

COOPERATIVE STUDY OF SICKLE CELL DISEASE
PULMONARY FUNCTION TEST FORM

PFTP

ANONID
PFTID2

1. Person completing form (Name): _____ **PFTFC** (Initials):
2. CSSCD code number of person completing form: _____ **PFTCODE**
3. Date test given: (Month, Day, Year): _____ **PFT_DATE** ____/____/____

4. **HEIGHT** (cm): _____ **PFTHGT** .
5. **WEIGHT** (kg): _____ **PFTWGT** .
6. **SITTING HEIGHT** (cm): chair seat to top of head _____ **PFTSIT** .
7. **ARM SPAN** (cm): fingertip to fingertip _____ **PFTARMSP** .

*** ATTACH ALL INSTITUTIONAL REPORTS & COMPUTER PRINTOUTS OF RESULTS ***

8. **SPIROMETRY** RESULTS BEFORE BRONCHODILATORS

8.1 Forced Vital Capacity (L, BTPS): _____ **PFTFVC** .
8.2 Forced Expiratory Volume/1 Sec (L, BTPS): _____ **PFTFEV** .
8.3 FEV/FVC (%): _____ . **PFFEVC**
8.4 Forced Expiratory Flow Rate
8.4.a. at peak flow (L/sec. BTPS): _____ **PFTFEFP** .
8.4.b. at 50% of vital capacity (L/sec, BTPS): _____ **PFTFEF50** .
8.4.c. at 25% of vital capacity (L/sec, BTPS): _____ **PFTFEF25** .
8.4.d. FEF 25-75% (L/sec, BTPS): _____ **PFTFEF** .

PFTVERS

9. Were spirometry values also obtained **AFTER A BRONCHODILATOR** was used?

PFTBRON 1. NO 2. YES

IF YES TO QUESTION 9



9.1 Type/dosage of bronchodilator administered

(NOTE: BRONCHODILATOR MUST BE ADMINISTERED AS SPECIFIED IN EITHER 1 OR 2 BELOW)

PFTBRONT

1. 0.5 cc of albuterol plus 2 cc of normal saline

2. Metered dose inhaler & spacer; 2 puffs of albuterol

9.2 SPIROMETRY RESULTS AFTER BRONCHODILATORS

9.2.1. Forced Vital Capacity (L, BTPS):

PFTFVCA .

9.2.2. Forced Expiratory Volume/1 Sec (L, BTPS):

PFTFEVA .

9.2.3. FEV/FVC (%):

. PFEVFCVA

9.2.4. Forced Expiratory Flow Rate

9.4.a. at peak flow (L/sec. BTPS):

PFTFEFPA .

9.4.b. at 50% of vital capacity (L/sec, BTPS):

PFFE50A .

9.4.c. at 25% of vital capacity (L/sec, BTPS):

PFFE25A .

9.4.d. FEF 25-75% (L/sec, BTPS):

PFTFEFA .

10. LUNG VOLUMES

10.1. Total Lung Capacity (L, BTPS):

PFTTLNGC .

10.2. Functional Residual Capacity (L, BTPS):

PFTFRESC .

10.3. Residual Volume (L, BTPS):

PFTRESVL .

10.4. RV/TLC (%):

. PFTRVTLTLC

10.5. Measurements obtained by (CHECK ONE):

PFTLVMS

1. 7-minute Helium rebreathing method

2. Body plethysmography

3. Nitrogen Washout

11. SINGLE BREATH DIFFUSING CAPACITY-CO

11.1. Diffusing Capacity CO (ml/min/mmHg)

. PFTDCCO

↑ UNCORRECTED FOR HEMOGLOBIN AND LUNG VOLUME

11.2. Hemoglobin (g/dl):

. PFTDCHB

11.3. Single Breath TLC (L, BTPS):

PFTSBTLC .

11.4. Single Breath Residual Volume (L, BTPS):

PFTSBRV .

12. QUALITY OF TEST

1. Excellent

2. Fair

3. Unacceptable

PFTTEST

13. ARTERIAL BLOOD GASES (drawn with patient at rest, sitting, breathing room air)

↑ PLEASE DO NOT REPORT BLOOD GASES WHICH WERE DRAWN WHILE SUBJECT WAS SICK, UNSTABLE, OR ON OXYGEN

13.1. pO₂ (mmHg):

PFTP02

13.2. pCO₂ (mmHg):

PFTPC02

13.3. pH:

