

CODEBOOK FOR CSSCD FORM 94
PULMONARY FUNCTION TEST REPORT FORM
CSSCD FULL COHORT PATIENTS

CONTENTS OF SAS DATASET: R94.SD2

DATA FROM CSSCD FORM 94 - PULMONARY FUNCTION TEST (PFT) REPORT FORM
VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
IN THE SAS DATASET AND ON FORM 94

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The CONTENTS Procedure

Data Set Name	OUT1.R94	Observations	1029
Member Type	DATA	Variables	24
Engine	V9	Indexes	0
Created	15:31 Wednesday, October 25, 2006	Observation Length	192
Last Modified	15:31 Wednesday, October 25, 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	13
First Data Page	1
Max Obs per Page	85
Obs in First Data Page	65
Number of Data Set Repairs	0
File Name	r94.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 #
21	F94BTMP	Num	8	TEMPERATURE WHEN BLOOD DRAWN
14	F94DCCO	Num	8	DIFFUSING CAPACITY CO
15	F94DCHB	Num	8	SINGLE BREATH DIFFUSING HEMOGLOBIN
8	F94FEF	Num	8	FEF 25-75%
7	F94FEF25	Num	8	FORCED EXPIRATORY RTE 25%
6	F94FEF50	Num	8	FORCED EXPIRATORY RATE 50%
5	F94FEFP	Num	8	FORCED EXPIRATORY PEAK FLOW RATE
3	F94FEV	Num	8	FORCED EXPIRATORY VOLUME
4	F94FEVVC	Num	8	FEV FVC
10	F94FRESC	Num	8	FUNCTIONAL RESIDUAL CAPACITY
2	F94FVC	Num	8	FORCED VITAL CPACITY
13	F94LVMS	Num	8	PULMONARY MEASUREMENT SOURCE
19	F94PCO2	Num	8	BLOOD GASES PCO2
20	F94PH	Num	8	BLOOD GASES PH
18	F94PO2	Num	8	BLOOD GASES PO2
11	F94RESVL	Num	8	RESIDUAL VOLUME
12	F94RV TLC	Num	8	RV RLC
17	F94SBRV	Num	8	SINGLE BREATH RESIDUAL VOLUME

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16	F94SBTLC	Num	8	SINGLE BREATH TLC
9	F94TLNGC	Num	8	TOTAL LUNG CAPACITY
23	F94VARAA	Num	8	VARIABLE NOT DEFINED
22	F94WHY	Num	8	PFT PROTOCOL
24	J94PFTDT	Num	8	DATE OF PULMONARY FUNCTION TEST - RECODE DAYS SINCE

DOE

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```
*****  
*****  
* R94.FMT contains value labels for numerical codes assigned to  
categorical *  
* variables in the SAS dataset R94.SD2  
*  
*****  
*****;
```

```
* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 10/27/99 14:42:19;
```

```
PROC FORMAT;
```

```
VALUE F94LVMS  
1 = '7-MINUTE HELIUM'  
2 = 'PLETHYSMOGRAPHY';
```

```
VALUE F94WHY  
1 = 'REPEAT'  
2 = 'EXTENSION'  
3 = 'REP-EXT'  
4 = 'CARDIAC'  
5 = 'REP-CARD'  
6 = 'EXT-CARD'  
7 = 'REP-EXT-CARD'  
8 = 'INITIAL';
```

