Section A: CSSCD Phase 1
7.2.0: Acute Chest Syndrome (ACS) Overview

A. CSSCD Forms (collection) and Datasets (storage) Relating to Event

Form #	Name of Form	Collected	Patient Population	SAS Dataset
32	Acute Chest Syndrome	03/01/79-07/01/85	All	**R32.SD2**
		07/01/85-06/01/86	All patients < 6 years & non-HbSS ≥ 6 years	
		06/01/86-12/31/86	All non-HbSS patients entered at < 6 months of age until age 6.	
32E	Acute Chest Syndrome – Form II	07/01/85-12/31/86	HbSS patients ≥ 6 years	**R43.SD2**
53	Comprehensive Special Event Form for Patients Entered at < 6 Months of Age	01/01/87	Patients entered at < 6 months of age.	**R53.SD2**
--	"Acute Chest Syndrome Summary"	03/01/79-09/30/88	All – includes summary information about ACS events reported on Forms 32, 32E, 48 & 53	**R63.SD2**
33	Acute Chest Syndrome Flow Sheet	03/01/79-12/31/86	All long-form (Form 32) Acute Chest Syndrome events if patient hospitalized or seen daily	**R33.SD2**
52	Acute Event Treatment Follow-up	03/01/79-12/31/86	All long-form (Form 32) Acute Chest Syndrome events if patient not hospitalized or seen daily for event or patient hospitalized prior to use of 09/30/80 version of Form 33	**R52.SD2**

B. Definition of the Event:

Acute Chest Syndrome: (See Sections 7.2.1, 7.2.2, & 7.2.4)

1. a new pulmonary infiltrate which is demonstrable on a chest x-ray or by an isotope scan of the lungs, or

2. evidence of pleuritic chest pain, with or without dyspnea, in the absence of a pulmonary infiltrate on the chest x-ray. If pleuritic pain is limited to the chest and chest films are negative, then a perfusion lung scan is required.

Any episodes where the chest films, scan and other pertinent tests did not indicate a new lesion were to be followed as painful crisis [Form 30 – See Section 7.1.0].

			daily	
52	Acute Event Treatment Follow-up	03/01/79-12/31/86	All long-form (Form 32) Acute Chest Syndrome events if patient not hospitalized or seen daily for event or patient hospitalized prior to use of 09/30/80 version of Form 33	**R52.SD2**

B. Definition of the Event:

Acute Chest Syndrome: (See Sections 7.2.1, 7.2.2, & 7.2.4)

1. a new pulmonary infiltrate which is demonstrable on a chest x-ray or by an isotope scan of the lungs, or
2. evidence of pleuritic chest pain, with or without dyspnea, in the absence of a pulmonary infiltrate on the chest x-ray. If pleuritic pain is limited to the chest and chest films are negative, then a perfusion lung scan is required.

Any episodes where the chest films, scan and other pertinent tests did not indicate a new lesion were to be followed as painful crisis [Form 30 – See Section 7.1.0].

A. List of variables deleted **F32DATE F32INIT F32NDATE F32LASTU F32LASTE F32ESTAT F32VDATE F32DFC F32FCB F32WHEN F32BLDD F32WHZD F32CGHD F32FEVD F32CHLD F32PHLD F32SHRD F32PEB F32LABDT**

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 **F32DATE F32WHEN F32BLDD F32WHZD F32CGHD F32FEVD F32CHLD F32PHLD F32SHRD**

H. New name **JF32DATE JF32WHEN JF32BLDD JF32WHZD JF32CGHD JF32FEVD JF32CHLD JF32PHLD JF32SHRD**

I. Collection Information:

Form 32 (**Acute Chest Syndrome**) was completed each time a study patient presented at a study participant clinic, emergency room, or hospital with an on-going acute chest syndrome (per definition – See 7.2.0)

Any episode not adhering to the criteria for acute chest syndrome was to be treated as a painful crisis (See Section 7.1.0).

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

Form 32 was used between 03/01/79 and 07/01/85 for all patients. After 07/01/85, Form 32 continued to be used for all patients < 6 years of age and all non-HbSS patients ≥ 6 years of age until 06/01/86. From 06/01/86 to 12/31/86, the form was used for 1) all non-HbSS patients entered at < 6 months of age and 2) HbSS patients entered at < 6 months of age until age 6 only. A shortened version of the form (Form 32E) was used to collect acute chest syndrome information on HbSS patients ≥ 6 years of age after 07/01/85.

K. Form Version Dates: 03/01/79, 05/02/79, 09/25/80, 03/17/82

L. Files Used to Store Information:
SAS System File: **R32.SD2**
Format File: **R32.FMT**

E. Unique Record Identifiers: **ANONID**, **F32DATE**

F. Number of Observations (Patients) in SAS Dataset: 1,919 (1,021)

G. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 188-190
- Listing of Variables by Position: See pp. 191-193

H. Notes About Selected Variables:

- **F32TRANS**, **F32TRNS** – These two variables, due to version differences, collect similar information. However, neither is complete by itself, due to differences in dates of collection. Taken in concert, a positive answer for *either* of these two questions indicates that the patient was transfused within the six months preceding the event.
- **F32CBCWB** – is the CBC White Blood Cell Count variable assumed to be "uncorrected" in relation to nucleated red blood cells (nRBCs). There is a

question as to whether clinics uniformly adhered to this recording policy, and there is no way of knowing whether the values recorded on the form are in fact uncorrected.

- **F32NRB** – is the Nucleated Red Blood Cell variable. The field length here is 2-digits. If there were more than 100 nRBCs/100 WBC then a value of 99 is entered.
- **WBC Differential Variables** – When any of the following (**F32DFPMN**, **F32DFBND**, **F32DFEOS**, **F32DFBAS**, **F32DFLYM**, **F32DFMON**, **F32DFATC**, **F32DFMM**) are recorded, then the sum of the entire set should be 100. Some of these variables are entered as missing, when the value in fact should be "0". If the sum of differential variables with non-missing values is 100, then the missing values among that sum are assumed to be 0.
- **F32PERF** – for binary variables usually the highest numbers in the sequence is the "NO" value. For this variable "NO" was coded as "0" on forms entered before 04/26/82.

I. Computed Variables:

- **F32FLOWS** – is the number of follow-up hospitalization or "flow" sheets, in this case Form 33 sheets, associated with a given Form 32. It was derived by linking "Record 33" with "Record 32" by date (**F33DATE**=**F32DATE**) patient first sought care, and counting the number of forms that linked up.
- **F32DHOSP** – is the number of days that data were collected on hospitalized acute chest events. The number was derived by linking "Record 32" with all "Record 33s" at that date sought care (**F32DATE** with **F33DATE**) and counting all the mo/day variables that are not missing for a given hospital stay (i.e., will equate with # of days hospitalized when forms are filled in correctly).
- **F32FRM52** – is the type code associated with a Form 52 (Acute Event Treatment Follow-up) with the same date as the ACS event (**F52DATE**, **F32DATE**). **F32FRM52** was made equal to the value of **F52TYPE** of the Form 52 with the same date sought care. If the value of **F32FRM52**=33, treatment follow-up information will be in the "Record 33" with the same date rather than in a "Record 52".

J. Inter-Relationship with Other Datasets:

Acute Chest Syndrome data were also collected on

Phase 1 Forms	SAS Dataset
Form 32E	**R43.SD2**
Form 53	**R53.SD2**
---------	**R63.SD2**

[See Sections 7.2.2, 7.2.4, & 7.9]

It was decided that enough detailed acute chest syndrome data had been gathered on HbSS patients ≥ 6 years of age by 07/01/85. At that point, a "shortened" version of Form 32 was designed for this group of patients—Form 32E—Acute Chest Syndrome Form II. Form 32 continued to be used for all non-HbSS patients and all HbSS patients < 6 years of age.

Form 32E, which contains only the most rudimentary facts pertaining to a given acute chest event (date, associated events, hospitalized (?), transfused (?), infiltrate (?), number of lobes, final diagnosis, and ICDA codes), was used to record acute chest events for HbSS patients ≥ 6 years of age after July 1, 1985. Form 32E was used for acute chest events for this group of patients though 12/31/86. Thereafter, 01/01/87 – 09/30/88, additional acute chest events are documented of Form 53, The Comprehensive Special Event Form for Patients Entered at < 6 Months of Age. Form 32E data are stored in **R43.SD2**.

Form 53, The Comprehensive Special Event Form For Patients Entered at < 6 Months of Age, stored in **R53.SD2**, was used to continue collection of acute chest event information from 01/01/87 through the end of the Phase 1 study.

Analysis of acute chest syndrome rates must take into account ACS data stored in all 3 data sets: **R32.SD2**, **R43.SD2**, and **R53.SD2**. To facilitate obtaining counts of ACS events throughout Phase 1, the dataset **R63.SD2** (See Section 7.2.4) includes summary information for events from all 3 datasets.

2. Follow-up and treatment information were collected on

Phase 1 Forms	SAS Dataset
Form 33	**R33.SD2**
Form 52	**R52.SD2**

Both of the above mentioned records should be linked to the appropriate acute chest event "Record 32" by the date of the acute chest event (i.e., if **F33DATE**=**F32DATE**, or if **F52DATE**=**F32DATE**).

a. Form 33 is the Acute Chest Syndrome Flow Sheet. Form 33 data are stored in **R33.SD2**. The form was completed if the patient was either hospitalized or seen on a daily basis as an outpatient for an acute chest syndrome event. It contains daily and summary information from day 2 of hospitalization for the event, through discharge. Each "Record" 33 contains 6 days of hospital information, so consequently, multiple "Record" 33s could exist for a given acute chest syndrome event, dependent on length of stay.

"Record" 33s are sorted by **ANONID**, **F33DATE**, and **F33SHEET** (flow sheet number). Therefore, information for hospital days 2-7 should be on **F33SHEET**=1; days 8-13 on **F33SHEET**=2, etc.

Form 33 was used in conjunction with Form 32 to describe hospitalized acute chest events. Form 33 version 09/30/80 contains the medication and resolution of symptoms information normally found on From 52 (see below), but versions before this date do not. So for all acute chest events which occurred before the implementation of Form 33 version 09/30/80, From 32 must be linked to Form 52 for medication and resolution of symptom information (i.e., if **F52DATE**=**F32DATE**) and also must link to Form 33 for daily laboratory values (i.e., if **F33DATE**=**F32DATE**).

Form 33 was not completed in conjunction with the shortened acute chest syndrome form (Form 32E).

b. Form 52 is the Acute Event Treatment Follow-up form stored in **R52.SD2** that was used to collect summary <u>non-hospitalization</u> information for acute chest events reported on Form 32 and summary resolution and final diagnosis information for <u>all</u> acute chest events occurring before use of the 09/30/80 version of Form 33. It does not record daily or laboratory data, since these are hospitalization values. However, the information it does collect on treatment, resolution of symptoms, and diagnosis is corollary to that collected on the 09/30/80 version of Form 33 for hospitalized events.

This form was used from the inception of the project to record

follow-up information for all types of acute events. In order to link a specific "Record 32" with a "Record 52", the date patient first sought care is used (i.e., **F52DATE**=**F32DATE**). When **F32FRM52**=31 or **F32FRM52**=33 then treatment information is stored in **R31.SD2** or **R33.SD2** respectively, rather than **R52.SD2**. "Record 32" should be linked by date to "Record 31" or "Record 33" for treatment, resolution of symptoms, and diagnostic data (e.g., if **F32FRM52**=31 then **F31DATE**=**F32DATE** or if **F32FRM52**=33 then **F33DATE**=**F32DATE**).

CONTENTS OF SAS DATASET: R32.SD2
DATA FROM CSSCD FORM 32 - ACUTE CHEST SYNDROME
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 32

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Data Set Name	OUT1.R32	Observations	1919
Member Type	DATA	Variables	81
Engine	V9	Indexes	0
Created	15:37 Wednesday, November 29, 2006	Observation Length	648
Last Modified	15:37 Wednesday, November 29, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	16384
Number of Data Set Pages	78
First Data Page	1
Max Obs per Page	25
Obs in First Data Page	8
Number of Data Set Repairs	0
File Name	r32.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 #
69	F32ANGIO	Num	8	ANGIOGRAM DONE
66	F32BGPCO	Num	8	BLOOD GASES PCO2
67	F32BGPH	Num	8	BLOOD GASES PH
65	F32BGPO2	Num	8	BLOOD GASES PO2
68	F32BGTMP	Num	8	TEMPERATURE WHEN BLOOD DRAWN
49	F32BLCL1	Num	8	BLOOD MICROBIOLOGY CULTURE
50	F32BLCL2	Num	8	BLOOD MICROBIOLOGY CULTURE
7	F32BLD	Num	8	SPITTING UP BLOOD
48	F32BLRBN	Num	8	TOTAL BILIRUBIN
30	F32CBCHB	Num	8	CBC HB
31	F32CBCHC	Num	8	CBC HCT
35	F32CBCMH	Num	8	CBC MCH
34	F32CBCMV	Num	8	CBC MCV
32	F32CBCRB	Num	8	CBC RBC
33	F32CBCWB	Num	8	CBC WBC
9	F32CGH	Num	8	COUGH
11	F32CHL	Num	8	CHILLS

6	F32COUGH	Num	8	COUGH WHEN TAKING BREATH
18	F32DAY1	Num	8	DAYS ON MEDICATION
19	F32DAY2	Num	8	DAYS ON MEDICATION
20	F32DAY3	Num	8	DAYS ON MEDICATION
42	F32DFATC	Num	8	DIFFERENTIAL ATYPICAL CELLS
39	F32DFBAS	Num	8	DIFFERENTIAL BASOPHILS
37	F32DFBND	Num	8	DIFFERENTIAL BANDS
38	F32DFEOS	Num	8	DIFFERENTIAL EOSINOPHILS
40	F32DFLYM	Num	8	DIFFERENTIAL LYMPHOCYTES

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Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
43	F32DFMM	Num	8	DIFFERENTIAL METAMYELOCYTES|MYELOCYTES
41	F32DFMON	Num	8	DIFFERENTIAL MONOCYTES
36	F32DFPMN	Num	8	DIFFERENTIAL PMN
72	F32DHOSP	Num	8	NUMBER OF DAYS HOSPITALIZED
2	F32EVENT	Num	8	ASSOCIATED EVENTS
10	F32FEV	Num	8	FEVER
70	F32FLOWS	Num	8	NUMBER OF FLOWSHEETS
71	F32FRM52	Num	8	IS THERE A 52 ON THE DATABASE
54	F32GRAM1	Num	8	GRAM STAIN ORGANISM
55	F32GRAM2	Num	8	GRAM STAIN ORGANISM
56	F32GRAM3	Num	8	GRAM STAIN ORGANISM
57	F32GRAM4	Num	8	GRAM STAIN ORGANISM
3	F32HOSP	Num	8	HOSPITALIZED
45	F32LNGIN	Num	8	LUNG INFILTRATE
27	F32LOWXL	Num	8	LOWER EXTREMETIES LEFT
28	F32LOWXR	Num	8	LOWER EXTREMITIES RIGHT
26	F32LUNG	Num	8	TYPE OF LUNG PROBLEM
14	F32MED	Num	8	PRIOR MEDICATION FOR EPISODE?
15	F32MED1	Num	8	PRIOR MEDICATIONS
16	F32MED2	Num	8	PRIOR MEDICATIONS
17	F32MED3	Num	8	PRIOR MEDICATIONS
44	F32NRB	Num	8	NUCLEATED RED BLOOD CELLS
53	F32OCL	Num	8	OTHER CULTURE
29	F32OPHYS	Num	8	OTHER PHYSICAL FINDINGS
5	F32PAIN	Num	8	IS THERE PAIN OR DISCOMFORT
47	F32PERF	Num	8	LOCATION OF PERFUSION DEFECT
12	F32PHL	Num	8	COUGHED UP PHLEGM
46	F32PLEFF	Num	8	PLEURAL EFFUSION
58	F32PMN	Num	8	PMN
24	F32PULSE	Num	8	PULSE BEATS PER MINUTE
25	F32RESP	Num	8	RESPIRATION BREATHS PER MINUTE
13	F32SHR	Num	8	SHORTNESS OF BREATH
51	F32SPCL1	Num	8	SPUTUM MICROBIOLOGY CULTURE
52	F32SPCL2	Num	8	SPUTUM MICROBIOLOGY CULTURE
63	F32THCL1	Num	8	THORACENTESIS CULTURE
64	F32THCL2	Num	8	THORACENTESIS CULTURE
62	F32THGLU	Num	8	THORACENTESIS GLUCOSE
61	F32THPRO	Num	8	THORACENTESIS PROTEIN
60	F32THRBC	Num	8	THORACENTESIS RBC
59	F32THWBC	Num	8	THORACENTESIS WBC
22	F32TMP	Num	8	TEMPERATURE
23	F32TMPH	Num	8	HOW TEMPERATURE TAKEN
4	F32TRANS	Num	8	TRANSFUSED IN LAST SIX MONTHS
21	F32TRNS	Num	8	TRANSFUSED AS PRIOR TREATMENT
8	F32WHZ	Num	8	WHEEZING
75	JF32BLDD	Num	8	DATE SPITTING UP BLOOD - RECODE DAYS SINCE DOE