. PFTPH

PFTBTMP

13.4 Body temperature at time blood is drawn (°C): .

14. Was pulse oximetry performed? **PFTPOXDN** 1. NO 2. YES

IF YES TO QUESTION 14 → 14.1 % O₂ saturation by pulse oximetry: **PFTPPSAT**

15. Was co-oximetry performed? **PFTCOOX** 1. NO 2. YES

IF YES TO QUESTION 15 → 15.1 % O₂ saturation by co-oximetry: **PFTCOSAT**

15.2 Carboxyhemoglobin . **PFTCARBX**

15.3 Methemoglobin . **PFTMETHE**

Signature of Data Coordinator: _____

Date: ____/____/____

OFFICE USE ONLY

- | | | | |
|--|--------------------------------|---------------------------------|---------------------------------|
| 16. Pulmonary function test report received? | <input type="checkbox"/> 1. NO | <input type="checkbox"/> 2. YES | <input type="checkbox"/> 3. N/A |
| 17. Arterial blood gas report received? | <input type="checkbox"/> 1. NO | <input type="checkbox"/> 2. YES | <input type="checkbox"/> 3. N/A |
| 18. Pulse oximetry report received? | <input type="checkbox"/> 1. NO | <input type="checkbox"/> 2. YES | <input type="checkbox"/> 3. N/A |
| 19. Co-oximetry report received? | <input type="checkbox"/> 1. NO | <input type="checkbox"/> 2. YES | <input type="checkbox"/> 3. N/A |

QUESTION-BY-QUESTION SPECIFICATIONS FOR THE PULMONARY FUNCTION TEST FORM

Question 1. Person completing form: The person completing the PULMONARY FUNCTION TEST FORM should enter his/her name on the line and initials in the three boxes to the right of the line. The person completing the form should be a pulmonologist or pulmonary lab technician/technologist.

Question 2. CSSCD code number of person completing form: The code number of the person

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completing the PULMONARY FUNCTION TEST FORM is to be assigned by the Data Coordinator at each clinic.

Question 3. Date test given: The date the pulmonary function tests were performed should be entered in the MM/DD/YY date format (e.g., October 24, 1994, would be entered 10/24/94).

Question 4. HEIGHT: Height measurements are to be made with the patient in stocking (bare) feet using a standard wall or scale set. Feet should be together and touching the wall with the patient's arms at his/her side. The chin should be straight and the patient is to be straightened by the examiner. The height measurement should be recorded in centimeters (cm). The formula for conversion from inches to centimeters is as follows: height in inches X 2.54 = height in centimeters.

Question 5. WEIGHT: Weight measurements are to be made when the patient has no shoes on and most of his/her clothing has been removed. A standard hospital scale should be used. The weight measurement should be recorded in kilograms (kg). The formula for conversion from pounds to kilograms is as follows: weight in pounds/2.2 = weight in kilograms.

Question 6. SITTING HEIGHT: Sitting height measurements may be performed using a table and anthropometer, or by using a special sitting-height measuring table with an adjustable footrest, or by using a stadiometer and a rectangular box (50 X 40 X 30 cm). For detailed instructions on performing sitting height measurements by the above mentioned techniques, refer to: Anthropometric Standardization Reference Manual, (Editors: T. Lohman, A. Roche, R. Martorell; Champaign, Illinois: Human Kinetics Books, 1988).

Question 7. ARM SPAN: A measuring tape fixed to an adjustable block which is attached to the wall is to be used to measure the arm span. Measurements are to be made with the patient standing with his/her feet together and his/her back against a flat wall. The arms are outstretched laterally and maximally at the level of the shoulders, in contact with the wall, and with the palms facing forwards. The tip of the middle (longest finger) finger (excluding the fingernail) of the right hand is kept in contact with the block, while the zero end of the tape is set at the tip of the middle (longest finger) finger (excluding the fingernail) of the left hand. Two measurements are necessary, one at the zero end of the tape and the other at the block end to make the reading. The

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measurements should be recorded in centimeters (cm). The measurement is recorded to the nearest 0.1 cm. When making this measurement, it is imperative that the subject's arms be outstretched maximally and that they are held in this position until the readings are taken. The formula for conversion from inches to centimeters is as follows: height in inches X 2.54 = height in centimeters.

Question 8. SPIROMETRY: These data are to be filled in by pulmonary function personnel. All values should be recorded in the boxes to the right of the question (questions 8.1-8.4.d) MUST be addressed:

8.1 Forced Vital Capacity (FVC)

8.2 Forced Expiratory Volume/l second (FEV₁)

8.3 FEV/FVC%

8.4.a Expiratory flow rate at peak flow (PEF)

8.4.b Forced expiratory flow rate at 50% of vital capacity (Vmax50)

8.4.c Forced expiratory flow rate at 25% of vital capacity (Vmax25)

8.4.d Mid-maximal expiratory flow rate (FEF 25-75)

<p>NOTE: ONLY RESULTS <u>BEFORE</u> BRONCHODILATORS should be recorded for all spirometry measures in Section 8.</p>

Question 9. SPIROMETRY: These data are to be filled in by pulmonary function personnel. All values should be recorded in the boxes to the right of the question (questions 9.1-9.4.d) MUST be addressed:

9.1 Forced Vital Capacity (FVC)

9.2 Forced Expiratory Volume/l second (FEV₁)

9.3 FEV/FVC%

9.4.a Expiratory flow rate at peak flow (PEF)

9.4.b Forced expiratory flow rate at 50% of vital capacity (Vmax50)

9.4.c Forced expiratory flow rate at 25% of vital capacity (Vmax25)

9.4.d Mid-maximal expiratory flow rate (FEF 25-75)

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NOTE: ONLY RESULTS AFTER BRONCHODILATORS should be recorded for all spirometry measures in Section 9.

