT/1000000), not saved in R44.SD2.
2. See APPENDIX L for FORM CODES.

F44EVNT2 ----- ASSOCIATED EVENT CODE 2

type: numeric (float)

range: [0,91] units: 1
unique values: 9 coded missing: 44 / 133

tabulation:	Freq.	Value
	60	0
	3	32
	4	40
	1	46
	3	48
	2	54
	1	82
	11	84
	4	91

F44EVNT2:

1. COMPUTED VARIABLE: F44EVNT2=int((F44EVENT-F44EVNT1*1000000)/10000), not saved in R44.SD2.
2. See APPENDIX L for FORM CODES.

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 1

F44EVNT3 ----- ASSOCIATED EVENT CODE 3

type: numeric (float)
range: [0,91] units: 1
unique values: 7 coded missing: 44 / 133
tabulation: Freq. Value

80	0
2	32
1	34
1	40
1	48
3	84
1	91

F44EVNT3:

1. COMPUTED VARIABLE:
F44EVNT3=int((F44EVENT-F44EVNT1*1000000-F44EVNT2*10000)/100), not saved
in R44.SD2.
2. See APPENDIX L for FORM CODES.

F44EVNT4 ----- ASSOCIATED EVENT CODE 4

type: numeric (float)
range: [0,84] units: 1
unique values: 3 coded missing: 44 / 133
tabulation: Freq. Value

86	0
1	46
2	84

F44EVNT4:

1. COMPUTED VARIABLE:
F44EVNT4=(F44EVENT-F44EVNT1*1000000-F44EVNT2*10000-F44EVNT3*100), not
saved in R44.SD2.
2. See APPENDIX L for FORM CODES.

F44RESP ----- RESPONDENT

type: numeric (float)
label: F44RESP
range: [1,2] units: 1
unique values: 2 coded missing: 11 / 133
tabulation: Freq. Numeric Label

31	1	PATIENT
91	2	OTHER

F44HOSP ----- HOSPITALIZED

type: numeric (float)
label: F44HOSP
range: [1,2] units: 1
unique values: 2 coded missing: 1 / 133
tabulation: Freq. Numeric Label

6	1	NO
126	2	YES

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 1

F44TRANS ----- TRANSFUSED IN LAST 6 MONTHS

type: numeric (float)
label: F44TRANS

range: [1,2] units: 1
unique values: 2 coded missing: 6 / 133

tabulation:	Freq.	Numeric	Label
	64	1	NO
	63	2	YES

F44TRANS:

1. NOT COLLECTED BEFORE (NCB) 09/25/80

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 2

F44HIST1 ----- HISTORY BEFORE EPISODE

type: numeric (float)
label: F44HIST1

range: [2,512] units: 1
unique values: 47 coded missing: 11 / 133

tab:	Freq.	Numeric	Label	tab:	Freq.	Numeric	Label
	0	0	NONE (0)		1	255	
	0	1	CONSCIOUSNESS LOSS (1)	13	256		HEADACHE (256)
	4	2	MENTAL CHANGE (2)	2	258		
	1	4	SPEECH DIFFICULTY (4)	1	262		
	14	8	PARALYSIS (8)	3	264		
	2	10		3	266		
	6	12		1	269		
	5	14		1	284		
	0	16	SWALLOWING DIFFICULTY (16)	1	326		
	0	32	VISION DIFFICULTY (32)	2	328		
	0	64	DIZZINESS (64)	1	330		
	1	40		1	331		
	1	68		3	332		
	1	70		2	334		
	2	72		2	335		
	1	73		2	350		
	1	76		1	352		
	1	88		1	360		
	1	98		1	362		
	2	128	SEIZURES (128)	1	367		
	1	134		1	382		
	1	136		3	384		
	1	140		1	392		
	1	206		1	395		
	1	222		1	424		
				1	458		
				23	512		NONE OF ABOVE (512)

F44HIST1:

1. Refer to explanation of 'binary coding' in PART II.

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 2

F44HIST2 ----- HISTORY BEFORE EPISODE

type: numeric (float)
label: F44HIST2

range: [1,128] units: 1
unique values: 21 coded missing: 11 / 133

tabulation:	Freq.	Numeric	Label
	0	0	NONE (0)
	5	1	VOMITING (1)
	4	2	INFECTION (2)
	6	4	FEVER (4)
	7	5	
	13	8	PAINFUL EPISODE (8)
	3	9	
	1	10	
	7	12	
	3	14	
	3	15	
	1	16	GENERAL ANESTHESIA (16)
	1	18	
	1	24	
	1	32	RADIOLOGIC PROC. (32)
	1	36	
	1	38	
	1	39	
	1	44	
	1	64	HEAD TRAUMA (64)
	1	65	
	60	128	NONE OF ABOVE (128)

F44HIST2:

1. Refer to explanation of 'binary coding' in PART II.

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 3

F44POSNR ----- POSNER STAGE

type: numeric (float)
label: F44POSNR

range: [0,5] units: 1
unique values: 6 coded missing: 11 / 133

tabulation:	Freq.	Numeric	Label
	65	0	ALERT
	25	1	LETHARGIC
	14	2	CONFUSED
	4	3	STUPOROUS
	7	4	COMATOSE
	7	5	UNRESPONSIVE

F440PF ----- OTHER PHYSICAL FINDINGS

type: numeric (float)
label: F440PF

range: [1,2] units: 1
unique values: 2 coded missing: 12 / 133

tabulation:	Freq.	Numeric	Label
	57	1	NO
	64	2	YES

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 3

F44CBCHB ----- CBC HB

type: numeric (float)

range: [3,14.2] units: .1
unique values: 58 coded missing: 14 / 133

mean: 8.70588
std. dev: 2.17311

percentiles:	10%	25%	50%	75%	90%
	6.4	7.3	8.4	9.7	12.1

F44CBCHC ----- CBC HCT

type: numeric (float)

range: [8.4,42.2] units: .1
unique values: 90 coded missing: 13 / 133

mean: 25.6258
std. dev: 6.83836

percentiles:	10%	25%	50%	75%	90%
	18.5	20.85	24.6	29	36.5

F44BCRB ----- CBC RBC

type: numeric (float)

range: [.89,5.5] units: .01
unique values: 95 coded missing: 27 / 133

mean: 2.85764
std. dev: .853823

percentiles:	10%	25%	50%	75%	90%
	1.97	2.23	2.755	3.28	4.16

F44CBCWB ----- CBC WBC

type: numeric (float)

range: [5.9,42.5] units: .1
unique values: 94 coded missing: 13 / 133

mean: 16.7883
std. dev: 6.80093

percentiles:	10%	25%	50%	75%	90%
	9.45	11.5	16.15	20.05	25.1

F44CBCWB:

1. Value should be uncorrected for nucleated RBCs

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 3

F44CBMV ----- CBC MCV

type: numeric (float)

range: [69,113]
unique values: 32

units: 1
coded missing: 23 / 133

mean: 91.0273
std. dev: 7.69422

percentiles:	10%	25%	50%	75%	90%
	81.5	87	91	95	101

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44DFPMN ----- DIFFERENTIAL PMN

type: numeric (float)

range: [0,93] units: 1
unique values: 54 coded missing: 18 / 133

mean: 58.4696
std. dev: 16.9986

percentiles:	10%	25%	50%	75%	90%
	36	48	60	72	80

F44DFBND ----- DIFFERENTIAL BANDS

type: numeric (float)

range: [0,41] units: 1
unique values: 18 coded missing: 28 / 133

mean: 3.38095
std. dev: 5.9958

percentiles:	10%	25%	50%	75%	90%
	0	0	1	4	9

F44DFBND:

1. NOT COLLECTED BEFORE (NCB) 09/25/80

F44DFEOS ----- DIFFERENTIAL EOSINOPHILS

type: numeric (float)

range: [0,17] units: 1
unique values: 13 coded missing: 16 / 133

mean: 1.99145
std. dev: 2.88724

percentiles:	10%	25%	50%	75%	90%
	0	0	1	3	6

F44DFBAS ----- DIFFERENTIAL BASOPHILS

type: numeric (float)

range: [0,29] units: 1
unique values: 6 coded missing: 17 / 133

mean: .724138
std. dev: 2.78064

percentiles:	10%	25%	50%	75%	90%
	0	0	0	1	2

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44DFLYM ----- DIFFERENTIAL LYMPHOCYTES

type: numeric (float)

range: [1,74] units: 1
unique values: 50 coded missing: 16 / 133

mean: 28.7179
std. dev: 14.7927

percentiles:	10%	25%	50%	75%	90%
	10	16	29	38	49

F44DFMON ----- DIFFERENTIAL MONOCYTES

type: numeric (float)

range: [0,17] units: 1
unique values: 17 coded missing: 16 / 133

mean: 5.99145
std. dev: 3.72433

percentiles:	10%	25%	50%	75%	90%
	2	3	6	8	12

F44DFATC ----- DIFFERENTIAL ATYPICAL CELLS

type: numeric (float)

range: [0,8] units: 1
unique values: 7 coded missing: 18 / 133

mean: .469565
std. dev: 1.25182

percentiles:	10%	25%	50%	75%	90%
	0	0	0	0	2

F44DFMM ----- DIFFERENTIAL METAMYELOCYTES|MYELOCYTES

type: numeric (float)

range: [0,2] units: 1
unique values: 3 coded missing: 18 / 133

mean: .095652
std. dev: .374023

percentiles:	10%	25%	50%	75%	90%
	0	0	0	0	0

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44NRB ----- NUCLEATED RED BLOOD CELLS

type: numeric (float)

range: [0,169] units: 1
unique values: 18 coded missing: 21 / 133

mean: 6.30357
std. dev: 24.3206

percentiles: 10% 25% 50% 75% 90%
0 0 0 2.5 8

F44PLATE ----- PLATELETS

type: numeric (float)

range: [83,868] units: 1
unique values: 81 coded missing: 37 / 133

mean: 398.49
std. dev: 171.062

percentiles: 10% 25% 50% 75% 90%
210 270.5 378.5 514.5 636

F44SFGLU ----- GLUCOSE - SPINAL FLUID EXAM

type: numeric (float)

range: [0,274] units: 1
unique values: 34 coded missing: 89 / 133

mean: 91.3409
std. dev: 48.6984

percentiles: 10% 25% 50% 75% 90%
57 68 82.5 93.5 157

F44SFPRO ----- PROTEIN - SPINAL FLUID EXAM

type: numeric (float)

range: [0,2200] units: 1
unique values: 30 coded missing: 89 / 133

mean: 96.0909
std. dev: 329.475

percentiles: 10% 25% 50% 75% 90%
12 18 24 62 110

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44SFWBC ----- WBC - SPINAL FLUID EXAM

type: numeric (float)

