7.7.0: Acute Febrile Events/Sepsis - Overview

A. <u>CSSCD Forms (collection) and Datasets (storage) Relating to Event</u>

<u>Form #</u>	<u>Name of Form</u>	<u>Collected</u>	<u>Patient Population</u>	<u>Storage Record #</u>
48	Acute Febrile Illness	03/01/79-01/31/86	All	**R48.SD2**
48E	Bacteremia	02/01/86-06/01/86	All (Sepsis events only)	**R58.SD2***
		06/01/86-12/31/86	Patients Entered at < 6 Months of Age (Sepsis events only)	
90	Non-SCD Initiated Hospitalization	02/01/86-06/01/86	All (Non-Sepsis febrile events when patient hospitalized)	**R90.SD2**
		06/01/86-12/31/86	Patients Entered at < 6 Months of Age (Non-Sepsis febrile events when patient hospitalized)	
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**
--	* "Sepsis Summary"	03/01/79-09/30/88	All—in addition to data from Form 48E, includes summary information about sepsis events reported on all CSSCD forms with section for blood culture results	**R58.SD2**
49	Septicemia & Acute Febrile Event Flow Sheet	03/01/79-01/31/86	All	**R49.SD2**
52	Acute Event Treatment Follow-up Form	03/01/79-01/31/86	All	**R52.SD2**

B. <u>Definition of Event</u>

1. <u>Acute Febrile Event</u> (See Section 7.7.1)

Elevation of temperature greater than 38.3 degrees centigrade orally or 38.9 degrees

rectally which was documented by medical personnel.

2. <u>Septicemia</u> (See Sections 7.7.1, 7.7.3)

Positive Blood Culture

7.7.1: Acute Febrile Illness – Form 48

A. List of variables deleted   **F48DATE F48INIT F48NDATE F48LASTU F48LASTE F48ESTAT F48VDATE F48DFC F48FCB F48WHEN F48PNEDT F48FLUDT F48PEB**

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   **F48DATE F48WHEN**

H.   New name   **JF48DATE JF48WHEN**

I. Collection Information:

   Form 48 (**Acute Febrile Illness**) was filled out whenever a study patient entered the clinic, emergency room, or hospital at a study institution with 1) an acute febrile event which was not associated with another CSSCD event, or 2) septicemia which was not associated with osteomyelitis, septic arthritis, pneumonia, or meningitis. [See Section on Inter-Relationship With Other Datasets]

J. Data Collection Period: 03/79 – 01/86

K. Form Version Dates: 03/01/79, 03/29/79, 10/10/80

   The codebook coincides with the most recent version of Form 48.

L. Files Used to Store Information:

   SAS System File: **R48.SD2**

   Format File: **R48.FMT**

M. Unique Record Identifiers: **ANONID**, **F48DATE**

   Records within the dataset are sorted by **ANONID** and **F48DATE**.

N. Number of Observations (Patients) in SAS Dataset: 2686 (1169)

O. Contents of SAS Dataset:

   - Alphabetical Listing of Variables: See pp. 664-666
   - Listing of Variables by Position: See pp. 667-668

P. Notes About Selected Variables:

   - **F48EVENT** – is a concatenated variable consisting of 4 2-digit codes which identify forms completed in addition to Form 48; values are left justified so that if

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 48.

- **F48TRANS** – is the variable name for whether the patient was transfused at the time of the event. The transfusion question on the 03/01/79 version of the form was "Did the patient receive <u>outside</u> transfusion for the event before seeking care at the study institution?" whereas the question on the 10/10/80 version of the form was "Has patient been transfused within 4 months preceding date he/she sought care for the febrile event at the study institution?"

- **CBC WBC Differential** – Some WBC differential variables (**F48DFPMN**, **F48DFBND**, **F48DFEOS**, **F48DFBAS**, **F48DFLYM**, **F48DFMON**, **F48DFMM**, **F48DFATC**) have missing values 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 differential variables with non-missing values is 100, the differential variables with missing values are assumed to have a value of 0.

- **F48TMPH** – On the 10/10/80 version of Form 48, there are 3 choices for *how temperature was taken* (**F48TMPH**): oral, rectal, axillary. On the 03/01/79 version of the form, there were only 2 choices: oral and rectal.

- **F48SPLP** – On the 10/10/80 version of Form 48, there are 3 choices for *palpable spleen* (**F48SPLP**): no, yes, asplenic. On the 03/01/79 version of the form, there were only 2 choices: no and yes.

- **F48BLCL1-2**, **F48THCL1-2**, **F48URCL1-2**, **F48SPCL1-2** – The culture codes for *Salmonella* are a problem. Although there are separate codes for *Salmonella typhi* (404) and *Salmonella non-typhi* (405) on the Pathogen List, many forms did not specify the species; if "*Salmonella*" only was listed on the form, the code "404" was assigned.

Q. <u>Computed Variables</u>:

- **F48FLOWS** – is the number of follow-up flow sheets (Form 49s) associated with a given acute febrile event. The value was derived by linking "Record 49" with "Record 48" by *date patient first sought care* for the acute febrile event (**F49DATE**=**F48DATE**) and counting the number of flow sheet records which are linked.

- **F48DHOSP** – is the number of days the patient was hospitalized or seen daily. The number of days "hospitalized" was derived by linking all flow sheet record(s) ("Record 49") with "Record 48" by *date patient first sought care* for the acute febrile event (**F49DATE**=**F48DATE**) and counting the number of days data were collected.

- **F48FRM52** – is the associated event code number (**F52TYPE**) entered on the Acute Treatment Follow-up record ("Record 52") which links with "Record 48" by *date patient first sought care* for the acute febrile event (**F52DATE**=**F48DATE**). Values of **F48FRM52** were derived by linking "Record 48" with "Record 52" by *date patient first sought care* and making **F48FRM52** 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), 42 (meningitis), 44 (CVA), 46 (acute anemic event), 48 (acute febrile event), 50 (priapism). However, the variable **F48FRM52** may also have a value of "31" or "33" <u>if</u> "Record 48" did not link with a "Record 52" but did link with either a 31 (pain/skel & joint flow sheet) or 31 (acute chest syndrome flow sheet)—i.e., the acute febrile 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. <u>Inter-Relationship With Other Datasets</u>:

1.a. <u>Febrile</u> (Non-Sepsis) event data were also collected on the Non-SCD Initiated Hospitalization form (Form 90, **R90.SD2**) and the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (Form 53, **R53.SD2**).

Note: Temperature data were also collected on the following acute event forms:

Form #	Name of Form	SAS Dataset
30	Painful Episode Form	R30.SD2
32	Acute Chest Syndrome	**R32.SD2**
34	Right Upper Quadrant Syndrome	**R34.SD2**
36	Skeletal & Joint Events	**R36.SD2**
38	Hand-Foot Syndrome	**R38.SD2**
42	Meningitis	**R42.SD2**

If a fever in association with any of the above events occurred, completion of the Acute Febrile Illness form (Form 48) was not required. However, it was not uncommon for the Acute Febrile Illness form to be completed in addition to another event form if a patient was febrile at the time of the other event.

The Acute Febrile Illness form was discontinued in January 1986.

For patients entered at < 6 months of age, the Non-SCD Initiated Hospitalization form (Form 90) [See Section 9.3] was used for any non-sepsis febrile event for which a patient was hospitalized from January 1986 until December 1986 when the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (Form 53) was developed.

There was <u>no form</u> in use for collection of data for non-sepsis febrile events for which patients were <u>seen but not hospitalized between January 1986 and December 1986</u>.

The Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (Form 53) [See Section 7.9] was used for collection of febrile event data on patients entered at < 6 months of age from December 1986 until September 1988. This form was used for recording information about <u>both</u> hospitalized and non-hospitalized febrile events.

1.b. <u>Sepsis</u> event data were also collected on the Bacteremia form (Form 48E, **R58.SD2**) and the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (Form 53, **R53.SD2**).

As noted under 1.a., the Acute Febrile Illness form (Form 48) was discontinued in January 1986.

Use of a shortened version of the form called Bacteremia (Form 48E) was initiated at that time to collect very basic information about sepsis events only [See Section 7.7.3].

For patients entered at < 6 months of age, the Bacteremia form was used between January 1986 and December 1986 when the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age was activated.

Note: Prior to the implementation of Form 53, if sepsis occurred *in association with* osteomyelitis, septic arthritis, meningitis, or pneumonia, forms designed specifically for these events [See 1.c.] were used for recording blood culture results; completion of an Acute Febrile Illness form (48)/Bacteremia form (48E) was not required if one of these forms was completed. However, it was not uncommon for the Acute Febrile Illness form (48) or Bacteremia form (48E) to be completed in addition to forms for one or more of these other events.

The Comprehensive Special Event Form for Patients Entered at < 6 Months of Age

(Form 53) [See Section 7.9] was used for collection of sepsis data for patients entered at < 6 months of age from December 1986 until September 1988. This form was used to collect data on sepsis events regardless of the focus of infection.

1.c. Sepsis *in association with* pneumonia, meningitis, osteomyelitis, septic arthritis, or death.

   If sepsis occurred in association with any of these events between 03/01/79 and 06/01/86 (patients entered at $\geq$ 6 months of age) or 12/31/86 (patients entered at < 6 months of age), the form listed below was used for recording blood culture results:

Event	Form #	Name of Form	SAS Dataset	Blood Culture Variable
Pneumonia	32	Acute Chest Syndrome	**R32.SD2**	**F32BLCL1**
Osteomyelitis/septic arthritis	36	Skeletal & Joint Events	**R36.SD2**	**F36BLDCL** **F36BLCL1**
Meningitis	42	Meningitis	**R42.SD2**	**F42BLOOD** **F42BLD1**
Death	91	Cause of Death	**R91.SD2**	**F91SEPOR**

   In order to identify all sepsis events which occurred during the study, regardless of focus of infection, all records which collect blood culture results (32, 36, 42, 53, 48, 91) must be searched, sorted by date, and reviewed in order to ascertain whether a single event was reported on more than one form to avoid counting an event more than once. "Record 58" (See 1.d.) was designed to consolidate information regarding sepsis events and facilitate retrieval of relevant data.

   Note: The "shortened" acute chest syndrome form (Acute Chest Syndrome Form II (Form 32E, **R43.SD2**)) has a variable **F43PNORG** for organism cultured; however, the source for the culture is not specified (?? sputum). Although it is possible that blood was the source of some of the positive results, it would be better to exclude Record 43 from records which are searched for positive blood culture results.

1.d. Summary record for sepsis events (**R58.SD2**)

"Record 58" contains a list of all sepsis events which occurred during the Phase 1 study period [See Section 7.7.3].

Differences Among Forms That Collect Blood Culture Results

It is important for the user to be aware of differences in the data collected on the various forms for sepsis events. Many, but not all, variables are common to most of the datasets. Some variables which appear to store the same information do not.

Examples of differences among forms which collect blood culture results:

Use of antibiotics prior to event

In **R32.SD2** and **R36.SD2,** the values for variables **FxxMED1**-**FxxMED3** have to be decoded in order to ascertain whether the medication received was an antibiotic, and the variables **FxxDAY1**-**FxxDAY3** used to find out the number of days prior to seeking care that the medication was taken.

Forms 42 (**R42.SD2**) and 48 (**R48.SD2**) have specific use of antibiotic questions; however, the question on Form 42 is whether antibiotics were taken "within the last three days", whereas the question on Form 48 is whether antibiotics were taken "in the week prior to this illness". In addition, the question on Form 48 differentiates between whether the antibiotics were being received as prophylaxis or for a specific illness.

Form 53 (**R53.SD2**) asks only about prophylactic antibiotics taken "within a week prior to the illness."

Pneumococcal/ H. influenza immunization

Questions regarding pneumococcal and H. flu immunization status were asked on Forms 42, 48, and 53 but not on Forms 32 and 36.

Immunization questions were also asked on past medical history forms (Forms 10 and 15) [See Section 2] and on most of the routine visit forms (16E, 17, 19, 20, 21, 24, and 25) [See Section 4]. The past medical history form and routine visit forms which precede the date of the event can be searched in order to determine immunization status at the time of an event. In addition, there are two pneumococcal immunization variables (**PNEUVAX**, **PNEUDTE**) in the "Patient Roster" dataset (**R09.SD2**) which were calculated using information contained in all the above records [See Section 1].

Spleen Size

Only Form 48 collects information about whether the spleen was palpable at the time of the event.

Posner Stage

Only Forms 48 and 42 collect information regarding level of consciousness. However, the codes for **F48POSNR** in **R48.SD2** range from "1" (awake and alert) to "6" (unresponsive) whereas the codes for **F42POSNR** in **R42.SD2** range from "0" (awake and alert) to "5" (unresponsive).

Culture Results

In **R36.SD2**, **R42.SD2**, and **R53.SD2**, two variables are used to store culture results—one indicates whether the result was negative or positive; the other contains the organism code if the culture was positive. In **R32.SD2** and **R48.SD2**, only one variable is used to store culture results—i.e., a negative result has a value of "-1," a positive result has the code for the organism cultured.

Pneumococcal serotyping

Only Form 42 collects information about pneumococcal serotyping results.