Question 10. LUNG VOLUMES: These data are to be filled in by the Pulmonary Function Laboratory personnel. All values should be recorded in the boxes to the right of the questions, ALL questions (10.1-10.5) MUST be addressed:

10.1 Total Lung Capacity

10.2 Functional Residual Capacity

10.3 Residual Volume

10.4 RV/TLC (%)

Question 10.5 Measurements obtained by: The method used for measuring lung volumes MUST be reported. Place a check mark in the box for the corresponding method used to measure the lung volumes: 1. 7-minute Helium rebreathing method, 2. Body plethysmography, or 3. Nitrogen Washout.

Question 11. SINGLE BREATH DIFFUSING CAPACITY-CO: These data are to be filled in by the Pulmonary Function Laboratory personnel. All values should be recorded in the boxes to the right of the questions. ALL questions (1 1.1-11.4) MUST be addressed:

Question 11.1 Diffusing Capacity CO: The value to be recorded for this question should be uncorrected for hemoglobin and lung volume. The value should be filled in by the Pulmonary Function Laboratory personnel.

Question 11.2 Hemoglobin: At some centers, it may be the responsibility of the Sickle Cell clinic to provide the PFT lab with hemoglobin results. The interval between the date of the hemoglobin value reported and pulmonary function tests should not exceed one month; in addition, during the interval between the hemoglobin and pulmonary function studies, the patient should be free of acute event symptoms.

Question 11.3 Single Breath TLC: The value should be filled in by the Pulmonary Function Laboratory personnel.

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Question 11.4 Single Breath Residual Volume: The value should be filled in by the Pulmonary Function Laboratory personnel.

Question 12. QUALITY OF TEST: The person administering the tests should place a check mark in the appropriate box, (1. Excellent, 2. Fair, 3. Unacceptable) that best describes the quality of the pulmonary function tests.

Question 13. ARTERIAL BLOOD GASES (ABGs): Blood gases should be drawn with the patient at rest, sitting, and breathing room air. Blood gases that were drawn while the patient was sick, unstable, or on oxygen should NOT be reported. The arterial blood gases should be measured on the same day as the pulmonary function testing. If the patient was unable to perform the pulmonary function tests but an arterial sample for ABGs was collected, the ABG results should be reported on the ARTERIAL BLOOD GASES FORM rather than the PULMONARY FUNCTION TEST FORM. The following measurements should be reported in the corresponding response boxes:

Question 13.1 pO_2

Question 13.2 pCO_2

Question 13.3 pH

Question 13.4 Body temperature at time blood is drawn ($^{\circ}C$): Record the patient's body temperature in degrees Celsius at the time the arterial blood specimen was DRAWN in the boxes to the right of Question 13.4.

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NOTE: DO NOT complete questions 13.1-13.4 IF the results were obtained from a venous or mixed (i.e. arterial/venous) blood specimen. INSTEAD, write a note in the left-hand margin indicating that only a venous or mixed sample was obtained.

Question 14. Was pulse oximetry performed?: Place a check mark in the appropriate (1. NO or 2. YES) box. If the response is 2. YES, enter % O₂ saturation in boxes to the right of Q.14.1.

Question 15. Was co-oximetry performed?: Place a check mark in the appropriate (1.NO or 2. YES) box. If the response is 2. YES, record values for % O₂ saturation, carboxyhemoglobin, and methemoglobin in boxes to the right of 15.1, 15.2, and 15.3 respectively.

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CONTENTS OF SAS DATASET: PFTPPUBN.SD2
 DATA FROM CSSCD FORM PFTP - PULMONARY FUNCTION TEST FORM
 VARIABLES ARE LISTED IN ALPHABETICAL ORDER AND IN ORDER OF THEIR POSITION
 IN THE SAS DATASET AND ON FORM PFTP
 DATE VARIABLES HAVE BEEN REMOVED & CSSCD ID #S REPLACED W/ ANONYMIZED ID #

The SAS System 12:05 Thursday, February 12, 2004 3

The CONTENTS Procedure

Data Set Name: IN.PFTPPUBN	Observations:	719
Member Type: DATA	Variables:	51
Engine: V6	Indexes:	0
Created: 15:40 Thursday, February 12, 2004	Observation Length:	392
Last Modified: 15:40 Thursday, February 12, 2004	Deleted Observations:	0
Protection:	Compressed:	NO
Data Set Type:	Sorted:	NO
Label:		