```
* FORMAT MDDYY8.  
F94LVMS F94LVMS.  
F94WHY F94WHY.;
```

```
run;  
quit;
```

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CSSCD FULL COHORT PATIENTS

F94VDATE ----- VERSION DATE **DELETED**

type: numeric (int)
label: datelab

range: [8629,8629] units: 1
unique values: 1 coded missing: 391 / 1029

tabulation: Freq. Numeric Label
638 8629 08/17/83

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F94FVC ----- FORCED VITAL CPACITY

type: numeric (float)
range: [.97,5.44] units: .01
unique values: 307 coded missing: 124 / 1029
mean: 2.74105
std. dev: .850618
percentiles: 10% 25% 50% 75% 90%
1.71 2.11 2.67 3.22 3.97

F94FEV ----- FORCED EXPIRATORY VOLUME

type: numeric (float)
range: [.54,4.7] units: .01
unique values: 265 coded missing: 133 / 1029
mean: 2.32282
std. dev: .690017
percentiles: 10% 25% 50% 75% 90%
1.49 1.81 2.27 2.74 3.26

F94FEVVC ----- FEV|FVC

type: numeric (float)
range: [0,99.9] units: .1
unique values: 141 coded missing: 134 / 1029
mean: 84.9623
std. dev: 9.47098
percentiles: 10% 25% 50% 75% 90%
76.7 81 86 90 94

F94FEFP ----- FORCED EXPIRATORY PEAK FLOW RATE

type: numeric (float)
range: [1.38,77.03] units: .01
unique values: 436 coded missing: 295 / 1029
mean: 6.21783
std. dev: 5.88254
percentiles: 10% 25% 50% 75% 90%
3.29 4.1 5.455 6.87 8.6

6.8.1: Pulmonary Function Test Report Form – Form 94

F94FEF50 ----- FORCED EXPIRATORY RATE 50%

type: numeric (float)
range: [.22,7.83] units: .01
unique values: 342 coded missing: 375 / 1029
mean: 3.32142
std. dev: 1.26896
percentiles: 10% 25% 50% 75% 90%
1.82 2.4 3.2 4.07 5.01

F94FEF25 ----- FORCED EXPIRATORY RTE 25%

type: numeric (float)
range: [.07,9.7] units: .01
unique values: 282 coded missing: 466 / 1029
mean: 2.17902
std. dev: 1.76318
percentiles: 10% 25% 50% 75% 90%
.8 1.04 1.5 2.48 4.96

F94FEF ----- FEF 25-75%

type: numeric (float)
range: [.15,8.48] units: .01
unique values: 363 coded missing: 208 / 1029
mean: 2.94163
std. dev: 1.15925
percentiles: 10% 25% 50% 75% 90%
1.67 2.12 2.78 3.58 4.43

F94TLNGC ----- TOTAL LUNG CAPACITY

type: numeric (float)
range: [.41,8.24] units: .01
unique values: 358 coded missing: 246 / 1029
mean: 3.82625
std. dev: 1.18681
percentiles: 10% 25% 50% 75% 90%
2.41 2.97 3.68 4.56 5.4

6.8.1: Pulmonary Function Test Report Form – Form 94

F94FRESC ----- FUNCTIONAL RESIDUAL CAPACITY

type: numeric (float)
range: [.09,5.54] units: .01
unique values: 255 coded missing: 252 / 1029
mean: 1.94575
std. dev: .720167
percentiles: 10% 25% 50% 75% 90%
1.12 1.43 1.88 2.35 2.82

F94RESVL ----- RESIDUAL VOLUME

type: numeric (float)
range: [0,7.76] units: .01
unique values: 200 coded missing: 245 / 1029
mean: 1.09024
std. dev: .723942
percentiles: 10% 25% 50% 75% 90%
.5 .695 .97 1.32 1.67

F94RV TLC ----- RV|RLC

type: numeric (float)
range: [0,70] units: .1
unique values: 144 coded missing: 248 / 1029
mean: 26.9348
std. dev: 9.27985
percentiles: 10% 25% 50% 75% 90%
17 21 26 32 38.1

F94LVMS ----- PULMONARY MEASUREMENT SOURCE

type: numeric (float)
label: F94LVMS
range: [1,2] units: 1
unique values: 2 coded missing: 619 / 1029

tabulation:	Freq.	Numeric	Label
	239	1	7-MINUTE HELIUM
	171	2	PLETHYSMOGRAPHY