2. Event Follow-up and Treatment Information

Forms designed to collect this information during the period the Acute Febrile Illness form was being used were

a. Septicemia and Acute Febrile Event Flow Sheet (Form 49, **R49.SD2**)

b. Acute Event Treatment Follow-up form (Form 52, **R52.SD2**)

Both of the above "records" should be linked to the appropriate febrile/sepsis event "Record 48" by the *date patient first sought care* for the event (i.e., if **F49DATE**=**F48DATE** or if **F52DATE**=**F48DATE**).

a. Form 49 was completed if a patient was either hospitalized or seen on a daily basis as an outpatient for a febrile/sepsis event. The flow sheet contains daily information from hospitalization day 2 through the date of discharge. Each flow sheet contains 6 days of hospital information; consequently, multiple "Record 49s" can exist for a given febrile/sepsis event dependent on length of stay. "Record 49s" are sorted by ID # of a patient (**CASEID**), *date patient first sought care* (**F49DATE**), and flow sheet number (**F49SHEET**)— i.e., information for hospital days 2-7 should be on **F49SHEET**=01, information for hospital days 8-13 should be on **F49SHEET**=02, etc. [See Section 7.7.2 for details]

b. Form 52, which was supposed to be completed for all febrile/sepsis events regardless of whether the patient was hospitalized, contains information regarding treatment, resolution of symptoms, and final diagnosis.

The linking variable for "Record 48" and "Record 52" is *date patient first sought care* (i.e., if **F52DATE=F48DATE**). If **F48FRM52** is equal to "31," "Record 48" 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 **F48FRM52** is equal to "33", "Record 48" should be linked by date to "Record 33" (rather than "Record 52") to obtain information about treatment, etc. [See Section 7.2.3]

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

3. Assessment of Splenic Function by Interference Phase Contrast Microscopy (pocked RBCs) (**R07.SD2**)

At the time of a sepsis event, blood specimens were supposed to be collected and mailed to Yale for quantitation of the percentage of circulating pocked RBCs using phase contrast microscopy. Pocked RBC results, collected at the time of either a routine visit or a sepsis event, are stored in **R07.SD2**. "Record 7s" are sorted by patient ID # (**ANONID**) and date sample for pocked RBC determination was drawn [See Section 5.2 for details]. "Record 7" can be linked to "Record 48" by date (i.e., if **F07DATE=F48DATE**). However, this protocol requirement was not well followed—very few samples were collected at the time of a bacteremic event. Use of the pocked RBC data in "Record 7" to assess splenic function at the time of a bacterial infection can be maximized if results from samples collected at routine visits are used:

1. If the date of the pocked RBC count (**F07DATE**) preceded the date of the sepsis event (**F48DATE**) and the pocked RBC count was $\geq 3.5\%$ at that time, the patient can be considered functionally asplenic at the time of the bacterial infection.

2. If a pocked RBC count was done within 15-30 days preceding a sepsis event (i.e., $0 \leq$ **F48DATE**-**F07DATE** ≤ 15 (30)) and the patient was untransfused at the time the sample was drawn and the pocked RBC count was < 3.5% at the time

OR

the pocked RBC count was < 3.5% at the time of the first routine visit following a bacterial infection <u>and</u> the patient had not been transfused within 4 months prior to that routine visit,

the patient is assumed to have had a functioning spleen at the time of sepsis.

Note: Collection of samples for pocked RBC determination was <u>discontinued</u> in November, 1985.

Note: If the version date of Form 48 is 10-10-80, the variable **F48SPLP** (Spleen Palpable) can be used to determine splenectomy status (i.e., if **F48SPLP**=3, the patient was splenectomized prior to the event). Data regarding on-study splenectomy are stored in **R83.SD2** [**F83ICDA**=41.5] [See Section 9.1]

CONTENTS OF SAS DATASET: R48.SD2
DATA FROM CSSCD FORM 48 - ACUTE FEBRILE ILLNESS
USED FROM 3/79 THROUGH 1/86
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 48
The SAS System   16:42 Tuesday, January 30, 2007   4

The CONTENTS Procedure

Data Set Name	OUT1.R48	Observations	2686
Member Type	DATA	Variables	59
Engine	V9	Indexes	0
Created	14:32 Monday, January 22, 2007	Observation Length	472
Last Modified	14:32 Monday, January 22, 2007	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	80
First Data Page	1
Max Obs per Page	34
Obs in First Data Page	17
Number of Data Set Repairs	0
File Name	r48.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 #
6	F48ANTI1	Num	8	ANTIBIOTICS AS PROPHLAXIS
11	F48ANTI2	Num	8	ANTIBIOTICS FOR SPECIFIC ILLNESS
25	F48BLCL1	Num	8	BLOOD MICROBIOLOGY CULTURE
26	F48BLCL2	Num	8	BLOOD MICROBIOLOGY CULTURE
33	F48CBCHB	Num	8	CBC HB (G|DL)
34	F48CBCHC	Num	8	CBC HCT (%)
37	F48CBCMV	Num	8	CBC MCV (FL)
35	F48CBCRB	Num	8	CBC RBC (X 10(12)|L)
36	F48CBCWB	Num	8	CBC WBC (X 10(9)|L)
52	F48CHOTH	Num	8	OTHER CHEST X-RAY PROBLEMS
49	F48CHXR	Num	8	DATE CHEST X-RAY
46	F48DFATC	Num	8	DIFFERENTIAL ATYPICAL CELLS (%)
43	F48DFBAS	Num	8	DIFFERENTIAL BASOPHILS (%)
41	F48DFBND	Num	8	DIFFERENTIAL BANDS (%)
42	F48DFEOS	Num	8	DIFFERENTIAL EOSINOPHILS (%)
44	F48DFLYM	Num	8	DIFFERENTIAL LYMPHOCYTES (%)
47	F48DFMM	Num	8	DIFFERENTIAL METAMYEL|MYELOCYTES (%)

45	F48DFMON	Num	8	DIFFERENTIAL MONOCYTES (%)
40	F48DFPMN	Num	8	DIFFERENTIAL PMN (%)
57	F48DHOSP	Num	8	NUMBER OF DAYS HOSPITALIZED
2	F48EVENT	Num	8	ASSOCIATED EVENTS
55	F48FLOWS	Num	8	NUMBER OF FLOW SHEETS
15	F48FLU	Num	8	H. INFLUENZA IMMUNIZATION
16	F48FLUMR	Num	8	FLU IMMUN. CONFIRMED
56	F48FRM52	Num	8	IS THERE A 52 ON THE DATABASE
54	F48HBS	Num	8	HB S (%)
39	F48HJB	Num	8	HOWELL JOLLY BODIES
3	F48HOSP	Num	8	HOSPITALIZED
12	F48ICDA	Num	8	ICDA CODE OF ILLNESS
50	F48LNGIN	Num	8	LUNG INFILTRATE
7	F48MED1	Num	8	MEDICATION CODE 1
8	F48MED2	Num	8	MEDICATION CODE 2
9	F48MED3	Num	8	MEDICATION CODE 3
10	F48MED4	Num	8	MEDICATION CODE 4
48	F48NRB	Num	8	NUCLEATED RED BLOOD CELLS (|100 WBC)
24	F48OPF	Num	8	OTHER PHYSICAL FINDINGS
51	F48PLEFF	Num	8	PLEURAL EFFUSION
13	F48PNE	Num	8	PNEUMOCOCCAL IMMUNIZATION
14	F48PNEMR	Num	8	PNEU. IMMUN. CONFIRMED
19	F48POSNR	Num	8	POSNER STAGE
38	F48RETIC	Num	8	RETICULOCYTES (%)
31	F48SPCL1	Num	8	SPUTUM MICROBIOLOGY CULTURE
32	F48SPCL2	Num	8	SPUTUM MICROBIOLOGY CULTURE
53	F48SPFL	Num	8	SPINAL FLUID EXAM DONE
22	F48SPLDI	Num	8	SPLEEN - CM FROM MIDLINE
20	F48SPLP	Num	8	PALPABLE SPLEEN
23	F48SPLTN	Num	8	SPLEEN TENDERNESS
21	F48SPLTP	Num	8	SPLEEN TIP- CM BELOW LCM
27	F48THCL1	Num	8	THROAT MICROBIOLOGY CULTURE
28	F48THCL2	Num	8	THROAT MICROBIOLOGY CULTURE
17	F48TMP	Num	8	TEMPERATURE
18	F48TMPH	Num	8	HOW TEMPERATURE TAKEN
4	F48TRANS	Num	8	TRANSFUSED W|IN 4 MOS. PRIOR TO EVENT
5	F48TYPE	Num	8	SEPSIS OR ACUTE FEBRILE ILLNESS
29	F48URCL1	Num	8	URINE MICROBIOLOGY CULTURE
30	F48URCL2	Num	8	URINE MICROBIOLOGY CULTURE
58	JF48DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE
59	JF48WHEN	Num	8	WHEN FEVER BEGAN - RECODE DAYS SINCE DOE

```
***********************************************************************
*****
* R48.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R48.SD2
*
***********************************************************************
****;

 * SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    11/14/98
11:24:15;


PROC FORMAT;


*  FORMAT NO_YES used for the following variables: F48HOSP F48TRANS
F48PNE
                                                F48PNEMR F48FLU
                                                F48FLUMR F48SPLTN;

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


  VALUE F48TYPE
    1               = 'SEPSIS'
    2               = 'ACUTE FEBRILE';


*  FORMAT F48ANTIX used for the following variables: F48ANTI1 F48ANTI2;

  VALUE F48ANTIX

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



  VALUE F48TMPH
    1               = 'ORAL'
    2               = 'RECTAL'
    3               = 'AXILLARY';



  VALUE F48POSNR
    1               = '0 AWAKE'
    2               = '1 LETHARGIC'
    3               = '2 CONFUSED'
    4               = '3 STUPOROUS'
    5               = '4 COMATOSE'
    6               = '5 UNRESPONSIVE';
```

```
   VALUE F48SPLP
     1                = 'NO'
     2                = 'YES'
     3                = 'ASPLENIC';




   VALUE F48SPLTP
     -8               = 'TIP FELT AT LCM';



 *   FORMAT F48CLX used for the following variables: F48BLCL1 F48BLCL2
                                              F48THCL1 F48THCL2
                                              F48URCL1 F48URCL2
                                              F48SPCL1
F48SPCL2;

    VALUE F48CLX

     -8               = 'NOT DONE'
     -7               = 'CONTAMINATED'
     -1               = 'NEGATIVE'
     9999             = 'UNCLASSIFIED';


*   FORMAT YES_NO used for the following variables: F48HJB F48LNGIN
F48CHOTH;


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




   VALUE F48PLEFF
     4                = 'NO (4)'
     0                = 'YES,NO LOCATION (0)'
     1                = 'YES, RIGHT (1)'
     2                = 'YES, LEFT (2)'
     3                = 'YES, BOTH (3)';




   VALUE F48SPFL
     1                = 'DONE'
     2                = 'NOT DONE';

*    FORMAT F48HOSP F48TRANS
```

```
            F48PNE F48PNEMR
            F48FLU F48FLUMR
            F48SPLTN NO_YES.
            F48TYPE F48TYPE.
            F48ANTI1 F48ANTI2 F48ANTIX.
            F48TMPH F48TMPH.
            F48POSNR F48POSNR.
            F48SPLP F48SPLP.
            F48SPLTP F48SPLTP.
            F48BLCL1 F48BLCL2
            F48THCL1 F48THCL2
            F48URCL1 F48URCL2
            F48SPCL1 F48SPCL2 F48CLX.
            F48HJB F48LNGIN
            F48CHOTH YES_NO.
            F48PLEFF F48PLEFF.
            F48SPFL F48SPFL.;


RUN;
QUIT;
```

```
F48VDATE -------------------------------------------------------- VERSION DATE  DELETED
               type:  numeric daily date (int)
              label:  datelab

              range:  [6999,7588]                  units:  1
      or equivalently:  [01mar1979,10oct1980]      units:  days
       unique values:  3                    coded missing:  0 / 2686

          tabulation:  Freq.    Numeric  Label
                        476       6999  03/01/79
                          4       7027  03/29/79
                       2206       7588  10/10/80


F48EV1 ------------------------------------------------ ASSOCIATED EVENT CODE 1
               type:  numeric (float)

              range:  [0,91]                        units:  1
       unique values:  26                    coded missing:  1510 / 2686

          tabulation:  Freq.  Value
                          2  0
                        119  30
                        109  32
                          4  33
                          9  34
                         18  36
                         29  38
                         11  40
                         12  42
                          6  44
                         69  46
                          4  47
                          6  48
                        189  49
                          4  50
                         60  52
                        251  54
                          2  60
                         42  62
                          4  70
                          1  71
                          2  82
                         18  83
                        169  84
                         26  90
                         10  91
```

F48EV1:
  1. Computed variable: F48EV1=int(F48EVENT/1000000), NOT saved in the .SD2
      file.
  2. See Appendix L for event codes.