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384
 Number of Data Set Pages: 18
 First Data Page: 1
 Max Obs per Page: 41
 Obs in First Data Page: 24
 Number of Data Set Repairs: 0
 File Name: pftp_pun.sd2
 Release Created: 6.08.00
 Host Created: WIN

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Informat	Label
1	ANONID	Char	8	0			ANONYMIZED ID #
21	PFEVFCVA	Num	8	153	4.1	4.1	923 AFT BRONCHO FEV/FVC
24	PFFEF25A	Num	8	177	5.2	5.2	924C FORCED EXPIR @ 25% VIT CAPACITY
23	PFFEF50A	Num	8	169	5.2	5.2	924B FORCED EXPIR @ 50% VIT CAPACITY
12	PFEVFCV	Num	8	81	4.1	4.1	83 FEV/FVC
9	PFTARMSP	Num	8	57	5.1	5.1	7 ARM SPAN
4	PFTBNO	Num	8	17	3.	3.	DATA ENTRY BATCH NUMBER
17	PFTBRON	Num	8	121	2.	2.	9 SPIROM VAL OBTAIN AFT BRONCHODIL
	USED						
18	PFTBRONT	Num	8	129	2.	2.	91 TYPE/DOSAGE OF BRONCHODILATOR USED
51	PFTBSA	Num	8	384	4.1	4.1	BODY SURFACE AREA (PH2)
39	PFTBTMP	Num	8	297	5.2	5.2	134 BODY TEMP AT TIME ABG BLOOD DRAWN
44	PFTCARBX	Num	8	337	4.1	4.1	152 CARBOXYHEMOGLOBIN
5	PFTCODE	Num	8	25	3.	3.	2 CODE NO OF PERSON COMPLETING FORM
42	PFTCOOX	Num	8	321	2.	2.	15 WAS CO-OXIMETRY PERFORMED
43	PFTCOSAT	Num	8	329	6.2	6.2	151 %O2 SATURATION BY CO-OXIMETRY
31	PFTDCCO	Num	8	233	4.1	4.1	111 DIFFUSING CAPACITY CO

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32	PFTDCHB	Num	8	241	4.1	4.1	112 DIFFUSING CAPACITY HEMOGLOBIN
16	PFTFEF	Num	8	113	5.2	5.2	84D FORCED EXPIR FLOW RATE FEF 25-75%
15	PFTFEF25	Num	8	105	5.2	5.2	84C FORCED EXPIR @ 25% VITAL CAPACITY
14	PFTFEF50	Num	8	97	5.2	5.2	84B FORCED EXPIR @ 50% VITAL CAPACITY
25	PFTFEFA	Num	8	185	5.2	5.2	924D FORCED EXP FL RATE FEF 25-75%
13	PFTFEFP	Num	8	89	5.2	5.2	84A FORCED EXPIR FLOW RATE PEAK FLOW
22	PFTFEFPA	Num	8	161	5.2	5.2	924A FORCED EXP FL RATE AT PEAK FLOW
11	PFTFEV	Num	8	73	5.2	5.2	82 FORCED EXPIRATORY VOLUME
20	PFTFEVA	Num	8	145	5.2	5.2	922 AFT BRONCHO FORCED EXPIRATORY VOL
27	PFTFRESC	Num	8	201	5.2	5.2	102 FUNCTIONAL RESIDUAL CAPACITY
10	PFTFVC	Num	8	65	5.2	5.2	81 FORCED VITAL CAPACITY
19	PFTFVCA	Num	8	137	5.2	5.2	921 AFT BRONCHO FORCED VITAL CAPACITY
6	PFTHGT	Num	8	33	5.1	5.1	4 HEIGHT