range: [0,43000] units: 1
unique values: 24 coded missing: 88 / 133

mean: 2951.62
std. dev: 8553.51

percentiles:	10%	25%	50%	75%	90%
	0	0	3	320	12000

F44SFPMN ----- PMN - SPINAL FLUID EXAM

type: numeric (float)

range: [0,99] units: 1
unique values: 15 coded missing: 100 / 133

mean: 21.0909
std. dev: 32.196

percentiles:	10%	25%	50%	75%	90%
	0	0	0	33	82

F44SFPMN:
1. Required only if F44SFWBC > 0

F44SFMON ----- MONONUCLEAR - SPINAL FLUID EXAM

type: numeric (float)

range: [0,99] units: 1
unique values: 16 coded missing: 101 / 133

mean: 29.6563
std. dev: 38.991

percentiles:	10%	25%	50%	75%	90%
	0	0	3.5	63.5	99

F44SFMON:
1. Required only if F44SFWBC > 0

F44SFRBC ----- RBC - SPINAL FLUID EXAM

type: numeric (float)

range: [0,900000] units: 1
unique values: 30 coded missing: 87 / 133

mean: 29770.7
std. dev: 141555

percentiles:	10%	25%	50%	75%	90%
	0	0	17.5	1010	14715

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44SFCOL ----- COLOR - SPINAL FLUID EXAM

type: numeric (float)
label: F44SFCOL

range: [1,2] units: 1
unique values: 2 coded missing: 86 / 133

tabulation:	Freq.	Numeric	Label
	32	1	CLEAR
	15	2	XANTHOCHROMIC

F44GRAM ----- GRAM STAIN

type: numeric (float)
label: F44GRAM

range: [2,2] units: 1
unique values: 1 coded missing: 92 / 133

tabulation:	Freq.	Numeric	Label
	41	2	NEGATIVE

F44GRAM1 ----- GRAM STAIN ORGANISM

type: numeric (float)
label: F44GRAM1

range: [-8,-1] units: 1
unique values: 2 coded missing: 124 / 133

tabulation:	Freq.	Numeric	Label
	3	-8	NOT DONE
	6	-1	NEGATIVE

F44GRAM1:

1. See Appendix H - PATHOGEN LIST
2. Required only if F44GRAM=1

F44GRAM2 ----- GRAM STAIN ORGANISM

type: numeric (float)
label: F44GRAM2

range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

tabulation:	Freq.	Numeric	Label
-------------	-------	---------	-------

F44GRAM2:

1. See Appendix H - PATHOGEN LIST
2. Required only if F44GRAM=1 & >1 organism identified

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44GRAM3 ----- GRAM STAIN ORGANISM

 type: numeric (float)
 label: F44GRAM3

 range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

 tabulation: Freq. Numeric Label

F44GRAM3:

1. See Appendix H - PATHOGEN LIST
2. Required only if F44GRAM=1 & >2 organisms identified

F44GRAM4 ----- GRAM STAIN ORGANISM

 type: numeric (float)
 label: F44GRAM4

 range: [-1,-1] units: 1
unique values: 1 coded missing: 132 / 133

 tabulation: Freq. Numeric Label
 1 -1 NEGATIVE

F44GRAM4:

1. See Appendix H - PATHOGEN LIST
2. Required only if F44GRAM=1 & >3 organisms identified

F44CULT1 ----- CULTURE ORGANISM CODES

 type: numeric (float)
 label: F44CULT1

 range: [-8,900] units: 1
unique values: 3 coded missing: 47 / 133

 tabulation: Freq. Numeric Label
 58 -8 NOT DONE
 27 -1 NEGATIVE
 1 900

F44CULT1:

1. See Appendix H - PATHOGEN LIST

F44CULT2 ----- CULTURE ORGANISM CODES

 type: numeric (float)
 label: F44CULT2

 range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

 tabulation: Freq. Numeric Label

F44CULT2:

1. See Appendix H - PATHOGEN LIST
2. Required only if >1 organism cultured

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 4

F44CULT3 ----- CULTURE ORGANISM CODES

 type: numeric (float)
 label: F44CULT3

 range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

 tabulation: Freq. Numeric Label

F44CULT3:

1. See Appendix H - PATHOGEN LIST
2. Required only if >2 organism cultured

F44CULT4 ----- CULTURE ORGANISM CODES

 type: numeric (float)
 label: F44CULT4

 range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

 tabulation: Freq. Numeric Label

F44CULT4:

1. See Appendix H - PATHOGEN LIST
2. Required only if >3 organism cultured

F44PRES ----- PRESSURE - SPINAL FLUID EXAM

 type: numeric (float)

 range: [10,40] units: 1
unique values: 9 coded missing: 124 / 133

 tabulation: Freq. Value

1	10
1	14
1	16
1	23
1	26
1	31
1	36
1	37
1	40

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 5

F44CTSCN ----- CT SCAN

type: numeric (float)
label: F44CTSCN

range: [1,3] units: 1
unique values: 3 coded missing: 33 / 133

tabulation:	Freq.	Numeric	Label
	37	1	NORMAL
	15	2	ABNORMAL
	48	3	ABNORMAL,RECD

F44SKFLM ----- SKULL FILMS

type: numeric (float)
label: F44SKFLM

range: [10,20] units: 1
unique values: 4 coded missing: 17 / 133

tabulation:	Freq.	Numeric	Label
	1	10	DONE, NO RESULTS
	6	11	DONE, NORMAL
	1	13	DONE, ABNORMAL, RECD
	108	20	NOT DONE

F44SKFCD ----- SKULL FILM CODE

type: numeric (float)

range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

tabulation: Freq. Value

F44SKFCD:

1. Abnormalities were NOT coded, therefore, all values are missing.

F44BRSCN ----- BRAIN SCAN

type: numeric (float)
label: F44BRSCN

range: [10,20] units: 1
unique values: 5 coded missing: 9 / 133

tabulation:	Freq.	Numeric	Label
	2	10	DONE, NO RESULTS
	9	11	DONE, NORMAL
	7	12	DONE, ABNORMAL
	14	13	DONE, ABNORMAL, RECD
	92	20	NOT DONE

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - PAGE 5

F44EEG ----- EEG

type: numeric (float)
label: F44EEG

range: [10,20] units: 1
unique values: 5 coded missing: 15 / 133

tabulation:	Freq.	Numeric	Label
	3	10	DONE, NO RESULTS
	10	11	DONE, NORMAL
	7	12	DONE, ABNORMAL
	35	13	DONE, ABNORMAL, RECD
	63	20	NOT DONE

F44ART ----- ARTERIOGRAM

type: numeric (float)
label: F44ART

range: [11,20] units: 1
unique values: 4 coded missing: 8 / 133

tabulation:	Freq.	Numeric	Label
	13	11	DONE, VESSEL OBST.
	5	12	DONE, NO VESSEL OBST.
	4	13	DONE, VESSEL OBS, RECD
	103	20	NOT DONE

F44ARTCD ----- ARTERIOGRAM CODE

type: numeric (float)

range: [.,.] units: .
unique values: 0 coded missing: 133 / 133

tabulation: Freq. Value

F44ARTCD:

1. Abnormalities were NOT coded, therefore, all values are missing.

F44HBS ----- HB S %

type: numeric (float)

range: [2,91] units: 1
unique values: 22 coded missing: 105 / 133

mean: 39.5357
std. dev: 28.9744

percentiles:	10%	25%	50%	75%	90%
	9	18.5	28.5	60	90

F44HBS:

1. NOT COLLECTED BEFORE (NCB) 09/25/80
2. Required only if F44TRANS=2

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - COMPUTED VARIABLES

F44FLOWS ----- NUMBER OF FLOW SHEETS

type: numeric (float)

range: [0,9] units: 1
unique values: 8 coded missing: 0 / 133

tabulation: Freq. Value

34	0
69	1
16	2
7	3
2	4
3	5
1	8
1	9

F44FLOWS:

1. See section on computed variables.

F44FRM52 -----

----- IS THERE A 52 ON THE DATABASE

type: numeric (float)

range: [33,48]

units: 1

unique values: 4
coded missing: 47 / 133

tabulation: Freq. Value

1	33
1	40
82	44
2	48

F44FRM52:

1. See section on computed variables.
2. See APPENDIX L for FORM CODES.

CODEBOOK FOR CSSCD FORM 44
CEREBROVASCULAR ACCIDENT (CVA) - COMPUTED VARIABLES

F44DHOSP ----- NUMBER OF DAYS HOSPITALIZED

type: numeric (float)

range: [0,148]
unique values: 32

units: 1
coded missing: 19 / 133

tabulation: Freq. Value

6	0
14	1
5	2
10	3
9	4
10	5
6	6
1	7
7	8
7	9
3	10
2	11
3	12
4	14
2	15
2	16

tabulation: Freq. Value

5	17
2	18
1	19
1	20
1	22
1	23
2	25
1	26
2	28
1	29
1	37
1	47
1	63
1	79
1	80
1	148

7.5.4: CSSCD Stroke Questionnaire – Form “41”

F44DHOSP:

1. See section on computed variables.

F44FRM13 ----- IS THERE A 13 ON THE DATABASE

type: numeric (float)
label: F44FRM13

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

tabulation:	Freq.	Numeric	Label
	37	1	NO
	94	2	YES

F44FRM13:

1. See section on computed variables.

_dta:

1. Rerun on 08/23/99.

- A. List of variables deleted **F41INIT F41NDATE F41LASTU F41LASTE
F41ESTAT F41VDATE F41DFC F41DTE1-F41DTE15**
- 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 **F41DTE1-F41DTE15**
- H. New name **J41DTE1-J41DTE15**
- I. Collection Information:

The **CSSCD Stroke Questionnaire** was filled out for each patient who had a CVA prior to September 1986. The reasons for developing the form were to

- 1.) clarify the nature of all CVAs (transient ischemic attack (TIA) vs. infarctive stroke vs. intracerebral hemorrhage) which occurred prior to and/or during the study, and
- 2.) gather data regarding the influence of transfusion treatment on CVA recurrence rates.

In theory, a CSSCD Stroke Questionnaire should have been submitted for all patients with a CVA status of > 0 (SAS dataset **R09.SD2** variable **CVASTAT** > 0) who had at least one CVA event prior to 10/01/86. All CVA events reported on

7.5.4: CSSCD Stroke Questionnaire – Form “41”

Forms 44 and 91 should be listed on the questionnaire. Conversely, a Form 44 should be on the database for any event listed on the CSSCD Stroke Questionnaire which occurred between the date of entry and the end of follow-up (as defined above) if the patient first sought care for the event at a study institution.

