

# FRAMINGHAM HEART STUDY CODING MANUAL

## *Pulmonary Function Test (PFT) Pre Albuterol*

COHORT: Offspring, Omni 1

TIME INTERVAL: Test performed at Offspring Exam 9 and Omni 1 Exam 4

DATASET NAME: t\_pftpreal\_ex09\_1b\_0867s

# OBSERVATIONS: 2130

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Variables that define a unique record: SHAREID.

1. Data was processed in a manner consistent with contemporaneous American Thoracic Society standards.
2. FV1\_9\_1, FVC\_9\_1, FV3\_9\_1, FV6\_9\_1 and PF\_9\_1 are the highest respective values from acceptable maneuvers. All other values are taken from the single acceptable effort with the highest sum of FEV1 and FVC (best effort).
3. RBB\_9\_1 is the ratio of the best FEV1 and best FVC, which can come from different acceptable efforts.
4. TFVC\_9\_1 is the forced expiratory time of the acceptable maneuver with the highest FVC.
5. Naming convention for variables: PFT(Exam #)\_IDTYPE. All variables names end in "\_9\_1".
6. Individuals are excluded from this dataset on the following basis A) declined participation B) were medically excluded from tests or C) no acceptable maneuvers were obtained.
7. One additional individual with RBB\_9\_1 > 0.99 was excluded as values were out of range per PFT Investigator (G.O.)
8. One observation for FF2\_9\_1 was set to missing as value was out of range per PFT Investigator (G.O.)

This dataset is a modified version of the original dataset. Some observations were deleted due to consent restrictions. This coding manual is based on the original dataset. Therefore the value ranges, number of observations and/or cohorts found in the modified dataset, may differ from those stated in this manual.

## IDTYPE

**Variable name:** IDTYPE

**Description:** Framingham Heart Study cohort identifier

Code or Value	Description	Count
1	Offspring Cohort	1884
7	Omni 1 Cohort	246

**Note:** IDTYPE and ID taken together form a unique study participant identification number.

## ID

**Variable name:** ID

**Description:** Framingham Heart Study participant identifier within a cohort

**Note:** IDTYPE and ID taken together form a unique study participant identification number.

ID deleted - use SHAREID

## SHAREID

**Variable name:** SHAREID

**Description:** Unique study participant identification number

## SDT\_9\_1

**Variable name:** SDT\_9\_1

**Description:** Study Date

**Units:** Number of days since Exam 1

Code or Value	Description	Count
4865 — 15224	Range of values	2130
.	Unknown	0

**Note:** Date in dataset includes month , day and year, however coding manual displays only month and year to preserve confidentiality.

**NA\_9\_1****Variable name:** NA\_9\_1**Description:** Number of Acceptable Efforts

Code or Value	Description	Count
1	One acceptable effort	47
2	Two acceptable efforts	60
3	Three acceptable efforts	1733
4	Four acceptable efforts	195
5	Five acceptable efforts	61
6	Six acceptable efforts	14
7	Seven acceptable efforts	15
8	Eight acceptable efforts	5
.	Unknown	0

**FVC\_9\_1****Variable name:** FVC\_9\_1**Description:** Forced Vital Capacity (liters) - Highest value among acceptable maneuvers**Units:** Liters

Code or Value	Description	Count
1.14 — 7.42	Range of values	2130
.	Unknown	0

**RFVC\_9\_1****Variable name:** RFVC\_9\_1**Description:** Forced Vital Capacity Reproducibility (calculated variable)

Code or Value	Description	Count
0	Two highest FVC values were not within 0.15 liters (>0.15 L) - Reproducibility criteria was not met	137
1	Two highest FVC values were within 0.15 liters (< = 0.15 L) - Reproducibility criteria was met	1993
.	Unknown	0

**Note:** FVC reproducibility was processed using measurements exported from the PFT machine (raw values with more than two decimals). All measurements were rounded to two decimal places after processing.