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The SAS System

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The CONTENTS Procedure

-----Alphabetic List of Variables and Attributes-----

#	Variable	Type	Len	Pos	Format	Informat	Label
2	PFTID2	Num	8	8	3.	3.	FOLLOW-UP IDENTIFIER
46	PFTIRPT	Num	8	353	2.	2.	INSTITUTIONAL REPORTS RECEIVED
30	PFTLVMS	Num	8	225	2.	2.	105 MEASUREMENTS OBTAINED BY
45	PFTMETHE	Num	8	345	4.1	4.1	153 METHEMOGLOBIN
48	PFTOVERS	Char	2	369			VERSION DATA TRANSCRIBED FROM
37	PFTPCO2	Num	8	281	2.	2.	132 ARTERIAL BLOOD GAS PCO2
38	PFTPH	Num	8	289	5.2	5.2	133 ARTERIAL BLOOD GAS PH
36	PFTPO2	Num	8	273	3.	3.	131 ARTERIAL BLOOD GAS PO2
49	PFTPOX	Num	8	371	3.	3.	02 SAT MEASURED BY PULSE OXIMETRY
	(PH2)						
40	PFTPOXDN	Num	8	305	2.	2.	14 WAS PULSE OXIMETRY PERFORMED
41	PFTPPSAT	Num	8	313	3.	3.	141 %O2 SATURATION BY PULSE OXIMETRY
28	PFTRESVL	Num	8	209	5.2	5.2	103 RESIDUAL VOLUME
47	PFTRNSC	Num	8	361	2.	2.	DATA TRANSCRIBED FROM OLDER VERSION
29	PFTRVTLC	Num	8	217	4.1	4.1	104 RV/TLC
34	PFTSBRV	Num	8	257	5.2	5.2	114 DIFF CAP SINGLE BREATH RESID VOL
33	PFTSBTLC	Num	8	249	5.2	5.2	113 DIFF CAPACITY SINGLE BREATH TLC
8	PFTSIT	Num	8	49	5.1	5.1	6 SITTING HEIGHT
35	PFTTEST	Num	8	265	2.	2.	12 QUALITY OF TEST
26	PFTTLNGC	Num	8	193	5.2	5.2	101 TOTAL LUNG CAPACITY
3	PFTVERS	Char	1	16			FORM VERSION
7	PFTWGT	Num	8	41	5.1	5.1	5 WEIGHT
50	SATMETH	Char	5	379			02 SATURATION METHOD (PH2)

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

PROC FORMAT;

VALUE ID2F 1='1-PH2 ENTRY VIS'
3='3-PH2 ANN 1 VIS'
5='5-PH2 ANN 2 VIS'
7='7-PH2 ANN 3 VIS'
9='9-PH2 ANN 4 VIS'
11='11-PH3 ENTRY VIS'
13='13-PH3 ANN 1 VIS'
15='15-PH3 ANN 2 VIS'
17='17-PH3 ANN 3 VIS';

*Format NO_YES used for the following variables: PFTBRON PFTPOXDN PFTCOOX PFTRNSC;

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

VALUE PFTBRONT 1='0.5CC ALBUTEROL + 2CC SALINE'
2='METERED DOSE INHALER, ALBUTEROL';

VALUE PFTLVMS 1='7 MIN HELIUM REBREATHING METH'
2='BODY PLETHYSMOGRAPHY'
3='NITROGEN WASHOUT';

VALUE PFTTEST 1='EXCELLENT'
2='FAIR'
3='UNACCEPTABLE';

FORMAT PFTID2 ID2F.
PFTBRON PFTPOXDN PFTCOOX PFTRNSC NO_YES.
PFTBRONT PFTBRONT.
PFTLVMS PFTLVMS.
PFTTEST PFTTEST.;

RUN;
QUIT;

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PFTVERS ----- FORM VERSION

type: string (str1)

unique values: 4 coded missing: 0 / 719

tabulation:	Freq.	Value
	132	"B"
	183	"E"
	1	"G"
	403	"H"

PFTHGT ----- 4 HEIGHT

type: numeric (float)

range: [102,184] units: .1
 unique values: 175 coded missing: 0 / 719

mean: 139.527
 std. dev: 15.6709

percentiles:	10%	25%	50%	75%	90%
	119.5	127	139	150	162

PFTWGT ----- 5 WEIGHT

type: numeric (float)

range: [14,107] units: .1
 unique values: 235 coded missing: 2 / 719

mean: 35.4632
 std. dev: 14.0512

percentiles:	10%	25%	50%	75%	90%
	21.8	25	32	42	55.8

PFTSIT ----- 6 SITTING HEIGHT

type: numeric (float)

range: [29,105] units: .1
 unique values: 57 coded missing: 549 / 719

mean: 71.8253
 std. dev: 8.65315

percentiles:	10%	25%	50%	75%	90%
	63.5	66	71	77	81.5

PFTSIT:

1. Required only if PFTVERS='H.'

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PFTARMSP ----- 7 ARM SPAN

type: numeric (float)

range: [97,192] units: .1
 unique values: 78 coded missing: 548 / 719

mean: 145.917
 std. dev: 15.5188

percentiles:	10%	25%	50%	75%	90%
	127	136	144	156	165.5

PFTARMSP:

1. Required only if PFTVERS='H.'

PFTFVC ----- 81 FORCED VITAL CAPACITY

type: numeric (float)

range: [.55,4.96] units: .01
 unique values: 240 coded missing: 14 / 719

mean: 1.85091
 std. dev: .700252

percentiles:	10%	25%	50%	75%	90%
	1.12	1.34	1.71	2.18	2.83

PFTFEV ----- 82 FORCED EXPIRATORY VOLUME

type: numeric (float)

range: [.54,4.18] units: .01
 unique values: 217 coded missing: 13 / 719

mean: 1.59676
 std. dev: .572814

percentiles:	10%	25%	50%	75%	90%
	1.01	1.2	1.47	1.88	2.44

PFFEVFVC ----- 83 FEV/FVC

type: numeric (float)