77	JF32CGHD	Num	8	DATE COUGH - RECODE DAYS SINCE DOE
79	JF32CHLD	Num	8	DATE CHILLS - RECODE DAYS SINCE DOE
73	JF32DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE
78	JF32FEVD	Num	8	DATE FEVER - RECODE DAYS SINCE DOE
80	JF32PHLD	Num	8	DATE COUGHED UP PHLEGM - RECODE DAYS SINCE DOE
81	JF32SHRD	Num	8	DATE SHORTNESS OF BREATH - RECODE DAYS SINCE DOE
74	JF32WHEN	Num	8	WHEN PAIN BEGAN - RECODE DAYS SINCE DOE
76	JF32WHZD	Num	8	DATE WHEEZING - RECODE DAYS SINCE DOE

****
* R32.FMT contains value labels for numerical codes assigned to categorical*

```
* variables in the SAS dataset R32.SD2                                      *
*****************************************************************************;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    11/04/98 10:49:40;


PROC FORMAT;


*  FORMAT NO_YES used for the following variables: F32HOSP F32TRANS F32COUGH
                                                   F32MED F32TRNS;

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



  VALUE F32PAIN
    4               = 'NO PAIN'
    1               = 'YES MILD'
    2               = 'YES MODERATE'
    3               = 'YES SEVERE';


*  FORMAT SYMPT used for the following variables: F32BLD F32WHZ F32CGH F32FEV
                                                  F32CHL F32PHL F32SHR;

  VALUE SYMPT
    1               = 'NO'
    2               = 'DK'

    3               = 'YES';



  VALUE F32TMPH
    1               = 'ORAL'
    2               = 'RECTAL';


  VALUE F32LUNG
    0               = 'NO FINDINGS(0)'
    1               = 'RALES(1)'
    2               = 'RHONCHI(2)'
    4               = 'PERCUSSION DULLNES(4)'
    8               = 'WHEEZING(8)'
    16              = 'NO FINDINGS(16)';


*  FORMAT LEXTR used for the following variables: F32LOWXL F32LOWXR;

  VALUE LEXTR
    0               = 'NO SYMPTOMS(0)'
```

```
    1               = 'WARMTH(1)'
    2               = 'TENDERNESS(2)'
    4               = 'HOMAN''S SIGN(4)'
    8               = 'PALPABLE CORD(8)'
    16              = 'NO SYMPTOMS(16)';


  VALUE F32OPHYS
    1               = 'NO'
    2               = 'YES'
    3               = 'YES SPECIFIED';


  VALUE F32LNGIN
    0               = 'NO(0)'
    1               = 'LEFT UPPER(1)'
    2               = 'LEFT LINGULA(2)'
    4               = 'LEFT LOWER(4)'
    8               = 'RIGHT UPPER(8)'
    16              = 'RIGHT MIDDLE(16)'
    32              = 'RIGHT LOWER(32)'
    64              = 'NO(64)';


  VALUE F32PERF
    0               = 'NO(0)'
    1               = 'LEFT UPPER(1)'
    2               = 'LEFT LINGULA(2)'
    4               = 'LEFT LOWER(4)'
    8               = 'RIGHT UPPER(8)'
    16              = 'RIGHT MIDDLE(16)'
    32              = 'RIGHT LOWER(32)'
    64              = 'NOT DONE(64)';


  VALUE F32PLEFF
    1               = 'ABSENT'
    2               = 'PRESENT UNSP.'
    3               = '<= .5 CM'
    4               = '>.5 CM AND <=4 CM'
    5               = '>4 CM';


*  FORMAT F32SPCLF used for the following variables: F32SPCL1 F32SPCL2;

  VALUE F32SPCLF
    -1              = 'NEGATIVE';


*  FORMAT F32GRAMF used for the following variables: F32GRAM1 F32GRAM2
```

```
                                                    F32GRAM3 F32GRAM4;

  VALUE F32GRAMF
    10              = 'GRAM POSITIVE DIPLOCOCCI'
    100             = 'GRAM POSITIVE COCCI'
    400             = 'GRAM NEGATIVE RODS'
    9999            = 'OTHER';



  VALUE F32PMN
    1               = 'ABSENT'
    2               = 'PRESENT UNSP.'
    3               = 'MANY'
    4               = 'MODERATE'
    5               = 'SCANTY';


  VALUE F32ANGIO
    1               = 'DONE'
    2               = 'NOT DONE';

*   FORMAT
                F32HOSP F32TRANS F32COUGH F32MED F32TRNS NO_YES.
                F32PAIN F32PAIN.
                F32BLD F32WHZ F32CGH F32FEV F32CHL F32PHL F32SHR SYMPT.
                F32TMPH F32TMPH.
                F32LUNG F32LUNG.
                F32LOWXL F32LOWXR LEXTR.
                F32OPHYS F32OPHYS.
                F32LNGIN F32LNGIN.
                F32PLEFF F32PLEFF.
                F32PERF F32PERF.
                F32SPCL1-F32SPCL2 F32SPCLF.
                F32GRAM1-F32GRAM4 F32GRAMF.
                F32PMN F32PMN.
                F32ANGIO F32ANGIO.;

RUN;
QUIT;
```

F32VDATE ---------- VERSION DATE **DELETED**

type:	numeric (int)		
label:	datelab		
range:	[6999,8111]	units:	1
unique values:	4	coded missing:	0 / 1919

tabulation:

Freq.	Numeric	Label
244	6999	03/01/79
7	7061	05/02/79
943	7573	09/25/80
725	8111	03/17/82

F32EVNT1 ---------- ASSOCIATED EVENT CODE 1

type:	numeric (float)		
range:	[30,90]	units:	1
unique values:	16	coded missing:	1755 / 1919

tabulation:

Freq.	Value	Freq.	Value
2	30	7	46
1	31	51	48
2	32	1	49
23	33	23	54
2	36	1	62
5	38	1	83
1	40	39	84
2	42	3	90

F32EVNT1:
1. Computed variable: F32EVNT1 = int(F32EVENT/1000000), NOT saved in the .SD2 file.
2. See Appendix L for event form codes.

F32EVNT2 ---------- ASSOCIATED EVENT CODE 2

type:	numeric (float)		
range:	[0,90]	units:	1
unique values:	14	coded missing:	1755 / 1919

tabulation:

Freq.	Value	Freq.	Value
101	0	10	49
1	31	10	52
3	33	2	54
1	42	1	62
1	45	1	83
3	46	21	84
8	48	1	90

F32EVNT2:
1. Computed variable: F32EVNT2 = int((F32EVENT - F32EVNT1*1000000)/10000), NOT saved in the .SD2 file.
2. See Appendix L for event form codes.

```
F32EVNT3 ------------------------------------------- ASSOCIATED EVENT CODE 3
                  type:  numeric (float)
                 range:  [0,84]                       units:  1
         unique values:  10                   coded missing:  1755 / 1919

            tabulation:  Freq.  Value
                          143  0
                            1  32
                            2  33
                            2  46
                            3  48
                            1  49
                            3  52
                            3  54
                            1  62
                            5  84
```

F32EVNT3:
1. Computed variable: F32EVNT3 = int((F32EVENT - F32EVNT1*1000000 - F32EVNT2*10000)/100), NOT saved in the .SD2 file.
2. See Appendix L for event form codes.

```
F32EVNT4 ------------------------------------------- ASSOCIATED EVENT CODE 4
                  type:  numeric (float)
                 range:  [0,96]                       units:  1
         unique values:  10                   coded missing:  1755 / 1919

            tabulation:  Freq.  Value
                          154  0
                            1  32
                            1  48
                            1  52
                            1  56
                            1  60
                            2  84
                            1  88
                            1  92
                            1  96
```

F32EVNT4:
1. Computed variable: F32EVNT4 = (F32EVENT - F32EVNT1*1000000 - F32EVNT2*10000 - F32EVNT3*100), NOT saved in the .SD2 file.
2. See Appendix L for event form codes.

```
F32HOSP ------------------------------------------------------- HOSPITALIZED
                  type:  numeric (float)
                 label:  F32HOSP
                 range:  [1,2]                        units:  1
         unique values:  2                    coded missing:  6 / 1919

            tabulation:  Freq.   Numeric  Label
                           91         1  NO
                         1822         2  YES
```

F32TRANS ---------- TRANSFUSED IN LAST SIX MONTHS

type:	numeric (float)		
label:	F32TRANS		
range:	[1,2]	units:	1
unique values:	2	coded missing:	595 / 1919

tabulation:	Freq.	Numeric	Label
	1094	1	NO
	230	2	YES

F32TRANS:
1. Not applicable for version 03/01/79 and not entered before 04/26/82. See variable F32TRNS.

F32PAIN ---------- IS THERE PAIN OR DISCOMFORT

type:	numeric (float)		
label:	F32PAIN		
range:	[1,4]	units:	1
unique values:	4	coded missing:	149 / 1919

tabulation:	Freq.	Numeric	Label
	127	1	YES MILD
	499	2	YES MODERATE
	367	3	YES SEVERE
	777	4	NO PAIN

F32COUGH ---------- COUGH WHEN TAKING BREATH

type:	numeric (float)		
label:	F32COUGH		
range:	[1,2]	units:	1
unique values:	2	coded missing:	161 / 1919

tabulation:	Freq.	Numeric	Label
	851	1	NO
	907	2	YES

F32BLD ---------- SPITTING UP BLOOD

type:	numeric (float)		
label:	F32BLD		
range:	[1,3]	units:	1
unique values:	3	coded missing:	14 / 1919

tabulation:	Freq.	Numeric	Label
	1849	1	NO
	6	2	DK
	50	3	YES

F32WHZ ---------- WHEEZING

type:	numeric (float)		
label:	F32WHZ		
range:	[1,3]	units:	1
unique values:	3	coded missing:	17 / 1919

tabulation:	Freq.	Numeric	Label
	1652	1	NO
	12	2	DK
	238	3	YES

F32CGH ---------- COUGH

type:	numeric (float)		
label:	F32CGH		
range:	[1,3]	units:	1
unique values:	3	coded missing:	14 / 1919

tabulation:	Freq.	Numeric	Label
	544	1	NO
	7	2	DK
	1354	3	YES

F32FEV ---------- FEVER

type:	numeric (float)		
label:	F32FEV		
range:	[1,3]	units:	1
unique values:	3	coded missing:	5 / 1919

tabulation:	Freq.	Numeric	Label
	393	1	NO
	27	2	DK
	1494	3	YES

F32CHL ---------- CHILLS

type:	numeric (float)		
label:	F32CHL		
range:	[1,3]	units:	1
unique values:	3	coded missing:	29 / 1919

tabulation:	Freq.	Numeric	Label
	1544	1	NO
	45	2	DK
	301	3	YES

F32PHL ---------- COUGHED UP PHLEGM

type:	numeric (float)		
label:	F32PHL		
range:	[1,3]	units:	1
unique values:	3	coded missing:	16 / 1919

tabulation:	Freq.	Numeric	Label
	1453	1	NO
	22	2	DK
	428	3	YES

F32SHR ---------- SHORTNESS OF BREATH

type:	numeric (float)		
label:	F32SHR		
range:	[1,3]	units:	1
unique values:	3	coded missing:	314 / 1919

tabulation:	Freq.	Numeric	Label
	1126	1	NO
	22	2	DK
	457	3	YES

F32SHR:
1. Not applicable for version 03/01/79.

F32MED ---------- PRIOR MEDICATION FOR EPISODE?

type:	numeric (float)		
label:	F32MED		
range:	[1,2]	units:	1
unique values:	2	coded missing:	29 / 1919

tabulation:	Freq.	Numeric	Label
	690	1	NO
	1200	2	YES

F32MED1 ---------- PRIOR MEDICATIONS

type:	numeric (float)		
range:	[3,999]	units:	1
unique values:	24	coded missing:	1715 / 1919

tabulation:

Freq.	Value	Freq.	Value
5	3	1	323
2	25	1	337
5	28	4	371
1	71	3	375
1	93	1	382
3	126	1	420
1	148	1	434
2	152	1	443
1	170	12	480
135	171	2	481
2	196	1	554
1	249	17	999

F32MED1:
1. See Appendix D for medication codes.

F32DAY1 ---------- DAYS ON MEDICATION

type: numeric (float)

range: [0,9] units: 1
unique values: 10 coded missing: 1747 / 1919

tabulation:

Freq.	Value
1	0
42	1
33	2
26	3
16	4
15	5
8	6
8	7
5	8
18	9

F32MED2 ---------- PRIOR MEDICATIONS

type: numeric (float)

range: [3,999] units: 1
unique values: 45 coded missing: 1486 / 1919

tabulation:

Freq.	Value	Freq.	Value
1	3	1	306
1	11	1	311
1	12	1	319
1	24	1	320
33	25	1	338
177	28	2	344
2	56	1	361
3	67	4	367
8	94	31	369
1	102	7	370
1	121	47	371
1	122	1	387
1	123	1	397
1	126	1	420
1	171	1	471
23	231	7	480
1	249	1	487
4	259	4	541
1	271	9	554
1	298	8	562
4	299	1	575
1	300	2	998
		32	999

F32MED2:
1. See Appendix D for medication codes.
2. Patients may have indicated only one or all three depending on the type(s) of medication.

F32DAY2 ---------- DAYS ON MEDICATION

type:	numeric (float)		
range:	[0,9]	units:	1
unique values:	10	coded missing:	1548 / 1919

tabulation:

Freq.	Value
2	0
49	1
55	2
63	3
46	4
37	5
21	6
12	7
12	8
74	9

F32MED3 ---------- PRIOR MEDICATIONS

type:	numeric (float)		
range:	[0,999]	units:	1
unique values:	99	coded missing:	973 / 1919

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
2	0	1	115	1	292	1	423
20	3	26	126	1	296	6	434
1	4	1	137	2	298	4	443
15	6	1	144	2	306	1	444
21	7	1	152	1	316	4	449
1	9	1	156	2	328	1	459
5	11	1	157	1	335	3	463
2	18	3	160	15	337	4	471
1	19	1	161	4	338	391	480
3	20	1	163	3	341	124	481
5	21	1	171	2	344	1	484
16	25	3	190	3	361	1	491
6	28	1	191	2	367	1	515
1	29	7	192	1	369	2	516
19	44	6	196	3	370	2	519
2	48	1	211	5	371	1	522
1	49	2	218	2	374	1	536
2	56	2	230	18	375	1	539
1	59	16	231	6	382	1	541
1	76	1	235	1	391	1	542
1	79	16	249	1	397	1	548
3	94	1	271	3	413	6	554
1	95	1	279	1	416	2	562
6	102	2	282	9	420	1	563
						1	564
						1	931
						61	999

F32MED3:

1. See Appendix D for medication codes.
2. Patients may have indicated only one or all three depending on the type(s) of medication.

F32DAY3 ---------- DAYS ON MEDICATION

type:	numeric (float)		
range:	[1,9]	units:	1
unique values:	9	coded missing:	1030 / 1919

tabulation:

Freq.	Value
310	1
214	2
106	3
65	4
40	5
18	6
32	7
20	8
84	9

F32TRNS ---------- TRANSFUSED AS PRIOR TREATMENT

type:	numeric (float)		
label:	F32TRNS		
range:	[1,2]	units:	1
unique values:	2	coded missing:	503 / 1919

tabulation:	Freq.	Numeric	Label
	1181	1	NO
	235	2	YES

F32TRNS:
1. Not applicable for version 03/17/82. See variable F32TRANS.

F32TMP ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.5,44.9]	units:	.1
unique values:	57	coded missing:	16 / 1919
mean:	38.4596		
std. dev:	1.03267		

percentiles:	10%	25%	50%	75%	90%
	37.1	37.7	38.5	39.2	39.8

F32TMPH ---------- HOW TEMPERATURE TAKEN

type:	numeric (float)		
label:	F32TMPH		
range:	[1,2]	units:	1
unique values:	2	coded missing:	414 / 1919

tabulation:	Freq.	Numeric	Label
	1142	1	ORAL
	363	2	RECTAL

F32TMPH:
1. Response required only if value was given for F32TMP.
2. Not applicable for version 03/01/79 and not entered before 07/21/81.

F32PULSE ---------- PULSE BEATS PER MINUTE

type:	numeric (float)		
range:	[48,272]	units:	1
unique values:	69	coded missing:	37 / 1919
mean:	118.174		
std. dev:	24.7489		

percentiles:	10%	25%	50%	75%	90%
	88	100	120	136	150

F32RESP ---------- RESPIRATION BREATHS PER MINUTE

type:	numeric (float)		
range:	[10,99]	units:	1
unique values:	49	coded missing:	59 / 1919

mean:	31.9919
std. dev:	12.2945

percentiles:	10%	25%	50%	75%	90%
	20	24	28	40	48

F32LUNG ---------- TYPE OF LUNG PROBLEM

type:	numeric (float)		
label:	F32LUNG		
range:	[0,16]	units:	1
unique values:	17	coded missing:	8 / 1919

tabulation:	Freq.	Numeric	Label
	6	0	NO FINDINGS(0)
	366	1	RALES(1)
	80	2	RHONCHI(2)
	76	3	
	155	4	PERCUSSION DULLNES(4)
	237	5	
	32	6	
	44	7	
	45	8	WHEEZING(8)
	50	9	
	19	10	
	26	11	
	11	12	
	32	13	
	6	14	
	27	15	
	699	16	NO FINDINGS(16)

F32LUNG:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F32LOWXL ---------- LOWER EXTREMETIES LEFT

type: numeric (float)
label: F32LOWXL
range: [0,16] units: 1
unique values: 12 coded missing: 47 / 1919
tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
374	0	NO SYMPTOMS(0)	3	9	
190	1	WARMTH(1)	4	10	
27	2	TENDERNESS(2)	1	12	
29	3		3	13	
0	4	HOMAN'S SIGN(4)	3	14	
1	7		47	15	
0	8	PALPABLE CORD(8)	1190	16	NO SYMPTOMS(16)

F32LOWXL:
1. Not applicable for version 03/01/79.
2. Binary coded variable. See Part II for explanation of binary coded variables.