F48EV2 -- ASSOCIATED EVENT CODE 2

```
              type:  numeric (float)

             range:  [0,91]                        units:  1
     unique values:  29                    coded missing:  1510 / 2686

        tabulation:  Freq.  Value
                       622  0
                         1  13
                        11  30
                        18  31
                        34  32
                        12  33
                         8  34
                         2  35
                        12  36
                         1  37
                         5  38
                         5  39
                         3  40
                         6  44
                         2  45
                        43  46
                        14  47
                         7  48
                        51  49
                         1  50
                       118  52
                        51  54
                         2  60
                        18  62
                         1  70
                        13  83
                       107  84
                         5  90
                         3  91
```

F48EV2:
  1. Computed variable: F48EV2=int((F48EVENT-F48EV1*1000000)/10000), NOT
      saved in the .SD2 file.
  2. See Appendix L for event codes.

F48EV3 -- ASSOCIATED EVENT CODE 3

```
            type:  numeric (float)

           range:  [0,91]                        units:  1
   unique values:  31               coded missing:  1510 / 2686

      tabulation:  Freq.  Value
                    904   0
                      1   13
                      8   30
                      6   31
                     12   32
                      5   33
                      5   34
                      1   35
                      7   36
                      3   37
                      2   38
                      2   39
                      2   40
                      1   44
                      3   45
                     21   46
                      6   47
                      6   48
                     21   49
                      2   50
                     29   52
                     48   54
                      6   62
                      3   64
                      1   70
                      1   71
                     10   83
                     54   84
                      1   89
                      4   90
                      1   91
```

F48EV3:
  1. Computed variable: F48EV3=int((F48EVENT-F48EV1*1000000-F48EV2*10000)/100),
      NOT saved in the .SD2 file.
  2. See Appendix L for event codes.

F48EV4 -- ASSOCIATED EVENT CODE 4

```
              type:  numeric (float)


             range:  [0,96]                        units:  1
     unique values:  19              coded missing:  1510 / 2686


        tabulation:  Freq.  Value
                     1059   0
                        3   4
                        1   12
                        2   28
                       25   32
                        2   34
                        2   36
                        1   40
                        2   44
                       19   48
                       19   52
                        5   56
                        1   62
                        2   64
                        1   80
                       29   84
                        1   88
                        1   92
                        1   96
```

F48EV4:
1. Computed variable: F48EV4=int(F48EVENT-F48EV1*1000000-F48EV2*10000-F48EV3*100),
    NOT saved in the .SD2 file.
2. See Appendix L for event codes.

F48HOSP -- HOSPITALIZED

```
              type:  numeric (float)
             label:  F48HOSP


             range:  [1,2]                         units:  1
     unique values:  2               coded missing:  2 / 2686


        tabulation:  Freq.   Numeric  Label
                      540        1    NO
                     2144        2    YES
```

F48TRANS -------------------------------- TRANSFUSED W|IN 4 MOS. PRIOR TO EVENT
```
            type:  numeric (float)
           label:  F48TRANS

           range:  [1,2]                          units:  1
   unique values:  2                      coded missing:  410 / 2686

      tabulation:  Freq.   Numeric  Label
                   1931        1    NO
                    345        2    YES
```

F48TYPE ------------------------------------- SEPSIS OR ACUTE FEBRILE ILLNESS
```
            type:  numeric (float)
           label:  F48TYPE

           range:  [1,2]                          units:  1
   unique values:  2                      coded missing:  98 / 2686

      tabulation:  Freq.   Numeric  Label
                    190        1    SEPSIS
                   2398        2    ACUTE FEBRILE
```

F48ANTI1 -- ANTIBIOTICS AS PROPHLAXIS

```
           type:  numeric (float)
          label:  F48ANTI1

          range:  [1,3]                        units:  1
  unique values:  3               coded missing:  77 / 2686

     tabulation:  Freq.   Numeric  Label
                   2057         1  NO
                     24         2  DK
                    528         3  YES
```

F48ANTI2 ----------------------------------- ANTIBIOTICS FOR SPECIFIC ILLNESS

```
           type:  numeric (float)
          label:  F48ANTI2

          range:  [1,3]                        units:  1
  unique values:  3               coded missing:  198 / 2686

     tabulation:  Freq.   Numeric  Label
                   2269         1  NO
                     13         2  DK
                    206         3  YES
```

```
F48MED1 ------------------------------------------------- MEDICATION CODE 1
               type:  numeric (float)

              range:  [25,999]                    units:  1
      unique values:  35              coded missing:  2128 / 2686

tabulation:
Freq.  Value                          Freq.  Value
   23  25                                60  369
   38  28                                 5  370
    1  31                               251  371
    6  56                                 1  399
    1  57                                 3  429
   17  67                                 1  452
    1  69                                 2  480
    1  92                                 2  481
    1  125                                1  530
    1  171                                2  541
    1  213                                1  550
   19  231                                1  554
    1  232                                1  559
    1  259                                2  562
    1  299                                1  576
    2  321                               26  599
    1  344                               47  999
   35  367
```

F48MED1:
  1. See Appendix D - CODED DRUG LIST.
  2. Response required only if F48ANTI1=3 or F48ANTI2=3.

F48MED2 --- MEDICATION CODE 2

                      type: numeric (float)

                     range: [20,999]   units: 1
            unique values: 30   coded missing: 2565 / 2686

tabulation:

Freq.	Value		Freq.	Value
1	20		1	298
23	25		2	351
1	26		2	367
36	28		6	369
8	56		1	370
1	57		7	371
1	67		1	375
1	102		1	429
1	122		2	480
1	171		2	481
6	231		1	541
1	248		3	554
1	249		1	559
1	254		1	562
1	259		6	999

F48MED2:
  1. See Appendix D - CODED DRUG LIST.
  2. Response required only if F48ANTI1=3 or F48ANTI2=3.

F48MED3 --- MEDICATION CODE 3

                      type: numeric (float)

                     range: [25,541]   units: 1
            unique values: 5   coded missing: 2681 / 2686

tabulation:	Freq.	Value
	1	25
	1	102
	1	259
	1	344
	1	541

F48MED3:
  1. See Appendix D - CODED DRUG LIST.
  2. Response required only if F48ANTI1=3 or F48ANTI2=3.

```
F48MED4 ----------------------------------------------------- MEDICATION CODE 4
                  type:  numeric (float)

                 range:  [25,554]                       units:  1
         unique values:  3                      coded missing:  2681 / 2686

            tabulation:  Freq.  Value
                             3  25
                             1  369
                             1  554
```

F48MED4:
  1. See Appendix D - CODED DRUG LIST.
  2. Response required only if F48ANTI1=3 or F48ANTI2=3.

```
F48ICDA ------------------------------------------------- ICDA CODE OF ILLNESS
                  type:  numeric (float)

                 range:  [.28,999.99]                    units:  .01
         unique values:  19                     coded missing:  2545 / 2686

            tabulation:  Freq.  Value
                             1     .28
                             1     1.4
                             1     8.8
                             2      25
                             2      28
                             2      34
                             1    38.9
                             1      56
                             1   79.97
                             1     120
                             2     231
                             1  282.62
                             1     351
                             1  380.99
                             1   382.9
                             1     465
                             1   780.6
                             8  999.98
                           112  999.99
```

F48ICDA:
  1. See ICD-9 codebook.
  2. Required only if patient received antibiotics for a specific illness in
      the week prior to event.

F48PNE -- PNEUMOCOCCAL IMMUNIZATION
```
            type:  numeric (float)
           label:  F48PNE

           range:  [1,2]                       units:  1
   unique values:  2                  coded missing:  29 / 2686

      tabulation:  Freq.   Numeric  Label
                   2558        1  NO
                     99        2  YES
```

F48PNEMR -- PNEU. IMMUN. CONFIRMED
```
            type:  numeric (float)
           label:  F48PNEMR

           range:  [1,2]                       units:  1
   unique values:  2                  coded missing:  1167 / 2686

      tabulation:  Freq.   Numeric  Label
                     26        1  NO
                   1493        2  YES
```

F48FLU -- H. INFLUENZA IMMUNIZATION
```
            type:  numeric (float)
           label:  F48FLU

           range:  [1,2]                       units:  1
   unique values:  2                  coded missing:  50 / 2686

      tabulation:  Freq.   Numeric  Label
                   2624        1  NO
                     12        2  YES
```

F48FLUMR -- FLU IMMUN. CONFIRMED
```
            type:  numeric (float)
           label:  F48FLUMR

           range:  [1,2]                       units:  1
   unique values:  2                  coded missing:  1271 / 2686

      tabulation:  Freq.   Numeric  Label
                     26        1  NO
                   1389        2  YES
```

```
F48TMP --------------------------------------------------------- TEMPERATURE
            type:  numeric (float)


           range:  [36,44.9]                    units:  .1
   unique values:  57              coded missing:  35 / 2686

            mean:  39.1782
       std. dev:  .745716


     percentiles:      10%      25%      50%      75%      90%
                      38.3     38.7     39.1     39.7     40.1



F48TMPH ------------------------------------------------ HOW TEMPERATURE TAKEN
            type:  numeric (float)
           label:  F48TMPH


           range:  [1,3]                         units:  1
   unique values:  3               coded missing:  39 / 2686


      tabulation:  Freq.   Numeric  Label
                   1469        1    ORAL
                   1138        2    RECTAL
                     40        3    AXILLARY



F48POSNR ---------------------------------------------------------- POSNER STAGE
            type:  numeric (float)
           label:  F48POSNR


           range:  [1,6]                         units:  1
   unique values:  6               coded missing:  43 / 2686


      tabulation:  Freq.   Numeric  Label
                   2362        1    0 AWAKE
                    235        2    1 LETHARGIC
                     23        3    2 CONFUSED
                      7        4    3 STUPOROUS
                      7        5    4 COMATOSE
                      9        6    5 UNRESPONSIVE



F48SPLP --------------------------------------------------- PALPABLE SPLEEN
            type:  numeric (float)
           label:  F48SPLP


           range:  [1,3]                         units:  1
   unique values:  3               coded missing:  55 / 2686


      tabulation:  Freq.   Numeric  Label
                   2084        1    NO
                    518        2    YES
                     29        3    ASPLENIC
```

F48SPLTP --- SPLEEN TIP- CM BELOW LCM

```
            type:  numeric (float)
            label:  F48SPLTP

            range:  [-8,12]                        units:  1
    unique values:  14                     coded missing:  2200 / 2686

        tabulation:  Freq.   Numeric  Label
                        3       -8  TIP FELT AT LCM
                        5        0
                      109        1
                      127        2
                       94        3
                       53        4
                       45        5
                       18        6
                        9        7
                       10        8
                        4        9
                        4       10
                        4       11
                        1       12
```

F48SPLTP:
  1. Response required only if F48SPLP=2.

F48SPLDI --- SPLEEN - CM FROM MIDLINE

```
            type:  numeric (float)

            range:  [0,15]                         units:  1
    unique values:  14                     coded missing:  2477 / 2686

        tabulation:  Freq.  Value
                       12  0
                       18  1
                       22  2
                       26  3
                       32  4
                       30  5
                       29  6
                       19  7
                        8  8
                        7  10
                        2  11
                        1  12
                        1  13
                        2  15
```

F48SPLDI:
  1. Response required only if F48SPLP=2.

```
F48SPLTN ------------------------------------------------- SPLEEN TENDERNESS
                 type:  numeric (float)
                label:  F48SPLTN

                range:  [1,2]                          units:  1
        unique values:  2                      coded missing:  74 / 2686

           tabulation:  Freq.   Numeric  Label
                        2543          1  NO
                          69          2  YES


F48OPF --------------------------------------------- OTHER PHYSICAL FINDINGS
                 type:  numeric (float)

                range:  [1,2]                          units:  1
        unique values:  2                      coded missing:  50 / 2686

           tabulation:  Freq.  Value
                        1311  1
                        1325  2
```

F48BLCL1 --- BLOOD MICROBIOLOGY CULTURE
```
            type:  numeric (float)
           label:  F48BLCL1

           range:  [-8,9000]                    units:  1
   unique values:  21              coded missing:  71 / 2686

      tabulation:  Freq.   Numeric  Label
                    190        -8   NOT DONE
                      3        -7   CONTAMINATED
                   2196        -1   NEGATIVE
                     14       110
                     22       120
                      8       130
                      5       140
                      1       160
                     86       170
                      2       202
                      1       301
                     46       401
                      7       404
                      7       405
                      3       408
                      1       410
                      1       800
                     17      1200
                      1      2100
                      1      2200
                      3      9000
```

F48BLCL1:
  1. See Appendix H - PATHOGEN LIST.

F48BLCL2 --- BLOOD MICROBIOLOGY CULTURE
```
            type:  numeric (float)
           label:  F48BLCL2

           range:  [-1,1200]                    units:  1
   unique values:  4               coded missing:  2679 / 2686

      tabulation:  Freq.   Numeric  Label
                      1        -1   NEGATIVE
                      3       120
                      2       130
                      1      1200
```

F48BLCL2:
  1. See Appendix H - PATHOGEN LIST.

F48THCL1 -- THROAT MICROBIOLOGY CULTURE

```
          type:  numeric (float)
         label:  F48THCL1

         range:  [-8,9999]                    units:  1
 unique values:  19                   coded missing:  172 / 2686

    tabulation:  Freq.   Numeric  Label
                 1121        -8    NOT DONE
                    1        -7    CONTAMINATED
                 1181        -1    NEGATIVE
                   22       110
                   34       130
                  107       140
                   23       160
                    2       170
                    2       180
                    1       202
                    5       401
                    1       407
                    1       408
                    1       410
                    4      1200
                    1      6100
                    1      6400
                    3      9000
                    3      9999    UNCLASSIFIED
```

F48THCL1:
  1. See Appendix H - PATHOGEN LIST.