range: [56,99.9] units: .1
 unique values: 77 coded missing: 16 / 719

mean: 87.0902
 std. dev: 6.69029

percentiles:	10%	25%	50%	75%	90%
	79	83	87.3	91.2	96

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PFTFEFP ----- 84A FORCED EXPIR FLOW RATE PEAK FLOW

type: numeric (float)

range: [1,10.34] units: .01
 unique values: 369 coded missing: 21 / 719

mean: 3.65196
 std. dev: 1.42478

percentiles:	10%	25%	50%	75%	90%
	2.08	2.6	3.42	4.4	5.53

PFTFEF50 ----- 84B FORCED EXPIR @ 50% VITAL CAPACITY

type: numeric (float)

range: [.49,5.94] units: .01
 unique values: 281 coded missing: 33 / 719

mean: 2.28223
 std. dev: .871877

percentiles:	10%	25%	50%	75%	90%
	1.34	1.67	2.105	2.77	3.42

PFTFEF25 ----- 84C FORCED EXPIR @ 25% VITAL CAPACITY

type: numeric (float)

range: [.8,8.02] units: .01
 unique values: 345 coded missing: 80 / 719

mean: 3.27064
 std. dev: 1.28935

percentiles:	10%	25%	50%	75%	90%
	1.86	2.34	3.08	4	5

PFTFEF ----- 84D FORCED EXPIR FLOW RATE FEF 25-75%

type: numeric (float)

range: [.59,5.06] units: .01
 unique values: 257 coded missing: 16 / 719

mean: 1.9405
 std. dev: .738122

percentiles:	10%	25%	50%	75%	90%
	1.15	1.43	1.78	2.31	2.89

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PFTBRON ----- 9 SPIROM VAL OBTAIN AFT BRONCHODIL USED

type: numeric (float)
 label: PFTBRON

range: [1,2] units: 1
 unique values: 2 coded missing: 316 / 719

tabulation:	Freq.	Numeric	Label
	289	1	NO
	114	2	YES

PFTBRON:

1. Required only if PFTVERS='H.'

PFTBRONT ----- 91 TYPE/DOSAGE OF BRONCHODILATOR USED

type: numeric (float)
 label: PFTBRONT

range: [1,2] units: 1
 unique values: 2 coded missing: 619 / 719

tabulation:	Freq.	Numeric	Label
	76	1	0.5CC ALBUTEROL + 2CC SALINE
	24	2	METERED DOSE INHALER, ALBUTEROL

PFTBRONT:

1. Required only if PFTBRON=2.

PFTFVCA ----- 921 AFT BRONCHO FORCED VITAL CAPACITY

type: numeric (float)

range: [.87,4.74] units: .01
 unique values: 87 coded missing: 605 / 719

mean: 2.12675
 std. dev: .668127

percentiles:	10%	25%	50%	75%	90%
	1.44	1.6	2.03	2.44	3.01

PFTFVCA:

1. Required only if PFTBRON=2.

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PFTFEVA ----- 922 AFT BRONCHO FORCED EXPIRATORY VOL
 type: numeric (float)

range: [.62,3.85] units: .01
 unique values: 86 coded missing: 605 / 719

mean: 1.84184
 std. dev: .57375

percentiles:	10%	25%	50%	75%	90%
	1.26	1.39	1.755	2.15	2.63

PFTFEVA:

1. Required only if PFTBRON=2.

PFEVFCVA ----- 923 AFT BRONCHO FEV/FVC
 type: numeric (float)

range: [59,99.9] units: .1
 unique values: 31 coded missing: 605 / 719

mean: 86.9544
 std. dev: 7.33141

percentiles:	10%	25%	50%	75%	90%
	77	84	88	91	95

PFEVFCVA:

1. Required only if PFTBRON=2.

PFTFEFPA ----- 924A FORCED EXP FL RATE AT PEAK FLOW
 type: numeric (float)

range: [1.3,8.89] units: .01
 unique values: 101 coded missing: 606 / 719

mean: 4.37513
 std. dev: 1.51857

percentiles:	10%	25%	50%	75%	90%
	2.57	3.29	4.23	5.51	6.38

PFTFEFPA:

1. Required only if PFTBRON=2.

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PFFEF50A ----- 924B FORCED EXPIR @ 50% VIT CAPACITY
 type: numeric (float)
 range: [.52,5.5] units: .01
 unique values: 88 coded missing: 612 / 719
 mean: 2.91196
 std. dev: 1.02781
 percentiles: 10% 25% 50% 75% 90%
 1.62 2.14 2.9 3.68 4.21

PFFEF50A:
 1. Required only if PFTBRON=2.