F32LOWXR ---------- LOWER EXTREMITIES RIGHT

type: numeric (float)
label: F32LOWXR
range: [0,16] units: 1
unique values: 12 coded missing: 47 / 1919

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
386	0	NO SYMPTOMS(0)	3	9	
188	1	WARMTH(1)	4	10	
21	2	TENDERNESS(2)	1	12	
25	3		3	13	
0	4	HOMAN'S SIGN(4)	4	14	
1	6		45	15	
0	8	PALPABLE CORD(8)	1191	16	NO SYMPTOMS(16)

F32LOWXR:
1. Not applicable for version 03/01/79.
2. Binary coded variable. See Part II for explanation of binary coded variables.

F32OPHYS ---------- OTHER PHYSICAL FINDINGS

type: numeric (float)
label: F32OPHYS
range: [1,3] units: 1
unique values: 3 coded missing: 1553 / 1919

tabulation:

Freq.	Numeric	Label
206	1	NO
159	2	YES
1	3	YES SPECIFIED

F32CBCHB ---------- CBC HB

type:	numeric (float)		
range:	[2.3,15.9]	units:	.1
unique values:	108	coded missing:	52 / 1919
mean:	8.19946		
std. dev:	1.71595		

percentiles:	10%	25%	50%	75%	90%
	6.2	7	8	9.2	10.4

F32CBCHC ---------- CBC HCT

type:	numeric (float)		
range:	[6.3,43.1]	units:	.1
unique values:	269	coded missing:	24 / 1919
mean:	24.3407		
std. dev:	5.35862		

percentiles:	10%	25%	50%	75%	90%
	18.3	20.7	23.8	27.5	31.6

F32CBCRB ---------- CBC RBC

type:	numeric (float)		
range:	[.5,6.9]	units:	.01
unique values:	344	coded missing:	168 / 1919
mean:	2.84641		
std. dev:	.794458		

percentiles:	10%	25%	50%	75%	90%
	1.96	2.26	2.71	3.32	3.91

F32CBCWB ---------- CBC WBC

type:	numeric (float)		
range:	[2.4,89]	units:	.1
unique values:	371	coded missing:	48 / 1919
mean:	20.3844		
std. dev:	8.82358		

percentiles:	10%	25%	50%	75%	90%
	11.1	14.5	19	24.6	31.1

F32CBCWB:
1. Assumed to be 'uncorrected' in relation to nucleated RBCs.

F32CBCMV ---------- CBC MCV

type:	numeric (float)		
range:	[54,117]	units:	1
unique values:	59	coded missing:	168 / 1919
mean:	87.0714		
std. dev:	9.8969		

percentiles:	10%	25%	50%	75%	90%
	74	81	88	94	99

F32CBCMH ---------- CBC MCH

type:	numeric (float)		
range:	[20.1,35]	units:	.1
unique values:	146	coded missing:	379 / 1919
mean:	29.2225		
std. dev:	3.45009		

percentiles:	10%	25%	50%	75%	90%
	24.05	26.75	29.7	31.9	33.6

F32DFPMN ---------- DIFFERENTIAL PMN

type:	numeric (float)		
range:	[4,94]	units:	1
unique values:	84	coded missing:	123 / 1919
mean:	62.0212		
std. dev:	15.7782		

percentiles:	10%	25%	50%	75%	90%
	41	53	64	73	80

F32DFBND ---------- DIFFERENTIAL BANDS

type:	numeric (float)		
range:	[0,73]	units:	1
unique values:	40	coded missing:	418 / 1919
mean:	4.95203		
std. dev:	6.73867		

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

F32DFEOS ---------- DIFFERENTIAL EOSINOPHILS

type:	numeric (float)		
range:	[0,28]	units:	1
unique values:	20	coded missing:	172 / 1919
mean:	1.41786		
std. dev:	2.45847		

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

F32DFBAS ---------- DIFFERENTIAL BASOPHILS

type:	numeric (float)		
range:	[0,34]	units:	1
unique values:	16	coded missing:	216 / 1919
mean:	.397534		
std. dev:	1.62997		

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

F32DFLYM ---------- DIFFERENTIAL LYMPHOCYTES

type:	numeric (float)		
range:	[0,95]	units:	1
unique values:	80	coded missing:	126 / 1919
mean:	24.6247		
std. dev:	14.7165		

percentiles:	10%	25%	50%	75%	90%
	8	14	22	33	44

F32DFMON ---------- DIFFERENTIAL MONOCYTES

type:	numeric (float)		
range:	[0,32]	units:	1
unique values:	29	coded missing:	146 / 1919
mean:	6.93683		
std. dev:	4.53547		

percentiles:	10%	25%	50%	75%	90%
	2	4	6	10	13

F32DFATC ---------- DIFFERENTIAL ATYPICAL CELLS

type:	numeric (float)				
range:	[0,21]		units:	1	
unique values:	16		coded missing:	232 / 1919	
mean:	.440427				
std. dev:	1.42877				
percentiles:	10%	25%	50%	75%	90%
	0	0	0	0	1

F32DFMM ---------- DIFFERENTIAL METAMYELOCYTES|MYELOCYTES

type:	numeric (float)				
range:	[0,10]		units:	1	
unique values:	9		coded missing:	253 / 1919	
mean:	.20048				
std. dev:	.716615				
percentiles:	10%	25%	50%	75%	90%
	0	0	0	0	1

F32NRB ---------- NUCLEATED RED BLOOD CELLS

type:	numeric (float)				
range:	[0,99]		units:	1	
unique values:	73		coded missing:	190 / 1919	
mean:	5.53094				
std. dev:	13.8455				
percentiles:	10%	25%	50%	75%	90%
	0	0	1	4	14

F32NRB:
1. If value more than 100nRBCs/100WBCs, then value of 99 entered.

F32LNGIN ---------- LUNG INFILTRATE

type: numeric (float)
label: F32LNGIN
range: [0,64] units: 1
unique values: 49 coded missing: 12 / 1919

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
6	0	NO(0)	366	32	RIGHT LOWER(32)
63	1	LEFT UPPER(1)	2	33	
29	2	LEFT LINGULA(2)	6	34	
6	3		1	35	
464	4	LEFT LOWER(4)	228	36	
13	5		1	37	
16	6		8	38	
5	7		2	39	
118	8	RIGHT UPPER(8)	14	40	
12	9		8	44	
2	10		1	45	
16	12		1	46	
1	13		65	48	
174	16	RIGHT MIDDLE(16)	2	49	
5	17		2	50	
8	18		17	52	
28	20		1	53	
2	21		6	54	
2	22		1	55	
24	24		7	56	
2	25		4	60	
1	27		2	61	
9	28		1	62	
1	31		7	63	
			147	64	NO(64)

F32LNGIN:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F32PLEFF ---------- PLEURAL EFFUSION

type: numeric (float)
label: F32PLEFF
range: [1,5] units: 1
unique values: 5 coded missing: 244 / 1919

tabulation:

Freq.	Numeric	Label
1411	1	ABSENT
76	2	PRESENT UNSP.
120	3	<= .5 CM
58	4	>.5 CM AND <=4 CM
10	5	>4 CM

F32PLEFF:
1. Not applicable for version 03/01/79 and not entered before 04/26/82.

F32PERF ---------- LOCATION OF PERFUSION DEFECT

type: numeric (float)
label: F32PERF
range: [0,64] units: 1
unique values: 12 coded missing: 539 / 1919
tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
282	0	NO(0)	1	10	
0	1	LEFT UPPER(1)	2	16	RIGHT MIDDLE(16)
0	2	LEFT LINGULA(2)	4	32	RIGHT LOWER(32)
8	4	LEFT LOWER(4)	7	36	
1	7		3	48	
1	8	RIGHT UPPER(8)	1	63	
1	9		1069	64	NOT DONE(64)

F32PERF:
1. Binary coded variable. See Part II for explanation of binary coded variables.
2. 'NO' was coded as '0' on forms entered before 04/26/82.
3. Location of perfusion defect is based on lung scans which were optional tests, unless they were used for entry to the study.

F32BLRBN ---------- TOTAL BILIRUBIN

type: numeric (float)
range: [.1,54] units: .1
unique values: 129 coded missing: 1122 / 1919
mean: 3.98407
std. dev: 4.10734

percentiles:	10%	25%	50%	75%	90%
	1	1.7	2.9	4.9	7.8

F32BLCL1 ---------- BLOOD MICROBIOLOGY CULTURE

type: numeric (float)
range: [-1,9000] units: 1
unique values: 19 coded missing: 1832 / 1919
tabulation:

Freq.	Value	Freq.	Value
18	-1	1	404
4	110	1	405
8	120	1	410
3	130	1	411
1	160	1	412
31	170	7	1200
1	202	1	1300
1	203	1	2100
4	401	1	5130
		1	9000

F32BLCL1:
1. See Appendix H for pathogen codes.

F32BLCL2 ---------- BLOOD MICROBIOLOGY CULTURE

type:	numeric (float)		
range:	[301,1200]	units:	1
unique values:	2	coded missing:	1916 / 1919

tabulation:

Freq.	Value
1	301
2	1200

F32BLCL2:
1. See Appendix H for pathogen codes.

F32SPCL1 ---------- SPUTUM MICROBIOLOGY CULTURE

type:	numeric (float)		
label:	F32SPCL1		
range:	[100,9999]	units:	1
unique values:	20	coded missing:	1788 / 1919

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
3	100		2	401	
1	106		1	408	
31	110		3	410	
1	120		1	412	
15	130		1	800	
5	140		1	1070	
8	160		7	1200	
17	170		3	1300	
2	202		16	9000	
1	301		12	9999	

F32SPCL1:
1. See Appendix H for pathogen codes.

F32SPCL2 ---------- SPUTUM MICROBIOLOGY CULTURE

type:	numeric (float)		
label:	F32SPCL2		
range:	[110,9999]	units:	1
unique values:	12	coded missing:	1881 / 1919

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
3	110		4	1200	
1	130		4	1300	
1	140		1	1400	
3	160		1	6100	
1	400		13	9000	
1	407		5	9999	

F32SPCL2:
1. See Appendix H for pathogen codes.

F32OCL ---------- OTHER CULTURE

type:	numeric (float)		
range:	[-1,9999]	units:	1
unique values:	20	coded missing:	1850 / 1919

tabulation:

Freq.	Value	Freq.	Value
10	-1	1	404
5	110	1	405
1	120	1	407
8	130	1	408
6	140	2	1200
2	150	2	5120
2	160	1	6300
2	170	5	9000
1	203	1	9500
7	401	10	9999

F32OCL:
1. See Appendix H for pathogen codes.

F32GRAM1 ---------- GRAM STAIN ORGANISM

type:	numeric (float)		
label:	F32GRAM1		
range:	[-1,9999]	units:	1
unique values:	16	coded missing:	1811 / 1919

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
1	-1		1	160	
1	1		19	170	
11	10	GRAM POSITIVE DIPLOCOCCI	6	202	
7	100	GRAM POSITIVE COCCI	1	800	
1	106		2	1200	
14	110		19	9000	
3	130		1	9900	
3	140		18	9999	OTHER

F32GRAM1:
1. See Appendix H for pathogen codes.
2. Required only if sputum samples was obtainable.

F32GRAM2 ---------- GRAM STAIN ORGANISM

type:	numeric (float)		
label:	F32GRAM2		
range:	[10,9999]	units:	1
unique values:	9	coded missing:	1892 / 1919

tabulation:	Freq.	Numeric	Label
	1	10	GRAM POSITIVE DIPLOCOCCI
	8	100	GRAM POSITIVE COCCI
	1	110	
	1	202	
	2	400	GRAM NEGATIVE RODS
	1	401	
	1	1200	
	7	9000	
	5	9999	OTHER

F32GRAM2:
1. See Appendix H for pathogen codes.
2. Required only if sputum samples was obtainable.

F32GRAM3 ---------- GRAM STAIN ORGANISM

type:	numeric (float)		
label:	F32GRAM3		
range:	[100,9000]	units:	1
unique values:	6	coded missing:	1909 / 1919

tabulation:	Freq.	Numeric	Label
	1	100	GRAM POSITIVE COCCI
	1	120	
	1	202	
	1	300	
	3	400	GRAM NEGATIVE RODS
	3	9000	

F32GRAM3:
1. See Appendix H for pathogen codes.
2. Required only if sputum samples was obtainable.

F32GRAM4 ---------- GRAM STAIN ORGANISM

type:	numeric (float)		
label:	F32GRAM4		
range:	[160,9999]	units:	1
unique values:	3	coded missing:	1913 / 1919

tabulation:	Freq.	Numeric	Label
	1	160	
	2	9000	
	3	9999	OTHER

F32GRAM4:
1. See Appendix H for pathogen codes.
2. Required only if sputum samples was obtainable.

F32PMN ---------- PMN

type:	numeric (float)		
label:	F32PMN		
range:	[1,5]	units:	1
unique values:	4	coded missing:	1664 / 1919

tabulation:	Freq.	Numeric	Label
	113	1	ABSENT
	45	3	MANY
	45	4	MODERATE
	52	5	SCANTY

F32PMN:
1. See Appendix H for pathogen codes.
2. Required only if sputum samples was obtainable.

F32THWBC ---------- THORACENTESIS WBC

type:	numeric (float)		
range:	[.1,95]	units:	.1
unique values:	36	coded missing:	1877 / 1919
mean:	16.4405		
std. dev:	20.8152		

percentiles:	10%	25%	50%	75%	90%
	1.1	2.2	10.05	20	36.1

F32THWBC:
1. Required only if F32PLEFF $\geq$ 2.

F32THRBC ---------- THORACENTESIS RBC

type:	numeric (float)		
range:	[.1,9.9]	units:	.1
unique values:	20	coded missing:	1892 / 1919
mean:	3.42963		
std. dev:	2.77666		

percentiles:	10%	25%	50%	75%	90%
	.1	1.2	3	4.8	9

F32THRBC:
1. Required only if F32PLEFF $\geq$ 2.

F32THPRO ---------- THORACENTESIS PROTEIN

type:	numeric (float)		
range:	[0,50]	units:	.1
unique values:	29	coded missing:	1871 / 1919
mean:	5.95625		
std. dev:	8.5596		

percentiles:	10%	25%	50%	75%	90%
	2.4	3.3	4	5	7

F32THPRO:
1. Required only if F32PLEFF $\geq$ 2.

F32THGLU ---------- THORACENTESIS GLUCOSE

type:	numeric (float)		
range:	[0,446]	units:	1
unique values:	31	coded missing:	1881 / 1919

mean:	117.895
std. dev:	62.9409

percentiles:	10%	25%	50%	75%	90%
	82	93	108	137	156

F32THGLU:
1. Required only if F32PLEFF $\geq$ 2.

F32THCL1 ---------- THORACENTESIS CULTURE

type:	numeric (float)		
range:	[140,170]	units:	10
unique values:	3	coded missing:	1916 / 1919

tabulation:	Freq.	Value
	1	140
	1	160
	1	170

F32THCL1:
1. Required only if F32PLEFF $\geq$ 2.

F32THCL2 ---------- THORACENTESIS CULTURE

type:	numeric (float)		
range:	[301,301]	units:	1
unique values:	1	coded missing:	1918 / 1919

tabulation:	Freq.	Value
	1	301

F32THCL2:
1. Required only if F32PLEFF $\geq$ 2.

F32BGPO2 ---------- BLOOD GASES PO2

type:	numeric (float)		
range:	[8,99]	units:	1
unique values:	72	coded missing:	1448 / 1919

mean:	70.0446
std. dev:	17.1024

percentiles:	10%	25%	50%	75%	90%
	47	60	70	81	96

F32BGPO2:
1. Not applicable for version 03/01/79.
2. Required only if patients $\geq$ 20 years of age, while at rest, sitting, breathing room air.

F32BGPCO ---------- BLOOD GASES PCO2

type:	numeric (float)		
range:	[17,91]	units:	1
unique values:	38	coded missing:	1437 / 1919
mean:	34.3568		
std. dev:	6.71403		

percentiles:	10%	25%	50%	75%	90%
	27	30	34	37	41

F32BGPCO:
1. Not applicable for version 03/01/79.
2. Required only if patients ≥ 20 years of age, while at rest, sitting, breathing room air.

F32BGPH ---------- BLOOD GASES PH

type:	numeric (float)		
range:	[4.4,7.8]	units:	.1
unique values:	9	coded missing:	1432 / 1919
mean:	7.41684		
std. dev:	.157801		

percentiles:	10%	25%	50%	75%	90%
	7.4	7.4	7.4	7.5	7.5

F32BGPH:
1. Not applicable for version 03/01/79.
2. Required only if patients ≥ 20 years of age, while at rest, sitting, breathing room air.