F48THCL2 -- THROAT MICROBIOLOGY CULTURE

```
          type:  numeric (float)
         label:  F48THCL2

         range:  [110,9000]                   units:  1
 unique values:  11                   coded missing:  2666 / 2686

    tabulation:  Freq.   Numeric  Label
                    2       110
                    1       120
                    5       130
                    2       140
                    3       160
                    1       170
                    1       301
                    1       410
                    1       800
                    1      1200
                    2      9000
```

F48THCL2:
  1. See Appendix H - PATHOGEN LIST.

F48URCL1 --- URINE MICROBIOLOGY CULTURE

```
              type:  numeric (float)
              label:  F48URCL1

              range:  [-8,9999]                    units:  1
      unique values:  19              coded missing:  144 / 2686

         tabulation:  Freq.    Numeric  Label
                        775         -8  NOT DONE
                          3         -7  CONTAMINATED
                       1650         -1  NEGATIVE
                          5        110
                          2        120
                          4        170
                          4        202
                          1        400
                         78        401
                          1        402
                          1        405
                          1        407
                          3        408
                          2        409
                          2        800
                          1        900
                          2       1200
                          5       9000
                          2       9999  UNCLASSIFIED
```

F48URCL1:
  1. See Appendix H - PATHOGEN LIST.

F48URCL2 --- URINE MICROBIOLOGY CULTURE

```
              type:  numeric (float)
              label:  F48URCL2

              range:  [105,9000]                   units:  1
      unique values:  5               coded missing:  2678 / 2686

         tabulation:  Freq.    Numeric  Label
                          1        105
                          1        401
                          3        408
                          1        800
                          2       9000
```

F48URCL2:
  1. See Appendix H - PATHOGEN LIST.

F48SPCL1 -- SPUTUM MICROBIOLOGY CULTURE
```
              type:  numeric (float)
              label: F48SPCL1

              range:  [-8,9999]                   units:  1
      unique values:  16               coded missing:  2426 / 2686

        tabulation:  Freq.    Numeric  Label
                       131        -8   NOT DONE
                       106        -1   NEGATIVE
                         1        10
                         5       110
                         4       130
                         1       140
                         1       160
                         1       170
                         1       202
                         1       401
                         1       408
                         1      1200
                         1      1300
                         1      1400
                         3      9000
                         1      9999   UNCLASSIFIED
```

F48SPCL1:
  1. See Appendix H - PATHOGEN LIST.
  2. Response required only if patient is greater than 20 years of age.

F48SPCL2 -- SPUTUM MICROBIOLOGY CULTURE
```
              type:  numeric (float)
              label: F48SPCL2

              range:  [110,9999]                  units:  1
      unique values:  6                coded missing:  2680 / 2686

        tabulation:  Freq.    Numeric  Label
                         1       110
                         1       130
                         1       160
                         1      1200
                         1      9000
                         1      9999   UNCLASSIFIED
```

F48SPCL2:
  1. See Appendix H - PATHOGEN LIST.
  2. Response required only if patient is greater than 20 years of age.

F48CBCHB -- CBC HB (G|DL)

```
          type:  numeric (float)

         range:  [2,15]                      units:  .1
 unique values:  108            coded missing:  111 / 2686

          mean:  8.47006
      std. dev:  1.69593

   percentiles:       10%      25%      50%      75%      90%
                      6.5      7.3      8.4      9.6     10.7
```

F48CBCHC -- CBC HCT (%)

```
          type:  numeric (float)

         range:  [6.6,43.5]                  units:  .1
 unique values:  282            coded missing:  105 / 2686

          mean:  25.1939
      std. dev:  5.41162

   percentiles:       10%      25%      50%      75%      90%
                     18.6     21.5       25       29     32.2
```

F48CBCRB --- CBC RBC (X 10(12)|L)

```
          type:  numeric (float)

         range:  [.5,6]                       units:  .01
 unique values:  388            coded missing:  296 / 2686

          mean:  2.96368
      std. dev:  .842306

   percentiles:       10%      25%      50%      75%      90%
                     2.01     2.33     2.85     3.53     4.15
```

F48CBCWB -- CBC WBC (X 10(9)|L)

```
          type:  numeric (float)

         range:  [1.7,97.8]                   units:  .1
 unique values:  391            coded missing:  123 / 2686

          mean:  18.1287
      std. dev:  8.64677

   percentiles:       10%      25%      50%      75%      90%
                      8.5     12.1     16.7     22.3     29.1
```

F48CBCMV -- CBC MCV (FL)
```
            type:  numeric (float)


           range:  [51,119]                  units:  1
   unique values:  61            coded missing:  257 / 2686

            mean:  85.3458
        std. dev:  9.76974

     percentiles:        10%      25%      50%      75%      90%
                          72       79       86       92       97
```


F48RETIC -- RETICULOCYTES (%)
```
            type:  numeric (float)


           range:  [0,50]                    units:  .1
   unique values:  324           coded missing:  494 / 2686

            mean:  11.1596
        std. dev:  8.20619

     percentiles:        10%      25%      50%      75%      90%
                           2      4.6      9.8    15.95     22.4
```


F48HJB --- HOWELL JOLLY BODIES
```
            type:  numeric (float)
           label:  F48HJB

           range:  [1,2]                     units:  1
   unique values:  2             coded missing:  903 / 2686

     tabulation:  Freq.   Numeric  Label
                   611         1  YES
                  1172         2  NO
```

F48DFPMN -- DIFFERENTIAL PMN (%)
                 type: numeric (float)

              range: [1,94]   units: 1
      unique values: 92   coded missing: 269 / 2686

               mean: 58.0654
           std. dev: 18.2282

         percentiles: 10%   25%   50%   75%   90%
                             31   46   60   72   80

F48DFBND -- DIFFERENTIAL BANDS (%)
                 type: numeric (float)

              range: [0,66]   units: 1
      unique values: 51   coded missing: 611 / 2686

               mean: 5.22795
           std. dev: 7.36031

         percentiles: 10%   25%   50%   75%   90%
                              0   1   3   7   13

F48DFBND:
  1. F48DFBND was not collected before 10/10/80.

F48DFEOS --------------------------------------- DIFFERENTIAL EOSINOPHILS (%)
                 type: numeric (float)

              range: [0,21]   units: 1
      unique values: 18   coded missing: 408 / 2686

               mean: 1.03731
           std. dev: 1.8624

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

F48DFBAS -- DIFFERENTIAL BASOPHILS (%)
                 type: numeric (float)

              range: [0,68]   units: 1
      unique values: 18   coded missing: 460 / 2686

               mean: .436658
           std. dev: 2.69761

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

F48DFLYM -------------------------------------- DIFFERENTIAL LYMPHOCYTES (%)

```
          type:  numeric (float)

         range:  [0,97]                  units:  1
 unique values:  88              coded missing:  285 / 2686

          mean:  28.5144
      std. dev:  17.3003

   percentiles:      10%      25%      50%      75%      90%
                       9       15       25       39       53
```

F48DFMON -- DIFFERENTIAL MONOCYTES (%)

```
          type:  numeric (float)

         range:  [0,30]                  units:  1
 unique values:  29              coded missing:  312 / 2686

          mean:  6.72367
      std. dev:  4.70955

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

F48DFATC ----------------------------------- DIFFERENTIAL ATYPICAL CELLS (%)

```
          type:  numeric (float)

         range:  [0,30]                  units:  1
 unique values:  20              coded missing:  475 / 2686

          mean:  .683853
      std. dev:  2.05688

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

F48DFMM ---------------------------------- DIFFERENTIAL METAMYEL|MYELOCYTES (%)

```
          type:  numeric (float)

         range:  [0,17]                  units:  1
 unique values:  15              coded missing:  488 / 2686

          mean:  .210191
      std. dev:  .972281

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

F48NRB --------------------------------- NUCLEATED RED BLOOD CELLS (|100 WBC)
             type: numeric (float)

            range: [0,643]   units: 1
    unique values: 75   coded missing: 384 / 2686

             mean: 4.69679
        std. dev: 22.285

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

F48LNGIN --- LUNG INFILTRATE
             type: numeric (float)
            label: F48LNGIN

            range: [1,2]   units: 1
    unique values: 2   coded missing: 637 / 2686

       tabulation: Freq.   Numeric Label
                     160   1   YES
                    1889   2   NO

F48PLEFF --- PLEURAL EFFUSION
             type: numeric (float)
            label: F48PLEFF

            range: [0,4]   units: 1
    unique values: 5   coded missing: 676 / 2686

       tabulation: Freq.   Numeric Label
                       5   0   YES,NO LOCATION (0)
                      11   1   YES, RIGHT (1)
                      11   2   YES, LEFT (2)
                      11   3   YES, BOTH (3)
                    1972   4   NO (4)

F48PLEFF:
  1. Binary coded variable. See Part II for explanation of binary coded
      variables.

F48CHOTH --- OTHER CHEST X-RAY PROBLEMS
             type: numeric (float)
            label: F48CHOTH

            range: [1,2]   units: 1
    unique values: 2   coded missing: 725 / 2686

       tabulation: Freq.   Numeric Label
                      80   1   YES
                    1881   2   NO

F48SPFL --- SPINAL FLUID EXAM DONE
```
              type:  numeric (float)
              label:  F48SPFL

              range:  [1,2]                    units:  1
      unique values:  2            coded missing:  155 / 2686

        tabulation:  Freq.   Numeric  Label
                      232        1   DONE
                     2299        2   NOT DONE
```

F48HBS --- HB S (%)
```
              type:  numeric (float)

              range:  [3,99]                   units:  1
      unique values:  67           coded missing:  2555 / 2686

              mean:   48.9924
          std. dev:   28.209

        percentiles:       10%      25%      50%      75%      90%
                            12       22       49       73       89
```

F48HBS:
  1. F48HBS was not collected before 10/10/80.
  2. Response required only if patient was transfused within 4 months prior
      to the event.

```
F48FLOWS ---------------------------------------------- NUMBER OF FLOW SHEETS
                  type:  numeric (float)


                 range:  [0,19]                           units:  1
         unique values:  12                       coded missing:  0 / 2686

            tabulation:  Freq.  Value
                          654   0
                         1577   1
                          347   2
                           65   3
                           14   4
                           11   5
                            5   6
                            5   7
                            3   8
                            3   10
                            1   15
                            1   19


F48FLOWS:
  1.  See section on computed variables.



F48FRM52 ---------------------------------------- IS THERE A 52 ON THE DATABASE
                  type:  numeric (float)


                 range:  [0,50]                           units:  1
         unique values:  14                       coded missing:  0 / 2686

            tabulation:  Freq.  Value
                          236   0
                           22   30
                           13   31
                           19   32
                           14   33
                            1   34
                            5   36
                            3   38
                            1   40
                            2   42
                            2   44
                            2   46
                         2364   48
                            2   50


F48FRM52:
  1.  See section on computed variables.
```

```
F48DHOSP --------------------------------------- NUMBER OF DAYS HOSPITALIZED
                 type:  numeric (float)

                range:  [0,143]                     units:  1
        unique values:  43              coded missing:  187 / 2686

                 mean:  4.69868
            std. dev:  5.99059

          percentiles:        10%       25%       50%       75%       90%
                               0         2         4         6         9
```

F48DHOSP:
  1. See section on computed variables.

_dta:
  1. Created 05/24/00.

A. List of variables deleted   **F49DATE F49INIT F49NDATE F49LASTU F49LASTE
    F49ESTAT F49VDATE F49DTE1-F49DTE6**

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   **F49DATE**

H.   New name   **JF49DATE**

I. Collection Information:

    Form 49 (**Septicemia and Acute Febrile Event Flow Sheet**) was filled out

whenever a Form 48 was filled out if a patient was hospitalized or seen daily for an

acute febrile or sepsis event. The form collects daily information from hospitalization

day 2 through the date of discharge. Each flow sheet contains 6 days of hospital

information. As a result, multiple Form 49s can exist for a given event depending on

the length of hospitalization or daily outpatient follow-up. Laboratory data were

recorded every three days (i.e., hospitalization days 4, 7, 10, 13, etc.).

J. Data Collection Period: 03/79 – 01/86

K. Form Version Dates: 03/01/79, 10/22/81

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

L. Files Used to Store Information:

   SAS System File: **R49.SD2**

   Format File: **R49.FMT**

M. Unique Record Identifiers: **ANONID**, **F49DATE**, **F49SHEET**

   Records within the SAS dataset are sorted by **ANONID**, **F49DATE**, and **F49SHEET**
   (flow sheet number).

N. Number of Observations (Patients) in SAS Dataset: 2730 (984)

O. Contents of SAS Dataset:

   Alphabetical Listing of Variables: See pp. 698-700

   Listing of Variables by Position: See pp. 701-703

P. Notes About Selected Variables:

   - **F49SPLT1-6**, **F49SPLD1-6** – are variable names for spleen size below LCM and
     from midline respectively. The spleen size question on form versions before
     10/22/81 did not specify what measurement should be recorded—all spleen size
     values were assumed to be size below LCM.

   - **F49POSN1-F49POSN6** – are Posner stage variables. The codes used for level
     of consciousness (Posner stage) in **R49.SD2** are different from those used for
     the variable **F48POSNR** in **R48.SD2**—i.e., in **R48.SD2**, the range is from "1"
     (awake and alert) to "6" (unresponsive); in **R49.SD2**, the range is from "0" (awake
     and alert) to "5" (unresponsive).

   - **F49PLT1-2**, **F49THRP1-2**, **F49THRC1-2**, **F49PTP1-2**, **F49PTC1-2**, **F49PTTP1-2**,
     F49PTTC1-2, **F49FIB1-2**, **F49FSP1-2** – are used to diagnose disseminated
     intravascular coagulation (DIC) at the time of a sepsis event. There are no
     corresponding variables in **R48.SD2**.

   - **F49DTE1-F49DTE6** – are 4-digit integers composed of month and day of follow-
     up.

Q. <u>Computed Variables</u>: None

R. <u>Inter-Relationship With Other Datasets</u>:

A. Collection

"Record 49" contains daily follow-up data for acute febrile /sepsis events stored in **R48.SD2**. "Record 49" is linked to "Record 48" by **ANONID** and *date patient first sought care* (if **F48DATE**=**F49DATE**). The number of "Record 49s" which will link with a given "Record 48" depends on the length of hospitalization. If a patient was hospitalized (or seen daily) for $\leq$ 7 days, only one "Record 49" should be on the database (**F49SHEET**=1) for the event; if a patient was hospitalized for 8-13 days, two "Record 49s" should be on the database (**F49SHEET**=1 for days 2 through 7, **F49SHEET**=2 form days 8 through 13), etc. The value of **F48FLOWS** in "Record 48" is the number of "Record 49s" which will link by date with the "Record 48." The value of **F48DHOSP** in "Record 48" is the number of days hospitalized or seen daily (i.e., the number of days information was collected on "Record 49s").