PFFEF25A ----- 924C FORCED EXPIR @ 25% VIT CAPACITY
 type: numeric (float)
 range: [.89,7.39] units: .01
 unique values: 89 coded missing: 625 / 719
 mean: 4.07319
 std. dev: 1.4445
 percentiles: 10% 25% 50% 75% 90%
 2.32 3.02 4.09 5.21 6.02

PFFEF25A:
 1. Required only if PFTBRON=2.

PFTFEFA ----- 924D FORCED EXP FL RATE FEF 25-75%
 type: numeric (float)
 range: [.32,4.71] units: .01
 unique values: 91 coded missing: 605 / 719
 mean: 2.4364
 std. dev: .866914
 percentiles: 10% 25% 50% 75% 90%
 1.41 1.85 2.36 2.99 3.59

PFTFEFA:
 1. Required only if PFTBRON=2.

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PFTTLNGC ----- 101 TOTAL LUNG CAPACITY

type: numeric (float)

range: [1.28,6.66] units: .01
 unique values: 272 coded missing: 46 / 719

mean: 2.64801
 std. dev: .859343

percentiles:	10%	25%	50%	75%	90%
	1.76	2.03	2.47	3.07	3.85

PFTFRES C ----- 102 FUNCTIONAL RESIDUAL CAPACITY

type: numeric (float)

range: [.36,7.93] units: .01
 unique values: 191 coded missing: 47 / 719

mean: 1.34247
 std. dev: .552552

percentiles:	10%	25%	50%	75%	90%
	.81	1.01	1.25	1.565	1.98

PFTRESVL ----- 103 RESIDUAL VOLUME

type: numeric (float)

range: [.15,3.36] units: .01
 unique values: 139 coded missing: 46 / 719

mean: .771768
 std. dev: .336751

percentiles:	10%	25%	50%	75%	90%
	.42	.56	.71	.91	1.18

PFTRV TLC ----- 104 RV/TLC

type: numeric (float)

range: [2,66] units: .1
 unique values: 93 coded missing: 48 / 719

mean: 29.7007
 std. dev: 9.78214

percentiles:	10%	25%	50%	75%	90%
	18	23	29	35	43

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PFTLVMS ----- 105 MEASUREMENTS OBTAINED BY

type: numeric (float)
 label: PFTLVMS

range: [1,3] units: 1
 unique values: 3 coded missing: 51 / 719

tabulation:	Freq.	Numeric	Label
	162	1	7 MIN HELIUM REBREATHING METH
	388	2	BODY PLETHYSMOGRAPHY
	118	3	NITROGEN WASHOUT

PFTDCCO ----- 111 DIFFUSING CAPACITY CO

type: numeric (float)

range: [4.5,35.4] units: .1
 unique values: 173 coded missing: 105 / 719

mean: 14.3309
 std. dev: 4.43349

percentiles:	10%	25%	50%	75%	90%
	9.3	11.2	13.7	16.9	20.1

PFTDCCO:

1. Should be uncorrected for hemoglobin and lung volume.

PFTDCHB ----- 112 DIFFUSING CAPACITY HEMOGLOBIN

type: numeric (float)

range: [4.9,15] units: .1
 unique values: 79 coded missing: 185 / 719

mean: 8.91292
 std. dev: 1.80806

percentiles:	10%	25%	50%	75%	90%
	6.7	7.4	8.6	10.4	11.3

PFTSBTLC ----- 113 DIFF CAPACITY SINGLE BREATH TLC

type: numeric (float)

range: [.04,11.4] units: .01
 unique values: 245 coded missing: 230 / 719

mean: 2.63603
 std. dev: 1.19481

percentiles:	10%	25%	50%	75%	90%
	1.57	1.94	2.44	3.03	3.84

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PFTSBRV ----- 114 DIFF CAP SINGLE BREATH RESID VOL
 type: numeric (float)
 range: [0,6.84] units: .01
 unique values: 144 coded missing: 356 / 719
 mean: .952121
 std. dev: .691599
 percentiles: 10% 25% 50% 75% 90%
 .48 .59 .82 1.1 1.55

PFTTEST ----- 12 QUALITY OF TEST
 type: numeric (float)
 label: PFTTEST
 range: [1,3] units: 1
 unique values: 3 coded missing: 100 / 719
 tabulation: Freq. Numeric Label
 438 1 EXCELLENT
 169 2 FAIR
 12 3 UNACCEPTABLE

PFTPO2 ----- 131 ARTERIAL BLOOD GAS PO2
 type: numeric (float)
 range: [32,149] units: 1
 unique values: 69 coded missing: 219 / 719
 mean: 90.158
 std. dev: 13.1267
 percentiles: 10% 25% 50% 75% 90%
 77.5 83 89 98 104

PFTPCO2 ----- 132 ARTERIAL BLOOD GAS PCO2
 type: numeric (float)
 range: [16,47] units: 1
 unique values: 24 coded missing: 219 / 719
 mean: 37.306
 std. dev: 3.75187
 percentiles: 10% 25% 50% 75% 90%
 33 36 37 39 42