F32BGTMP ---------- TEMPERATURE WHEN BLOOD DRAWN

type:	numeric (float)		
range:	[35.8,41.1]	units:	.1
unique values:	45	coded missing:	1520 / 1919
mean:	38.1511		
std. dev:	.929361		

percentiles:	10%	25%	50%	75%	90%
	37	37.4	38.1	38.9	39.3

F32BGTMP:
1. Not applicable for version 03/01/79.

F32ANGIO ---------- ANGIOGRAM DONE

type:	numeric (float)		
label:	F32ANGIO		
range:	[1,2]	units:	1
unique values:	2	coded missing:	674 / 1919

tabulation:	Freq.	Numeric	Label
	14	1	DONE
	1231	2	NOT DONE

F32FLOWS ---------- NUMBER OF FLOWSHEETS

type: numeric (float)
range: [0,12] units: 1
unique values: 11 coded missing: 0 / 1919

tabulation:

Freq.	Value
169	0
1062	1
557	2
87	3
27	4
9	5
2	6
2	7
2	8
1	10
1	12

F32FLOWS:
1. See section on computed variables.

F32FRM52 ---------- IS THERE A 52 ON THE DATABASE

type: numeric (float)
range: [0,48] units: 1
unique values: 8 coded missing: 0 / 1919

tabulation:

Freq.	Value
105	0
19	30
2	31
220	32
1558	33
1	42
1	44
13	48

F32FRM52:
1. See section on computed variables.

F32DHOSP ---------- NUMBER OF DAYS HOSPITALIZED

type: numeric (float)
range: [0,73] units: 1
unique values: 39 coded missing: 100 / 1919

tabulation:

Freq.	Value
70	0
27	1
83	2
199	3
213	4
230	5
281	6
132	7
134	8
108	9
78	10
75	11
47	12
16	13
14	14
22	15
14	16
6	17
14	18
7	19
6	20
6	21
3	22
4	23
5	24
4	25
3	27
2	28
2	29
1	30
1	32
1	35
1	38
1	41
1	43
1	44
1	50
1	60
1	73

```
F32DHOSP:
  1.  See section on computed variables.

_dta:
  1.  Created 7/14/99.
```

A. List of variables deleted **F43DATE F43INIT F43NDATE F43LASTU F43LASTE F43ESTAT F43VDATE F43DFC F43FCB**

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 **F43DATE**

H. New name **JF43DATE**

I. Collection Information:

Form 32E (**Acute Chest Syndrome Form II**) is a short version of Form 32 documenting only the patient's visit date, hospitalization and transfusion status, infiltrate location, and final diagnosis occurring in HbSS patients ≥ 6 years of age. This insured completeness in calculating rates of events (counts), but cut off recording of hospitalization variables.

Form 32E (Acute Chest Syndrome Form II), like form 32 was completed each time a HbSS study patient ≥ 6 years of age presented at a study participant clinic, emergency room, or hospital with an acute chest syndrome event (per definition – See Section 7.2.0).

Any episode not adhering to the criteria for acute chest syndrome was to be treated as a painful crisis (See Section 7.1.0).

J. Data Collection Period: 07/85 – 12/86

Form 32E was used between 07/01/85 through 05/31/86 to collect information about events for HbSS patients ≥ 6 years of age. It continued to be used through 12/31/86 for HbSS patients ≥ 6 years of age who were entered at < 6 months of age.

K. Form Version Dates: 06/19/85

L. Files Used to Store Information:

SAS System File: **R43.SD2**

Format File: **R43.FMT**

Note: Some records in this dataset are for 1) events of non-HbSS patients or 2) events of HbSS patients < 6 years of age – i.e., Form 32, rather than Form 32E, should have been used to report these events.

M. Unique Record Identifiers: **ANONID**, **F43DATE**

N. Number of Observations (Patients) in SAS Dataset: 220 (183)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 226-227
- Listing of Variables by Position: See pp. 227

P. Notes About Selected Variables:

- **F43ICDA1**-**F43ICDA4** – The set up of the final diagnosis question on Form 32E implies that the variable **F43ICDA1** would correspond to "Pneumonia", **F43ICDA2** to "Pulmonary Infarction", **F43ICDA3** to "Pulmonary Embolism", and **F43ICDA4** to "Other" ICD codes. However, in truth, the data entry protocol entered any and all of the diagnostic codes to any and all of the available variables indiscriminately.

  Consequently, the easiest way of dealing with the final diagnosis variables is as a group. If any of the **F43ICDA1**-**F43ICDA4** variables, associated with a given event, is equal to a discrete ICD code, then assume the ICD code corresponds to one of the disorders which constitute the final diagnosis.

Q. Computed Variables: None

R. Inter-Relationship with Other Datasets:

Acute Chest Syndrome event data were also collected on

Phase I Forms	SAS Dataset
Form 32	**R32.SD2**
Form 53	**R53.SD2**
---------	**R63.SD2**

[See Sections 7.2.1, 7.2.4, & 7.9]

Form 32 is a long version containing complete laboratory measurements and complete background information [See Section 7.2.1], and was used between 03/01/79 and 07/01/85 to report all acute chest events. It continued to be used from

07/01/85 through 12/31/86 for all non-HbSS patients and for HbSS patients until age 6. After 07/01/85, Form 32E was used for reporting ACS events in patients ≥ 6 years of age. From 01/01/87 through 09/30/88, ACS events were reported on Form 53, the Comprehensive Special Event Form for Patients Entered at < 6 Months of Age (See Section 7.9).

The SAS dataset **R63.SD2** includes summary information for all ACS events reported throughout Phase I (See Section 7.2.3). The variable **F63FORM** stores the form number (32, 43(32E), 48, 53) that was the source for the data.

Completion of separate follow-up and treatment forms (Forms 33 and/or 52) was *NOT* required for events reported on Form 32E.

The SAS System 10:44 Thursday, December 7, 2006 4

The CONTENTS Procedure

Data Set Name	OUT1.R43	Observations	220
Member Type	DATA	Variables	17
Engine	V9	Indexes	0
Created	17:10 Wednesday, November 29, 2006	Observation Length	136
Last Modified	17:10 Wednesday, November 29, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	12288
Number of Data Set Pages	3
First Data Page	1
Max Obs per Page	90
Obs in First Data Page	68
Number of Data Set Repairs	0
File Name	r43.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 #
8	F43CXRAY	Num	8	PULMONARY INFILTRATE ON CHEST X-RAY
7	F43DAYHP	Num	8	NUMBER OF DAYS HOSPITALIZED
11	F43DIAG	Num	8	FINAL DIAGNOSIS
2	F43EVENT	Num	8	SPECIAL EVENT FORM FILLED OUT?
3	F43EVNT1	Num	8	CSSCD EVENT NO.
4	F43EVNT2	Num	8	CSSCD EVENT NO.
5	F43EVNT3	Num	8	CSSCD EVENT NO.
6	F43EVNT4	Num	8	CSSCD EVENT NO.
13	F43ICDA1	Num	8	ICDA CODE
14	F43ICDA2	Num	8	ICDA CODE
15	F43ICDA3	Num	8	ICDA CODE
16	F43ICDA4	Num	8	ICDA CODE
9	F43NUMLB	Num	8	NUMBER OF LOBES INVOLVED
12	F43PNORG	Num	8	PNEUMONIA ORGANISM
10	F43TRANS	Num	8	TRANSFUSED IN LAST 4 MONTHS
17	JF43DATE	Num	8	DATE PATIENT FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

```
*************************************************************************
*****
* R43.FMT contains value labels for numerical codes assigned to
categorical*
* variables in the SAS dataset R43.SD2
*
*************************************************************************
****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    06/11/99 11:40:29;


PROC FORMAT;

PROC FORMAT PRINT;


*FORMAT NO_YES used for the following variables: F43EVENT F43CXRAY
                                                 F43TRANS;


VALUE  NO_YES

    1               = 'NO'
    2               = 'YES';



  VALUE F43DIAG
    1               = 'PNEMONIA'
    2               = 'PULMONARY INFARCTION'
    3               = 'PULMONARY EMBOLISM'
    4               = 'OTHER';

*   FORMAT
           F43EVENT F43CXRAY
           F43TRANS NO_YES.
           F43DIAG F43DIAG.;

 RUN;
 QUIT;
```

F43VDATE ---------- VERSION DATE **DELETED**

type:	numeric daily date (int)		
label:	datelab		
range:	[9301,9301]	units:	1
or equivalently:	[19jun1985,19jun1985]	units:	days
unique values:	1	coded missing:	0 / 220

tabulation:	Freq.	Numeric	Label
	220	9301	06/19/85

F43EVENT ---------- SPECIAL EVENT FORM FILLED OUT?

type:	numeric (float)		
label:	F43EVENT		
range:	[1,2]	units:	1
unique values:	2	coded missing:	1 / 220

tabulation:	Freq.	Numeric	Label
	80	1	NO
	139	2	YES

F43EVNT1 ---------- CSSCD EVENT NO.

type:	numeric (float)		
range:	[33,90]	units:	1
unique values:	11	coded missing:	86 / 220

tabulation:	Freq.	Value
	1	33
	2	34
	6	36
	2	44
	6	46
	9	48
	1	52
	78	54
	1	83
	23	84
	5	90

F43EVNT1:

1. Required if another special event form was filled out in association with this event.

F43EVNT2 ---------- CSSCD EVENT NO.

```
                  type:  numeric (float)

                 range:  [34,90]                     units:  1
         unique values:  10                   coded missing:  170 / 220

            tabulation:  Freq.  Value
                            1  34
                            1  39
                            1  46
                           10  48
                            1  50
                            4  54
                            1  64
                            1  83
                           29  84
                            1  90
```

F43EVNT2:
1. Required if more than 1 special event form was filled out in association with this event.

F43EVNT3 ---------- CSSCD EVENT NO.

```
                  type:  numeric (float)

                 range:  [31,90]                     units:  1
         unique values:  12                   coded missing:  195 / 220

            tabulation:  Freq.  Value
                            1  31
                            1  34
                            1  36
                            4  46
                            2  48
                            1  49
                            1  52
                            3  54
                            2  62
                            1  83
                            6  84
                            2  90
```

F43EVNT3:
1. Required if more than 2 special event forms were filled out in association with this event.

F43EVNT4 ---------- CSSCD EVENT NO.

```
                  type:  numeric (float)
```

```
                range:  [46,90]                     units:  1
        unique values:  5                   coded missing:  209 / 220

           tabulation:  Freq.  Value
                           2  46
                           1  47
                           4  62
                           3  84
                           1  90
```

F43EVNT4:

1. Required if more than 3 special event forms were filled out in association with this event.

```
F43DAYHP ------------------------------------------ NUMBER OF DAYS HOSPITALIZED
                type:  numeric (float)

                range:  [0,38]                      units:  1
        unique values:  27                  coded missing:  5 / 220

                 mean:   8.43721
            std. dev:    5.6299

          percentiles:        10%       25%       50%       75%       90%
                               3         5         7        10        14
```

```
F43CXRAY ---------------------------------- PULMONARY INFILTRATE ON CHEST X-RAY
                type:  numeric (float)
               label:  F43CXRAY

                range:  [1,2]                       units:  1
        unique values:  2                   coded missing:  2 / 220

           tabulation:  Freq.   Numeric  Label
                          14         1  NO
                         204         2  YES
```

```
F43NUMLB ----------------------------------------- NUMBER OF LOBES INVOLVED
                type:  numeric (float)
```

```
                range:  [1,3]                       units:  1
        unique values:  3                   coded missing:  29 / 220

           tabulation:  Freq.  Value
                          127  1
                           59  2
                            5  3

F43NUMLB:
  1.  Required only if F43CXRAY=2.


F43TRANS ---------------------------------------- TRANSFUSED IN LAST 4 MONTHS
                 type:  numeric (float)
                label:  F43TRANS

                range:  [1,2]                       units:  1
        unique values:  2                   coded missing:  5 / 220

           tabulation:  Freq.   Numeric  Label
                          168         1  NO
                           47         2  YES


F43DIAG ----------------------------------------------------- FINAL DIAGNOSIS
                 type:  numeric (float)
                label:  F43DIAG

                range:  [1,4]                       units:  1
        unique values:  3                   coded missing:  23 / 220

           tabulation:  Freq.   Numeric  Label
                          168         1  PNEUMONIA
                           21         2  PULMONARY INFARCTION
                            8         4  OTHER


F43PNORG ---------------------------------------------- PNEUMONIA ORGANISM
                 type:  numeric (float)

                range:  [110,9999]                  units:  1
        unique values:  5                   coded missing:  202 / 220

           tabulation:  Freq.  Value
                            2  110
                            5  170
                            1  408
                            2  9000
                            8  9999

F43PNORG:
  1.  See Appendix H - PATHOGEN LIST.

F43ICDA1 ------------------------------------------------------------ ICDA CODE
                 type:  numeric (float)

                range:  [34,933.19]                 units:  .01
```

```
         unique values:  12                  coded missing:  21 / 220

            tabulation:  Freq.     Value
                             1        34
                             7    282.62
                             1    282.66
                            18     415.1
                             1       466
                             1       473
                           160       486
                             1       490
                             4     493.9
                             3     511.9
                             1    786.52
                             1    933.19

F43ICDA1:
  1.  See ICD-9 Codebook for diagnosis codes.


F43ICDA2 ------------------------------------------------------------ ICDA CODE
                  type:  numeric (float)

                 range:  [10.9,560.1]                 units:  .01
         unique values:  7                   coded missing:  212 / 220

            tabulation:  Freq.     Value
                             1      10.9
                             1     282.6
                             1    282.62
                             1    376.01
                             1     415.1
                             2     511.9
                             1     560.1

F43ICDA2:
  1.  See ICD-9 Codebook for diagnosis codes.









F43ICDA3 ------------------------------------------------------------ ICDA CODE
                  type:  numeric (float)

                 range:  [34,733.4]                   units:  .01
         unique values:  3                   coded missing:  217 / 220
```

```
            tabulation:  Freq.     Value
                                1        34
                                1    282.62
                                1     733.4

F43ICDA3:
  1.  See ICD-9 Codebook for diagnosis codes.


F43ICDA4 ---------------------------------------------------------- ICDA CODE
                  type:  numeric (float)

                 range:  [282.62,511.9]               units:  .01
         unique values:  3                    coded missing:  216 / 220

            tabulation:  Freq.  Value
                                1    282.62
                                1       485
                                2     511.9

F43ICDA4:
  1.  See ICD-9 Codebook for diagnosis codes.




_dta:
  1.  Created 06/20/00.
```

A. List of variables deleted **F33DATE F33INIT F33NDATE F33LASTU F33LASTE F33ESTAT F33VDATE F33DTE1-F33DTE6 F33LDTE1 F33LDTE2 F33MDT1-FEEMDT3**

F33HMDT1-F33HMDT3 F33NOSYM

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 **F33DATE F33NOSYM**

H. New name **JF33DATE J33NOSYM**

I. Collection Information:

Form 33 (**Acute Chest Syndrome Flow Sheet**) was completed each time a Form 32 was completed and the patient was hospitalized or seen daily as an outpatient for an Acute Chest Syndrome Event.

7.2.3: Acute Chest Syndrome Flow Sheet – Form 33

The form contains daily and laboratory information from day 2 of hospitalization for the event, through discharge. Each Form 33 contains 6 days of hospital information, so consequently, multiple Form 33s can exist for a given event, dependent on length of stay or outpatient follow-up. Laboratory data are recorded every third hospital day (i.e., days 4, 7, 10, 13, etc.)

Treatment follow-up, medication, resolution of symptoms, and final diagnosis information is also recorded on this form.

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

The form was used for the entire cohort through 05/86and continued to be used for the infant cohort through 12/86.

K. Form Version Dates: 03/01/79, 05/02/79, 09/30/80

Not all information from all forms has been retained to the final database. Variables considered unimportant or unusable from early forms have been permanently dropped from the final database. Also, variables not appearing on earlier forms have been added to later versions Consequently, the codebook coincides closely with the most recent version of Form 33.

L. Files Used to Store Information:
SAS System File: **R33.SD2**
Format File: **R33.FMT**

M. Unique Record Identifiers: **ANONID**, **F33DATE**, **F33SHEET**
Records within the dataset are sorted by **ANONID**, **F33DATE**, and **F33SHEET**

N. Number of Observations (Patients) in SAS Dataset: 2,686 (961)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 240-243
- Listing of Variables by Position: See pp. 244-246

P. Notes About Selected Variables:

- **F33DTE1**-**F33DTE6**, **F33MDT1**-**F33MDT3**, **F33HMDT1**-**F33HMDT3** – These date variables are recorded as four-digit integers composed of 2-digit month and 2-digit day of follow-up.

- **F33CBWB1**, **F33CBWB2** – is the CBC White Blood Cell Count variable assumed to be "uncorrected" in relation to nucleated red blood cells (nRBCs). There is question as to whether clinics uniformly adhered to this recording policy, and there is no way of knowing whether the values recorded on the form are in fact uncorrected.
- **WBC Differential Variables** – When any of the following sets (**F33DPMN1**, **F33DBDN1**, **F33DEOS1**, **F33DBAS1**, **F33DLYM1**, **F33DMON1**, **F33DATC1** **F33DFMM1**) or (**F33DPMN2**, **F33DBDN2**, **F33DEOS2**, **F33DBAS2**, **F33DLYM2**, **F33DMON2**, **F33DATC2**, **F33DFMM2**) are recorded, then the sum of the entire set should be 100.