6.8.1: Pulmonary Function Test Report Form – Form 94

F94DCCO ----- DIFFUSING CAPACITY CO

type: numeric (float)

range: [1.3,91] units: .1
unique values: 255 coded missing: 399 / 1029

mean: 20.1884
std. dev: 8.43376

percentiles: 10% 25% 50% 75% 90%
 12 14.8 18.8 23.8 30.65

F94DCHB ----- SINGLE BREATH DIFFUSING HEMOGLOBIN

type: numeric (float)

range: [1,70.5] units: .1
unique values: 66 coded missing: 869 / 1029

mean: 9.57125
std. dev: 5.32778

percentiles: 10% 25% 50% 75% 90%
 6.85 7.6 8.7 10.5 12.4

F94SBTLC ----- SINGLE BREATH TLC

type: numeric (float)

range: [0,7.03] units: .01
unique values: 127 coded missing: 873 / 1029

mean: 3.76231
std. dev: 1.04645

percentiles: 10% 25% 50% 75% 90%
 2.58 3.065 3.73 4.435 5.14

F94SBRV ----- SINGLE BREATH RESIDUAL VOLUME

type: numeric (float)

range: [.23,2.66] units: .01
unique values: 46 coded missing: 971 / 1029

mean: .986379
std. dev: .411338

percentiles: 10% 25% 50% 75% 90%
 .5 .72 .955 1.25 1.48

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F94P02 ----- BLOOD GASES P02

type: numeric (float)
range: [3,99] units: 1
unique values: 50 coded missing: 627 / 1029
mean: 72.6095
std. dev: 26.9371
percentiles: 10% 25% 50% 75% 90%
8 74 81 87 94

F94P02:

1. Columns changed from 1 to 2 on 01/10/84.

F94PC02 ----- BLOOD GASES PC02

type: numeric (float)
range: [2,93] units: 1
unique values: 38 coded missing: 622 / 1029
mean: 36.8403
std. dev: 12.2008
percentiles: 10% 25% 50% 75% 90%
30 33 36 39 43

F94PH ----- BLOOD GASES PH

type: numeric (float)
range: [.01,7.49] units: .01
unique values: 32 coded missing: 589 / 1029
mean: 6.72534
std. dev: 2.12649
percentiles: 10% 25% 50% 75% 90%
7.315 7.39 7.41 7.43 7.45

F94BTMP ----- TEMPERATURE WHEN BLOOD DRAWN

type: numeric (float)
range: [1,99.6] units: .1
unique values: 48 coded missing: 801 / 1029
mean: 42.6447
std. dev: 27.6962
percentiles: 10% 25% 50% 75% 90%
6 36.7 37.2 43.4 98.6

_dta:

6.8.1: Pulmonary Function Test Report Form – Form 94

1. Created 11/1/99.

A. List of variables deleted F96DATE F96INIT F96NDATE F96LASTU F96LASTE
F96ESTAT F96VDATE F96DFC F96FCB F96PFT

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 F96PFT

H. New name JF96PFT

I. Collection Information:

Form 94E (Pulmonary Function Test Report Form (Extension)) is a questionnaire which was to be completed for selected patients who had PFT abnormalities identified by the CSSCD pulmonology consultants who reviewed the PFT data (See Section 6.8.1) but had no other data indicating significant evidence of pulmonary disease.

J. Data Collection Period: 06/86 – 01/88

K. Form Version Dates: 06/05/86

L. Files Used to Store Information:

SAS System Files: R96.SD2

Format Files: R96.FMT

M. Unique Record Identifiers: ANONID, F96DATE

Records within the dataset are sorted by ANONID and F96DATE

N. Number of Observations (Patients) in SAS Dataset: 100 (99)

O. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 1-2
- Listing of Variables by Position: See p. 3

P. Notes About Selected Variables: None

Q. Computed Variables: None

6.8.1: Pulmonary Function Test Report Form – Form 94

R. Inter-Relationship With Other Datasets:

Data relevant to pulmonary function were also collected on