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PFTPH ----- 133 ARTERIAL BLOOD GAS PH

type: numeric (float)
 range: [7.32,7.54] units: .01
 unique values: 21 coded missing: 217 / 719
 mean: 7.41249
 std. dev: .027431
 percentiles: 10% 25% 50% 75% 90%
 7.38 7.39 7.41 7.43 7.44

PFTBTMP ----- 134 BODY TEMP AT TIME ABG BLOOD DRAWN

type: numeric (float)
 range: [34.9,38.7] units: .1
 unique values: 28 coded missing: 377 / 719
 mean: 36.945
 std. dev: .436013
 percentiles: 10% 25% 50% 75% 90%
 36.5 37 37 37 37.4

PFTPOXDN ----- 14 WAS PULSE OXIMETRY PERFORMED

type: numeric (float)
 label: PFTPOXDN
 range: [1,2] units: 1
 unique values: 2 coded missing: 190 / 719
 tabulation: Freq. Numeric Label
 100 1 NO
 429 2 YES

PFTPOXDN:

1. Required only if PFTVERS='E' or 'H.'

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PFTPPSAT ----- 141 %O2 SATURATION BY PULSE OXIMETRY

type: numeric (float)

range: [80,100] units: 1

unique values: 19 coded missing: 345 / 719

mean: 95.5455

std. dev: 3.66226

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

 90 94 97 98 99

PFTPPSAT:

1. Required only if PFTVERS='E' or 'H.'
2. Also see PFTPOX.

PFTCOOX ----- 15 WAS CO-OXIMETRY PERFORMED

type: numeric (float)

label: PFTCOOX

range: [1,2] units: 1

unique values: 2 coded missing: 350 / 719

tabulation: Freq. Numeric Label

233	1	NO
136	2	YES

PFTCOOX:

1. Required only if PFTVERS='H.'

PFTCOSAT ----- 151 %O2 SATURATION BY CO-OXIMETRY

type: numeric (float)

range: [70,99] units: 1

unique values: 20 coded missing: 616 / 719

mean: 92.6699

std. dev: 5.49757

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

 85 89 94 97 98

PFTCOSAT:

1. Required only if PFTCOOX=2.

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PFTCARBX ----- 152 CARBOXYHEMOGLOBIN

type: numeric (float)
 range: [.8,8.5] units: .1
 unique values: 55 coded missing: 605 / 719
 mean: 4.22544
 std. dev: 1.70677
 percentiles: 10% 25% 50% 75% 90%
 2 2.9 4.15 5.2 6.5

PFTCARBX:

1. Required only if PFTCOOX=2.

PFTMETHE ----- 153 METHEMOGLOBIN

type: numeric (float)
 range: [0,5.6] units: .1
 unique values: 30 coded missing: 604 / 719
 mean: 1.43391
 std. dev: .871064
 percentiles: 10% 25% 50% 75% 90%
 .3 .9 1.4 1.9 2.3

PFTMETHE:

1. Required only if PFTCOOX=2.

PFTRNSC ----- DATA TRANSCRIBED FROM OLDER VERSION

type: numeric (float)
 label: PFTRNSC
 range: [1,2] units: 1
 unique values: 2 coded missing: 315 / 719
 tabulation: Freq. Numeric Label
 376 1 NO
 28 2 YES

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PFTOVERS ----- VERSION DATA TRANSCRIBED FROM

type: string (str2)

unique values: 7

coded missing: 0 / 719

tabulation:	Freq.	Value
	691	"-7"
	1	"A"
	3	"B"
	5	"E"
	13	"F"
	5	"G"
	1	"H"

PFTOVERS:

1. Required only if PFTRNSC=2.

PFTPOX ----- O2 SAT MEASURED BY PULSE OXIMETRY (PH2)

type: numeric (float)

range: [75,100]

units: 1

unique values: 18

coded missing: 594 / 719

mean: 95.464

std. dev: 4.36175

percentiles:	10%	25%	50%	75%	90%
	89	94	97	98	99

PFTPOX:

1. Required only if PFTVERS='B' or 'E.'
2. Also see PFTPPSAT.

SATMETH ----- O2 SATURATION METHOD (PH2)

type: string (str5)

unique values: 6

coded missing: 0 / 719

tabulation:	Freq.	Value
	1	"A"
	643	"C"
	7	"ABG"
	8	"COOX"
	47	"PULSE"
	13	"UNK"

SATMETH:

1. Required only if PFTPOX>0.

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PFTBSA ----- BODY SURFACE AREA (PH2)

type: numeric (float)

range: [0,1.9]

units: .1

unique values: 15

coded missing: 356 / 719

mean: .773003

std. dev: .487907

percentiles:	10%	25%	50%	75%	90%
	0	0	.9	1.1	1.3

PFTBSA:

1. Not collected on PFTVERS='H.'

_dta:

1. Created 07/27/00.