  Some of these variables are entered as missing, when the value in fact should be "0". If the sum of differential variables with non-missing values is 100, the missing values among that sum are assumed to be 0.
- **F33DIAG1**–**F33DIAG4** – the set-up of the discharge box on the last page of Form 33 implies the following: that 1) it is filled out upon resolution of symptoms, and 2) that the variable **F33DIAG1** would correspond to Pneumonia, **F33DIAG2** to Pulmonary Infarct, **F33DIAG3** to Pulmonary Emboli etc. However, in truth, the final diagnosis indicators may have appeared only on a flow sheet earlier than complete resolution of symptoms, (that is a **F33SHEET** number lower than the last one on the database for that **F33DATE**), and entry protocol entered any and all of the diagnostic codes to any and all of the available variables indiscriminately.

  Consequently the easiest way of dealing with the final diagnosis variables is as a group, over all Form 33s completed for the given event date (**F33DATE**). If any of the **F33DIAG1**-**F33DIAG4** variables, on any of the sheets associated with a given event date is equal to a discrete ICDA code, then assume the ICDA corresponds to one of the disorders which constitute the final diagnosis.
- **F33RALE1**-**F33RALE6**, **F33PD1**-**F33PD6**, **F33WHZ1**-**F33WHZ6** – On versions earlier than 09/30/80, there were four response choices: right (1), left (2), both (3), none (4). On version 09/30/80, there were only two: "yes" and "no"; 3 was used as the code for "yes".
- The following variables were not collected before 09/30/80, and consequently all acute chest follow-up on versions before that date will contain missing values: **F33TRANS**, **F33MCD1**-**F33MCD3**, **F33HMCD1**-**F33HMCD3**, **F33MDT1**-

F22MDT3, **F33HMDT1**-**F33HMDT3**, **F33MND1**-**F33MND3**, **F33HMND1**-**F33HMND3**, **F33NOSYM**, **F33COMP**, **F33INBED**, **F33MSWRK**, **F33PNORG**, **F33DIAG1**-**F33DIAG4**.

These variables, however, are corollary to those that are collected on a Form 52 [See Section 7.10], and the missing information for versions before 09/30/80 can be filled in by linking to the appropriate Form 52.

Q. Computed Variables: None

R. Inter-Relationship with Other Datasets:

- Form 33 contains daily follow-up data for acute chest events reported on Form 32 (**R32.SD2**). "Record 33" is linked to "Record 32" by id (**ANONID**) and date patient sought care (if **F32DATE**=**F33DATE**).

  The number of "Record 33s" which will link with any given "Record 32" is dependent on the length of the hospitalization. If a patient was hospitalized (or seen daily as an outpatient) for 7 days or less, then only "Record 33" should be on the database for the event (**F33SHEET**=1). If a patient was hospitalized for 8-13 days, two "Record 33s" should be on the database, (**F33SHEET**=1 for days 2-7; **F33SHEET**=2 for days 8-13), etc.

  [See Section 7.2.1]

- Acute Chest Syndrome Treatment and Follow-up information was also collected on

Phase 1 Forms	QQQQQQ. S AS Dataset
Form 52	**R52.SD2**

Form 52 is the Acute Event Treatment Follow-up form that was used to collect summary non-hospitalization information for acute chest events when Form 32 was filled out. It does not record daily laboratory data, since these are hospitalization values. It does collect treatment, medications, resolution of symptoms, and diagnosis information that is corollary to that collected on Form 33 version 09/30/80 for hospitalized events. Form 33 versions before 09/30/80 do not record that corollary information, so Form 52 was filled out in conjunction with each acute chest syndrome event before use of the 09/30/80 version of Form 33 to record this information. Consequently, for any acute chest events

before 09/30/80, both Form 33 and Form 52 must be queried to obtain both daily lab values and result of treatment and final diagnosis variables.

Form 52 was used from the inception of the project to record follow-up information for all types of acute events. In order to link a specific "Record 32" with a Record 52 the date patient first sought care is used (i.e., **F52DATE**=**F32DATE**). When **F32FRM52**=31 or **F32FRM52**=33 then treatment information is not stored in **R52.SD2**, but rather in **R31.SD2** or **R33.SD2** respectively, and "Record 32" should be linked by date to "Record 31" or "Record 33" for treatment, resolution of symptoms, and diagnostic data (e.g., if **F32FRM52**=31, then **F33DATE**=**F32DATE** or if **F32FRM52**=33 then **F33DATE**=**F32DATE**).

CONTENTS OF SAS DATASET: R33.SD2
DATA FROM CSSCD FORM 33 - ACUTE CHEST SYNDROME FLOW SHEET
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 33
The SAS System 10:44 Thursday, December 7, 2006 5

The CONTENTS Procedure

Data Set Name	OUT1.R33	Observations	2686
Member Type	DATA	Variables	99
Engine	V9	Indexes	0
Created	11:17 Thursday, November 30, 2006	Observation Length	792
Last Modified	11:17 Thursday, November 30, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	16384
Number of Data Set Pages	136
First Data Page	1
Max Obs per Page	20
Obs in First Data Page	5
Number of Data Set Repairs	0
File Name	O:\decastat\EBP\CSSCD\Phase 1 LAD DEV\sd2anon\r33.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 #
51	F33CBHB1	Num	8	CBC HB G|DL
52	F33CBHB2	Num	8	CBC HB G|DL
53	F33CBHC1	Num	8	CBC HCT %
54	F33CBHC2	Num	8	CBC HCT %
55	F33CBWB1	Num	8	CBC WBC X10NINTH|L
56	F33CBWB2	Num	8	CBC WBC X10NINTH|L
21	F33CHPN1	Num	8	CHEST PAIN
22	F33CHPN2	Num	8	CHEST PAIN
23	F33CHPN3	Num	8	CHEST PAIN
24	F33CHPN4	Num	8	CHEST PAIN
25	F33CHPN5	Num	8	CHEST PAIN
26	F33CHPN6	Num	8	CHEST PAIN
90	F33COMP	Num	8	COMPLICATIONS FROM TREATMENT
69	F33DATC1	Num	8	DIFFERENTIAL ATYPICAL CELLS
70	F33DATC2	Num	8	DIFFERENTIAL ATYPICAL CELLS
63	F33DBAS1	Num	8	DIFFERENTIAL BASOPHILS
64	F33DBAS2	Num	8	DIFFERENTIAL BASOPHILS
59	F33DBDN1	Num	8	DIFFERENTIAL BANDS

60	F33DBDN2	Num	8	DIFFERENTIAL BANDS
61	F33DEOS1	Num	8	DIFFERENTIAL EOSINOPHILS
62	F33DEOS2	Num	8	DIFFERENTIAL EOSINOPHILS
71	F33DFMM1	Num	8	DIFFERENTIAL METAMYELOCYTES|MYCLOCYTES
72	F33DFMM2	Num	8	DIFFERENTIAL METAMYELOCYTES|MYCLOCYTES
94	F33DIAG1	Num	8	ICDA CODE OF FINAL DIAGNOSIS
95	F33DIAG2	Num	8	ICDA CODE OF FINAL DIAGNOSIS
96	F33DIAG3	Num	8	ICDA CODE OF FINAL DIAGNOSIS

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The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
97	F33DIAG4	Num	8	ICDA CODE OF FINAL DIAGNOSIS
65	F33DLYM1	Num	8	DIFFERENTIAL LYMPHOCYTES
66	F33DLYM2	Num	8	DIFFERENTIAL LYMPHOCYTES
67	F33DMON1	Num	8	DIFFERENTIAL MONOCYTES
68	F33DMON2	Num	8	DIFFERENTIAL MONOCYTES
57	F33DPMN1	Num	8	DIFFERENTIAL PMN
58	F33DPMN2	Num	8	DIFFERENTIAL PMN
81	F33HMCD1	Num	8	HOME MEDICATION CODE
82	F33HMCD2	Num	8	HOME MEDICATION CODE
83	F33HMCD3	Num	8	HOME MEDICATION CODE
87	F33HMND1	Num	8	HOME NUMBER DAYS
88	F33HMND2	Num	8	HOME NUMBER DAYS
89	F33HMND3	Num	8	HOME NUMBER DAYS
91	F33INBED	Num	8	# OF DAYS STAYED IN BED
73	F33LNGN1	Num	8	LUNG INFILTRATE
74	F33LNGN2	Num	8	LUNG INFILTRATE
78	F33MCD1	Num	8	MEDICATION CODE
79	F33MCD2	Num	8	MEDICATION CODE
80	F33MCD3	Num	8	MEDICATION CODE
84	F33MND1	Num	8	NUMBER DAYS
85	F33MND2	Num	8	NUMBER DAYS
86	F33MND3	Num	8	NUMBER DAYS
92	F33MSWRK	Num	8	# OF DAYS MISSED SCHOOL OR WORK
39	F33PD1	Num	8	PERCUSSION DULLNESS
40	F33PD2	Num	8	PERCUSSION DULLNESS
41	F33PD3	Num	8	PERCUSSION DULLNESS
42	F33PD4	Num	8	PERCUSSION DULLNESS
43	F33PD5	Num	8	PERCUSSION DULLNESS
44	F33PD6	Num	8	PERCUSSION DULLNESS
75	F33PLEF1	Num	8	PLEURAL EFFUSION
76	F33PLEF2	Num	8	PLEURAL EFFUSION
27	F33PLPN1	Num	8	PLEURITIC PAIN
28	F33PLPN2	Num	8	PLEURITIC PAIN
29	F33PLPN3	Num	8	PLEURITIC PAIN
30	F33PLPN4	Num	8	PLEURITIC PAIN
31	F33PLPN5	Num	8	PLEURITIC PAIN
32	F33PLPN6	Num	8	PLEURITIC PAIN
9	F33PLSE1	Num	8	PULSE
10	F33PLSE2	Num	8	PULSE
11	F33PLSE3	Num	8	PULSE
12	F33PLSE4	Num	8	PULSE
13	F33PLSE5	Num	8	PULSE
14	F33PLSE6	Num	8	PULSE
93	F33PNORG	Num	8	PNEUMONIA ORGANISM
33	F33RALE1	Num	8	RALES
34	F33RALE2	Num	8	RALES
35	F33RALE3	Num	8	RALES

36	F33RALE4	Num	8	RALES
37	F33RALE5	Num	8	RALES
38	F33RALE6	Num	8	RALES
15	F33RESP1	Num	8	RESPIRATION PER MINUTE
16	F33RESP2	Num	8	RESPIRATION PER MINUTE

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The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
17	F33RESP3	Num	8	RESPIRATION PER MINUTE
18	F33RESP4	Num	8	RESPIRATION PER MINUTE
19	F33RESP5	Num	8	RESPIRATION PER MINUTE
20	F33RESP6	Num	8	RESPIRATION PER MINUTE
2	F33SHEET	Num	8	SHEET NUMBER
3	F33TMP1	Num	8	TEMPERATURE
4	F33TMP2	Num	8	TEMPERATURE
5	F33TMP3	Num	8	TEMPERATURE
6	F33TMP4	Num	8	TEMPERATURE
7	F33TMP5	Num	8	TEMPERATURE
8	F33TMP6	Num	8	TEMPERATURE
77	F33TRANS	Num	8	TRANSFUSED FOR EPISODE?
45	F33WHZ1	Num	8	WHEEZING
46	F33WHZ2	Num	8	WHEEZING
47	F33WHZ3	Num	8	WHEEZING
48	F33WHZ4	Num	8	WHEEZING
49	F33WHZ5	Num	8	WHEEZING
50	F33WHZ6	Num	8	WHEEZING
99	J33NOSYM	Num	8	DATE SYMPTOMS GONE - RECODE DAYS SINCE DOE
98	JF33DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

```
************************************************************************
******
* R33.FMT contains value labels for numerical codes assigned to
categorical *
* variables in the SAS dataset R33.SD2
*
************************************************************************
*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    01/31/99 12:54:41;


PROC FORMAT;


*  FORMAT LOC_PN is used for the following variables: F33CHPN1-F33CHPN6
                                                      F33PLPN1-
F33PLPN6;

  VALUE LOC_PN
    0               = 'NO (0)'
    1               = 'LEFT UPPER (1)'
    2               = 'LEFT LOWER (2)'
    4               = 'RIGHT UPPER (4)'
    8               = 'RIGHT LOWER (8)'
    16              = 'NO (16)';


*  FORMAT LOC_SYMP is used for the following variables: F33RALE1-
F33RALE6
                                            F33PD1-F33PD6 F33WHZ1-
F33WHZ6;

  VALUE LOC_SYMP
    0               = 'NO'
    1               = 'YES RIGHT'
    2               = 'YES LEFT'
    3               = 'YES BOTH'
    4               = 'NO';


*  FORMAT LUNGINF is used for the following variables: F33LNGN1
F33LNGN2;

  VALUE LUNGINF
    0               = 'NO (0)'
    1               = 'LEFT UPPER (1)'
    2               = 'LEFT LINGULA (2)'
    4               = 'LEFT LOWER (4)'
    8               = 'RIGHT UPPER (8)'
    16              = 'RIGHT MIDDLE (16)'
    32              = 'RIGHT LOWER (32)'
    64              = 'NO (64)';


*  FORMAT PLEF is used for the following variables: F33PLEF1 F33PLEF2;
```

```
  VALUE PLEF
    0               = 'NO'
    1               = 'YES,UNSPECIFIED'
    2               = 'RIGHT'
    3               = 'RIGHT'
    4               = 'LEFT'
    5               = 'LEFT'
    6               = 'BOTH'
    7               = 'BOTH'
    8               = 'NO';


*  FORMAT NO_YES is used for the following variables: F33TRANS F33COMP;

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


*  FORMAT ILLNESS is used for the following variables: F33INBED
F33MSWRK;

  VALUE ILLNESS
    -2              = 'NA'
    -3              = 'NO'
    -4              = 'NOT FILLED IN';



*   FORMAT
           F33CHPN1 F33CHPN2 F33CHPN3 F33CHPN4 F33CHPN5 F33CHPN6
           F33PLPN1 F33PLPN2 F33PLPN3 F33PLPN4 F33PLPN5 F33PLPN6
LOC_PN.
           F33RALE1 F33RALE2 F33RALE3 F33RALE4 F33RALE5 F33RALE6
           F33PD1 F33PD2 F33PD3 F33PD4 F33PD5 F33PD6
           F33WHZ1 F33WHZ2 F33WHZ3 F33WHZ4 F33WHZ5 F33WHZ6 LOC_SYMP.
           F33LNGN1 F33LNGN2 LUNGINF.
           F33PLEF1 F33PLEF2 PLEF.
           F33TRANS F33COMP NO_YES.
           F33INBED F33MSWRK ILLNESS.;

 RUN;
 QUIT;
```

F33SHEET ---------- SHEET NUMBER

type:	numeric (float)
range:	[1,12]
units:	1
unique values:	12
coded missing:	0 / 2686

tabulation:

Freq.	Value
1773	1
695	2
133	3
44	4
17	5
8	6
6	7
4	8
2	9
2	10
1	11
1	12

F33VDATE ---------- VERSION DATE **DELETED**

type:	numeric daily date (int)
label:	datelab
range:	[6999,7578]
units:	1
or equivalently:	[01mar1979,30sep1980]
units:	days
unique values:	3
coded missing:	0 / 2686

tabulation:

Freq.	Numeric	Label
286	6999	03/01/79
7	7061	05/02/79
2393	7578	09/30/80

F33TMP1 ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.9,41.4]	units:	.1
unique values:	51	coded missing:	24 / 2686
mean:	38.139		
std. dev:	.93457		

percentiles:	10%	25%	50%	75%	90%
	37	37.4	38	38.8	39.4

F33TMP2 ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.9,41.5]	units:	.1
unique values:	49	coded missing:	161 / 2686
mean:	37.9839		
std. dev:	.883031		

percentiles:	10%	25%	50%	75%	90%
	37	37.2	37.8	38.6	39.2

F33TMP3 ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.9,41.8]	units:	.1
unique values:	51	coded missing:	405 / 2686
mean:	37.8458		
std. dev:	.858395		

percentiles:	10%	25%	50%	75%	90%
	36.9	37.2	37.7	38.4	39

F33TMP4 ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.5,40.6]	units:	.1
unique values:	49	coded missing:	737 / 2686
mean:	37.7779		
std. dev:	.840703		

percentiles:	10%	25%	50%	75%	90%
	36.9	37.2	37.6	38.3	38.9

F33TMP5 ---------- TEMPERATURE

type:	numeric (float)		
range:	[35.5,41.2]	units:	.1
unique values:	50	coded missing:	1062 / 2686
mean:	37.6908		
std. dev:	.801798		

percentiles:	10%	25%	50%	75%	90%
	36.9	37.1	37.5	38.1	38.8

F33TMP6 ---------- TEMPERATURE

type:	numeric (float)		
range:	[34.6,40.9]	units:	.1
unique values:	49	coded missing:	1373 / 2686
mean:	37.619		
std. dev:	.7567		

percentiles:	10%	25%	50%	75%	90%
	36.8	37	37.5	38	38.7

F33PLSE1 ---------- PULSE

type:	numeric (float)		
range:	[25,208]	units:	1
unique values:	92	coded missing:	54 / 2686
mean:	111.695		
std. dev:	22.4616		

percentiles:	10%	25%	50%	75%	90%
	84	96	110	128	140

F33PLSE2 ---------- PULSE

type:	numeric (float)		
range:	[36,200]	units:	1
unique values:	81	coded missing:	196 / 2686
mean:	109.976		
std. dev:	21.3902		

percentiles:	10%	25%	50%	75%	90%
	82	94	108	124	140

F33PLSE3 ---------- PULSE

type:	numeric (float)				
range:	[25,180]		units:	1	
unique values:	84		coded missing:	438 / 2686	
mean:	107.764				
std. dev:	20.5547				
percentiles:	10%	25%	50%	75%	90%
	82	92	104	120	136