Phase 1 Forms	SAS Dataset	See Section
Form 94	R94.SD2	6.8.1
Form 98	R98.SD2	6.9.1
Form 99	R99.SD2	6.9.2
	R97.SD2	6.9.3
Form 32	R32.SD2	7.2.1
Form 32E	R43.SD2	7.2.2
--	R63.SD2	7.2.4
Form 26	R20.SD2	10.1
"Roster"	R09.SD2	1.0 (variables: PFTSTAT, CARDSTAT)

The SAS System

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The CONTENTS Procedure

Data Set Name	OUT1.R96	Observations	100
Member Type	DATA	Variables	25
Engine	V9	Indexes	0
Created	15:44 Wednesday, October 25, 2006	Observation Length	200
Last Modified	15:44 Wednesday, October 25, 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	2
First Data Page	1
Max Obs per Page	81
Obs in First Data Page	61
Number of Data Set Repairs	0
File Name	r96.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 #
7	F96ACHSY	Num	8	ACUTE CHEST SYNDROME
6	F96ASTHM	Num	8	ASTHMA
4	F96BRON	Num	8	BRONCHIECTASIS
3	F96CHRBR	Num	8	CHRONIC BRONCHITIS
14	F96CSM	Num	8	DOES PATIENT CURRENTLY SMOKE?
16	F96CSMPD	Num	8	SMOKING HOW MANY PER DAY CURRENTLY?
17	F96CSMPK	Num	8	UNIT USED FOR HOW MANY SMOKED

6.8.1: Pulmonary Function Test Report Form – Form 94

15	F96CSMW	Num	8	WHAT DOES PATIENT CURRENTLY SMOKE?
18	F96CSMYR	Num	8	HAS SMOKED FOR HOW MANY YEARS?
5	F96CYSFI	Num	8	BRONCHIECTASIS WITH CYSTIC FIBROSIS
12	F96EMPHY	Num	8	EMPHYSEMA
8	F96EPISO	Num	8	NUMBER OF ACUTE CHEST EPISODES
10	F96HISTO	Num	8	HISTOPLASMOSIS
2	F96JOB	Num	8	CURRENT OR PRIMARY OCCUPATION
13	F96OTHER	Num	8	OTHER PULMONARY PROBLEM
19	F96PSM	Num	8	DID PATIENT SMOKE IN PAST?
21	F96PSMPD	Num	8	SMOKED HOW MANY PER DAY IN PAST?
22	F96PSMPK	Num	8	UNIT USED FOR HOW MANY SMOKED IN PAST?
20	F96PSMW	Num	8	WHAT DID PATIENT SMOKE IN PAST?
23	F96PSMYR	Num	8	NO. OF YEARS PATIENT SMOKED IN PAST
24	F96PSMYS	Num	8	NO. OF YEARS SINCE PATIENT SMOKED
9	F96SARCO	Num	8	SARCOIDOSIS
11	F96TUBER	Num	8	TUBERCULOSIS
25	JF96PFT	Num	8	DATE OF PFT - RECODE DAYS SINCE DOE

* R96.fmt contains value labels for numerical codes assigned to categorical *

* variables in the SAS dataset R96.SD2

*

*****;

* SIR/DBMS 2.2 SAS PROC STEP FROM DATABASE: CSSCD 10/27/99 14:46:06;

PROC FORMAT;

VALUE F96JOB

10	=	'PROFESSIONAL, TECHNICAL'
11	=	'ACCOUNTANT'
19	=	'OTHER'
20	=	'MANAGERS, ADMINISTRATORS'
28	=	'MANAGER'
29	=	'MANAGER TRAINEE'
30	=	'CLERICAL'
31	=	'CLERICAL, UNSPECIFIED'
32	=	'TELEPHONE OPERATOR'
33	=	'SECRETARY'
34	=	'DATA ENTRY COMPUTER'
40	=	'OPERATIVE, NON-TRANSPORT'
48	=	'MECHANIC, AUTOMOBILE-RELATED'
49	=	'MECHANIC, UNSPECIFIED'
50	=	'OPERATIVE, TRANSPORT'
51	=	'BUS DRIVER'
60	=	'LABORERS'
61	=	'GENERAL LABORER'
70	=	'SERVICE WORKERS'
71	=	'CLEANING SERVICE WORKER'
72	=	'FOOD SERVICE WORKER'
73	=	'HEALTH SERVICE WORKER'

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74 = 'PROTECTIVE SERVICE WORKER'
90 = 'UNEMPLOYED'
96 = 'UNEMPLOYED-HOUSEWIFE'
97 = 'UNEMPLOYED-STUDENT'
98 = 'UNEMPLOYED-DISABLED'
99 = 'UNEMPLOYED-NO REASON GIVEN';

* FORMAT YN_DK IS DEFINED FOR VARIABLES: F96CHRBR F96BRON F96ASTHM
F96ACHSY F96SARCO F96HISTO
F96TUBER F96EMPHY F96OTHER;

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

* FORMAT Y_N IS DEFINED FOR VARIABLES: F96CYSFI F96CSM F96PSM;

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