- J. Data Collection Period: 09/86 – 09/87
- K. Form Version Dates: 09/03/86
- L. Files Used to Store Information:
SAS System File: **R41.SD2**
Format File: **R41.FMT**
- M. Unique Record Identifiers: **ANONID**
- N. Number of Observations (Patients) in SAS Dataset: 231(231)
- O. Contents of SAS Dataset:
- Alphabetical Listing of Variables: See pp. 542-544
 - Listing of Variables by Position: See pp. 545-546
- P. Notes About Selected Variables:
- **F41NAT1-15** – are binary coded variables. Refer to explanation of “binary coding” in Part II.
 - **F31DTE1-15** – are the variable names for dates of CVA events. If only month and year of an event were reported on the stroke questionnaire form, a value of “15” was entered as the day. If only a year was reported on the form, a value of “06” was entered for the month and a value of “15” for the day.
 - **F41TXT1-15** – are the variable names for duration of transfusion in months. If the patient was transfused only at the time of the event, the transfusion time was reported as “1” month.

If a second CVA occurred while on transfusion, the transfusion time for CVA #1 should be equal $(F41DTE2-F41DTE1)/30.5$; if a third CVA occurred while the patient was on transfusion for CVA #2, the transfusion time for CVA #2 should be equal to $(F41DTE3-F41DTE2)/30.5$, etc.—i.e., counting months of transfusion was restarted at the time of each event listed.

7.5.4: CSSCD Stroke Questionnaire – Form “41”

If the transfusions were ongoing as of the time the questionnaire was completed (**F41DFC**), then the value for transfusion time should be equal to $(\mathbf{F41DFC}-\mathbf{F41DTE}_n)/30.5$, where “n” = the last non-missing CVA date variable.

- **F41INT**, **F41INTNO** – are the variable names for interruption of transfusions for > 12 months and the sequence number of the CVA during which transfusions were interrupted. In a few cases, a patient was transfused for a specified number of months without recurrence but the transfusion program was interrupted for at least 12 months. If this was the case, the value of **F41INT** will be “2”.

Example: patient X has the following values:

Value of **F41INT** = 2

Value of **F41INTNO** = 3

Value of **F41TXT3** = 72

Patient X was transfused for 72 months following CVA #3. However, the 72 months were not contiguous—patient was transfused for first 12 months, then not transfused for > 1 year, and then transfused for another 60 months.

Q. Computed Variables:

- **F41CVTOT** – is the variable name for the total number of CVA events listed in “Record 41”. The value was derived by counting the number of non-missing values for the variables **F41DTE1-15**.
- **F41CVDTH** – is the variable name for whether the patient died within 3 weeks of the last CVA event listed. The value was derived by searching through the temporary death record (“Record 89”). If $\mathbf{F89DATE}-\mathbf{F41DTE}_n \leq 21$ (where “n” = the last non-missing date of event value), the value of **F41CVDTH** was computed to be “2” (yes). The value was updated to “1” (no) for all other “records.”

R. Inter-Relationship With Other Datasets:

1. CVA events occurring during the study period were collected on

Phase 1 Forms	SAS Dataset
Form 44	R44.SD2
Form 53	R53.SD2

[See Sections 7.5.3 & 7.9]

Form 44, the Cerebrovascular Accident form (stored in SAS dataset **R44.SD2**), was used to collect CVA event data from 03/01/79 to 01/01/87 for

7.5.4: CSSCD Stroke Questionnaire – Form “41”

patients entered at < 6 months of age. If any **F41DTEn** value in “Record 41” falls between the patient’s date of entry and the end of follow-up date as defined above, a “Record 44” with the same date should be in the dataset **R44.SD2**. [See Section 7.5.3]

Form 53, the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (stored in SAS dataset **R53.SD2**), was used to continue collection of CVA event data on the newborn cohort from 01/01/87 through the end of Phase 1. If any **F41DTEn** value recorded in a “Record 41” for a patient entered at < 6 months of age falls between 01/01/87 and 09/30/87, a “Record 53” with the same date should be in the dataset **R53.SD2**. [See Section 7.9]

2. Other sources which collect (or store) information about CVA events, transfusion for CVA events

--CVA events:

See Section 7.5.3 for summary of forms/datasets which collect/store information about CVA events.

--transfusion treatment

Form 84, the Transfusion form (stored in **R84.SD2**), was used to collect on-study transfusion data. In theory, for each 12 months of on-study transfusions (**F41TXTn** within study period), there should be 9-12 transfusion records on the database within the 12 month period; reason codes for transfusion (**F84CD1**, **F84CD2**) should be “44” (CVA) and “90” (“hypertransfusion”). [See Section 9.2]

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R41.SD2

DATA FROM CSSCD FORM "41" - NEUROLOGIC EVENTS: STROKE QUESTIONNAIRE
 VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
 IN THE SAS DATASET

The SAS System 10:38 Friday, December 8, 2006 15

The CONTENTS Procedure

Data Set Name	OUT1.R41	Observations	231
Member Type	DATA	Variables	65
Engine	V9	Indexes	0
Created	11:13 Tuesday, December 5, 2006	Observation Length	520
Last Modified	11:13 Tuesday, December 5, 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	9
First Data Page	1
Max Obs per Page	31
Obs in First Data Page	13
Number of Data Set Repairs	0
File Name	r41.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 #
50	F41CVDTH	Num	8	DIED WI 3 WEEKS OF LAST CVA EVENT LISTED
49	F41CVTOT	Num	8	TOTAL NUMBER OF CVAS LISTED
32	F41DTE16	Num	8	DATE OF CVA #16
35	F41DTE17	Num	8	DATE OF CVA #17
38	F41DTE18	Num	8	DATE OF CVA #18
41	F41DTE19	Num	8	DATE OF CVA #19
44	F41DTE20	Num	8	DATE OF CVA #20
47	F41INT	Num	8	TRANSFUSIONS INTERRUPTED FOR > 12 MOS?
48	F41INTNO	Num	8	TRANSFUSIONS INTERRUPTED FOR CVA #?
2	F41NAT1	Num	8	NATURE OF CVA #1
4	F41NAT2	Num	8	NATURE OF CVA #2
6	F41NAT3	Num	8	NATURE OF CVA #3
8	F41NAT4	Num	8	NATURE OF CVA #4
10	F41NAT5	Num	8	NATURE OF CVA #5
12	F41NAT6	Num	8	NATURE OF CVA #6
14	F41NAT7	Num	8	NATURE OF CVA #7
16	F41NAT8	Num	8	NATURE OF CVA #8
18	F41NAT9	Num	8	NATURE OF CVA #9

SECTION 7.5.4 CSSCD STROKE QUESTIONNAIRE

FORM "41"

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

20	F41NAT10	Num	8	NATURE OF CVA #10
22	F41NAT11	Num	8	NATURE OF CVA #11
24	F41NAT12	Num	8	NATURE OF CVA #12
26	F41NAT13	Num	8	NATURE OF CVA #13
28	F41NAT14	Num	8	NATURE OF CVA #14
30	F41NAT15	Num	8	NATURE OF CVA #15
33	F41NAT16	Num	8	NATURE OF CVA #16
36	F41NAT17	Num	8	NATURE OF CVA #17

CODEBOOK FOR CSSCD FORM "41"
CSSCD STROKE QUESTIONNAIRE
 CSSCD FULL COHORT PATIENTS

The SAS System

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The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
39	F41NAT18	Num	8	NATURE OF CVA #18
42	F41NAT19	Num	8	NATURE OF CVA #19
45	F41NAT20	Num	8	NATURE OF CVA #20
3	F41TXT1	Num	8	TRANSFUSION TIME (MOS) FOR CVA #1
5	F41TXT2	Num	8	TRANSFUSION TIME (MOS) FOR CVA #2
7	F41TXT3	Num	8	TRANSFUSION TIME (MOS) FOR CVA #3
9	F41TXT4	Num	8	TRANSFUSION TIME (MOS) FOR CVA #4
11	F41TXT5	Num	8	TRANSFUSION TIME (MOS) FOR CVA #5
13	F41TXT6	Num	8	TRANSFUSION TIME (MOS) FOR CVA #6
15	F41TXT7	Num	8	TRANSFUSION TIME (MOS) FOR CVA #7
17	F41TXT8	Num	8	TRANSFUSION TIME (MOS) FOR CVA #8
19	F41TXT9	Num	8	TRANSFUSION TIME (MOS) FOR CVA #9
21	F41TXT10	Num	8	TRANSFUSION TIME (MOS) FOR CVA #10
23	F41TXT11	Num	8	TRANSFUSION TIME (MOS) FOR CVA #11
25	F41TXT12	Num	8	TRANSFUSION TIME (MOS) FOR CVA #12
27	F41TXT13	Num	8	TRANSFUSION TIME (MOS) FOR CVA #13
29	F41TXT14	Num	8	TRANSFUSION TIME (MOS) FOR CVA #14
31	F41TXT15	Num	8	TRANSFUSION TIME (MOS) FOR CVA #15
34	F41TXT16	Num	8	TRANSFUSION TIME (MOS) FOR CVA #16
37	F41TXT17	Num	8	TRANSFUSION TIME (MOS) FOR CVA #17
40	F41TXT18	Num	8	TRANSFUSION TIME (MOS) FOR CVA #18
43	F41TXT19	Num	8	TRANSFUSION TIME (MOS) FOR CVA #19
46	F41TXT20	Num	8	TRANSFUSION TIME (MOS) FOR CVA #20
51	J41DTE1	Num	8	DATE OF CVA1 - RECODE DAYS SINCE DOE
52	J41DTE2	Num	8	DATE OF CVA2 - RECODE DAYS SINCE DOE
53	J41DTE3	Num	8	DATE OF CVA3 - RECODE DAYS SINCE DOE
54	J41DTE4	Num	8	DATE OF CVA4 - RECODE DAYS SINCE DOE
55	J41DTE5	Num	8	DATE OF CVA5 - RECODE DAYS SINCE DOE
56	J41DTE6	Num	8	DATE OF CVA6 - RECODE DAYS SINCE DOE
57	J41DTE7	Num	8	DATE OF CVA7 - RECODE DAYS SINCE DOE
58	J41DTE8	Num	8	DATE OF CVA8 - RECODE DAYS SINCE DOE
59	J41DTE9	Num	8	DATE OF CVA9 - RECODE DAYS SINCE DOE
60	J41DTE10	Num	8	DATE OF CVA10 - RECODE DAYS SINCE DOE
61	J41DTE11	Num	8	DATE OF CVA11 - RECODE DAYS SINCE DOE
62	J41DTE12	Num	8	DATE OF CVA12 - RECODE DAYS SINCE DOE
63	J41DTE13	Num	8	DATE OF CVA13 - RECODE DAYS SINCE DOE
64	J41DTE14	Num	8	DATE OF CVA14 - RECODE DAYS SINCE DOE
65	J41DTE15	Num	8	DATE OF CVA15 - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

* R41.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R41.SD2
*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 08/13/99 11:34:56;

PROC FORMAT;

* FORMAT NATURE IS DEFINED FOR VARIABLES F41NAT1 F41NAT2 F41NAT3
F41NAT4 F41NAT5
F41NAT6 F41NAT7 F41NAT8
F41NAT9 F41NAT10
F41NAT11 F41NAT12 F41NAT13
F41NAT14 F41NAT15;

VALUE NATURE
1 = 'TIA'
2 = 'THROMBOTIC'
4 = 'HEMORRHAGIC'
9 = 'UNKNOWN';

* FORMAT F41TXT IS DEFINED FOR VARIABLES F41TXT1 F41TXT2 F41TXT3
F41TXT4 F41TXT5
F41TXT6 F41TXT7 F41TXT8
F41TXT9 F41TXT10
F41TXT11 F41TXT12 F41TXT13
F41TXT14 F41TXT15;

VALUE F41TXT
-1 = 'TX STATUS UNKNOWN'
-2 = 'TXD BUT TIME UNKNOWN';

* FORMAT NO_YES IS DEFINED FOR VARIABLES F41INT F41CVDTH;

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

* FORMAT
F41NAT1 F41NAT2 F41NAT3 F41NAT4 F41NAT5
F41NAT6 F41NAT7 F41NAT8 F41NAT9 F41NAT10
F41NAT11 F41NAT12 F41NAT13 F41NAT14 F41NAT15

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

NATURE.