F33PLSE4 ---------- PULSE

type:	numeric (float)				
range:	[24,180]		units:	1	
unique values:	75		coded missing:	769 / 2686	
mean:	106.138				
std. dev:	19.6683				
percentiles:	10%	25%	50%	75%	90%
	82	92	102	120	132

F33PLSE5 ---------- PULSE

type:	numeric (float)				
range:	[26,176]		units:	1	
unique values:	71		coded missing:	1083 / 2686	
mean:	104.182				
std. dev:	19.3584				
percentiles:	10%	25%	50%	75%	90%
	80	90	100	120	130

F33PLSE6 ---------- PULSE

type:	numeric (float)				
range:	[25,180]		units:	1	
unique values:	74		coded missing:	1394 / 2686	
mean:	103.295				
std. dev:	19.3984				
percentiles:	10%	25%	50%	75%	90%
	80	90	100	116	130

F33RESP1 ---------- RESPIRATION PER MINUTE

type:	numeric (float)				
range:	[12,99]		units:	1	
unique values:	48		coded missing:	55 / 2686	
mean:	30.103				
std. dev:	11.1616				
percentiles:	10%	25%	50%	75%	90%
	20	22	28	36	44

F33RESP2 ---------- RESPIRATION PER MINUTE

type:	numeric (float)				
range:	[12,99]		units:	1	
unique values:	54		coded missing:	194 / 2686	
mean:	29.3347				
std. dev:	10.409				
percentiles:	10%	25%	50%	75%	90%
	20	22	26	36	44

F33RESP3 ---------- RESPIRATION PER MINUTE

type:	numeric (float)				
range:	[10,99]		units:	1	
unique values:	50		coded missing:	436 / 2686	
mean:	28.7382				
std. dev:	10.2733				
percentiles:	10%	25%	50%	75%	90%
	20	20	24	32	42

F33RESP4 ---------- RESPIRATION PER MINUTE

type:	numeric (float)				
range:	[10,99]		units:	1	
unique values:	49		coded missing:	762 / 2686	
mean:	28.2406				
std. dev:	10.0626				
percentiles:	10%	25%	50%	75%	90%
	20	20	24	32	40

F33RESP5 ---------- RESPIRATION PER MINUTE

type:	numeric (float)					
range:	[12,90]			units:	1	
unique values:	42			coded missing:	1077 / 2686	
mean:	27.3126					
std. dev:	9.39712					
percentiles:	10%	25%	50%	75%	90%	
	20	20	24	32	40	

F33RESP6 ---------- RESPIRATION PER MINUTE

type:	numeric (float)					
range:	[12,80]			units:	1	
unique values:	41			coded missing:	1392 / 2686	
mean:	26.9706					
std. dev:	9.20376					
percentiles:	10%	25%	50%	75%	90%	
	20	20	24	30	40	

F33CHPN1 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN1		
range:	[0,16]	units:	1
unique values:	17	coded missing:	96 / 2686

tabulation:	Freq.	Numeric	Label
	1613	0	NO (0)
	40	1	LEFT UPPER (1)
	154	2	LEFT LOWER (2)
	100	3	
	46	4	RIGHT UPPER (4)
	43	5	
	3	6	
	4	7	
	153	8	RIGHT LOWER (8)
	3	9	
	96	10	
	6	11	
	102	12	
	6	13	
	9	14	
	149	15	
	63	16	NO (16)

F33CHPN1:

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

F33CHPN2 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN2		
range:	[0,16]	units:	1
unique values:	17	coded missing:	229 / 2686

tabulation:	Freq.	Numeric	Label
	1602	0	NO (0)
	38	1	LEFT UPPER (1)
	131	2	LEFT LOWER (2)
	85	3	
	38	4	RIGHT UPPER (4)
	42	5	
	3	6	
	2	7	
	122	8	RIGHT LOWER (8)
	2	9	
	86	10	
	4	11	
	86	12	
	6	13	
	8	14	
	137	15	
	65	16	NO (16)

F33CHPN2:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33CHPN3 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN3		
range:	[0,16]	units:	1
unique values:	16	coded missing:	465 / 2686

tabulation:	Freq.	Numeric	Label
	1520	0	NO (0)
	30	1	LEFT UPPER (1)
	111	2	LEFT LOWER (2)
	63	3	
	27	4	RIGHT UPPER (4)
	28	5	
	3	6	
	4	7	
	98	8	RIGHT LOWER (8)
	62	10	
	6	11	
	75	12	
	5	13	
	6	14	
	106	15	
	77	16	NO (16)

F33CHPN3:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33CHPN4 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN4		
range:	[0,16]	units:	1
unique values:	16	coded missing:	792 / 2686

tabulation:	Freq.	Numeric	Label
	1341	0	NO (0)
	18	1	LEFT UPPER (1)
	79	2	LEFT LOWER (2)
	48	3	
	16	4	RIGHT UPPER (4)
	26	5	
	5	6	
	4	7	
	76	8	RIGHT LOWER (8)
	53	10	
	5	11	
	51	12	
	4	13	
	4	14	
	90	15	
	74	16	NO (16)

F33CHPN4:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33CHPN5 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN5		
range:	[0,16]	units:	1
unique values:	17	coded missing:	1108 / 2686

tabulation:	Freq.	Numeric	Label
	1143	0	NO (0)
	15	1	LEFT UPPER (1)
	62	2	LEFT LOWER (2)
	35	3	
	15	4	RIGHT UPPER (4)
	24	5	
	3	6	
	2	7	
	59	8	RIGHT LOWER (8)
	1	9	
	41	10	
	1	11	
	38	12	
	3	13	
	4	14	
	72	15	
	60	16	NO (16)

F33CHPN5:

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

F33CHPN6 ---------- CHEST PAIN

type:	numeric (float)		
label:	F33CHPN6		
range:	[0,16]	units:	1
unique values:	16	coded missing:	1410 / 2686

tabulation:

Freq.	Numeric	Label
934	0	NO (0)
10	1	LEFT UPPER (1)
48	2	LEFT LOWER (2)
24	3	
13	4	RIGHT UPPER (4)
17	5	
3	6	
45	8	RIGHT LOWER (8)
2	9	
28	10	
3	11	
31	12	
3	13	
4	14	
57	15	
54	16	NO (16)

F33CHPN6:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33PLPN1 ---------- PLEURITIC PAIN

type:	numeric (float)		
label:	F33PLPN1		
range:	[0,16]	units:	1
unique values:	16	coded missing:	98 / 2686

tabulation:	Freq.	Numeric	Label
	2050	0	NO (0)
	16	1	LEFT UPPER (1)
	81	2	LEFT LOWER (2)
	41	3	
	16	4	RIGHT UPPER (4)
	9	5	
	1	6	
	86	8	RIGHT LOWER (8)
	2	9	
	64	10	
	6	11	
	54	12	
	3	13	
	4	14	
	77	15	
	78	16	NO (16)

F33PLPN1:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33PLPN2 ---------- PLEURITIC PAIN

type:	numeric (float)
label:	F33PLPN2
range:	[0,16]
units:	1
unique values:	17
coded missing:	235 / 2686

tabulation:

Freq.	Numeric	Label
1938	0	NO (0)
14	1	LEFT UPPER (1)
77	2	LEFT LOWER (2)
44	3	
15	4	RIGHT UPPER (4)
7	5	
1	6	
1	7	
75	8	RIGHT LOWER (8)
2	9	
61	10	
4	11	
52	12	
2	13	
5	14	
75	15	
78	16	NO (16)

F33PLPN2:

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

F33PLPN3 ---------- PLEURITIC PAIN

type:	numeric (float)		
label:	F33PLPN3		
range:	[0,16]	units:	1
unique values:	15	coded missing:	470 / 2686

tabulation:	Freq.	Numeric	Label
	1780	0	NO (0)
	12	1	LEFT UPPER (1)
	54	2	LEFT LOWER (2)
	31	3	
	13	4	RIGHT UPPER (4)
	8	5	
	69	8	RIGHT LOWER (8)
	2	9	
	46	10	
	4	11	
	42	12	
	1	13	
	4	14	
	61	15	
	89	16	NO (16)

F33PLPN3:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33PLPN4 ---------- PLEURITIC PAIN

type:	numeric (float)		
label:	F33PLPN4		
range:	[0,16]	units:	1
unique values:	16	coded missing:	799 / 2686

tabulation:

Freq.	Numeric	Label
1526	0	NO (0)
9	1	LEFT UPPER (1)
47	2	LEFT LOWER (2)
18	3	
11	4	RIGHT UPPER (4)
8	5	
1	7	
51	8	RIGHT LOWER (8)
1	9	
45	10	
3	11	
36	12	
1	13	
6	14	
45	15	
79	16	NO (16)

F33PLPN4:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33PLPN5 ---------- PLEURITIC PAIN

type:	numeric (float)		
label:	F33PLPN5		
range:	[0,16]	units:	1
unique values:	15	coded missing:	1113 / 2686

tabulation:	Freq.	Numeric	Label
	1269	0	NO (0)
	5	1	LEFT UPPER (1)
	38	2	LEFT LOWER (2)
	12	3	
	8	4	RIGHT UPPER (4)
	8	5	
	46	8	RIGHT LOWER (8)
	1	9	
	40	10	
	2	11	
	30	12	
	1	13	
	5	14	
	41	15	
	67	16	NO (16)

F33PLPN5:
1. Binary coded variable. See Part II for explanation of binary coded variables.

F33PLPN6 ---------- PLEURITIC PAIN

type:	numeric (float)		
label:	F33PLPN6		
range:	[0,16]	units:	1
unique values:	15	coded missing:	1416 / 2686

tabulation:	Freq.	Numeric	Label
	1025	0	NO (0)
	2	1	LEFT UPPER (1)
	28	2	LEFT LOWER (2)
	11	3	
	5	4	RIGHT UPPER (4)
	6	5	
	35	8	RIGHT LOWER (8)
	1	9	
	31	10	
	1	11	
	25	12	
	1	13	
	5	14	
	33	15	
	61	16	NO (16)

F33PLPN6:

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

F33RALE1 ---------- RALES

type:	numeric (float)		
label:	F33RALE1		
range:	[0,4]	units:	1
unique values:	5	coded missing:	38 / 2686

tabulation:	Freq.	Numeric	Label
	1446	0	NO
	190	1	YES RIGHT
	151	2	YES LEFT
	800	3	YES BOTH
	61	4	NO

F33RALE1:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33RALE2 ---------- RALES

type:	numeric (float)		
label:	F33RALE2		
range:	[0,4]	units:	1
unique values:	5	coded missing:	181 / 2686

tabulation:	Freq.	Numeric	Label
	1396	0	NO
	181	1	YES RIGHT
	134	2	YES LEFT
	736	3	YES BOTH
	58	4	NO

F33RALE2:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33RALE3 ---------- RALES

type:	numeric (float)		
label:	F33RALE3		
range:	[0,4]	units:	1
unique values:	5	coded missing:	422 / 2686

tabulation:	Freq.	Numeric	Label
	1292	0	NO
	154	1	YES RIGHT
	120	2	YES LEFT
	634	3	YES BOTH
	64	4	NO

F33RALE3:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33RALE4 ---------- RALES

type:	numeric (float)		
label:	F33RALE4		
range:	[0,4]	units:	1
unique values:	5	coded missing:	758 / 2686

tabulation:	Freq.	Numeric	Label
	1151	0	NO
	125	1	YES RIGHT
	85	2	YES LEFT
	508	3	YES BOTH
	59	4	NO

F33RALE4:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33RALE5 ---------- RALES

type:	numeric (float)		
label:	F33RALE5		
range:	[0,4]	units:	1
unique values:	5	coded missing:	1074 / 2686

tabulation:	Freq.	Numeric	Label
	1006	0	NO
	91	1	YES RIGHT
	61	2	YES LEFT
	400	3	YES BOTH
	54	4	NO

F33RALE5:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33RALE6 ---------- RALES

type:	numeric (float)		
label:	F33RALE6		
range:	[0,4]	units:	1
unique values:	5	coded missing:	1389 / 2686

tabulation:	Freq.	Numeric	Label
	816	0	NO
	68	1	YES RIGHT
	41	2	YES LEFT
	325	3	YES BOTH
	47	4	NO

F33RALE6:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33PD1 ---------- PERCUSSION DULLNESS

type:	numeric (float)		
label:	F33PD1		
range:	[0,4]	units:	1
unique values:	5	coded missing:	47 / 2686

tabulation:

Freq.	Numeric	Label
1802	0	NO
174	1	YES RIGHT
122	2	YES LEFT
468	3	YES BOTH
73	4	NO

F33PD1:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33PD2 ---------- PERCUSSION DULLNESS

type:	numeric (float)		
label:	F33PD2		
range:	[0,4]	units:	1
unique values:	5	coded missing:	191 / 2686

tabulation:

Freq.	Numeric	Label
1736	0	NO
159	1	YES RIGHT
102	2	YES LEFT
425	3	YES BOTH
73	4	NO

F33PD2:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33PD3 ---------- PERCUSSION DULLNESS

type:	numeric (float)		
label:	F33PD3		
range:	[0,4]	units:	1
unique values:	5	coded missing:	430 / 2686

tabulation:

Freq.	Numeric	Label
1602	0	NO
132	1	YES RIGHT
83	2	YES LEFT
352	3	YES BOTH
87	4	NO

F33PD3:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

```
F33PD4 ------------------------------------------------- PERCUSSION DULLNESS
                  type:  numeric (float)
                 label:  F33PD4

                 range:  [0,4]                        units:  1
         unique values:  5                    coded missing:  767 / 2686

            tabulation:  Freq.   Numeric  Label
                         1374         0  NO
                          114         1  YES RIGHT
                           60         2  YES LEFT
                          297         3  YES BOTH
                           74         4  NO
```

F33PD4:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

```
F33PD5 ------------------------------------------------- PERCUSSION DULLNESS
                  type:  numeric (float)
                 label:  F33PD5

                 range:  [0,4]                        units:  1
         unique values:  5                    coded missing:  1081 / 2686

            tabulation:  Freq.   Numeric  Label
                         1175         0  NO
                           79         1  YES RIGHT
                           52         2  YES LEFT
                          239         3  YES BOTH
                           60         4  NO
```

F33PD5:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

```
F33PD6 ------------------------------------------------- PERCUSSION DULLNESS
                  type:  numeric (float)
                 label:  F33PD6

                 range:  [0,4]                        units:  1
         unique values:  5                    coded missing:  1391 / 2686

            tabulation:  Freq.   Numeric  Label
                          952         0  NO
                           55         1  YES RIGHT
                           45         2  YES LEFT
                          181         3  YES BOTH
                           62         4  NO
```

F33PD6:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ1 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ1		
range:	[0,4]	units:	1
unique values:	5	coded missing:	45 / 2686

tabulation:	Freq.	Numeric	Label
	2284	0	NO
	39	1	YES RIGHT
	34	2	YES LEFT
	199	3	YES BOTH
	85	4	NO

F33WHZ1:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ2 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ2		
range:	[0,4]	units:	1
unique values:	5	coded missing:	185 / 2686

tabulation:	Freq.	Numeric	Label
	2187	0	NO
	34	1	YES RIGHT
	26	2	YES LEFT
	163	3	YES BOTH
	91	4	NO

F33WHZ2:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ3 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ3		
range:	[0,4]	units:	1
unique values:	5	coded missing:	430 / 2686

tabulation:	Freq.	Numeric	Label
	1981	0	NO
	29	1	YES RIGHT
	22	2	YES LEFT
	127	3	YES BOTH
	97	4	NO

F33WHZ3:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ4 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ4		
range:	[0,4]	units:	1
unique values:	5	coded missing:	767 / 2686

tabulation:	Freq.	Numeric	Label
	1697	0	NO
	23	1	YES RIGHT
	15	2	YES LEFT
	93	3	YES BOTH
	91	4	NO

F33WHZ4:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ5 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ5		
range:	[0,4]	units:	1
unique values:	5	coded missing:	1083 / 2686

tabulation:	Freq.	Numeric	Label
	1437	0	NO
	19	1	YES RIGHT
	7	2	YES LEFT
	66	3	YES BOTH
	74	4	NO

F33WHZ5:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33WHZ6 ---------- WHEEZING

type:	numeric (float)		
label:	F33WHZ6		
range:	[0,4]	units:	1
unique values:	5	coded missing:	1393 / 2686

tabulation:	Freq.	Numeric	Label
	1159	0	NO
	16	1	YES RIGHT
	7	2	YES LEFT
	44	3	YES BOTH
	67	4	NO

F33WHZ6:
1. 'YES' was coded as 'YES BOTH' on version 09/30/80.