* FORMAT CIG IS DEFINED FOR VARIABLES: F96CSMW F96PSMW;

VALUE CIG
1 = 'CIGARETTES'
2 = 'CIGARS'
4 = 'PIPE';

* FORMAT NUMB IS DEFINED FOR VARIABLES: F96CSMPK F96PSMPK;

VALUE NUMB
1 = 'ABSOLUTE NUMBER'
2 = 'PACKS'
3 = 'PIPEFULS'
4 = 'OTHER';

* FORMAT MMDDYY8.
F96JOB F96JOB.
F96CHRBR F96BRON F96ASTHM F96ACHSY F96SARCO
F96HISTO F96TUBER F96EMPHY F96OTHER YN_DK.
F96CYSFI F96CSM F96PSM Y_N.
F96CSMW F96PSMW CIG.
F96CSMPK F96PSMPK NUMB.;

RUN;
QUIT;

6.8.1: Pulmonary Function Test Report Form – Form 94

S. **Form** () was to be filled out Collection Information:

T.

U. Data Collection Period:

V. Form Version Dates:

W. Files Used to Store Information:

SAS System Files: **Rxx.SD2**

Format Files: **Rxx.FMT**

X. Unique Record Identifiers: **ANONID, F**

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

Y. Number of Observations (Patients) in SAS Dataset: xxx (xxx)

Z. Contents of SAS Datasets:

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

AA. Notes About Selected Variables:

BB. Computed Variables:

- **F** – is the variable name for

CC. Inter-Relationship With Other Datasets:

Phase 1 Forms	SAS Dataset	See Section
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DD. List of variables deleted **F94PFTDT F94INIT F94NDATE F94LASTU
F94LASTE F94ESTAT F94VDATE F94DFC F94FCB**

EE. List of variables modified **NONE**

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

GG. Old name

HH. New name

II. List of variables modified date to days since DOE

JJ. Old name **F94PFTDT**

KK. New name **J94PFTDT**

LL. Collection Information:

Form 94 (Pulmonary Function Test Report Form) was to be completed for the following groups of patients:

- patients 12 years of age at entry or patients who turned 12 before March 1983
- patients 20-22 years at entry or patients who turned 20 before March 1983
- patients 30-32 years of age at entry or patients who turned 30 before March 1983
- patients who participated in the cardiac study.

All pulmonary function study reports and forms were forwarded to CSSCD pulmonology consultants at either Howard University or Harlem Hospital for central review before data were entered on the database.

MM. Data Collection Period: 03/79 – 04/88

NN. Form Version Dates: 08/17/83

OO. Files Used to Store Information:

SAS System Files: **R94.SD2**

Format Files: **R94.FMT**

PP. Unique Record Identifiers: **ANONID, F94PFTDT**

Records within the dataset are sorted by **ANONID** and **F94PFTDT**

QQ. Number of Observations (Patients) in SAS Dataset: 1029 (995)

RR. Contents of SAS Dataset:

- Alphabetical Listing of Variables: See pp. 1-2

6.8.1: Pulmonary Function Test Report Form – Form 94

- Listing of Variables by Position: See p. 3

SS. Notes About Selected Variables:

Arterial blood gases were not required for patients < 20 years of age.

TT. Computed Variables: None

UU. Inter-Relationship With Other Datasets:

Data relevant to pulmonary function were also collected on

Phase 1 Forms	SAS Dataset	See Section
Form 94E	R96.SD2	6.8.2
Form 98	R98.SD2	6.9.1
Form 99	R99.SD2	6.9.2
	R97.SD2	6.9.3
Form 32	R32.SD2	7.2.1
Form 32E	R43.SD2	7.2.2
--	R63.SD2	7.2.4
Form 26	R20.SD2	10.1
"Roster"	R09.SD2	1.0 (variables: PFTSTAT, CARDSTAT)