F41TXT1 F41TXT2 F41TXT3 F41TXT4 F41TXT5
F41TXT6 F41TXT7 F41TXT8 F41TXT9 F41TXT10
F41TXT11 F41TXT12 F41TXT13 F41TXT14 F41TXT15
F41TXT.
F41INT F41CVDTH NO_YES.;

RUN;
QUIT;

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

F41VDATE ----- VERSION DATE **DELETED**

type: numeric daily date (int)
label: datelab

range: [9742,9742] units: 1
or equivalently: [03sep1986,03sep1986] units: days
unique values: 1 coded missing: 0 / 231

tabulation:	Freq.	Numeric	Label
	231	9742	09/03/86

F41NAT1 ----- NATURE OF CVA #1

type: numeric (float)
label: F41NAT1

range: [1,9] units: 1
unique values: 5 coded missing: 0 / 231

tabulation:	Freq.	Numeric	Label
	27	1	TIA
	136	2	THROMBOTIC
	34	4	HEMORRHAGIC
	2	6	
	32	9	UNKNOWN

F41NAT1:

1. Required only if F41DTE1 has value.

DELETED

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

F41TXT1 ----- TRANSFUSION TIME (MOS) FOR CVA #1

type: numeric (float)

label: F41TXT1

range: [-2,195]

units: 1

unique values: 65

coded missing: 0 / 231

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
12	-2	TXD BUT TIME UNKNOWN	2	47	
24	-1	TX STATUS UNKNOWN	3	48	
51	0		1	49	
24	1		1	52	
4	2		1	55	
3	3		1	60	
3	4		1	62	
1	5		2	63	
7	6		1	66	
2	7		2	69	
3	8		2	70	
1	9		1	72	
4	10		1	73	
1	11		1	78	
7	12		1	80	
1	13		1	81	
4	14		2	84	
1	15		1	85	
1	17		1	93	
2	18		3	96	
2	19		1	98	
1	20		1	100	
2	22		2	103	
6	24		2	114	
1	29		1	116	
1	30		2	120	
1	32		2	123	
5	34		1	130	
1	35		1	132	
6	36		1	136	
1	40		1	140	
1	43		1	195	
2	46				

F41TXT1:

1. Required only if F41DTE1 has value.

DELETED

CODEBOOK FOR CSSCD FORM "41"

CSSCD STROKE QUESTIONNAIRE

CSSCD FULL COHORT PATIENTS

F41NAT2 ----- NATURE OF CVA #2

type: numeric (float)
label: F41NAT2

range: [1,9] units: 1
unique values: 5 coded missing: 165 / 231

tabulation:	Freq.	Numeric	Label
	10	1	TIA
	42	2	THROMBOTIC
	9	4	HEMORRHAGIC
	1	6	
	4	9	UNKNOWN

F41NAT2:

1. Required only if F41DTE2 has value.

DELETED

F41TXT2 ----- TRANSFUSION TIME (MOS) FOR CVA #2

type: numeric (float)
label: F41TXT2

range: [-2,168] units: 1
unique values: 27 coded missing: 166 / 231

tabulation:

Freq.	Numeric	Label		
			1	112
3	-2	TXD BUT TIME UNKNOWN	1	168
4	-1	TX STATUS UNKNOWN		
8	0			
14	1			
1	2			
3	3			
2	4			
1	6			
1	7			
2	9			
1	10			
5	12			
1	19			
2	20			
Freq.	Numeric	Label		
2	24			
1	34			
4	36			
1	46			
1	48			
1	52			
1	61			
1	78			
1	83			
1	95			
1	96			

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

F41TXT2:

1. Required only if F41DTE2 has value.

DELETED

F41NAT3 ----- NATURE OF CVA #3

type: numeric (float)
label: F41NAT3

range: [1,9] units: 1
unique values: 4 coded missing: 210 / 231

tabulation:	Freq.	Numeric	Label
	4	1	TIA
	14	2	THROMBOTIC
	2	4	HEMORRHAGIC
	1	9	UNKNOWN

F41NAT3:

1. Required only if F41DTE3 has value.

DELETED

F41TXT3 ----- TRANSFUSION TIME (MOS) FOR CVA #3

type: numeric (float)
label: F41TXT3

range: [0,153] units: 1
unique values: 17 coded missing: 211 / 231

tabulation:	Freq.	Numeric	Label
	1	0	
	1	1	
	1	3	
	1	6	
	1	8	
	1	11	
	2	12	
	1	25	
	1	27	
	1	34	
	1	36	
	1	47	
	1	53	
	3	60	
	1	120	
	1	150	

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

1 153

F41TXT3:

1. Required only if F41DTE3 has value.

DELETED

F41NAT4 ----- NATURE OF CVA #4

type: numeric (float)
label: F41NAT4

range: [1,9] units: 1
unique values: 3 coded missing: 223 / 231

tabulation:	Freq.	Numeric	Label
	4	1	TIA
	3	2	THROMBOTIC
	1	9	UNKNOWN

F41NAT4:

1. Required only if F41DTE4 has value.

DELETED

F41TXT4 ----- TRANSFUSION TIME (MOS) FOR CVA #4

type: numeric (float)
label: F41TXT4

range: [0,126] units: 1
unique values: 7 coded missing: 223 / 231

tabulation:	Freq.	Numeric	Label
	1	0	
	2	1	
	1	24	
	1	36	
	1	58	
	1	72	
	1	126	

F41TXT4:

1. Required only if F41DTE4 has value.

DELETED

F41NAT5 ----- NATURE OF CVA #5

type: numeric (float)
label: F41NAT5

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

range: [1,2] units: 1
unique values: 2 coded missing: 228 / 231

tabulation:	Freq.	Numeric	Label
	2	1	TIA
	1	2	THROMBOTIC

F41NAT5:

1. Required only if F41DTE5 has value.

DELETED

F41TXT5 ----- TRANSFUSION TIME (MOS) FOR CVA #5

type: numeric (float)
label: F41TXT5

range: [1,13] units: 1
unique values: 3 coded missing: 228 / 231

tabulation:	Freq.	Numeric	Label
	1	1	
	1	3	
	1	13	

F41TXT5:

1. Required only if F41DTE5 has value.

DELETED

F41NAT6 ----- NATURE OF CVA #6

type: numeric (float)
label: F41NAT6

range: [1,1] units: 1
unique values: 1 coded missing: 229 / 231

tabulation:	Freq.	Numeric	Label
	2	1	TIA

F41NAT6:

1. Required only if F41DTE6 has value.

DELETED

F41TXT6 ----- TRANSFUSION TIME (MOS) FOR CVA #6

type: numeric (float)
label: F41TXT6

range: [14,29] units: 1
unique values: 2 coded missing: 229 / 231

tabulation:	Freq.	Numeric	Label
	1	14	

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

1 29

F41TXT6:

1. Required only if F41DTE6 has value.

DELETED

F41NAT7 ----- NATURE OF CVA #7

type: numeric (float)
label: F41NAT7

range: [1,1] units: 1
unique values: 1 coded missing: 229 / 231

tabulation: Freq. Numeric Label
2 1 TIA

F41NAT7:

1. Required only if F41DTE7 has value.

DELETED

F41TXT7 ----- TRANSFUSION TIME (MOS) FOR CVA #7

type: numeric (float)
label: F41TXT7

range: [.,.] units: .
unique values: 0 coded missing: 231 / 231

tabulation: Freq. Numeric Label

F41TXT7:

1. Required only if F41DTE7 has value.

DELETED

F41NAT8 ----- NATURE OF CVA #8

type: numeric (float)
label: F41NAT8

range: [1,1] units: 1
unique values: 1 coded missing: 229 / 231

tabulation: Freq. Numeric Label
2 1 TIA

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

F41NAT8:

1. Required only if F41DTE8 has value.

DELETED

F41TXT8 ----- TRANSFUSION TIME (MOS) FOR CVA #8

type: numeric (float)

label: F41TXT8

range: [3,5]

units: 1

unique values: 2

coded missing: 229 / 231

tabulation:	Freq.	Numeric	Label
	1	3	
	1	5	

F41TXT8:

1. Required only if F41DTE8 has value.

DELETED

F41NAT9 ----- NATURE OF CVA #9

type: numeric (float)

label: F41NAT9

range: [1,1]

units: 1

unique values: 1

coded missing: 229 / 231

tabulation:	Freq.	Numeric	Label
	2	1	TIA

F41NAT9:

1. Required only if F41DTE9 has value.

DELETED

F41TXT9 ----- TRANSFUSION TIME (MOS) FOR CVA #9

type: numeric (float)

label: F41TXT9

range: [1,1]

units: 1

unique values: 1

coded missing: 229 / 231

tabulation:	Freq.	Numeric	Label
	2	1	

F41TXT9:

1. Required only if F41DTE9 has value.

DELETED

F41NAT10 ----- NATURE OF CVA #10

type: numeric (float)

label: F41NAT10

range: [1,1]

units: 1

unique values: 1

coded missing: 230 / 231

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

tabulation: Freq. Numeric Label
 1 1 TIA

F41NAT10:

1. Required only if F41DTE10 has value.

DELETED

F41TXT10 ----- TRANSFUSION TIME (MOS) FOR CVA #10

 type: numeric (float)
 label: F41TXT10

 range: [23,23] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 23

F41TXT10:

1. Required only if F41DTE10 has value.

DELETED

F41NAT11 ----- NATURE OF CVA #11

 type: numeric (float)
 label: F41NAT11

 range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 1 TIA

F41NAT11:

1. Required only if F41DTE11 has value.

DELETED

F41TXT11 ----- TRANSFUSION TIME (MOS) FOR CVA #11

 type: numeric (float)
 label: F41TXT11

 range: [23,23] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 23

F41TXT11:

1. Required only if F41DTE11 has value.

DELETED

F41NAT12 ----- NATURE OF CVA #12

 type: numeric (float)
 label: F41NAT12

 range: [1,1] units: 1

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 1 TIA

F41NAT12:

1. Required only if F41DTE12 has value.

DELETED

F41TXT12 ----- TRANSFUSION TIME (MOS) FOR CVA #12

 type: numeric (float)
 label: F41TXT12

 range: [4,4] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 4

F41TXT12:

1. Required only if F41DTE12 has value.

DELETED

F41NAT13 ----- NATURE OF CVA #13

 type: numeric (float)
 label: F41NAT13

 range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 1 TIA

F41NAT13:

1. Required only if F41DTE13 has value.

DELETED

F41TXT13 ----- TRANSFUSION TIME (MOS) FOR CVA #13

 type: numeric (float)
 label: F41TXT13

 range: [7,7] units: 1
unique values: 1 coded missing: 230 / 231

tabulation: Freq. Numeric Label
 1 7

F41TXT13:

1. Required only if F41DTE13 has value.

DELETED

F41NAT14 ----- NATURE OF CVA #14

 type: numeric (float)
 label: F41NAT14

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation:	Freq.	Numeric	Label
	1	1	TIA

F41NAT14:

1. Required only if F41DTE14 has value.

DELETED

F41TXT14 ----- TRANSFUSION TIME (MOS) FOR CVA #14

type: numeric (float)
label: F41TXT14

range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation:	Freq.	Numeric	Label
	1	1	

F41TXT14:

1. Required only if F41DTE14 has value.

DELETED

F41NAT15 ----- NATURE OF CVA #15

type: numeric (float)
label: F41NAT15

range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation:	Freq.	Numeric	Label
	1	1	TIA

F41NAT15:

1. Required only if F41DTE15 has value.

DELETED

F41TXT15 ----- TRANSFUSION TIME (MOS) FOR CVA #15

type: numeric (float)
label: F41TXT15

range: [1,1] units: 1
unique values: 1 coded missing: 230 / 231

tabulation:	Freq.	Numeric	Label
	1	1	

F41TXT15:

1. Required only if F41DTE15 has value.

DELETED

F41NAT16 ----- NATURE OF CVA #16

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

type: numeric (float)
range: [.,.] units: .
unique values: 0 coded missing: 231 / 231
tabulation: Freq. Value

F41NAT16:

1. Required only if F41DTE16 has value.

F41TXT16 ----- TRANSFUSION TIME (MOS) FOR CVA #16

type: numeric (float)
range: [.,.] units: .
unique values: 0 coded missing: 231 / 231
tabulation: Freq. Value

F41TXT16:

1. Required only if F41DTE16 has value.

F41INT ----- TRANSFUSIONS INTERRUPTED FOR > 12 MOS?

type: numeric (float)
label: F41INT
range: [2,2] units: 1
unique values: 1 coded missing: 228 / 231
tabulation: Freq. Numeric Label
3 2 YES

F41INTNO ----- TRANSFUSIONS INTERRUPTED FOR CVA #?

type: numeric (float)
range: [1,1] units: 1
unique values: 1 coded missing: 228 / 231
tabulation: Freq. Value
3 1

F41CVTOT ----- TOTAL NUMBER OF CVAS LISTED

type: numeric (float)
range: [1,15] units: 1
unique values: 7 coded missing: 0 / 231
tabulation: Freq. Value
166 1
44 2
13 3

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

5 4
1 5
1 9
1 15

F41CVDTH ----- DIED WI 3 WEEKS OF LAST CVA EVENT LISTED

type: numeric (float)
label: F41CVDTH

range: [1,2] units: 1
unique values: 2 coded missing: 0 / 231

tabulation:	Freq.	Numeric	Label
	216	1	NO
	15	2	YES

_dta:

1. Created 06/19/90.

A. List of variables deleted **F45DATE F45INIT F45NDATE F45LASTU F45LASTE
F45ESTAT F45VDATE F45DTE1-F45DTE6**

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 **F45DATE**

H. New name **JF45DATE**

I. Collection Information:

Form 45 was filled out whenever either a Meningitis form (Form 42) or a Cerebrovascular Accident form (Form 44) was filled out if a patient was hospitalized or seen daily for either of these events. Each flow sheet contains 6 days of hospital information. According to the form, data was to be recorded every three days.

Consequently, the first flow sheet (**F45SHEET=1**) should have physical exam data for hospital days 3, 6, 9, 12, 15, 18. Laboratory data was to be collected on hospital days 3 and 6 for meningitis events only (if **F45EVENT=42**). Multiple Form 45s can exist for a given event depending on the length of hospitalization or daily outpatient follow-up.

J. Data Collection Period: 03/79 – 12/86

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

Form 45 was used between 03/79 and 06/86 for all patients and continued to be used for patients entered at < 6 months of age through 12/86.

K. Form Version Dates: 03/01/79, 03/12/82

The codebook schema coincides with the most recent version of the form.

L. Files Used to Store Information:

SAS System File: **R45.SD2**

Format File: **R45.FMT**

M. Unique Record Identifiers: **ANONID, F45DATE, F45SHEET**

All flow sheets are in order by **ANONID**, date of occurrence (**F45DATE**), and flow sheet number (**F45SHEET**), in the SAS dataset.

Although Form 45 collects dates on which the laboratory work was done, the lab dates are not stored in the SAS dataset.

N. Number of Observations (Patients) in SAS Dataset: 215(105)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 564-566
- Listing of Variables by Position: See pp. 567-568

P. Notes About Selected Variables:

Collection of laboratory data was required for meningitis events only. In addition, responses to some laboratory tests were conditional upon a response to a previous variable: responses to **F45SFPM1-2** and **F45SFMON1-2** were required only if **F45SFWB1-2** was > 0.

- **F45CBWB1-2** – are the variable names for CBC White Blood Cell Count. The value for this variable should be uncorrected for nucleated RBCs.
- **CBC WBC Differential** – values for one or more of the WBC differential variables (**F45DPMN1-2, F45DBDN1-2, F45DEOS1-2, F45DBAS1-2, F45DLYM1-2, F45DMON1-2, F45DMM1-2, F45DATC1-2**) may be missing when the value should in fact be “0” since some clinic personnel just entered numbers for variables with non-zero values. If the sum of the differential variables with non-missing values is 100, the differential variables with missing values are assumed to have a value of “0”.

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

For differential variable names ending with the integer “2”, spaces on the form for recording results were not lined up very well with the differential result requested which probably resulted in entering values for the wrong variable. Monocyte (**F45MON2**) values of > 20 may in fact be the value for % lymphs (**F45DLYM2**).

- **F45SFWB1-2, F45SFRB1-2** – are variable names for CSF WBC and CSF RBC respectively. The units of measurement specified for these variables on Form 45 were inappropriate (___) . (___) x 10⁹/liter, (___) . (___) x 10¹²/liter respectively. Because of the inappropriate units specified on Form 45 for these variables, it is difficult to determine whether the values recorded are number of cells or number of cells x 10⁹/liter for WBC (or number of cells x 10¹²/liter for RBC). For example, a value of 1.5 could be 15 cells or 1500 cells. Because of the problems with values for these two variables, it would be better to dichotomize the values for both:
 - If **F45SFWB1-2 (F45SFRB1-2) = 0**, then **F45SFWB1-2 (F45SFRB1-2) = 0**
(absent)
 - If **F45SFWB1-2 (F45SFRB1-2) > 0**, then **F45SFWB1-2 (F45SFRB1-2) = 1**
(present)
- **F45SFPM1-2, F45SFMO1-2** – are variable names for CSF WBC pmns and CSF WBC monos respectively. The value recorded should be the proportion % of CSF WBC cells that were pmns, monos respectively. However, the value recorded on the form may in fact be # of cells rather than % of CSF WBC. Both variables have a field length of only 2 digits. A value of “99” was entered if the proportion was 100%.
- **F45DTE1-6** – are the hospitalization date variables; they are defined as 4-digit integers (mmdd date format).
- **F45SFPR1-2** – are variable names for CSF protein. These variables were inappropriately defined with a 2-digit field length. Values > “99” were entered as “99” on the database.

Q. Computed Variables:

- **F45EVENT** – is the variable name for the code number of the event for which the flow sheets were completed. The only valid values are “42” (meningitis) and “44” (CVA). The value was derived by linking “Record 45” with “Record 42” or

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

“Record 44” by date and making **F45EVENT** equal to the record # of the record which linked.

R. Inter-Relationship With Other Datasets:

“Record 45” contains daily follow-up data for either meningitis events reported in “Record 42” or CVA events reported in “Record 44.” The event identifier variable in “Record 45” is **F45EVENT**: if **F45EVENT**=42, then “Record 45” should link with a meningitis record (“Record 42”); if **F45EVENT**=44, then “Record 45” should link with a CVA record (“Record 44”). “Record 45” is linked to “Record 42” (or 44) by **ANONID** and date patient first sought care (if **F42DATE**=**F45DATE** or if **F44DATE**=**F45DATE**). The number of “Record 45s” which will link with a given “Record 42” or “Record 44” depends on the length of hospitalization.

If the daily data are reported and patient was hospitalized (or seen daily) for ≤ 7 days, only one “Record 45” should be on the database (**F45SHEET**=1) for the event; if a patient was hospitalized for 8-13 days, two “Record 45s” should be on the database (**F45SHEET**=1 for days 2 through 7, **F45SHEET**=2 for days 8 through 13), etc.

If the data are recorded only every 3 days per instructions on Form 45, then **F45SHEET**=1 should cover hospital days 3 through 18. If a patient was hospitalized for 21-36 days, **F45SHEET**=2 should store data for hospital days 21, 24, 27, 30, 33, 36; **F45SHEET**=3 should store data for hospital days 39, 42, 45, 48, 51, 54, etc.

The value for the variable **F42FLOWS** (or **F44FLOWS**) in **R42.SD2** (or **R44.SD2**) is the number of flow sheet “Record 45s” on the database which link by date with the “Record 42” (or “Record 44”). The value for the variable **F42DHOSP** in **R42.SD2** (or **F44DHOSP** in **R44.SD2**) is the number of days hospitalized which was computed by subtracting **F42DATE** (or **F44DATE**) from the last non-missing **F45DTE**n value on the last sheet number (**F45SHEET**) which linked by date to a “Record 42” (if **F45DATE**=**F42DATE**) or to a “Record 44” (if **F45DATE**=**F44DATE**).