F33CBHB1 ---------- CBC HB G|DL

type: numeric (float)

range: [4,17.5] units: .1
unique values: 105 coded missing: 555 / 2686

mean: 8.35838
std. dev: 1.88014

percentiles:	10%	25%	50%	75%	90%
	6.2	7	8.1	9.5	11

F33CBHB2 ---------- CBC HB G|DL

type: numeric (float)

range: [3.6,15] units: .1
unique values: 98 coded missing: 1524 / 2686

mean: 8.52186
std. dev: 1.89797

percentiles:	10%	25%	50%	75%	90%
	6.3	7.2	8.2	9.7	11.2

F33CBHC1 ---------- CBC HCT %

type: numeric (float)

range: [6.2,45.2] units: .1
unique values: 274 coded missing: 553 / 2686

mean: 24.958
std. dev: 5.70541

percentiles:	10%	25%	50%	75%	90%
	18.2	20.8	24.1	28.4	33.1

F33CBHC2 ---------- CBC HCT %

type: numeric (float)

range: [7.9,44.9] units: .1
unique values: 252 coded missing: 1521 / 2686

mean: 25.5224
std. dev: 5.73341

percentiles:	10%	25%	50%	75%	90%
	18.5	21.4	24.9	29.1	33.5

F33CBWB1 ---------- CBC WBC X10NINTH|L

type: numeric (float)

range: [3,99] units: .1
unique values: 341 coded missing: 594 / 2686

mean: 17.1947
std. dev: 7.97024

percentiles:	10%	25%	50%	75%	90%
	9.1	11.9	15.9	21	26.3

F33CBWB2 ---------- CBC WBC X10NINTH|L

type: numeric (float)

range: [3.1,57.2] units: .1
unique values: 261 coded missing: 1543 / 2686

mean: 15.5116
std. dev: 6.565

percentiles:	10%	25%	50%	75%	90%
	8.6	10.9	14.5	18.6	23.5

F33DPMN1 ---------- DIFFERENTIAL PMN

type: numeric (float)

range: [3,95] units: 1
unique values: 89 coded missing: 757 / 2686

mean: 60.0581
std. dev: 15.9368

percentiles:	10%	25%	50%	75%	90%
	38	50	62	72	80

F33DPMN2 ---------- DIFFERENTIAL PMN

type: numeric (float)

range: [3,91] units: 1
unique values: 81 coded missing: 1665 / 2686

mean: 57.9285
std. dev: 15.5633

percentiles:	10%	25%	50%	75%	90%
	36	48	60	69	77

F33DBDN1 ---------- DIFFERENTIAL BANDS

type:	numeric (float)
range:	[0,35]
units:	1
unique values:	30
coded missing:	1601 / 2686
mean:	3.7447
std. dev:	5.03551

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

F33DBDN2 ---------- DIFFERENTIAL BANDS

type:	numeric (float)
range:	[0,37]
units:	1
unique values:	26
coded missing:	2124 / 2686
mean:	3.61388
std. dev:	5.09364

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

F33DEOS1 ---------- DIFFERENTIAL EOSINOPHILS

type:	numeric (float)
range:	[0,56]
units:	1
unique values:	31
coded missing:	824 / 2686
mean:	2.87111
std. dev:	4.14547

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

F33DEOS2 ---------- DIFFERENTIAL EOSINOPHILS

type:	numeric (float)
range:	[0,36]
units:	1
unique values:	25
coded missing:	1693 / 2686
mean:	3.38872
std. dev:	3.92828

percentiles:	10%	25%	50%	75%	90%
	0	1	2	5	8

F33DBAS1 ---------- DIFFERENTIAL BASOPHILS

type:	numeric (float)		
range:	[0,43]	units:	1
unique values:	14	coded missing:	895 / 2686
mean:	.417085		
std. dev:	1.48765		

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

F33DBAS2 ---------- DIFFERENTIAL BASOPHILS

type:	numeric (float)		
range:	[0,54]	units:	1
unique values:	11	coded missing:	1749 / 2686
mean:	.600854		
std. dev:	2.54882		

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

F33DLYM1 ---------- DIFFERENTIAL LYMPHOCYTES

type:	numeric (float)		
range:	[0,90]	units:	1
unique values:	81	coded missing:	780 / 2686
mean:	26.1737		
std. dev:	14.0683		

percentiles:	10%	25%	50%	75%	90%
	11	15	24	34	45

F33DLYM2 ---------- DIFFERENTIAL LYMPHOCYTES

type:	numeric (float)		
range:	[0,89]	units:	1
unique values:	75	coded missing:	1688 / 2686
mean:	27.1944		
std. dev:	13.7302		

percentiles:	10%	25%	50%	75%	90%
	12	17	24	35	45

F33DMON1 ---------- DIFFERENTIAL MONOCYTES

type:	numeric (float)		
range:	[0,30]	units:	1
unique values:	28	coded missing:	817 / 2686
mean:	7.33975		
std. dev:	4.43893		

percentiles:	10%	25%	50%	75%	90%
	2	4	7	10	13

F33DMON2 ---------- DIFFERENTIAL MONOCYTES

type:	numeric (float)		
range:	[0,42]	units:	1
unique values:	24	coded missing:	1695 / 2686
mean:	7.54087		
std. dev:	4.56005		

percentiles:	10%	25%	50%	75%	90%
	2	4	7	10	14

F33DATC1 ---------- DIFFERENTIAL ATYPICAL CELLS

type:	numeric (float)		
range:	[0,10]	units:	1
unique values:	10	coded missing:	1687 / 2686
mean:	.411411		
std. dev:	1.09376		

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

F33DATC2 ---------- DIFFERENTIAL ATYPICAL CELLS

type:	numeric (float)		
range:	[0,16]	units:	1
unique values:	11	coded missing:	2161 / 2686
mean:	.514286		
std. dev:	1.46534		

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

F33DFMM1 ---------- DIFFERENTIAL METAMYELOCYTES/MYELOCYTES

type:	numeric (float)		
range:	[0,13]	units:	1
unique values:	11	coded missing:	1724 / 2686
mean:	.286902		
std. dev:	1.13263		

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

F33DFMM2 ---------- DIFFERENTIAL METAMYELOCYTES/MYELOCYTES

type:	numeric (float)		
range:	[0,36]	units:	1
unique values:	9	coded missing:	2176 / 2686
mean:	.380392		
std. dev:	1.88167		

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

F33LNGN1 ---------- LUNG INFILTRATE

type: numeric (float)
label: F33LNGN1

range: [0,64] units: 1
unique values: 50 coded missing: 1147 / 2686

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
290	0	NO (0)	175	32	RIGHT LOWER (32)
36	1	LEFT UPPER (1)	14	33	
9	2	LEFT LINGULA (2)	3	34	
7	3		1	35	
219	4	LEFT LOWER (4)	206	36	
15	5		9	37	
15	6		5	38	
6	7		9	39	
84	8	RIGHT UPPER (8)	28	40	
50	9		6	41	
2	11		6	44	
12	12		2	45	
6	13		39	48	
1	14		8	49	
68	16	RIGHT MIDDLE (16)	4	50	
11	17		1	51	
4	18		10	52	
1	19		2	53	
17	20		9	54	
1	22		1	55	
2	23		8	56	
13	24		4	60	
2	25		4	62	
3	28		20	63	
1	29		90	64	NO (64)

F33LNGN1:

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

F33LNGN2 ---------- LUNG INFILTRATE

type: numeric (float)
label: F33LNGN2

range: [0,64] units: 1
unique values: 47 coded missing: 1930 / 2686

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
164	0	NO (0)	72	32	RIGHT LOWER (32)
14	1	LEFT UPPER (1)	6	33	
4	2	LEFT LINGULA (2)	1	34	
2	3		114	36	
80	4	LEFT LOWER (4)	8	37	
6	5		5	38	
5	6		6	39	
6	7		9	40	
30	8	RIGHT UPPER (8)	2	41	
27	9		2	43	
2	11		4	44	
7	12		1	45	
4	13		21	48	
1	14		2	49	
21	16	RIGHT MIDDLE (16)	2	50	
2	17		10	52	
1	18		5	54	
1	19		3	56	
10	20		1	57	
1	23		1	60	
2	24		3	62	
1	25		11	63	
1	27		73	64	NO (64)
2	28				

F33LNGN2:

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

F33PLEF1 ---------- PLEURAL EFFUSION

type:	numeric (float)		
label:	F33PLEF1		
range:	[0,8]	units:	1
unique values:	9	coded missing:	1159 / 2686

tabulation:

Freq.	Numeric	Label
1015	0	NO
59	1	YES,UNSPECIFIED
45	2	RIGHT
77	3	RIGHT
55	4	LEFT
38	5	LEFT
39	6	BOTH
71	7	BOTH
128	8	NO

F33PLEF2 ---------- PLEURAL EFFUSION

type:	numeric (float)		
label:	F33PLEF2		
range:	[0,8]	units:	1
unique values:	9	coded missing:	1927 / 2686

tabulation:

Freq.	Numeric	Label
451	0	NO
28	1	YES,UNSPECIFIED
25	2	RIGHT
47	3	RIGHT
25	4	LEFT
23	5	LEFT
22	6	BOTH
43	7	BOTH
95	8	NO

F33TRANS ---------- TRANSFUSED FOR EPISODE?

type:	numeric (float)		
label:	F33TRANS		
range:	[1,2]	units:	1
unique values:	2	coded missing:	336 / 2686

tabulation:

Freq.	Numeric	Label
1501	1	NO
849	2	YES

F33TRANS:
1. Not collected on version 09/30/80.

F33MCD1 ---------- MEDICATION CODE

type: numeric (float)

range: [0,999] units: 1
unique values: 93 coded missing: 1007 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
1	0	2	121	1	310	1	471
1	3	2	123	1	311	19	480
1	7	6	126	1	328	6	481
1	20	2	159	3	329	1	484
2	21	2	161	4	336	1	487
36	25	13	170	15	337	1	502
3	26	602	171	1	339	1	519
547	28	1	174	1	341	6	530
1	29	1	175	7	344	52	541
1	31	1	177	1	346	1	542
1	32	1	190	5	361	1	547
2	44	2	192	1	364	1	550
1	48	1	207	41	369	1	553
1	54	1	213	32	370	8	554
1	56	4	230	18	371	24	562
2	59	70	231	1	375	2	564
1	67	1	232	4	382	1	569
3	92	6	249	2	391	2	575
1	93	6	259	1	396	7	582
11	94	1	270	8	397	1	900
1	101	1	279	1	420	27	999
9	102	1	285	2	430		
1	106	2	299	2	449		
1	111	2	300	1	459		

F33MCD1:
1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33MND1 ---------- NUMBER DAYS

type: numeric (float)

range: [1,99] units: 1
unique values: 44 coded missing: 988 / 2686

mean: 6.50707
std. dev: 9.91574

percentiles:	10%	25%	50%	75%	90%
	2	3	5	7	10

F33MND1:
1. Not collected on version 09/30/80.

F33MCD2 ---------- MEDICATION CODE

type: numeric (float)

range: [0,999] units: 1

unique values: 130 coded missing: 970 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
1	0	1	156	1	324	1	457
1	3	2	159	1	327	5	462
1	5	1	161	6	328	3	463
8	6	4	164	2	329	175	480
3	7	1	170	2	331	45	481
1	11	1	171	1	336	4	484
1	12	1	180	37	337	2	503
1	20	4	190	1	338	2	506
18	21	4	191	1	339	1	509
103	25	3	192	2	341	2	512
5	26	3	196	21	344	2	516
398	28	1	227	6	361	7	519
1	31	14	230	1	363	1	522
3	44	196	231	4	367	5	530
1	46	1	237	1	368	1	537
2	48	1	247	68	369	2	539
3	56	2	248	77	370	43	541
2	59	50	249	45	371	1	547
2	67	1	253	6	374	20	554
2	76	24	259	6	375	18	562
5	92	1	269	5	382	2	563
6	94	1	270	1	391	1	564
3	95	1	276	14	397	1	567
1	96	4	279	1	410	2	575
1	99	2	280	1	414	2	582
44	102	1	281	3	420	1	800
3	103	2	286	2	429	1	811
6	106	1	287	1	430	1	900
2	122	5	298	6	434	1	990
2	125	5	299	1	435	2	998
15	126	3	304	3	443	38	999
4	130	3	306	1	444		
1	152	1	315	1	452		

F33MCD2:

1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33MND2 ---------- NUMBER DAYS

type:	numeric (float)		
range:	[1,99]	units:	1
unique values:	37	coded missing:	948 / 2686
mean:	6.16398		
std. dev:	10.0588		

percentiles:	10%	25%	50%	75%	90%
	2	3	4	7	10

F33MND2:
1. Not collected on version 09/30/80.

F33MCD3 ---------- MEDICATION CODE

type: numeric (float)

range: [0,999] units: 1

unique values: 139 coded missing: 1347 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
1	0	1	159	1	292	3	434
1	2	1	160	5	296	1	435
9	3	1	171	2	297	1	437
9	6	8	190	2	298	1	443
6	7	11	191	3	300	2	444
1	11	5	192	20	306	1	449
1	14	3	196	1	327	5	463
10	20	1	204	5	328	239	480
17	21	1	207	3	329	78	481
80	25	1	214	44	337	5	484
4	26	2	217	2	338	1	503
57	28	2	222	3	341	1	505
12	44	3	227	1	342	2	512
2	48	6	230	8	344	1	513
3	56	78	231	1	354	4	515
7	59	3	239	1	360	7	516
2	67	2	240	15	361	2	517
3	76	1	245	5	367	39	519
1	77	3	248	11	369	1	522
1	78	115	249	9	370	2	530
1	85	23	259	29	371	1	537
6	92	1	265	1	372	17	541
4	94	1	267	12	374	1	550
1	101	2	270	6	375	22	554
33	102	3	275	10	382	1	557
3	106	1	277	3	391	2	559
1	112	1	278	1	396	1	561
2	122	7	279	4	397	10	562
1	125	1	280	1	408	5	563
37	126	1	284	1	410	2	564
3	128	1	285	1	414	1	570
1	129	1	286	2	417	1	575
6	130	1	287	9	420	1	826
3	137	1	289	1	421	30	999
1	156	1	290	1	422		

F33MCD3:

1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33MND3 ---------- NUMBER DAYS

type:	numeric (float)		
range:	[1,99]	units:	1
unique values:	37	coded missing:	1319 / 2686
mean:	6.96928		
std. dev:	14.1363		

percentiles:	10%	25%	50%	75%	90%
	1	2	4	7	10

F33MND3:
1. Not collected on version 09/30/80.

F33HMCD1 ---------- HOME MEDICATION CODE

type: numeric (float)

range: [0,999] units: 1
unique values: 88 coded missing: 1518 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
1	0	2	160	2	287	1	429
1	6	1	169	9	298	2	430
2	7	41	171	1	304	1	434
1	14	1	181	1	306	1	448
1	20	3	190	1	325	4	462
5	21	6	191	2	328	1	463
263	25	2	192	1	334	7	480
11	26	1	196	3	338	27	481
218	28	1	211	1	344	1	487
1	31	19	230	4	361	1	496
1	33	166	231	10	367	2	512
1	36	1	232	19	369	2	515
4	56	1	238	3	370	4	516
1	69	24	249	96	371	1	519
3	78	1	250	2	374	2	530
2	94	1	253	8	375	1	541
1	95	1	254	1	381	1	550
1	96	3	278	2	391	80	554
6	102	1	279	2	396	4	559
4	106	1	281	2	397	9	562
3	125	1	284	1	414	1	564
1	152	1	285	1	422	32	999

F33HMCD1:
1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33HMND1 ---------- HOME NUMBER DAYS

type: numeric (float)

range: [0,99] units: 1
unique values: 27 coded missing: 1542 / 2686

mean: 15.3313
std. dev: 25.9573

percentiles:	10%	25%	50%	75%	90%
	4	5	7	10	21

F33HMND1:
1. Not collected on version 09/30/80.

F33HMCD2 ---------- HOME MEDICATION CODE

type: numeric (float)

range: [3,999] units: 1
unique values: 96 coded missing: 1926 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value	Freq.	Value
1	3	5	157	2	296	1	436
1	6	1	159	5	298	1	443
2	7	3	181	1	304	2	449
1	17	3	190	2	306	1	462
5	20	7	191	1	315	4	463
8	21	2	192	3	328	1	471
2	22	1	196	1	335	14	480
1	23	1	204	6	338	56	481
1	24	2	217	1	341	2	484
78	25	4	230	1	342	1	489
4	26	71	231	1	344	2	507
77	28	3	239	1	349	1	512
1	34	1	240	1	355	5	515
6	56	1	241	1	361	5	516
3	59	2	248	10	367	2	519
1	74	141	249	10	369	3	522
2	103	1	265	6	370	1	534
1	104	1	276	41	371	2	537
1	106	1	277	12	374	1	545
2	108	1	280	14	375	20	554
1	125	1	285	2	410	2	559
6	126	1	287	1	417	1	562
2	152	1	290	2	430	1	578
1	153	1	292	8	434	34	999

F33HMCD2:
1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33HMND2 ---------- HOME NUMBER DAYS

type: numeric (float)

range: [0,99] units: 1
unique values: 27 coded missing: 1964 / 2686

mean: 33.3573
std. dev: 39.7859

percentiles:	10%	25%	50%	75%	90%
	4	6	10	98	99

F33HMND2:
1. Not collected on version 09/30/80.