```
                    CONTENTS OF SAS DATASET:  R49.SD2
      DATA FROM CSSCD FORM 49 - SEPTICEMIA AND ACUTE FEBRILE EVENT FLOW SHEET
      VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
                    IN THE SAS DATASET AND ON FORM 49
         The SAS System                    16:42 Tuesday, January 30, 2007   6

                            The CONTENTS Procedure

Data Set Name       OUT1.R49                 Observations          2730
Member Type         DATA                     Variables             82
Engine              V9                       Indexes               0
Created             15:19 Monday, January 22, 2007   Observation Length   656
Last Modified       15:19 Monday, January 22, 2007   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   115
   First Data Page            1
   Max Obs per Page           24
   Obs in First Data Page     7
```

CODEBOOK FOR CSSCD FORM 49
SEPTICEMIA AND ACUTE FEBRILE EVENT FLOW SHEET
CSSCD FULL COHORT PATIENTS

Number of Data Set Repairs	O	
File Name	r49.sas7bdat	
Release Created	9.0000MO	
Host Created	XP_PRO	

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
1	ANONID	Char	8	ANONYMIZED ID #
46	F49CBHB1	Num	8	CBC HB (G|DL) (DAY 3)
47	F49CBHB2	Num	8	CBC HB (G|DL) (DAY 6)
48	F49CBHC1	Num	8	CBC HCT (%) (DAY 3)
49	F49CBHC2	Num	8	CBC HCT (%) (DAY 6)
50	F49CBWB1	Num	8	CBC WBC (X 10(9)|L) (DAY 3)
51	F49CBWB2	Num	8	CBC WBC (X 10(9)|L) (DAY 6)
58	F49DBAS1	Num	8	DIFFERENTIAL BASOPHILS (%) (DAY 3)
59	F49DBAS2	Num	8	DIFFERENTIAL BASOPHILS (%) (DAY 6)
54	F49DBDN1	Num	8	DIFFERENTIAL BANDS (%) (DAY 3)
55	F49DBDN2	Num	8	DIFFERENTIAL BANDS (%) (DAY 6)
56	F49DEOS1	Num	8	DIFFERENTIAL EOSINOPHILS (%) (DAY 3)
57	F49DEOS2	Num	8	DIFFERENTIAL EOSINOPHILS (%) (DAY 6)
60	F49DLYM1	Num	8	DIFFERENTIAL LYMPHOCYTES (%) (DAY 3)
61	F49DLYM2	Num	8	DIFFERENTIAL LYMPHOCYTES (%) (DAY 6)
62	F49DMON1	Num	8	DIFFERENTIAL MONOCYTES (%) (DAY 3)
63	F49DMON2	Num	8	DIFFERENTIAL MONOCYTES (%) (DAY 6)
52	F49DPMN1	Num	8	DIFFERENTIAL PMN (%) (DAY 3)
53	F49DPMN2	Num	8	DIFFERENTIAL PMN (%) (DAY 6)
78	F49FIB1	Num	8	FIBRINOGEN (MG|DL) (DAY 3)
79	F49FIB2	Num	8	FIBRINOGEN (MG|DL) (DAY 6)
80	F49FSP1	Num	8	FIBRIN SPLIT PRODUCTS (UG|ML) (DAY 3)
81	F49FSP2	Num	8	FIBRIN SPLIT PRODUCTS (UG|ML) (DAY 6)
3	F49HOSP	Num	8	HOSPITALIZED OR OUTPATIENT
22	F49LVR1	Num	8	LIVER - CM BELOW RCM (DAY 1)
23	F49LVR2	Num	8	LIVER - CM BELOW RCM (DAY 2)
24	F49LVR3	Num	8	LIVER - CM BELOW RCM (DAY 3)
25	F49LVR4	Num	8	LIVER - CM BELOW RCM (DAY 4)
26	F49LVR5	Num	8	LIVER - CM BELOW RCM (DAY 5)
27	F49LVR6	Num	8	LIVER - CM BELOW RCM (DAY 6)
16	F49PLSE1	Num	8	PULSE (PER MIN) (DAY 1)
17	F49PLSE2	Num	8	PULSE (PER MIN) (DAY 2)
18	F49PLSE3	Num	8	PULSE (PER MIN) (DAY 3)
19	F49PLSE4	Num	8	PULSE (PER MIN) (DAY 4)
20	F49PLSE5	Num	8	PULSE (PER MIN) (DAY 5)
21	F49PLSE6	Num	8	PULSE (PER MIN) (DAY 6)
64	F49PLT1	Num	8	PLATELET COUNT (X 10(9)|L) (DAY 3)
65	F49PLT2	Num	8	PLATELET COUNT (X 10(9)|L) (DAY 6)
40	F49POSN1	Num	8	POSNER STAGING (DAY 1)
41	F49POSN2	Num	8	POSNER STAGING (DAY 2)
42	F49POSN3	Num	8	POSNER STAGING (DAY 3)
43	F49POSN4	Num	8	POSNER STAGING (DAY 4)
44	F49POSN5	Num	8	POSNER STAGING (DAY 5)
45	F49POSN6	Num	8	POSNER STAGING (DAY 6)
72	F49PTC1	Num	8	P.T. CONTROL (SECS) (DAY 3)
73	F49PTC2	Num	8	P.T. CONTROL (SECS) (DAY 6)

70	F49PTP1	Num	8	P.T. PATIENT (SECS) (DAY 3)
71	F49PTP2	Num	8	P.T. PATIENT (SECS) (DAY 6)
76	F49PTTC1	Num	8	P.T.T. CONTROL (SECS) (DAY 3)
77	F49PTTC2	Num	8	P.T.T. CONTROL (SECS) (DAY 6)
74	F49PTTP1	Num	8	P.T.T. PATIENT (SECS) (DAY 3)
75	F49PTTP2	Num	8	P.T.T. PATIENT (SECS) (DAY 6)
10	F49RESP1	Num	8	RESPIRATION (PER MIN) (DAY 1)
11	F49RESP2	Num	8	RESPIRATION (PER MIN) (DAY 2)
12	F49RESP3	Num	8	RESPIRATION (PER MIN) (DAY 3)
13	F49RESP4	Num	8	RESPIRATION (PER MIN) (DAY 4)
14	F49RESP5	Num	8	RESPIRATION (PER MIN) (DAY 5)
15	F49RESP6	Num	8	RESPIRATION (PER MIN) (DAY 6)
2	F49SHEET	Num	8	SHEET NUMBER
34	F49SPLD1	Num	8	SPLEEN - CM FROM MIDLINE (DAY 1)
35	F49SPLD2	Num	8	SPLEEN - CM FROM MIDLINE (DAY 2)
36	F49SPLD3	Num	8	SPLEEN - CM FROM MIDLINE (DAY 3)
37	F49SPLD4	Num	8	SPLEEN - CM FROM MIDLINE (DAY 4)
38	F49SPLD5	Num	8	SPLEEN - CM FROM MIDLINE (DAY 5)
39	F49SPLD6	Num	8	SPLEEN - CM FROM MIDLINE (DAY 6)
28	F49SPLT1	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 1)
29	F49SPLT2	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 2)
30	F49SPLT3	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 3)
31	F49SPLT4	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 4)
32	F49SPLT5	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 5)
33	F49SPLT6	Num	8	SPLEEN TIP - CM BELOW LCM (DAY 6)
68	F49THRC1	Num	8	THROMBIN CONTROL (SECS) (DAY 3)
69	F49THRC2	Num	8	THROMBIN CONTROL (SECS) (DAY 6)
66	F49THRP1	Num	8	THROMBIN PATIENT (SECS) (DAY 3)
67	F49THRP2	Num	8	THROMBIN PATIENT (SECS) (DAY 6)
4	F49TMP1	Num	8	TEMPERATURE (DAY 1)
5	F49TMP2	Num	8	TEMPERATURE (DAY 2)
6	F49TMP3	Num	8	TEMPERATURE (DAY 3)
7	F49TMP4	Num	8	TEMPERATURE (DAY 4)
8	F49TMP5	Num	8	TEMPERATURE (DAY 5)
9	F49TMP6	Num	8	TEMPERATURE (DAY 6)
82	JF49DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

```
*********************************************************************;
*R49.FMT contains value labels for numerical codes assigned to
categorical    ;
*variables in the SAS dataset R49.SD2
;
*********************************************************************;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    06/02/99 16:30:30;


PROC FORMAT;


*  FORMAT F49HOSP IS DEFINED FOR VARIABLE F49HOSP;

   VALUE F49HOSP
     1              = 'HOSPITALIZED'
     2              = 'OUTPATIENT';


*  FORMAT F49SPLT IS DEFINED FOR VARIABLES F49SPLT1, F49SPLT2,
F49SPLT3, F49SPLT4, F49SPLT5, AND F49SPLT6;

   VALUE F49SPLT
     -9             = 'SPLENECTOMIZED'
     -8             = 'TIP FELT AT LCM';
```

```
*   FORMAT F49POSN IS DEFINED FOR VARIABLES F49POSN1, F49POSN2,
F49POSN3, F49POSN4, F49POSN5, AND F49POSN6;

    VALUE F49POSN
      0                 = '0 AWAKE'
      1                 = '1 LETHARGIC'
      2                 = '2 CONFUSED'
      3                 = '3 STUPOROUS'
      4                 = '4 COMATOSE'
      5                 = '5 UNRESPONSIVE';



*   FORMAT F49FSP IS DEFINED FOR VARIABLE F49FSP1, AND F49FSP2 ;

    VALUE F49FSP
      1                 = '<=10'
      2                 = '>10 AND <40'
      3                 = '>=40';




*    FORMAT
         F49SPLT1 F49SPLT2 F49SPLT3 F49SPLT4 F49SPLT5 F49SPLT6
F49SPLT.
         F49POSN1 F49POSN2 F49POSN3 F49POSN4 F49POSN5 F49POSN6
F49POSN.
         F49FSP1 F49FSP2 F49FSP.
         F49HOSP  F49HOSP.;
RUN;
QUIT;
```

F49VDATE -- VERSION DATE   **DELETED**
```
              type:  numeric (int)
             label:  datelab

             range:  [6999,7965]                      units:  1
     unique values:  2                        coded missing:  0 / 2730

        tabulation:  Freq.   Numeric  Label
                      634       6999  03/01/79
                     2096       7965  10/22/81
```

F49SHEET --- SHEET NUMBER
```
              type:  numeric (float)

             range:  [1,19]                            units:  1
     unique values:  19                       coded missing:  0 / 2730

        tabulation:  Freq.  Value
                     2034  1
                      454  2
                      107  3
                       43  4
                       29  5
                       18  6
                       13  7
                        8  8
                        5  9
                        5  10
                        2  11
                        2  12
                        2  13
                        2  14
                        2  15
                        1  16
                        1  17
                        1  18
                        1  19
```

F49HOSP --- HOSPITALIZED OR OUTPATIENT
```
              type:  numeric (float)
             label:  F49HOSP

             range:  [1,2]                             units:  1
     unique values:  2                        coded missing:  22 / 2730

        tabulation:  Freq.   Numeric  Label
                     2666         1  HOSPITALIZED
                       42         2  OUTPATIENT
```

F49TMP1 -- TEMPERATURE (DAY 1)
```
              type:  numeric (float)

             range:  [35.5,42.6]              units:  .1
     unique values:  58              coded missing:  35 / 2730

              mean:  38.3343
          std. dev:  1.00128

       percentiles:       10%      25%      50%      75%      90%
                          37      37.5     38.3     39.1     39.7
```

F49TMP2 -- TEMPERATURE (DAY 2)
```
              type:  numeric (float)

             range:  [35.4,42.4]              units:  .1
     unique values:  55              coded missing:  188 / 2730

              mean:  37.987
          std. dev:  .907226

       percentiles:       10%      25%      50%      75%      90%
                          37      37.2     37.8     38.6     39.3
```

F49TMP3 -- TEMPERATURE (DAY 3)
```
              type:  numeric (float)

             range:  [35.4,42.4]              units:  .1
     unique values:  55              coded missing:  523 / 2730

              mean:  37.8064
          std. dev:   .8705

       percentiles:       10%      25%      50%      75%      90%
                         36.9     37.2     37.6     38.3      39
```

F49TMP4 -- TEMPERATURE (DAY 4)
```
              type:  numeric (float)

             range:  [35.4,42]                units:  .1
     unique values:  51              coded missing:  1029 / 2730

              mean:  37.7045
          std. dev:  .835191

       percentiles:       10%      25%      50%      75%      90%
                         36.8     37.1     37.5     38.2     38.9
```

