FRAMINGHAM HEART STUDY - CODING MANUAL

PULMONARY FUNCTION DATA

COHORT: ORIGINAL

DATA COLLECTION TIME FRAME: EXAM 19

SAS DATASET NAME: T_PFT_EX19_0_0169D.SAS7BDAT

#RECORDS: 1315

The value ranges and observation number stated in the manual are based on the original data set. In some cases, observation may be deleted due to participant consent form restrictions. If observations have been deleted from this data set, the ranges or observation number may differ from those stated in this manual.

Collected on Eagle II with 5(a-e) Trials and
1 Summary per Record

IDTYPE	Framingham Heart Study cohort identifier 0 = Original Cohort
ID	Framingham Heart Study participant ID number **deleted to preserve confidentiality, use random ID (PID)
PID	Random ID **random ID replaces Framingham ID to preserve confidentiality
SP_DATE	Date of Test **deleted due to redundancy, refer to most recent Exam Days file
EXAM	Exam Cycle of Test Range 19
TECH	Technician Number **deleted, used for administrative purposes only
STAND	Test Position 0 = Stand 1 = Sit Range 0-1
BP	Barometric Pressure in centimeters Range 740 - 789 . (2)

FVC_A	Forced Vital Capacity - Trial 1 Range 0.64 - 5.38 . (16)
FEV1_A	Forced Expiratory Volume - Trial 1 in 1.0 Seconds Range 0.04 - 4.0 . (16)
FEV3_A	Forced Expiratory Volume - Trial 1 in 3.0 Seconds Range 0.04 - 4.65 . (21)
PEFR_A	Peak Expiratory Flow Rate - Trial 1 (maximum rate of flow attainable at any time during an FEV) Range 0.93 - 12.8 . (21)
MMEF_A	Maximum Mid Expiratory Flow Rate - Trial 1 (average rate of flow during middle half of an FEV - in milliliters expired per second) Range 0.03 - 5.13 . (23)
FEF25_A	Forced Expiratory Flow after 25% of the FVC has been expired - Trial 1 Range 0.12 - 95.37 . (22)
FEF50_A	Forced Expiratory Flow after 50% of the FEV has been expired – Trial 1 Range 0.06 - 9.39 . (21)
FEF75_A	Forced Expiratory Flow after 75% of the FEV has been expired – Trial 1 Range 0.06 - 3.04 . (22)
EXT_A	Number of Seconds that Elapsed between the Back-Extrapolated Origin of the Tracing and the FVC - Trial 1 Range 0.75 - 26.5 . (0)
RAT1_A	Ratio: fev1 to fvc - Trial 1 Range 2.0 - 97.0 . (22)
RAT2_A	Ratio: fev3 to fvc - Trial 1 Range 2.0 - 100.0 . (22)

AST_A Extrapolated Volume Exceeds 10% of the FVC - Trial 1
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (17)

TECH_A Quality of Blow - Trial 1
0 = Good
1 = Unacceptable
. (1)

FVC_B Forced Vital Capacity - Trial 1
Range 0.53 - 5.27
. (55)

FEV1_B Forced Expiratory Volume - Trial 1 in 1.0 Seconds
Range 0.08 - 4.09
. (54)

FEV3_B Forced Expiratory Volume - Trial 1 in 3.0 Seconds
Range 0.21 - 4.69
. (58)

PEFR_B Peak Expiratory Flow Rate - Trial 1
(maximum rate of flow attainable at any time during an FEV)
Range 0.47 - 12.8
. (60)

MMEF_B Maximum Mid Expiratory Flow Rate - Trial 1
(average rate of flow during middle half of an FEV - in milliliters expired per second)
Range 0.05 - 5.41
. (60)

FEF25_B Forced Expiratory Flow after 25% of the FVC has been expired - Trial 1
Range 0.18 - 11.9
. (59)

FEF50_B Forced Expiratory Flow after 50% of the FEV has been expired – Trial 2
Range 0.06 - 8.8
. (59)

FEF75_B Forced Expiratory Flow after 75% of the FEV has been expired – Trial 2
Range 0.06 - 2.92
. (59)

EXT_B Number of Seconds that Elapsed between the Back-Extrapolated Origin of the Tracing and the FVC - Trial 2
Range 0.75 - 23.0
. (41)

RAT1_B Ratio: fev1 to fvc - Trial 2
Range 7.0 - 98.0
. (58)

RAT2_B Ratio: fev3 to fvc - Trial 2
Range 13.0 - 100.0
. (60)

AST_B Extrapolated Volume Exceeds 10% of the FVC - Trial 2
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (55)

TECH_B Quality of Blow - Trial 2
0 = Good
1 = Unacceptable
. (43)

FVC_C Forced Vital Capacity - Trial 3
Range 0.59 - 5.35
. (126)

FEV1_C Forced Expiratory Volume - Trial 3
in 1.0 Seconds
Range 0.13 - 4.09
. (126)

FEV3_C Forced Expiratory Volume - Trial 3
in 3.0 Seconds
Range 0.17 - 4.68
. (129)

PEFR_C Peak Expiratory Flow Rate - Trial 3
(maximum rate of flow attainable at any time during an FEV)
Range 0.83 - 12.6
. (129)

MMEF_C Maximum Mid Expiratory Flow Rate - Trial 3
(average rate of flow during middle half of an FEV - in milliliters expired per second)
Range 0.19 - 6.3
. (130)

FEF25_C Forced Expiratory Flow after 25% of the FVC has been expired - Trial 3
Range 0.3 - 11.6
. (129)

FEF50_C Forced Expiratory Flow after 50% of the FEV has been expired – Trial 3
Range 0.18 - 8.92
. (129)

FEF75_C Forced Expiratory Flow after 75% of the FEV has been expired – Trial 3
Range 0.06 - 2.6
. (129)