**FV1\_9\_1****Variable name:** FV1\_9\_1**Description:** Forced Expiratory Volume at 1 second (liters) - Highest value among acceptable maneuvers**Units:** Liters

Code or Value	Description	Count
0.61 — 5.65	Range of values	2130
.	Unknown	0

**FV6\_9\_1****Variable name:** FV6\_9\_1**Description:** Forced Expiratory Volume at 6 second (liters) - Highest value among acceptable maneuvers - Not Best Effort**Units:** Liters

Code or Value	Description	Count
1.12 — 7.27	Range of values	2130
.	Unknown	0

### FV3\_9\_1

**Variable name:** FV3\_9\_1

**Description:** Forced Expiratory Volume at 3 second (liters) - Highest value among acceptable maneuvers - Not Best Effort

**Units:** Liters

Code or Value	Description	Count
1.01 — 6.81	Range of values	2130
.	Unknown	0

### RFEV\_9\_1

**Variable name:** RFEV\_9\_1

**Description:** Forced Expiratory Volume Reproducibility (calculated variable)

Code or Value	Description	Count
0	Two highest FEV values were not within 0.15 liters ( $> 0.15$ L) - Reproducibility criteria was not met	94
1	Two highest FEV values were within 0.15 liters ( $\leq 0.15$ L) - Reproducibility criteria was met	2036
.	Unknown	0

**Note:** FEV reproducibility was processed using measurements exported from the PFT machine (raw values with more than two decimals). All measurements were rounded to two decimal places after processing.

### RBB\_9\_1

**Variable name:** RBB\_9\_1

**Description:** Ratio Best FEV1 / Best FVC (calculated variable)

Code or Value	Description	Count
0.30 — 0.94	Range of values	2130
.	Unknown	0

**Note:** RBB\_9\_1 is the ratio of the best FEV1 and the best FVC, which can come from different acceptable efforts.

One additional individual with RBB\_9\_1 $>0.99$  was excluded as values were out of range per PFT Investigator G.O.

**PF\_9\_1****Variable name:** PF\_9\_1**Description:** Peak Expiratory Flow (lit./sec.) - Highest value among acceptable maneuvers - Not Best Effort**Units:** Liters/Second

Code or Value	Description	Count
1.44 — 15.56	Range of values	2130
.	Unknown	0

**MMF\_9\_1****Variable name:** MMF\_9\_1**Description:** Maximum Mid Expiratory Flow Rate (lit./sec.) - Best Effort**Units:** Liters/Second

Code or Value	Description	Count
0.19 — 6.97	Range of values	2130
.	Unknown	0

**Note:****TFVC\_9\_1****Variable name:** TFVC\_9\_1**Description:** Forced Expiratory Time (seconds)- Highest FVC value among acceptable maneuvers**Units:** Seconds

Code or Value	Description	Count
6.19 — 21.20	Range of values	2130
.	Unknown	0

**Note:** TFVC\_9\_1 is the forced expiratory time of the acceptable maneuver with the highest FVC.

**FF1\_9\_1****Variable name:** FF1\_9\_1**Description:** Forced Expiratory Flow at 25% of Forced Vital Capacity (lit./sec.) - Best Effort**Units:** Liters/Second

Code or Value	Description	Count
0.48 — 14.39	Range of values	2130
.	Unknown	0

**FF2\_9\_1****Variable name:** FF2\_9\_1**Description:** Forced Expiratory Flow at 50% of Forced Vital Capacity (lit./sec.) - Best Effort**Units:** Liters/Second

Code or Value	Description	Count
0.23 — 9.64	Range of values	2129
.	Unknown	1

**Note:** One observation for FF2\_9\_1 was set to missing as value was out of range per PFT Investigator G.O.**FF3\_9\_1****Variable name:** FF3\_9\_1**Description:** Forced Expiratory Flow at 75% of Forced Vital Capacity (lit./sec.) - Best Effort**Units:** Liter/Second

Code or Value	Description	Count
0.02 — 3.22	Range of values	2130
.	Unknown	0