F33HMCD3 ---------- HOME MEDICATION CODE

type: numeric (float)

range: [3,999] units: 1
unique values: 72 coded missing: 2375 / 2686

tabulation:

Freq.	Value	Freq.	Value	Freq.	Value
1	3	1	222	1	417
1	7	1	227	1	422
1	11	13	231	2	429
1	20	3	239	2	434
2	25	1	247	1	449
2	28	2	248	2	452
1	32	100	249	7	463
1	33	4	275	1	471
2	44	1	286	1	476
1	48	1	287	14	480
1	52	1	298	36	481
2	59	2	328	1	491
1	62	1	335	1	497
1	123	1	341	1	509
6	126	3	367	1	512
1	127	2	369	7	515
1	152	1	370	2	516
6	156	11	371	3	519
3	159	1	372	1	522
1	171	6	374	1	537
3	190	6	375	1	554
2	191	1	408	1	564
4	192	1	410	1	572
1	197	2	413	10	999

F33HMCD3:
1. See Appendix D - CODED DRUG LIST.
2. Not collected on version 09/30/80.

F33HMND3 ---------- HOME NUMBER DAYS

type: numeric (float)

range: [1,99] units: 1
unique values: 22 coded missing: 2396 / 2686

mean: 63.2034
std. dev: 42.9603

percentiles:	10%	25%	50%	75%	90%
	5	10	98	99	99

F33HMND3:
1. Not collected on version 09/30/80.

F33COMP ---------- COMPLICATIONS FROM TREATMENT

type:	numeric (float)		
label:	F33COMP		
range:	[1,3]	units:	1
unique values:	3	coded missing:	898 / 2686

tabulation:

Freq.	Numeric	Label
1725	1	NO
53	2	YES
10	3	

F33COMP:
1. Not collected on version 09/30/80.

F33INBED ---------- # OF DAYS STAYED IN BED

type:	numeric (float)		
label:	F33INBED		
range:	[-2,99]	units:	1
unique values:	38	coded missing:	947 / 2686

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
206	-2	NA	11	18	
1	0		4	19	
59	1		13	20	
126	2		5	21	
175	3		8	22	
181	4		12	24	
193	5		3	25	
126	6		5	26	
134	7		9	28	
90	8		2	29	
49	9		2	30	
133	10		5	32	
29	11		2	35	
46	12		1	41	
11	13		1	44	
41	14		1	45	
30	15		2	49	
8	16		1	77	
11	17		3	99	

F33INBED:
1. Not collected on version 09/30/80.

F33MSWRK ---------- # OF DAYS MISSED SCHOOL OR WORK

type: numeric (float)
label: F33MSWRK

range: [-3,99] units: 1
unique values: 37 coded missing: 938 / 2686

tabulation:

Freq.	Numeric	Label	Freq.	Numeric	Label
114	-3	NO	8	18	
853	-2	NA	1	19	
8	1		17	20	
8	2		10	21	
23	3		2	23	
21	4		7	24	
103	5		4	25	
44	6		4	27	
85	7		1	28	
52	8		3	30	
42	9		2	34	
160	10		4	35	
26	11		1	36	
37	12		1	37	
8	13		2	44	
34	14		1	55	
41	15		2	75	
8	16		2	99	
9	17				

F33MSWRK:
1. Not collected on version 09/30/80.

F33PNORG ---------- PNEUMONIA ORGANISM

type: numeric (float)

range: [10,9999] units: 1

unique values: 23 coded missing: 2574 / 2686

tabulation:

Freq.	Value
1	10
1	12
2	14
1	100
16	110
1	111
1	120
3	140
32	170
3	401
1	409
3	481
1	485
7	486
11	1200
1	1300
2	4850
8	5120
1	5130
1	6200
1	6890
2	9000
12	9999

F33PNORG:

1. See Appendix H - PATHOGEN LIST.
2. Not collected on version 09/30/80.

F33DIAG1 ---------- ICDA CODE OF FINAL DIAGNOSIS

type: numeric (float)

range: [1.7,997.03] units: .01

unique values: 51 coded missing: 1027 / 2686

tabulation:

Freq.	Value	Freq.	Value
1	1.7	3	482.2
1	38.09	1	482.3
1	38.2	1	482.4
1	79.9	1	482.8
1	93.96	17	483
1	93.99	3	483.7
4	99.01	36	485
1	135	1425	486
3	282.6	1	486.6
8	282.62	1	487
4	382.9	1	490
1	401	4	493.9
1	415	11	511.9
2	415.01	1	518
52	415.1	5	518.3
1	436	1	518.8
1	448.5	1	519.1
3	465.9	1	548.5
1	466	3	780.6
1	474.1	1	786
6	476	2	786.09
1	480.6	1	786.52
1	480.8	1	790.7
7	480.9	1	989.99
27	481	1	997.03
4	481.1		

F33DIAG1:

1. See ICD-9 codebook for diagnosis codes.
2. Not collected on version 09/30/80.

F33DIAG2 ---------- ICDA CODE OF FINAL DIAGNOSIS

type: numeric (float)

range: [3.31,984.9] units: .01
unique values: 52 coded missing: 2442 / 2686

tabulation:

Freq.	Value	Freq.	Value
1	3.31	60	415.1
1	11.9	1	428
1	28.3	1	451.19
1	34.1	1	451.2
3	38.2	1	451.9
1	38.41	3	463
3	38.9	1	465.9
1	52.9	2	481
1	73.59	2	485
3	79.9	4	486
1	92.15	10	493.9
1	99.04	19	511.9
2	277	3	518
1	282.06	1	518.3
9	282.6	2	519.1
9	282.61	1	519.8
68	282.62	1	560.1
1	282.64	1	575
1	282.65	1	686.9
1	284.9	1	733.4
1	286.62	2	780.6
2	336.1	1	786
1	381.1	1	789
4	382.9	1	790.7
1	415	1	958.1
2	415.01	1	984.9

F33DIAG2:

1. See ICD-9 codebook for diagnosis codes.
2. Not collected on version 09/30/80.

F33DIAG3 ---------- ICDA CODE OF FINAL DIAGNOSIS

type: numeric (float)

range: [3.31,999.8] units: .01

unique values: 22 coded missing: 2638 / 2686

tabulation:

Freq.	Value
1	3.31
1	3.8
1	34.91
1	93.99
1	135.7
9	282.6
4	282.61
12	282.62
1	284.9
2	285.9
1	415.1
2	429.3
1	511.9
1	574.2
1	614.9
1	673.1
2	696.1
1	730
1	780.3
1	790.5
1	812.2
2	999.8

F33DIAG3:

1. See ICD-9 codebook for diagnosis codes.
2. Not collected on version 09/30/80.

F33DIAG4 ---------- ICDA CODE OF FINAL DIAGNOSIS

type: numeric (float)

range: [3.31,999.8] units: .01

unique values: 59 coded missing: 2463 / 2686

tabulation:

Freq.	Value
1	3.31
1	8
1	34.91
1	38.2
1	38.41
1	52.9
1	82.62
1	92.15
4	99.04
1	112.9
1	135
1	203.24
1	262.82
2	282.04
9	282.6
12	282.61
74	282.62
7	282.66
1	283.9
1	284.9
1	285.9
1	289.03
1	289.3
1	340
1	349.9
10	382.9
5	402.91
2	415
3	415.1
1	427.5
1	583.6
2	599
1	682.6
1	692.9
1	730.12
1	733.9
3	780.6
1	782.4
1	784
1	786.3
1	865.04
1	958.7
1	999.8

Freq.	Value
4	428
1	428.1
2	465
12	465.9
1	466.9
1	473.9
2	480.6
2	485
1	486
5	493.9
19	511.9
1	517.8
3	518.8
1	564
2	574
2	574.2

```
F33DIAG4:
  1.  See ICD-9 codebook for diagnosis codes.
  2.  Not collected on version 09/30/80.




_dta:
  1.  Created 06/08/00.
```

List of variables deleted **F63DATE**

A. List of variables modified **NONE**

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

C. Old name

D. New name

E. List of variables modified date to days since DOE

F. Old name **F63DATE**

G. New name **JF63DATE**

H. Collection Information:

In order to facilitate calculation of acute chest syndrome (ACS) event rates throughout the entire first phase of CSSCD, information from all event form sources that collected ACS data was combined in a single dataset (**R63.SD2**). "Form" 63 is designated as the "form" source for the data in this dataset.

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

Source of Data	Time Period Used
Form 32: Acute Chest Syndrome	03/79 – 12/86
Form 32E: Acute Chest Syndrome Form II	07/85 – 12/86
Form 48: Acute Febrile Illness (if chest x-ray positive for infiltrate)	03/79 – 12/86
Form 53: Comprehensive Special Event Form for Patients Entered at < 6 Months of Age	01/87 – 09/88

J. Form Version Dates:

Form 32: 03/01/79, 05/02/79, 09/25/80, 03/17/82

Form 32E: 06/19/85

Form 48: 03/01/79, 10/10/80

Form 53: 11/20/86

K. File Used to Store Information:

SAS System File: **R63.SD2**

Format File: **R63.FMT**

L. Unique Record Identifiers: **ANONID**, **F63DATE**

Records within the dataset are sorted by **ANONID** and **F63DATE**.

M. Number of Observations (Patients) in SAS Dataset: 2,327 (1,169)

N. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See p. 298
- Listing of Variables by Position: See p. 299

O. Notes About Selected Variables:

- **F63INFIL** – By definition, the value should be 2 (yes) for this variable (lung infiltrate) for all events in this dataset. However, an infiltrate was not documented on forms submitted for 141 events in the dataset (response missing for 11 and 1 (no) for 130).

P. Computed Variables:

- **F63DHOSP** – is the variable name for number of days hospitalized. If the data source (**F63FORM**) was Form 32, the value was computed as described in Section 7.2.1 for **F32DHOSP**

Q. Inter-relationship with Other Datasets:

Additional details about acute chest syndrome events reported on From 32 (**F63FORM**=32) are stored in **R32.SD2** (See Section 7.2.1). Additional information about ACS events reported on Form 32E (**F63FORM**=43) are stored in **R43.SD2** (See Section 7.2.2). Other data from ACS events reported on Form 53 (**F63FORM**=53) are stored in **R53.SD2** (See Section 7.9). If one of the ACS forms was not filled out but x-ray results reported on Form 48 (**F63FORM**=48) were positive for an infiltrate, additional information about the event is stored in **R48.SD2** (See Section 7.7.1).

In summary, an ACS event record is included in the ACS summary dataset **R63.SD2** if:

1. a Form 32 was completed, or
2. a Form 32E was completed, or
3. chest x-ray results on Form 48 were positive for an infiltrate, or
4. ACS was checked as the reason for completion of Form 53, or
5. Chest x-ray results on Form 53 were positive for an infiltrate.

CONTENTS OF SAS DATASET: R63.SD2
DATA FROM CSSCD "FORM" 63 - ACUTE CHEST SYNDROME SUMMAR
INCLUDES EVENTS REPORTED BETWEEN 3/79 AND 9/88
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
The SAS System 10:44 Thursday, December 7, 2006 8

The CONTENTS Procedure

Data Set Name	OUT1.R63	Observations	2327
Member Type	DATA	Variables	11
Engine	V9	Indexes	0
Created	11:34 Thursday, November 30, 2006	Observation Length	88
Last Modified	11:34 Thursday, November 30, 2006	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	8192
Number of Data Set Pages	26
First Data Page	1
Max Obs per Page	92
Obs in First Data Page	65
Number of Data Set Repairs	0
File Name	r63.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 #
9	F63CULTR	Num	8	BLOOD CULTURE RESULTS
3	F63DHOSP	Num	8	NUMBER OF DAYS HOSPITALIZED
4	F63FORM	Num	8	WHICH FORM WAS FILLED OUT
2	F63HOSP	Num	8	HOSPITALIZED
5	F63INFIL	Num	8	LUNG INFILTRATE
7	F63INFST	Num	8	INFILTRATE SITE; BINARY CODED
8	F63LOBEN	Num	8	NO. OF INVOLVED LOBES
10	F63ORG	Num	8	ORGANISM CULTURED IN BLOOD
6	F63SRCIN	Num	8	SOURCE OF INFILTRATE INFORMATION
11	JF63DATE	Num	8	DATE FIRST SOUGHT CARE - RECODE DAYS SINCE DOE

```
*************************************************************************
* R63.FMT contains value labels for numerical codes assigned to categorical*
* variables in the SAS dataset R63.SD2                                  *
*************************************************************************;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD    04/11/00;

PROC FORMAT PRINT;


*  FORMAT NO_YES used for the following variables: F63HOSP F63INFIL;

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


  VALUE F63SRCIN
    1               = 'X-RAY 32'
    2               = 'SCAN 32'
    3               = 'X-RAY 33'
    4               = 'X-RAY 43'
    5               = 'X-RAY 53'
    6               = 'X-RAY 48';


  VALUE F63INFST
    0               = 'NOT GIVEN (0)'
    1               = 'L. UPPER (1)'
    2               = 'L. LINGULA (2)'
    4               = 'L. LOWER (4)'
    8               = 'R. UPPER (8)'
    16              = 'R. MIDDLE (16)'
    32              = 'R. LOWER (32)'
    64              = 'NONE (64)';


  VALUE F63CULTR
    1               = 'NEGATIVE'
    2               = 'POSITIVE';
```

F63HOSP ---------- HOSPITALIZED

```
                 type:  numeric (float)
                label:  F63HOSP

                range:  [1,2]                        units:  1
        unique values:  2                    coded missing:  11 / 2327

           tabulation:  Freq.   Numeric  Label
                          97         1  NO
                        2219         2  YES


F63DHOSP ------------------------------------------- NUMBER OF DAYS HOSPITALIZED
                 type:  numeric (float)

                range:  [0,73]                       units:  1
        unique values:  42                   coded missing:  109 / 2327

                 mean:   6.91794
            std. dev:   5.16525

          percentiles:        10%       25%       50%       75%       90%
                               3         4         6         9        12



F63FORM ------------------------------------------------ WHICH FORM WAS FILLED OUT
                 type:  numeric (float)

                range:  [32,53]                      units:  1
        unique values:  4                    coded missing:  0 / 2327

           tabulation:  Freq.  Value
                        1919  32
                         214  43
                          15  48
                         179  53

F63FORM:
  1.  See Appendix N - LIST OF CSSCD FORMS.


F63INFIL ----------------------------------------------------- LUNG INFILTRATE
                 type:  numeric (float)
                label:  F63INFIL

                range:  [1,2]                        units:  1
        unique values:  2                    coded missing:  11 / 2327

           tabulation:  Freq.   Numeric  Label
                         130         1  NO
                        2186         2  YES
```

F63SRCIN ---------- SOURCE OF INFILTRATE INFORMATION

type:	numeric (float)
label:	F63SRCIN
range:	[1,6]
units:	1
unique values:	6
coded missing:	9 / 2327

tabulation:

Freq.	Numeric	Label
1867	1	X-RAY 32
7	2	SCAN 32
44	3	X-RAY 33
208	4	X-RAY 43
177	5	X-RAY 53
15	6	X-RAY 48

F63SRCIN:
1. Required only if F63INFIL≥1.

F63INFST ---------- INFILTRATE SITE; BINARY CODED

type: numeric (float)
label: F63INFST

range: [0,64] units: 1
unique values: 49 coded missing: 409 / 2327

tabulation:

Freq.	Numeric	Label
6	0	NOT GIVEN (0)
63	1	L. UPPER (1)
29	2	L. LINGULA (2)
6	3	
482	4	L. LOWER (4)
13	5	
16	6	
5	7	
123	8	R. UPPER (8)
13	9	
3	10	
17	12	
1	13	
177	16	R. MIDDLE (16)
5	17	
8	18	
29	20	
2	21	
2	22	
24	24	
2	25	
1	27	
9	28	
1	31	
373	32	R. LOWER (32)
Freq.	Numeric	Label
3	33	
6	34	
1	35	
238	36	
2	37	
8	38	
2	39	
14	40	
8	44	
1	45	
1	46	
67	48	
2	49	
2	50	
17	52	
1	53	
6	54	
1	55	
7	56	
4	60	
2	61	

1	62	
7	63	
107	64	NONE (64)

F63INFST:
1. Binary coded variable. See Part II for explanation of binary coded variables.
2. Required only if 1≤F63SRCIN≤3.

F63LOBEN ---------- NO. OF INVOLVED LOBES

type:	numeric (float)		
range:	[1,6]	units:	1
unique values:	6	coded missing:	336 / 2327

tabulation:

Freq.	Value
1371	1
520	2
72	3
16	4
5	5
7	6

F63LOBEN:
1. Required only if F63SRCIN = 1 or 3 or 4.

F63CULTR ---------- BLOOD CULTURE RESULTS

type:	numeric (float)		
label:	F63CULTR		
range:	[1,2]	units:	1
unique values:	2	coded missing:	35 / 2327

tabulation:

Freq.	Numeric	Label
2209	1	NEGATIVE
83	2	POSITIVE

F63ORG ---------- ORGANISM CULTURED IN BLOOD

type:	numeric (float)		
range:	[110,9000]	units:	1
unique values:	19	coded missing:	2244 / 2327

tabulation:

Freq.	Value
5	110
3	130
1	160
43	170
1	202
1	203
5	401
2	404
2	405
1	410
1	411
1	412
1	800
10	1200
1	1300
1	2100
1	3100
1	6810
2	9000

F63ORG:
1. See Appendix H - PATHOGEN LIST.
2. Required only if F63CULTR=2.

_dta:

1. Created 05/12/00.