```
F49TMP5 ------------------------------------------------- TEMPERATURE (DAY 5)
              type:  numeric (float)

             range:  [35.5,41.7]               units:  .1
     unique values:  53             coded missing:  1455 / 2730

              mean:  37.6518
          std. dev:  .814586

       percentiles:       10%      25%      50%      75%      90%
                          36.8     37       37.5     38.1     38.8
```

```
F49TMP6 ------------------------------------------------- TEMPERATURE (DAY 6)
              type:  numeric (float)

             range:  [35.8,40.5]               units:  .1
     unique values:  48             coded missing:  1767 / 2730

              mean:  37.6127
          std. dev:  .818843

       percentiles:       10%      25%      50%      75%      90%
                          36.8     37       37.5     38       38.8
```

```
F49RESP1 ------------------------------------- RESPIRATION (PER MIN) (DAY 1)
              type:  numeric (float)

             range:  [12,82]                   units:  1
     unique values:  45             coded missing:  66 / 2730

              mean:  29.2935
          std. dev:  9.18554

       percentiles:       10%      25%      50%      75%      90%
                          20       22       28       34       40
```

```
F49RESP2 ------------------------------------- RESPIRATION (PER MIN) (DAY 2)
              type:  numeric (float)

             range:  [12,82]                   units:  1
     unique values:  40             coded missing:  220 / 2730

              mean:  28.3227
          std. dev:  8.74055

       percentiles:       10%      25%      50%      75%      90%
                          20       22       26       32       40
```

F49RESP3 -------------------------------------- RESPIRATION (PER MIN) (DAY 3)
              type: numeric (float)

             range: [10,90]   units: 1
     unique values: 44   coded missing: 547 / 2730

              mean: 27.7077
          std. dev: 8.24881

       percentiles: 10%   25%   50%   75%   90%
                           20   20   26   32   40

F49RESP4 -------------------------------------- RESPIRATION (PER MIN) (DAY 4)
              type: numeric (float)

             range: [12,99]   units: 1
     unique values: 41   coded missing: 1048 / 2730

              mean: 26.9756
          std. dev: 7.98377

       percentiles: 10%   25%   50%   75%   90%
                           20   20   24   32   39

F49RESP5 -------------------------------------- RESPIRATION (PER MIN) (DAY 5)
              type: numeric (float)

             range: [12,70]   units: 1
     unique values: 35   coded missing: 1472 / 2730

              mean: 26.3561
          std. dev: 7.76036

       percentiles: 10%   25%   50%   75%   90%
                           20   20   24   30   36

F49RESP6 -------------------------------------- RESPIRATION (PER MIN) (DAY 6)
              type: numeric (float)

             range: [12,61]   units: 1
     unique values: 32   coded missing: 1774 / 2730

              mean: 26.023
          std. dev: 7.76173

       percentiles: 10%   25%   50%   75%   90%
                           20   20   24   30   36

F49PLSE1 --- PULSE (PER MIN) (DAY 1)
                   type: numeric (float)

                  range: [26,200]   units: 1
          unique values: 88   coded missing: 60 / 2730

                   mean: 118.402
               std. dev: 22.3692

            percentiles: 10%   25%   50%   75%   90%
                                88   100   120   134   146

F49PLSE2 --- PULSE (PER MIN) (DAY 2)
                   type: numeric (float)

                  range: [24,199]   units: 1
          unique values: 76   coded missing: 214 / 2730

                   mean: 114.578
               std. dev: 20.9605

            percentiles: 10%   25%   50%   75%   90%
                                88   100   116   130   140

F49PLSE3 --- PULSE (PER MIN) (DAY 3)
                   type: numeric (float)

                  range: [15,200]   units: 1
          unique values: 85   coded missing: 545 / 2730

                   mean: 112.109
               std. dev: 20.8299

            percentiles: 10%   25%   50%   75%   90%
                                86   98   112   128   140

F49PLSE4 --- PULSE (PER MIN) (DAY 4)
                   type: numeric (float)

                  range: [60,184]   units: 1
          unique values: 73   coded missing: 1049 / 2730

                   mean: 110.055
               std. dev: 20.6362

            percentiles: 10%   25%   50%   75%   90%
                                83   96   110   124   138

F49PLSE5 -- PULSE (PER MIN) (DAY 5)
              type: numeric (float)

            range: [44,180]   units: 1
    unique values: 64   coded missing: 1470 / 2730

             mean: 108.645
        std. dev: 20.5254

        percentiles: 10%   25%   50%   75%   90%
                           84   92   106   122   138

F49PLSE6 -- PULSE (PER MIN) (DAY 6)
              type: numeric (float)

            range: [58,184]   units: 1
    unique values: 62   coded missing: 1773 / 2730

             mean: 107.305
        std. dev: 20.4911

        percentiles: 10%   25%   50%   75%   90%
                           80   92   104   120   136

F49LVR1 --------------------------------------- LIVER - CM BELOW RCM (DAY 1)
              type: numeric (float)

            range: [0,23]   units: .1
    unique values: 38   coded missing: 332 / 2730

        tabulation: Freq. Value   tabulation: Freq. Value
                     1412   0   55   5
                        1   .1   1   5.5
                        1   .2   1   5.5999999
                        1   .40000001   42   6
                        6   .5   26   7
                      138   1   1   7.5
                        1   1.1   38   8
                        1   1.2   1   8.3000002
                        1   1.3   27   9
                       27   1.5   3   9.5
                      230   2   57   10
                        2   2.3   1   10.1
                       15   2.5   14   11
                        1   2.5999999   4   12
                      177   3   2   13
                        1   3.4000001   2   14
                       11   3.5   1   16
                       90   4   1   18
                        4   4.5   1   23

F49LVR1:
  1. Round up or down, keep 1 decimal place.

F49LVR2 --------------------------------------- LIVER - CM BELOW RCM (DAY 2)

```
              type:  numeric (float)
              range:  [0,24]                      units:  .1
      unique values:  38              coded missing:  502 / 2730
        tabulation:  Freq.  Value                    tabulation:  Freq.  Value
                     1363  0                                        52  5
                        1  .1                                        2  5.5
                        3  .2                                        1  5.5999999
                        1  .40000001                               38  6
                        3  .5                                        1  6.5
                        1  .60000002                               22  7
                      123  1                                         2  7.5
                        1  1.2                                      38  8
                        1  1.3                                      23  9
                       23  1.5                                      53  10
                      197  2                                         1  10.5
                        1  2.3                                      13  11
                       13  2.5                                       4  12
                      156  3                                         2  13
                        1  3.2                                       2  14
                        1  3.4000001                                 1  16
                        8  3.5                                       1  18
                       71  4                                         1  20.200001
                        2  4.5                                       1  24
```

F49LVR2:
  1. Round up or down, keep 1 decimal place.

F49LVR3 --------------------------------------- LIVER - CM BELOW RCM (DAY 3)

```
              type:  numeric (float)
              range:  [0,23]                      units:  .1
      unique values:  37              coded missing:  799 / 2730
        tabulation:  Freq.  Value
                     1189  0                         tabulation:  Freq.  Value
                        3  .1                                       36  5
                        2  .2                                        2  5.5
                        1  .30000001                                1  5.5999999
                        1  .40000001                               37  6
                        4  .5                                        2  6.5
                        1  .60000002                               15  7
                      103  1                                         1  7.5
                       17  1.5                                      35  8
                      161  2                                        23  9
                        1  2.3                                       1  9.5
                        9  2.5                                      46  10
                      146  3                                        12  11
                        1  3.4000001                                3  12
                        5  3.5                                       2  13
                        1  3.5999999                                2  14
                        1  3.8                                       1  16
                       60  4                                         1  18
                        4  4.5                                       1  23
```

F49LVR3:
  1. Round up or down, keep 1 decimal place.

F49LVR4 --------------------------------------- LIVER - CM BELOW RCM (DAY 4)
            type: numeric (float)

            range: [0,43]   units: .1
    unique values: 34   coded missing: 1269 / 2730

    tabulation: Freq. Value   tabulation: Freq. Value
                  924 0   1 4.5
                    1 .1   21 5
                    1 .2   2 5.5
                    1 .30000001   31 6
                    1 .40000001   11 7
                    4 .5   1 7.5
                   71 1   26 8
                    1 1.1   23 9
                    1 1.2   1 9.5
                   13 1.5   35 10
                  115 2   11 11
                    8 2.5   2 12
                  104 3   2 13
                    1 3.4000001   2 14
                    4 3.5   1 16
                    1 3.5999999   1 18
                   38 4   1 43

F49LVR4:
  1. Round up or down, keep 1 decimal place.
  2. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F49LVR5 --------------------------------------- LIVER - CM BELOW RCM (DAY 5)
            type: numeric (float)

            range: [0,23]   units: .1
    unique values: 29   coded missing: 1647 / 2730

    tabulation: Freq. Value   tabulation: Freq. Value
                  681 0   25 6
                    1 .2   6 7
                    1 .40000001   1 7.5
                    3 .5   22 8
                   47 1   16 9
                    2 1.2   1 9.5
                    7 1.5   30 10
                   82 2   10 11
                   10 2.5   2 12
                   80 3   1 13
                    1 3.4000001   1 14
                    3 3.5   1 16
                   29 4   1 18
                   17 5   1 23
                    1 5.5

F49LVR5:
  1. Round up or down, keep 1 decimal place.

F49LVR6 -- LIVER - CM BELOW RCM (DAY 6)

```
            type:  numeric (float)


           range:  [0,18]                           units:  .1
   unique values:  26                      coded missing:  1910 / 2730
```

tabulation:	Freq.	Value		tabulation:	Freq.	Value
	510	0			22	6
	1	.2			8	7
	3	.5			1	7.5
	29	1			15	8
	2	1.2			14	9
	6	1.5			1	9.5
	64	2			26	10
	3	2.5			8	11
	65	3			2	12
	1	3.4000001			1	13
	2	3.5			1	14
	19	4			1	16
	14	5			1	18

F49LVR6:
  1. Round up or down, keep 1 decimal place.

F49SPLT1 ----------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 1)

```
            type:  numeric (float)
           label:  F49SPLT1


           range:  [-9,23]                          units:  1
   unique values:  16                      coded missing:  349 / 2730
```

tabulation:	Freq.	Numeric	Label
	21	-9	SPLENECTOMIZED
	4	-8	TIP FELT AT LCM
	1920	0	
	86	1	
	111	2	
	94	3	
	50	4	
	35	5	
	18	6	
	8	7	
	15	8	
	4	9	
	10	10	
	3	11	
	1	14	
	1	23	

F49SPLT2 ---------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 2)

```
            type:  numeric (float)
           label:  F49SPLT2

           range:  [-9,23]                     units:  1
   unique values:  16             coded missing:  497 / 2730

      tabulation:  Freq.   Numeric  Label
                      20        -9  SPLENECTOMIZED
                       3        -8  TIP FELT AT LCM
                    1813         0
                      76         1
                     112         2
                      79         3
                      47         4
                      30         5
                      18         6
                       8         7
                       7         8
                       4         9
                      11        10
                       3        11
                       1        12
                       1        23
```

F49SPLT3 ---------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 3)

```
            type:  numeric (float)
           label:  F49SPLT3

           range:  [-9,23]                     units:  1
   unique values:  16             coded missing:  812 / 2730

      tabulation:  Freq.   Numeric  Label
                      17        -9  SPLENECTOMIZED
                       1        -8  TIP FELT AT LCM
                    1547         0
                      75         1
                      98         2
                      70         3
                      39         4
                      29         5
                      15         6
                       5         7
                       7         8
                       3         9
                       6        10
                       4        11
                       1        14
                       1        23
```

F49SPLT4 ----------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 4)

```
          type:  numeric (float)
          label:  F49SPLT4

          range:  [-9,23]                      units:  1
  unique values:  15               coded missing:  1275 / 2730

    tabulation:  Freq.    Numeric  Label
                   14        -9    SPLENECTOMIZED
                    1        -8    TIP FELT AT LCM
                 1190         0
                   48         1
                   74         2
                   44         3
                   34         4
                   18         5
                   13         6
                    4         7
                    5         8
                    1         9
                    5        10
                    3        11
                    1        23
```

F49SPLT5 ----------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 5)