7.5.5: Cerebrovascular Accident and Meningitis Flow Sheet – Form 45

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET

CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R45.SD2

DATA FROM CSSCD FORM 45 - CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET
 VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
 IN THE SAS DATASET AND ON FORM 45

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The CONTENTS Procedure

Data Set Name	OUT1.R45	Observations	215
Member Type	DATA	Variables	63
Engine	V9	Indexes	0
Created	11:52 Tuesday, December 5, 2006	Observation Length	504
Last Modified	11:52 Tuesday, December 5, 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	8
First Data Page	1
Max Obs per Page	32
Obs in First Data Page	15
Number of Data Set Repairs	0
File Name	r45.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 #
16	F45CBHB1	Num	8	CBC HEMOGLOBIN (G DL) - DAY 3
17	F45CBHB2	Num	8	CBC HEMOGLOBIN (G DL) - DAY 6
18	F45CBHC1	Num	8	CBC HEMATOCRIT (%) - DAY 3
19	F45CBHC2	Num	8	CBC HEMATOCRIT (%) - DAY 6
20	F45CBWB1	Num	8	CBC WBC (10(9) L) - DAY 3
21	F45CBWB2	Num	8	CBC WBC (10(9) L) - DAY 6
58	F45CULT1	Num	8	CSF CULTURE ORGANISM CODE- DAY 3
59	F45CULT2	Num	8	CSF CULTURE ORGANISM CODE- DAY 6
34	F45DATC1	Num	8	DIFFERENTIAL ATYPICAL CELLS(%) - DAY 3
35	F45DATC2	Num	8	DIFFERENTIAL ATYPICAL CELLS(%) - DAY 6
28	F45DBAS1	Num	8	DIFFERENTIAL BASOS(%) - DAY 3
29	F45DBAS2	Num	8	DIFFERENTIAL BASOS(%) - DAY 6
24	F45DBDN1	Num	8	DIFFERENTIAL BANDS(%) - DAY 3
25	F45DBDN2	Num	8	DIFFERENTIAL BANDS(%) - DAY 6
10	F45DEF1	Num	8	DEFICITS
11	F45DEF2	Num	8	DEFICITS
12	F45DEF3	Num	8	DEFICITS
13	F45DEF4	Num	8	DEFICITS

SECTION 7.5.5 CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET

FORM 45

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET
CSSCD FULL COHORT PATIENTS

14	F45DEF5	Num	8	DEFICITS
15	F45DEF6	Num	8	DEFICITS
26	F45DEOS1	Num	8	DIFFERENTIAL EOS(%) - DAY 3
27	F45DEOS2	Num	8	DIFFERENTIAL EOS(%) - DAY 6
30	F45DLYM1	Num	8	DIFFERENTIAL LYMPHS(%) - DAY 3
31	F45DLYM2	Num	8	DIFFERENTIAL LYMPHS(%) - DAY 6
36	F45DMM1	Num	8	DIFFERENTIAL METAMYEL.-MYEL.(%) - DAY 3
37	F45DMM2	Num	8	DIFFERENTIAL METAMYEL.-MYEL.(%) - DAY 6

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET
 CSSCD FULL COHORT PATIENTS

The SAS System

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The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
32	F45DMON1	Num	8	DIFFERENTIAL MONOS(%) - DAY 3
33	F45DMON2	Num	8	DIFFERENTIAL MONOS(%) - DAY 6
22	F45DPMN1	Num	8	DIFFERENTIAL PMNS(%) - DAY 3
23	F45DPMN2	Num	8	DIFFERENTIAL PMNS(%) - DAY 6
62	F45EVENT	Num	8	ASSOCIATED EVENT FOR FLOW SHEET
56	F45GRAM1	Num	8	CSF GRAM STAIN- DAY 3
57	F45GRAM2	Num	8	CSF GRAM STAIN- DAY 6
3	F45HOSP	Num	8	HOSPITALIZED OR OUTPATIENT
38	F45NRB1	Num	8	NUCLEATED RBCS (100 WBCS) - DAY 3
39	F45NRB2	Num	8	NUCLEATED RBCS (100 WBCS) - DAY 6
40	F45PLT1	Num	8	PLATELET COUNT- DAY 3
41	F45PLT2	Num	8	PLATELET COUNT- DAY 6
4	F45POSN1	Num	8	DEFICITS - DATE 1
5	F45POSN2	Num	8	DEFICITS - DATE 2
6	F45POSN3	Num	8	DEFICITS - DATE 3
7	F45POSN4	Num	8	DEFICITS - DATE 4
8	F45POSN5	Num	8	DEFICITS - DATE 5
9	F45POSN6	Num	8	DEFICITS - DATE 6
60	F45PRES1	Num	8	CSF PRESSURE- DAY 3
61	F45PRES2	Num	8	CSF PRESSURE- DAY 6
54	F45SFC01	Num	8	CSF COLOR- DAY 3
55	F45SFC02	Num	8	CSF COLOR- DAY 6
42	F45SFGL1	Num	8	CSF GLUCOSE- DAY 3
43	F45SFGL2	Num	8	CSF GLUCOSE- DAY 6
50	F45SFM01	Num	8	CSF MONOS (%) - DAY 3
51	F45SFM02	Num	8	CSF MONOS (%) - DAY 6
48	F45SFPM1	Num	8	CSF PMNS (%) - DAY 3
49	F45SFPM2	Num	8	CSF PMNS (%) - DAY 6
44	F45SFPR1	Num	8	CSF PROTEIN- DAY 3
45	F45SFPR2	Num	8	CSF PROTEIN- DAY 6
52	F45SFRB1	Num	8	CSF RBC- DAY 3
53	F45SFRB2	Num	8	CSF RBC- DAY 6
46	F45SFWB1	Num	8	CSF WBC- DAY 3
47	F45SFWB2	Num	8	CSF WBC- DAY 6
2	F45SHEET	Num	8	SHEET NUMBER
63	JF45DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET
CSSCD FULL COHORT PATIENTS

* R45.FMT contains value labels for numerical codes assigned to categorical *
* variables in the SAS dataset R45.SD2 *
*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD
04/25/99 11:46:27;

PROC FORMAT;

* FORMAT F45HOSP IS DEFINED FOR VARIABLE F45HOSP;

VALUE F45HOSP
1 = 'HOSPITALIZED'
2 = 'OUTPATIENT';

* FORMAT F45DEF IS DEFINED FOR VARIABLES F45DEF1 F45DEF2 F45DEF3 F45DEF4
F45DEF5 F45DEF6;

VALUE F45DEF
0 = 'INCOMPLETE RESPONSE'
1 = 'SEIZURE DISORDER'
2 = 'HEMIPARETIS-RIGHT'
4 = 'HEMIPARETIS-LEFT'
8 = 'SPEECH DEFECT'
16 = 'HEARING DEFECT'
32 = 'OTHER'
64 = 'NONE';

* FORMAT F45SFCO IS DEFINED FOR VARIABLE F45SFCO1 F45SFCO2;

VALUE F45SFCO
1 = 'CLEAR'
2 = 'XANTH.'
3 = 'OTHER';

* FORMAT F45GRAM IS DEFINED FOR VARIABLE F45GRAM1 F45GRAM2;

VALUE F45GRAM
1 = 'POSITIVE'
2 = 'NEGATIVE';

* FORMAT F45CULT IS DEFINED FOR VARIABLE F45CULT1 F45CULT2;

VALUE F45CULT
-1 = 'NEGATIVE';

* FORMAT F45EVENT IS DEFINED FOR VARIABLE F45EVENT;

VALUE F45EVENT
42 = 'MENINGITIS'
44 = 'CVA';

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET
CSSCD FULL COHORT PATIENTS

* FORMAT

F45HOSP F45HOSP.
F45DEF1 F45DEF2 F45DEF3 F45DEF4 F45DEF5 F45DEF6 F45DEF.
F45SFCO1 F45SFCO2 F45SFCO.
F45GRAM1 F45GRAM2 F45GRAM.
F45CULT1 F45CULT2 F45CULT.
F45EVENT F45EVENT. ;

RUN;

QUIT;

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET- PAGE 1
 CSSCD FULL COHORT PATIENTS

F45SHEET ----- SHEET NUMBER

type: numeric (float)
 range: [1,9] units: 1
 unique values: 9 coded missing: 0 / 215

tabulation:	Freq.	Value
	128	1
	45	2
	20	3
	10	4
	5	5
	2	6
	2	7
	2	8
	1	9

F45VDATE ----- VERSION DATE **DELETED**

type: numeric (int)
 label: datelab
 range: [6999,8106] units: 1
 unique values: 2 coded missing: 0 / 215

tabulation:	Freq.	Numeric	Label
	143	6999	03/01/79
	72	8106	03/12/82

F45HOSP ----- HOSPITALIZED OR OUTPATIENT

type: numeric (float)
 label: F45HOSP
 range: [1,2] units: 1
 unique values: 2 coded missing: 20 / 215

tabulation:	Freq.	Numeric	Label
	192	1	HOSPITALIZED
	3	2	OUTPATIENT

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45POSN1 ----- DEFICITS - DATE 1

type: numeric (float)
 range: [0,5] units: 1
 unique values: 6 coded missing: 10 / 215

tabulation:	Freq.	Value
	110	0
	36	1
	26	2
	5	3
	22	4
	6	5

F45POSN2 ----- DEFICITS - DATE 2

type: numeric (float)
 range: [0,5] units: 1
 unique values: 6 coded missing: 24 / 215

tabulation:	Freq.	Value
	116	0
	23	1
	22	2
	5	3
	21	4
	4	5

F45POSN3 ----- DEFICITS - DATE 3

type: numeric (float)
 range: [0,4] units: 1
 unique values: 5 coded missing: 40 / 215

tabulation:	Freq.	Value
	117	0
	16	1
	19	2
	2	3
	21	4

F45POSN4 ----- DEFICITS - DATE 4

type: numeric (float)
 range: [0,5] units: 1
 unique values: 6 coded missing: 64 / 215

tabulation:	Freq.	Value
	103	0
	15	1
	13	2
	3	3
	16	4
	1	5

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CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
CSSCD FULL COHORT PATIENTS