```
          type:  numeric (float)
          label:  F49SPLT5

          range:  [-9,23]                      units:  1
  unique values:  13               coded missing:  1652 / 2730

    tabulation:  Freq.    Numeric  Label
                    7        -9    SPLENECTOMIZED
                  879         0
                   40         1
                   52         2
                   39         3
                   21         4
                   17         5
                    9         6
                    4         7
                    3         8
                    4        10
                    2        11
                    1        23
```

```
F49SPLT6 ----------------------------------- SPLEEN TIP - CM BELOW LCM (DAY 6)
            type:  numeric (float)
           label:  F49SPLT6
           range:  [-9,23]                       units:  1
   unique values:  12                    coded missing:  1908 / 2730
      tabulation:  Freq.   Numeric  Label
                      6       -9    SPLENECTOMIZED
                    664        0
                     24        1
                     45        2
                     28        3
                     17        4
                     15        5
                     10        6
                      4        7
                      6       10
                      2       11
                      1       23


F49SPLD1 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 1)
            type:  numeric (float)
           range:  [0,12]                         units:  1
   unique values:  12                    coded missing:  1222 / 2730
      tabulation:  Freq.  Value
                   1330  0
                     26  1
                     22  2
                     25  3
                     22  4
                     25  5
                     16  6
                     14  7
                     20  8
                      5  10
                      1  11
                      2  12



F49SPLD2 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 2)
            type:  numeric (float)
           range:  [0,12]                         units:  1
   unique values:  12                    coded missing:  1314 / 2730
      tabulation:  Freq.  Value
                   1248  0
                     23  1
                     21  2
                     23  3
                     21  4
                     25  5
                     15  6
                     15  7
                     18  8
                      5  10
                      1  11
                      1  12
```

```
F49SPLD3 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 3)
            type:  numeric (float)
           range:  [0,12]                        units:  1
   unique values:  12                    coded missing:  1508 / 2730
      tabulation:  Freq.  Value
                    1067  0
                      20  1
                      20  2
                      20  3
                      19  4
                      22  5
                      15  6
                      15  7
                      17  8
                       5  10
                       1  11
                       1  12


F49SPLD4 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 4)
            type:  numeric (float)
           range:  [0,12]                        units:  1
   unique values:  12                    coded missing:  1806 / 2730
      tabulation:  Freq.  Value
                     822  0
                      10  1
                       9  2
                      16  3
                      12  4
                      16  5
                       9  6
                       9  7
                      15  8
                       4  10
                       1  11
                       1  12

F49SPLD5 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 5)
            type:  numeric (float)
           range:  [0,12]                        units:  1
   unique values:  13                    coded missing:  2036 / 2730
      tabulation:  Freq.  Value
                     620  0
                       3  1
                       8  2
                      10  3
                       9  4
                      12  5
                       6  6
                       7  7
                      13  8
                       1  9
                       3  10
                       1  11
                       1  12
```

```
F49SPLD6 ----------------------------------- SPLEEN - CM FROM MIDLINE (DAY 6)
              type:  numeric (float)


             range:  [0,12]                        units:  1
     unique values:  12                    coded missing:  2193 / 2730


        tabulation:  Freq.  Value
                      472  0
                        3  1
                        7  2
                        9  3
                        7  4
                        9  5
                        6  6
                        8  7
                       12  8
                        1  9
                        2  10
                        1  12




F49POSN1 --------------------------------------------- POSNER STAGING (DAY 1)
              type:  numeric (float)
              label: F49POSN1


             range:  [0,5]                         units:  1
     unique values:  6                     coded missing:  593 / 2730


        tabulation:  Freq.   Numeric  Label
                      2030        0  0 AWAKE
                        78        1  1 LETHARGIC
                         6        2  2 CONFUSED
                         5        3  3 STUPOROUS
                        14        4  4 COMATOSE
                         4        5  5 UNRESPONSIVE




F49POSN2 --------------------------------------------- POSNER STAGING (DAY 2)
              type:  numeric (float)
              label: F49POSN2


             range:  [0,5]                         units:  1
     unique values:  6                     coded missing:  733 / 2730


        tabulation:  Freq.   Numeric  Label
                      1905        0  0 AWAKE
                        63        1  1 LETHARGIC
                         9        2  2 CONFUSED
                         5        3  3 STUPOROUS
                        13        4  4 COMATOSE
                         2        5  5 UNRESPONSIVE
```

```
F49POSN3 --------------------------------------------- POSNER STAGING (DAY 3)
               type:  numeric (float)
              label:  F49POSN3
              range:  [0,5]                        units:  1
      unique values:  6                    coded missing:  618 / 2730
         tabulation:  Freq.   Numeric  Label
                      2016         0   0 AWAKE
                        52         1   1 LETHARGIC
                        10         2   2 CONFUSED
                         6         3   3 STUPOROUS
                        27         4   4 COMATOSE
                         1         5   5 UNRESPONSIVE


F49POSN4 --------------------------------------------- POSNER STAGING (DAY 4)
               type:  numeric (float)
              label:  F49POSN4
              range:  [0,5]                        units:  1
      unique values:  6                    coded missing:  1099 / 2730
         tabulation:  Freq.   Numeric  Label
                      1552         0   0 AWAKE
                        43         1   1 LETHARGIC
                         7         2   2 CONFUSED
                         2         3   3 STUPOROUS
                        26         4   4 COMATOSE
                         1         5   5 UNRESPONSIVE


F49POSN5 --------------------------------------------- POSNER STAGING (DAY 5)
               type:  numeric (float)
              label:  F49POSN5
              range:  [0,5]                        units:  1
      unique values:  6                    coded missing:  1497 / 2730
         tabulation:  Freq.   Numeric  Label
                      1173         0   0 AWAKE
                        27         1   1 LETHARGIC
                         6         2   2 CONFUSED
                         3         3   3 STUPOROUS
                        23         4   4 COMATOSE
                         1         5   5 UNRESPONSIVE


F49POSN6 --------------------------------------------- POSNER STAGING (DAY 6)
               type:  numeric (float)
              label:  F49POSN6
              range:  [0,4]                        units:  1
      unique values:  5                    coded missing:  1774 / 2730
         tabulation:  Freq.   Numeric  Label
                       910         0   0 AWAKE
                        18         1   1 LETHARGIC
                         6         2   2 CONFUSED
                         1         3   3 STUPOROUS
                        21         4   4 COMATOSE
```

F49CBHB1 -- CBC HB (G|DL) (DAY 3)
                type: numeric (float)

               range: [2.2,16.8]   units: .1
       unique values: 112   coded missing: 782 / 2730

                mean: 8.379
            std. dev: 1.79763

         percentiles: 10%   25%   50%   75%   90%
                             6.3   7.1   8.2   9.5   10.7

F49CBHB2 -- CBC HB (G|DL) (DAY 6)
                type: numeric (float)

               range: [1.7,16.7]   units: .1
       unique values: 103   coded missing: 1939 / 2730

                mean: 8.48546
            std. dev: 1.92832

         percentiles: 10%   25%   50%   75%   90%
                             6.3   7.2   8.3   9.7   11

F49CBHC1 --- CBC HCT (%) (DAY 3)
                type: numeric (float)

               range: [4.7,49]   units: .1
       unique values: 280   coded missing: 775 / 2730

                mean: 24.9056
            std. dev: 5.62649

         percentiles: 10%   25%   50%   75%   90%
                            18.5   21.1   24.4   28.3   32.4

F49CBHC1:
  1. See LIST OF QUESTIONABLE VALUES at the end of the codebook.

F49CBHC2 --- CBC HCT (%) (DAY 6)
                type: numeric (float)

               range: [4.9,45]   units: .1
       unique values: 222   coded missing: 1939 / 2730

                mean: 25.3976
            std. dev: 5.72176

         percentiles: 10%   25%   50%   75%   90%
                            18.7   21.6   25.1   29   32.7

F49CBWB1 -- CBC WBC (X 10(9)|L) (DAY 3)
```
            type:  numeric (float)

           range:  [2.7,79.9]                 units:  .1
   unique values:  318              coded missing:  806 / 2730

            mean:  14.5872
        std. dev:  7.31605

     percentiles:       10%      25%      50%      75%      90%
                        6.7      9.5     13.3     18.1       24
```

F49CBWB2 -- CBC WBC (X 10(9)|L) (DAY 6)
```
            type:  numeric (float)

           range:  [2,79.1]                   units:  .1
   unique values:  239              coded missing:  1948 / 2730

            mean:  14.5705
        std. dev:  7.84316

     percentiles:       10%      25%      50%      75%      90%
                        7.4      9.4     12.9     17.6     22.5
```

F49DPMN1 -- DIFFERENTIAL PMN (%) (DAY 3)
```
            type:  numeric (float)

           range:  [1,96]                     units:  1
   unique values:  94               coded missing:  968 / 2730

            mean:  50.8502
        std. dev:   19.043

     percentiles:       10%      25%      50%      75%      90%
                         24       37       52       66       75
```

F49DPMN2 -- DIFFERENTIAL PMN (%) (DAY 6)
```
            type:  numeric (float)

           range:  [6,95]                     units:  1
   unique values:  83               coded missing:  2028 / 2730

            mean:  51.2222
        std. dev:  18.4344

     percentiles:       10%      25%      50%      75%      90%
                         26       38       53       64       75
```

F49DBDN1 ------------------------------------ DIFFERENTIAL BANDS (%) (DAY 3)
            type: numeric (float)

           range: [0,45]   units: 1
    unique values: 35   coded missing: 1376 / 2730

            mean: 3.91211
        std. dev: 5.67776

       percentiles: 10%   25%   50%   75%   90%
                            0   0   2   5   11

F49DBDN2 ------------------------------------ DIFFERENTIAL BANDS (%) (DAY 6)
            type: numeric (float)

           range: [0,42]   units: 1
    unique values: 32   coded missing: 2301 / 2730

            mean: 4.37063
        std. dev: 6.53067

       percentiles: 10%   25%   50%   75%   90%
                            0   0   2   5   12

F49DEOS1 -------------------------------- DIFFERENTIAL EOSINOPHILS (%) (DAY 3)
            type: numeric (float)

           range: [0,40]   units: 1
    unique values: 27   coded missing: 1039 / 2730

            mean: 2.50266
        std. dev: 3.53551

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

F49DEOS2 -------------------------------- DIFFERENTIAL EOSINOPHILS (%) (DAY 6)
            type: numeric (float)

           range: [0,40]   units: 1
    unique values: 21   coded missing: 2052 / 2730

            mean: 2.85546
        std. dev: 3.61636

       percentiles: 10%   25%   50%   75%   90%
                            0   0   2   4   8

F49DBAS1 --------------------------------- DIFFERENTIAL BASOPHILS (%) (DAY 3)
             type: numeric (float)

            range: [0,67]   units: 1
    unique values: 10   coded missing: 1154 / 2730

             mean: .432107
         std. dev: 2.08254

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

F49DBAS2 --------------------------------- DIFFERENTIAL BASOPHILS (%) (DAY 6)
             type: numeric (float)

            range: [0,12]   units: 1
    unique values: 11   coded missing: 2103 / 2730

             mean: .637959
         std. dev: 1.34878

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

F49DLYM1 -------------------------------- DIFFERENTIAL LYMPHOCYTES (%) (DAY 3)
             type: numeric (float)

            range: [0,96]   units: 1
    unique values: 93   coded missing: 965 / 2730

             mean: 35.5286
         std. dev: 18.9083

      percentiles: 10%   25%   50%   75%   90%
                          13   21   33   49   62

F49DLYM2 -------------------------------- DIFFERENTIAL LYMPHOCYTES (%) (DAY 6)
             type: numeric (float)

            range: [0,86]   units: 1
    unique values: 83   coded missing: 2033 / 2730

             mean: 33.967
         std. dev: 18.27

      percentiles: 10%   25%   50%   75%   90%
                          12   20   31   47   60

F49DMON1 ---------------------------------- DIFFERENTIAL MONOCYTES (%) (DAY 3)
                type: numeric (float)

              range: [0,38]   units: 1
      unique values: 29   coded missing: 986 / 2730

               mean: 6.83544
           std. dev: 4.61332

        percentiles: 10%   25%   50%   75%   90%
                              2   3   6   9   13

F49DMON2 ---------------------------------- DIFFERENTIAL MONOCYTES (%) (DAY 6)
                type: numeric (float)

              range: [0,37]   units: 1
      unique values: 24   coded missing: 2040 / 2730

               mean: 7.01739
           std. dev: 4.74423

        percentiles: 10%   25%   50%   75%   90%
                              1   3   6   10   14

F49PLT1 ---------------------------------- PLATELET COUNT (X 10(9)|L) (DAY 3)
                type: numeric (float)

              range: [37,1916]   units: 1
      unique values: 552   coded missing: 1315 / 2730

               mean: 367.697
           std. dev: 183.294

        percentiles: 10%   25%   50%   75%   90%
                            175   242   341   447   592

F49PLT2 ---------------------------------- PLATELET COUNT (X 10(9)|L) (DAY 6)
                type: numeric (float)

              range: [36,1580]   units: 1
      unique values: 347   coded missing: 2211 / 2730

               mean: 414.933
           std. dev: 214.711

        percentiles: 10%   25%   50%   75%   90%
                            175   263   390   511   697

F49THRP1 ------------------------------------ THROMBIN PATIENT (SECS) (DAY 3)
           type: numeric (float)

          range: [3.8,28.1]   units: .1
   unique values: 47   coded missing: 2673 / 2730

           mean: 14.1579
       std. dev: 5.48895

       percentiles: 10%   25%   50%   75%   90%
                          5.2   11.5   13.9   17   21.3

F49THRP2 ------------------------------------ THROMBIN PATIENT (SECS) (DAY 6)
           type: numeric (float)

          range: [11,29.4]   units: .1
   unique values: 14   coded missing: 2713 / 2730

           mean: 16.1647
       std. dev: 5.25428

       percentiles: 10%   25%   50%   75%   90%
                         11.8   12.2   13.6   18.6   25

F49THRC1 ------------------------------------ THROMBIN CONTROL (SECS) (DAY 3)
           type: numeric (float)

          range: [2,22.8]   units: .1
   unique values: 32   coded missing: 2679 / 2730

           mean: 12.6118
       std. dev: 4.58426

       percentiles: 10%   25%   50%   75%   90%
                            5   11   12.2   16.8   18

F49THRC2 ------------------------------------ THROMBIN CONTROL (SECS) (DAY 6)
           type: numeric (float)

          range: [11,18]   units: .1
   unique values: 9   coded missing: 2716 / 2730

           mean: 13.7714
       std. dev: 2.85938

       percentiles: 10%   25%   50%   75%   90%
                           11   11.6   12.45   16.6   18