F45POSN5 ----- DEFICITS - DATE 5

type: numeric (float)

range: [0,5]

units: 1

unique values: 6

coded missing: 84 / 215

tabulation:	Freq.	Value
	90	0
	9	1
	13	2
	2	3
	15	4
	2	5

F45POSN6 ----- DEFICITS - DATE 6

type: numeric (float)

range: [0,5]

units: 1

unique values: 6

coded missing: 100 / 215

tabulation:	Freq.	Value
	75	0
	9	1
	13	2
	2	3
	14	4
	2	5

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF1 ----- DEFICITS

type: numeric (float)
 label: F45DEF1

range: [1,64] units: 1
 unique values: 29 coded missing: 5 / 215

tabulation:	Freq.	Numeric	Label
	0	0	INCOMPLETE RESPONSE(0)
	3	1	SEIZURE DISORDER(1)
	11	2	HEMIPARESIS-RIGHT(2)
	10	3	
	18	4	HEMIPARESIS-LEFT(4)
	6	6	
	3	8	SPEECH DEFECT(8)
	2	9	
	14	10	
	3	11	
	2	12	
	1	13	
	9	15	
	4	16	HEARING DEFECT(16)
	1	22	
	1	24	
	1	27	
	1	30	
	6	31	
	8	32	OTHER(32)
	1	33	
	6	34	
	3	36	
	6	40	
	1	41	
	3	42	
	1	44	
	1	47	
	2	63	
	82	64	NONE(64)

F45DEF1:

1. Refer to explanation of 'binary coding' in PART II.

CODEBOOK FOR CSSCD FORM 45
CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF2 ----- DEFICITS

type: numeric (float)
 label: F45DEF2

range: [1,64] units: 1
 unique values: 29 coded missing: 20 / 215

tabulation:	Freq.	Numeric	Label
	0	0	INCOMPLETE RESPONSE(0)
	1	1	SEIZURE DISORDER(1)
	7	2	HEMIPARESIS-RIGHT(2)
	8	3	
	17	4	HEMIPARESIS-LEFT(4)
	5	6	
	3	8	SPEECH DEFECT(8)
	14	10	
	3	11	
	2	12	
	1	13	
	8	15	
	2	16	HEARING DEFECT(16)
	1	19	
	1	22	
	1	24	
	1	27	
	1	28	
	6	31	
	10	32	OTHER(32)
	1	33	
	4	34	
	3	36	
	1	37	
	3	40	
	3	42	
	1	44	
	1	47	
	1	62	
	85	64	NONE(64)

F45DEF2:

1. Refer to explanation of 'binary coding' in PART II.

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CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF3 ----- DEFICITS

type: numeric (float)
 label: F45DEF3

range: [2,64] units: 1
 unique values: 25 coded missing: 35 / 215

tabulation:	Freq.	Numeric	Label
	0	0	INCOMPLETE RESPONSE(0)
	0	1	SEIZURE DISORDER(1)
	7	2	HEMIPARESIS-RIGHT(2)
	9	3	
	15	4	HEMIPARESIS-LEFT(4)
	4	6	
	2	8	SPEECH DEFECT(8)
	1	9	
	13	10	
	2	11	
	2	12	
	1	13	
	8	15	
	2	16	HEARING DEFECT(16)
	1	22	
	2	27	
	1	28	
	6	31	
	8	32	OTHER(32)
	1	33	
	3	34	
	4	36	
	1	37	
	2	40	
	1	42	
	1	47	
	83	64	NONE(64)

F45DEF3:

1. Refer to explanation of 'binary coding' in PART II.

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CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF4 ----- DEFICITS

type: numeric (float)
 label: F45DEF4

range: [0,64] units: 1
 unique values: 22 coded missing: 62 / 215

tabulation:	Freq.	Numeric	Label
	1	0	INCOMPLETE RESPONSE(0)
	1	1	SEIZURE DISORDER(1)
	3	2	HEMIPARESIS-RIGHT(2)
	6	3	
	11	4	HEMIPARESIS-LEFT(4)
	4	6	
	1	8	SPEECH DEFECT(8)
	10	10	
	3	11	
	1	12	
	8	15	
	2	16	HEARING DEFECT(16)
	1	19	
	2	27	
	1	28	
	5	31	
	8	32	OTHER(32)
	3	34	
	5	36	
	2	42	
	1	47	
	74	64	NONE(64)

F45DEF4:

1. Refer to explanation of 'binary coding' in PART II.

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CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF5 ----- DEFICITS

```

        type:  numeric (float)
        label:  F45DEF5

        range:  [0,64]                units:  1
unique values: 21                  coded missing: 84 / 215

```

tabulation:	Freq.	Numeric	Label
	1	0	INCOMPLETE RESPONSE(0)
	0	1	SEIZURE DISORDER(1)
	2	2	HEMIPARESIS-RIGHT(2)
	6	3	
	8	4	HEMIPARESIS-LEFT(4)
	5	6	
	10	10	
	3	11	
	1	12	
	8	15	
	1	16	HEARING DEFECT(16)
	1	19	
	2	27	
	1	28	
	5	31	
	6	32	OTHER(32)
	3	34	
	5	36	
	1	40	
	1	42	
	1	47	
	60	64	NONE(64)

F45DEF5:

1. Refer to explanation of 'binary coding' in PART II.

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CEREBROVASCULAR ACCIDENT AND MENINGITIS FLOW SHEET - PAGE 1
 CSSCD FULL COHORT PATIENTS

F45DEF6 ----- DEFICITS

type: numeric (float)
 label: F45DEF6

range: [0,64] units: 1
 unique values: 22 coded missing: 100 / 215

tabulation:	Freq.	Numeric	Label
	1	0	INCOMPLETE RESPONSE(0)
	0	1	SEIZURE DISORDER(1)
	3	2	HEMIPARESIS-RIGHT(2)
	5	3	
	6	4	HEMIPARESIS-LEFT(4)
	4	6	
	1	9	
	8	10	
	3	11	
	1	12	
	1	14	
	8	15	
	1	16	HEARING DEFECT(16)
	1	19	
	2	27	
	1	28	
	5	31	
	4	32	OTHER(32)
	2	34	
	5	36	
	1	40	
	1	42	
	51	64	NONE(64)

F45DEF6:

1. Refer to explanation of 'binary coding' in PART II.

7.5.0: Neurological Events – Overview

F45CBHB1 ----- CBC HEMOGLOBIN (G|DL) - DAY 3

type: numeric (float)

range: [5.3,14.8] units: .1
unique values: 69 coded missing: 79 / 215

mean: 10.0066
std. dev: 2.36503

percentiles: 10% 25% 50% 75% 90%
6.9 7.9 10.05 11.85 13.3

F45CBHB2 ----- CBC HEMOGLOBIN (G|DL) - DAY 6

type: numeric (float)

range: [5.7,16.1] units: .1
unique values: 53 coded missing: 134 / 215

mean: 10.6605
std. dev: 2.1273

percentiles: 10% 25% 50% 75% 90%
7.8 9 10.7 12.2 13.3

F45CBHC1 ----- CBC HEMATOCRIT (%) - DAY 3

type: numeric (float)

range: [17.3,47] units: .1
unique values: 103 coded missing: 79 / 215

mean: 29.9066
std. dev: 7.29048

percentiles: 10% 25% 50% 75% 90%
20.5 23.25 30.7 35.55 39.3

F45CBHC2 ----- CBC HEMATOCRIT (%) - DAY 6

type: numeric (float)

range: [15.5,49.2] units: .1
unique values: 68 coded missing: 133 / 215

mean: 31.989
std. dev: 6.33318

percentiles: 10% 25% 50% 75% 90%
23.3 27.1 32.75 36.5 39.3

7.5.0: Neurological Events – Overview

F45CBWB1 ----- CBC WBC (10(9)|L) - DAY 3

type: numeric (float)
range: [4,65] units: .1
unique values: 103 coded missing: 79 / 215

mean: 16.7243
std. dev: 8.31648

percentiles: 10% 25% 50% 75% 90%
8.4 10.85 15.7 20.6 26.1

F45CBWB1:

1. Value should be uncorrected for nucleated RBCs.

F45CBWB2 ----- CBC WBC (10(9)|L) - DAY 6

type: numeric (float)
range: [2.6,33.6] units: .1
unique values: 70 coded missing: 135 / 215

mean: 14.4425
std. dev: 6.99728

percentiles: 10% 25% 50% 75% 90%
6.6 9.25 12.75 18.75 24.85

F45CBWB2:

1. Value should be uncorrected for nucleated RBCs.

F45DPMN1 ----- DIFFERENTIAL PMNS(%) - DAY 3

type: numeric (float)
range: [15,87] units: 1
unique values: 51 coded missing: 91 / 215

mean: 58.0242
std. dev: 16.5124

percentiles: 10% 25% 50% 75% 90%
36 48 59 69 79

F45DPMN2 ----- DIFFERENTIAL PMNS(%) - DAY 6

type: numeric (float)
range: [10,86] units: 1
unique values: 43 coded missing: 140 / 215

mean: 56.28
std. dev: 17.2019

percentiles: 10% 25% 50% 75% 90%
32 46 58 68 79

7.5.0: Neurological Events – Overview

F45DBDN1 ----- DIFFERENTIAL BANDS(%) - DAY 3

type: numeric (float)
range: [0,30] units: 1
unique values: 17 coded missing: 138 / 215

mean: 4.42857
std. dev: 6.81413

percentiles: 10% 25% 50% 75% 90%
0 0 2 6 13

F45DBDN1:

1. NOT COLLECTED BEFORE (NCB) 03/12/82

F45DBDN2 ----- DIFFERENTIAL BANDS(%) - DAY 6

type: numeric (float)
range: [0,18] units: 1
unique values: 13 coded missing: 176 / 215

mean: 4.15385
std. dev: 4.97646

percentiles: 10% 25% 50% 75% 90%
0 0 2 8 13

F45DBDN2:

1. NOT COLLECTED BEFORE (NCB) 03/12/82

F45DEOS1 ----- DIFFERENTIAL EOS(%) - DAY 3

type: numeric (float)
range: [0,14] units: 1
unique values: 13 coded missing: 91 / 215

mean: 2.20161
std. dev: 3.07092

percentiles: 10% 25% 50% 75% 90%
0 0 1 3 6

F45DEOS2 ----- DIFFERENTIAL EOS(%) - DAY 6

type: numeric (float)
range: [0,14] units: 1
unique values: 12 coded missing: 140 / 215

mean: 2.82667
std. dev: 3.27304

percentiles: 10% 25% 50% 75% 90%
0 0 2 4 7

7.5.0: Neurological Events – Overview

F45DBAS1 ----- DIFFERENTIAL BASOS(%) - DAY 3

type: numeric (float)
range: [0,14] units: 1
unique values: 6 coded missing: 95 / 215

mean: .583333
std. dev: 1.71294

percentiles:	10%	25%	50%	75%	90%
	0	0	0	1	1.5

F45DBAS1:

1. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F45DBAS2 ----- DIFFERENTIAL BASOS(%) - DAY 6

type: numeric (float)
range: [0,61] units: 1
unique values: 9 coded missing: 144 / 215

mean: 2.43662
std. dev: 10.0481

percentiles:	10%	25%	50%	75%	90%
	0	0	0	1	2

F45DBAS2:

1. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F45DLYM1 ----- DIFFERENTIAL LYMPHS(%) - DAY 3

type: numeric (float)
range: [2,74] units: 1
unique values: 49 coded missing: 90 / 215

mean: 28.432
std. dev: 16.729

percentiles:	10%	25%	50%	75%	90%
	9	16	27	38	50

F45DLYM2 ----- DIFFERENTIAL LYMPHS(%) - DAY 6

type: numeric (float)
range: [0,83] units: 1
unique values: 43 coded missing: 140 / 215

mean: 26.8933
std. dev: 17.1713

percentiles:	10%	25%	50%	75%	90%
	5	13	24	36	50

7.5.0: Neurological Events – Overview

F45DMON1 ----- DIFFERENTIAL MONOS(%) - DAY 3

type: numeric (float)
range: [0,20] units: 1
unique values: 20 coded missing: 91 / 215

mean: 6.54032
std. dev: 4.41984

percentiles: 10% 25% 50% 75% 90%
1 3 6 9 13

F45DMON1:

1. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F45DMON2 ----- DIFFERENTIAL MONOS(%) - DAY 6

type: numeric (float)
range: [0,53] units: 1
unique values: 24 coded missing: 140 / 215

mean: 9.17333
std. dev: 9.04698

percentiles: 10% 25% 50% 75% 90%
1 4 7 11 19

F45DMON2:

1. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F45DATC1 ----- DIFFERENTIAL ATYPICAL CELLS(%) - DAY 3

type: numeric (float)
range: [0,8] units: 1
unique values: 6 coded missing: 94 / 215

mean: .338843
std. dev: 1.0046

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 1

F45DATC2 ----- DIFFERENTIAL ATYPICAL CELLS(%) - DAY 6

type: numeric (float)
range: [0,10] units: 1
unique values: 6 coded missing: 142 / 215

mean: .561644
std. dev: 1.92921

percentiles: 10% 25% 50% 75% 90%
0 0 0 0 1

7.5.0: Neurological Events – Overview

F45DMM1 ----- DIFFERENTIAL METAMYEL.-MYEL.(%) - DAY 3

```

      type: numeric (float)
      range: [0,5]
unique values: 5
      mean: .145299
      std. dev: .63334

      percentiles:      10%      25%      50%      75%      90%
                       0         0         0         0         0
  
```

F45DMM2 ----- DIFFERENTIAL METAMYEL.-MYEL.(%) - DAY 6

```

      type: numeric (float)
      range: [0,5]
unique values: 5
      mean: .277778
      std. dev: .937816

      percentiles:      10%      25%      50%      75%      90%
                       0         0         0         0         1
  
```

F45NRB1 ----- NUCLEATED RBCS (|100 WBCS) - DAY 3

```

      type: numeric (float)
      range: [0,126]
unique values: 19
      mean: 6.26531
      std. dev: 20.2935

      percentiles:      10%      25%      50%      75%      90%
                       0         0         0         4         10
  
```

F45NRB2 ----- NUCLEATED RBCS (|100 WBCS) - DAY 6

```

      type: numeric (float)
      range: [0,43]
unique values: 14
      mean: 3.90909
      std. dev: 8.98615

      percentiles:      10%      25%      50%      75%      90%
                       0         0         0         2         15
  
```

F45PLT1 ----- PLATELET COUNT- DAY 3

```

      type: numeric (float)
      range: [52,1061]
unique values: 87
      mean: 401.935
      std. dev: 198.139

      percentiles:      10%      25%      50%      75%      90%
                       195      267      376      502      698
  
```

7.5.0: Neurological Events – Overview

F45PLT2 ----- PLATELET COUNT- DAY 6

type: numeric (float)

range: [75,1128] units: 1
unique values: 42 coded missing: 171 / 215

mean: 445
std. dev: 237.91

percentiles: 10% 25% 50% 75% 90%
199 321.5 383 556 748

F45SFGL1 ----- CSF GLUCOSE- DAY 3

type: numeric (float)

range: [2,214] units: 1
unique values: 21 coded missing: 192 / 215

mean: 75.6957
std. dev: 50.6085

percentiles: 10% 25% 50% 75% 90%
16 51 72 87 135

F45SFGL2 ----- CSF GLUCOSE- DAY 6

type: numeric (float)

range: [18,250] units: 1
unique values: 8 coded missing: 206 / 215

mean: 84.5556
std. dev: 65.0598

percentiles: 10% 25% 50% 75% 90%
18 59 75 81 250

F45SFPR1 ----- CSF PROTEIN- DAY 3

type: numeric (float)

range: [0,99] units: 1
unique values: 15 coded missing: 198 / 215

mean: 38.0588
std. dev: 25.6819

percentiles: 10% 25% 50% 75% 90%
16 22 31 46 87

7.5.0: Neurological Events – Overview

F45SFPR2 ----- CSF PROTEIN- DAY 6

type: numeric (float)

range: [0,46] units: 1
unique values: 5 coded missing: 210 / 215

mean: 20
std. dev: 17.4213

percentiles: 10% 25% 50% 75% 90%
0 12 15 27 46

F45SFWB1 ----- CSF WBC- DAY 3

type: numeric (float)

range: [1,26.5] units: .1
unique values: 12 coded missing: 202 / 215

mean: 9.07692
std. dev: 7.7966

percentiles: 10% 25% 50% 75% 90%
1 4.1 5.3 13.7 18

F45SFWB2 ----- CSF WBC- DAY 6

type: numeric (float)

range: [.6,83] units: .1
unique values: 6 coded missing: 209 / 215

mean: 25.8
std. dev: 33.0441

percentiles: 10% 25% 50% 75% 90%
.6 2.5 10.2 48.3 83

F45SFPM1 ----- CSF PMNS (%) - DAY 3

type: numeric (float)

range: [0,99] units: 1
unique values: 14 coded missing: 199 / 215

mean: 62.875
std. dev: 39.6802

percentiles: 10% 25% 50% 75% 90%
0 25.5 81.5 92.5 98

7.5.0: Neurological Events – Overview

F45SFP2 ----- CSF PMNS (%) - DAY 6

type: numeric (float)

range: [0,98] units: 1
unique values: 6 coded missing: 207 / 215

mean: 22.5
std. dev: 39.2283

percentiles: 10% 25% 50% 75% 90%
0 .5 2 38.5 98

F45SFM01 ----- CSF MONOS (%) - DAY 3

type: numeric (float)

range: [1,99] units: 1
unique values: 11 coded missing: 203 / 215

mean: 23.1667
std. dev: 28.5747

percentiles: 10% 25% 50% 75% 90%
4 5 8.5 33.5 50

F45SFM02 ----- CSF MONOS (%) - DAY 6

type: numeric (float)

range: [0,98] units: 1
unique values: 6 coded missing: 208 / 215

mean: 19.8571
std. dev: 35.6344

percentiles: 10% 25% 50% 75% 90%
0 1 4 26 98

F45SFRB1 ----- CSF RBC - DAY 3

type: numeric (float)

range: [.07,9.99] units: .01
unique values: 10 coded missing: 205 / 215

mean: 2.594
std. dev: 2.97478

percentiles: 10% 25% 50% 75% 90%
.27 .5 1.7 3.74 7.295

7.5.0: Neurological Events – Overview

F45SFRB2 ----- CSF RBC- DAY 6

type: numeric (float)
range: [.7,9.99] units: .01
unique values: 4 coded missing: 211 / 215
mean: 4.2975
std. dev: 4.03275
percentiles: 10% 25% 50% 75% 90%
.7 1.58 3.25 7.015 9.99

F45SFC01 ----- CSF COLOR- DAY 3

type: numeric (float)
label: F45SFC01
range: [1,3] units: 1
unique values: 3 coded missing: 195 / 215
tabulation: Freq. Numeric Label
12 1 CLEAR
2 2 XANTH.
6 3 OTHER

F45SFC02 ----- CSF COLOR- DAY 6

type: numeric (float)
label: F45SFC02
range: [1,3] units: 1
unique values: 2 coded missing: 208 / 215
tabulation: Freq. Numeric Label
5 1 CLEAR
2 3 OTHER

F45GRAM1 ----- CSF GRAM STAIN- DAY 3

type: numeric (float)
label: F45GRAM1
range: [1,2] units: 1
unique values: 2 coded missing: 198 / 215
tabulation: Freq. Numeric Label
2 1 POSITIVE
15 2 NEGATIVE

7.5.0: Neurological Events – Overview

F45GRAM2 ----- CSF GRAM STAIN- DAY 6

```

    type: numeric (float)
    label: F45GRAM2

    range: [2,2]                      units: 1
unique values: 1                      coded missing: 209 / 215

    tabulation: Freq.  Numeric  Label
                  6          2  NEGATIVE
  
```

F45CULT1 ----- CSF CULTURE ORGANISM CODE- DAY 3

```

    type: numeric (float)
    label: F45CULT1

    range: [-1,170]                   units: 1
unique values: 2                      coded missing: 211 / 215

    tabulation: Freq.  Numeric  Label
                  2          -1  NEGATIVE
                  2          170
  
```

F45CULT1:

1. See Appendix H - PATHOGEN LIST

F45CULT2 ----- CSF CULTURE ORGANISM CODE- DAY 6

```

    type: numeric (float)
    label: F45CULT2

    range: [-1,-1]                    units: 1
unique values: 1                      coded missing: 213 / 215

    tabulation: Freq.  Numeric  Label
                  2          -1  NEGATIVE
  
```

F45CULT2:

1. See Appendix H - PATHOGEN LIST

F45PRES1 ----- CSF PRESSURE- DAY 3

```

    type: numeric (float)

    range: [10,24]                    units: 1
unique values: 3                      coded missing: 212 / 215

    mean: 15.6667
    std. dev: 7.37111

    percentiles:    10%    25%    50%    75%    90%
                   10     10     13     24     24
  
```

7.5.0: Neurological Events – Overview

F45PRES2 ----- CSF PRESSURE- DAY 6

type: numeric (float)

range: [16,16] units: 1
unique values: 1 coded missing: 214 / 215

tabulation: Freq. Value
1 16

F45EVENT ----- ASSOCIATED EVENT FOR FLOW SHEET

type: numeric (float)
label: F45EVENT

range: [0,44] units: 1
unique values: 3 coded missing: 0 / 215

tabulation:	Freq.	Numeric	Label
	1	0	
	53	42	MENINGITIS
	161	44	CVA

F45EVENT:

1. See section for computed variables

_dta:

1. Run on 08/16/99
-
-
-
-
-