```
F49PTP1 ----------------------------------------- P.T. PATIENT (SECS) (DAY 3)
              type:  numeric (float)

             range:  [9.1,60]                    units:  .1
     unique values:  62                  coded missing:  2617 / 2730

              mean:  15.8708
          std. dev:  7.98178

       percentiles:       10%      25%      50%      75%      90%
                           11     11.6     12.8     14.5     29.2


F49PTP2 ----------------------------------------- P.T. PATIENT (SECS) (DAY 6)
              type:  numeric (float)

             range:  [9.8,32.4]                  units:  .1
     unique values:  32                  coded missing:  2690 / 2730

              mean:  14.6175
          std. dev:  5.77154

       percentiles:       10%      25%      50%      75%      90%
                         10.4    11.45     12.6     14.7     24.7


F49PTC1 ----------------------------------------- P.T. CONTROL (SECS) (DAY 3)
              type:  numeric (float)

             range:  [10,37.9]                   units:  .1
     unique values:  42                  coded missing:  2624 / 2730

              mean:  13.7151
          std. dev:  6.05641

       percentiles:       10%      25%      50%      75%      90%
                         10.8       11     11.7     12.5     26.8


F49PTC2 ----------------------------------------- P.T. CONTROL (SECS) (DAY 6)
              type:  numeric (float)

             range:  [10,31.7]                   units:  .1
     unique values:  19                  coded missing:  2694 / 2730

              mean:  13.2222
          std. dev:  5.13059

       percentiles:       10%      25%      50%      75%      90%
                           10     11.1    11.75     12.6       14
```

F49PTTP1 -------------------------------------- P.T.T. PATIENT (SECS) (DAY 3)
             type: numeric (float)

            range: [12,123.3]   units: .1
    unique values: 79   coded missing: 2629 / 2730

             mean: 36.5683
         std. dev: 19.2193

      percentiles: 10%   25%   50%   75%   90%
                         22.5   28   33.1   39   46.7

F49PTTP2 -------------------------------------- P.T.T. PATIENT (SECS) (DAY 6)
             type: numeric (float)

            range: [14.2,105]   units: .1
    unique values: 38   coded missing: 2688 / 2730

             mean: 35.5857
         std. dev: 19.6325

      percentiles: 10%   25%   50%   75%   90%
                         18.5   24.8   31.4   39   46.5

F49PTTC1 -------------------------------------- P.T.T. CONTROL (SECS) (DAY 3)
             type: numeric (float)

            range: [11,45]   units: .1
    unique values: 58   coded missing: 2649 / 2730

             mean: 30.1765
         std. dev: 8.54465

      percentiles: 10%   25%   50%   75%   90%
                         20.2   25.6   31.6   35   39.2

F49PTTC2 -------------------------------------- P.T.T. CONTROL (SECS) (DAY 6)
             type: numeric (float)

            range: [11.5,45]   units: .1
    unique values: 22   coded missing: 2698 / 2730

             mean: 27.5281
         std. dev: 10.3726

      percentiles: 10%   25%   50%   75%   90%
                          12   24.65   26.9   34.05   45

```
F49FIB1 ----------------------------------------- FIBRINOGEN (MG|DL) (DAY 3)
                type:  numeric (float)

               range:  [120,900]                    units:  1
       unique values:  42              coded missing:  2684 / 2730

                mean:    404.37
            std. dev:    179.637

         percentiles:       10%      25%      50%      75%      90%
                            180      253      400      495      585


F49FIB2 ----------------------------------------- FIBRINOGEN (MG|DL) (DAY 6)
                type:  numeric (float)

               range:  [92,585]                     units:  1
       unique values:  19              coded missing:  2711 / 2730

                mean:    355.526
            std. dev:    130.417

         percentiles:       10%      25%      50%      75%      90%
                            180      239      350      460      545


F49FSP1 ------------------------------- FIBRIN SPLIT PRODUCTS (UG|ML) (DAY 3)
                type:  numeric (float)
               label:  F49FSP1

               range:  [1,3]                         units:  1
       unique values:  3               coded missing:  2712 / 2730

            examples:  .
                       .
                       .
                       .


F49FSP2 ------------------------------- FIBRIN SPLIT PRODUCTS (UG|ML) (DAY 6)
                type:  numeric (float)
               label:  F49FSP2

               range:  [1,3]                         units:  1
       unique values:  2               coded missing:  2725 / 2730

          tabulation:  Freq.   Numeric  Label
                          1        1   <=10
                          4        3   >=40

_dta:
  1.  Run on 08/16/99
```

A. <u>List of variables deleted</u>   **F58DATE F58LASTU**

B. <u>List of variables modified</u>   **NONE**

C. <u>List of variables modified with a name change</u>   **NONE**

D.   <u>Old name</u>

E.   <u>New name</u>

F. <u>List of variables modified date to days since DOE</u>

G.   <u>Old name</u>   **F58DATE**

H.   <u>New name</u>   **JF58DATE**

I. <u>Collection Information</u>:

    Form 48E (**Bacteremia**), a short version of Form 48 (Acute Febrile Illness), was used to collect minimal information about <u>sepsis</u> events. The form was filled out whenever a study patient entered the clinic, emergency room, or hospital at a study institution with <u>sepsis</u> which was not associated with osteomyelitis, septic arthritis, pneumonia, or meningitis.

    In order to facilitate calculation of sepsis/bacteremia event rates throughout the entire first phase of the study, information from this form as well as positive blood culture information reported on Forms 32 (Section 7.2.1), 36 (Section 7.1.3), 42 (Section 7.5.2), 48 (Section 7.7.1), 53 (Section 7.9), and 91 (Section 9.4.1) was combined in a single dataset (**R58.SD2**)—i.e., "Form 58" is designated as the "form" source for the data in this dataset.

J. <u>Data Collection Period</u>: 03/79 – 09/88

Source of Data	Time Period Used
Form 32: Acute Chest Syndrome	03/79 – 12/86
Form 36: Skeletal & Joint Events	03/79 – 12/86
Form 42: Meningitis	03/79 – 12/86
Form 48: Acute Febrile Illness	03/79 – 01/86
Form 48E: Bacteremia	02/86 – 12/86
Form 53: Comprehensive Special Event Form for Patients Entered at < 6 Months of Age	01/87 – 09/88
Form 91: Cause of Death Form	03/79 – 09/88

K. <u>Form Version Dates</u>:

Form 32: 03/01/79, 03/29/79, 05/02/79, 06/11/79, 09/25/80, 03/17/82
Form 36: 03/01/79, 05/02/79, 08/11/80
Form 42: 03/01/79, 05/07/79, 10/10/80
Form 48: 03/01/79, 03/29/79, 10/10/80
Form 48E: 12/15/85
Form 53: 11/20/86
Form 91: 03/01/79

L. Files Used Store Information:

   SAS System File: **R58.SD2**

   Format File: **Not Applicable**

M. Unique Record Identifiers: **ANONID**, **F58DATE**

   Records within the dataset are sorted by **ANONID** and **F58DATE**.

N. Number of Observations (Patients) in SAS Dataset: 328 (282)

O. Contents of SAS Dataset:

   - Alphabetical Listing of Variables: See p. 732

   - Listing of Variables by Position: See p. 733

P. Notes About Selected Variables:

   - **F58FORM1-3** – are the variables that identify the "record" numbers for the forms
     completed for the event. The following numbers are the only valid codes for
     these 3 variables:

Code	Form # Source	Form Name	SAS Dataset Source
32	32	Acute Chest Syndrome	**R32.SD2**
36	36	Skeletal & Joint Events	**R36.SD2**
42	42	Meningitis	**R42.SD2**
48	48	Acute Febrile Illness	**R48.SD2**
53	53	Comprehensive Special Event Form For Patients Entered At < 6 Months	**R53.SD2**
88	48E	Bacteremia	**R58.SD2**
91	91	Cause of Death Form	**R91.SD2**

   - **F58ORG** – is the variable name for organism cultured in blood. All blood culture
     specimens which were positive for *Staph epidermidis* (Pathogen List code # 120)
     were considered contaminated; as a result, **R58.SD2** does not contain summary
     information for events during which this organism was cultured in blood.

Q. Computed Variables: None

R. Inter-Relationship With Other Datasets:

   The easiest way to retrieve additional information about bacteremia events is to use
   F58DATE to link with the date variable in the dataset (use **F58FORM1**-**F58FORM3**
   to identify dataset(s)) that contain data for the event—e.g., if **F48DATE**=**F58DATE** if

Form 48 (**F58FORM1**=48) was the data collection source for the event). [See

Section 7.7.1J for additional notes.]

CODEBOOK FOR CSSCD "FORM" 58
BACTEREMIA SUMMARY
CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R58.SD2
DATA FROM CSSCD "FORM" 58 - BACTEREMIA SUMMARY
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET
The SAS System   10:35 Wednesday, January 31, 2007   1

The CONTENTS Procedure

Data Set Name	OUT1.R58	Observations	328
Member Type	DATA	Variables	6
Engine	V9	Indexes	0
Created	16:31 Monday, January 22, 2007	Observation Length	48
Last Modified	16:31 Monday, January 22, 2007	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	4096
Number of Data Set Pages	5
First Data Page	1
Max Obs per Page	84
Obs in First Data Page	47
Number of Data Set Repairs	0
File Name	r58.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 #
2	F58FORM1	Num	8	RECORD # FOR EVENT FORM COMPLETED
3	F58FORM2	Num	8	RECORD # FOR EVENT FORM COMPLETED
4	F58FORM3	Num	8	RECORD # FOR EVENT FORM COMPLETED
5	F58ORG	Num	8	ORGANISM CULTURED IN BLOOD
6	JF58DATE	Num	8	DATE OF SEPSIS - RECODE DAYS SINCE DOE

CODEBOOK FOR CSSCD "FORM" 58
BACTEREMIA SUMMARY
CSSCD FULL COHORT PATIENTS

```
F58FORM1 ----------------------------------- RECORD # FOR EVENT FORM COMPLETED
             type:  numeric (float)


            range:  [32,91]                      units:  1
    unique values:  8                    coded missing:  0 / 328

       tabulation:  Freq.  Value
                      34   32
                      15   36
                       8   42
                       7   43
                     205   48
                      31   53
                      10   88
                      18   91




F58FORM2 ----------------------------------- RECORD # FOR EVENT FORM COMPLETED
             type:  numeric (float)


            range:  [32,91]                      units:  1
    unique values:  5                    coded missing:  252 / 328

       tabulation:  Freq.  Value
                      34   32
                      16   36
                       8   42
                       2   48
                      16   91




F58FORM3 ----------------------------------- RECORD # FOR EVENT FORM COMPLETED
             type:  numeric (float)


            range:  [36,91]                      units:  1
    unique values:  4                    coded missing:  318 / 328

       tabulation:  Freq.  Value
                       1   36
                       2   42
                       1   62
                       6   91












F58ORG -------------------------------------------- ORGANISM CULTURED IN BLOOD
```

```
            type:  numeric (float)

           range:  [105,9000]                    units:  1
   unique values:  24                   coded missing:  0 / 328

      tabulation:  Freq.  Value
                      2   105
                     23   110
                     14   130
                      6   140
                      1   160
                    141   170
                      3   202
                      1   203
                      1   301
                     57   401
                     20   404
                      7   405
                      6   408
                      3   410
                      1   411
                      1   412
                      1   800
                     29   1200
                      1   1300
                      1   2100
                      1   2200
                      1   3100
                      1   6810
                      6   9000
```

F58ORG:
  1. See Appendix H - PATHOGEN LIST

_dta:
  1. Created 05/26/00.