EXT_C Number of Seconds that Elapsed between the Back-Extrapolated Origin of the Tracing and the FVC - Trial 3
Range 1.0 - 25.50
. (127)

RAT1_C Ratio: fev1 to fvc - Trial 3
Range 6.0 - 96.0
. (130)

RAT2_C Ratio: fev3 to fvc - Trial 3
Range 8.0 - 99.0
. (130)

AST_C Extrapolated Volume Exceeds 10% of the FVC - Trial 3
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (127)

TECH_C Quality of Blow - Trial 3
0 = Good
1 = Unacceptable
. (127)

FVC_D Forced Vital Capacity - Trial 4
Range 1.0 - 5.34
. (352)

FEV1_D Forced Expiratory Volume - Trial 4 in 1.0 Seconds
Range 0.04 - 4.09
. (352)

FEV3_D Forced Expiratory Volume - Trial 4 in 3.0 Seconds
Range 0.08 - 4.72
. (354)

PEFR_D Peak Expiratory Flow Rate - Trial 4 (maximum rate of flow attainable at any time during an FEV)
Range 0.84 - 12.6
. (354)

MMEF_D Maximum Mid Expiratory Flow Rate - Trial 4 (average rate of flow during middle half of an FEV - in milliliters expired per second)
Range 0.20 - 5.71
. (354)

FEF25_D Forced Expiratory Flow after 25% of the FVC has been expired – Trial 4
Range 0.41 - 11.9
. (354)

FEF50_D Forced Expiratory Flow after 50% of the FEV has been expired – Trial 4
Range 0.18 - 9.1
. (354)

FEF75_D Forced Expiratory Flow after 75% of the FEV has been expired – Trial 4
Range 0.06 - 2.29
. (354)

EXT_D Number of Seconds that Elapsed between the Back-Extrapolated Origin of the Tracing and the FVC - Trial 4
Range 1.0 - 25.5
. (346)

RAT1_D Ratio: fev1 to fvc - Trial 4
Range 1.0 - 95.0
. (354)

RAT2_D Ratio: fev3 to fvc - Trial 4
Range 6.0 - 99.0
. (354)

AST_D Extrapolated Volume Exceeds 10% of the FVC - Trial 4
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (352)

TECH_D Quality of Blow - Trial 4
0 = Good
1 = Unacceptable
. (347)

FVC_E Forced Vital Capacity - Trial 5
Range 0.57 - 5.38
. (556)

FEV1_E Forced Expiratory Volume - Trial 5 in 1.0 Seconds
Range 0.42 - 4.04
. (559)

FEV3_E Forced Expiratory Volume - Trial 5 in 3.0 Seconds
Range 0.5 - 4.72
. (563)

PEFR_E Peak Expiratory Flow Rate - Trial 5
(maximum rate of flow attainable
at any time during an FEV)
Range 1.0 - 12.3
. (563)

MMEF_E Maximum Mid Expiratory Flow Rate - Trial 5
(average rate of flow during middle
half of an FEV - in milliliters
expired per second)
Range 0.23 - 5.57
. (563)

FEF25_E Forced Expiratory Flow after 25% of the FVC has been expired - Trial 5
Range 0.30 - 11.8
. (564)

FEF50_E Forced Expiratory Flow after 50% of the FEV has been expired – Trial 5
Range 0.18 - 8.62
. (564)

FEF75_E Forced Expiratory Flow after 75% of the FEV has been expired – Trial 5
Range 0.06 - 3.36
. (564)

EXT_E Number of Seconds that Elapsed between the Back-Extrapolated Origin of the Tracing and the FVC - Trial 5
Range 1.25 - 24.75
. (550)

RAT1_E Ratio: fev1 to fvc - Trial 5
Range 31.0 - 95.0
. (563)

RAT2_E Ratio: fev3 to fvc - Trial 5
Range 58.0 - 99.0
. (563)

AST_E Extrapolated Volume Exceeds 10% of the FVC - Trial 5
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (559)

TECH_E Quality of Blow - Trial 5
0 = Good
1 = Unacceptable
. (551)

The Summary blow may include values from several blows. The values were chosen on the following basis:

FVC Highest independent of blow
FEV1 Highest independent of blow
FEV3 Highest independent of blow
PEFR From best blow (highest fvc+fev1)*
PEFR From best blow (highest fvc+fev1)
FEF25 From best blow (highest fvc+fev1)
FEF50 From best blow (highest fvc+fev1)
FEF75 From best blow (highest fvc+fev1)
RAT1 From best blow (highest fvc+fev1)**
RAT2 From best blow (highest fvc+fev1)**

* Should be using highest independent of blow
** Inconsistencies found

B_FVC — Forced Vital Capacity - Summary
Range 0.67 - 5.38
. (132)

B_FEV1 — Forced Expiratory Volume - Summary in 1.0 Seconds
Range 0.39 - 4.09
. (131)

B_FEV3 — Forced Expiratory Volume - Summary in 3.0 Seconds
Range 0.46 - 4.72
. (133)

B_PEFR — Peak Expiratory Flow Rate - Summary
(maximum rate of flow attainable at any time during an FEV)
Range 0.97 - 12.6
. (132)

B_MMEF — Maximum Mid Expiratory Flow Rate - Summary
(average rate of flow during middle half of an FEV - in milliliters expired per second)
Range 0.03 - 5.57
. (133)

B_FEF25 — Forced Expiratory Flow after 25% of the FVC has been expired - Summary
Range 0.24 - 91.71
. (133)

B_FEF50 — Forced Expiratory Flow after 50% of the FEV has been expired - Summary
Range 0.12 - 8.62
. (132)

B_FEF75 — Forced Expiratory Flow after 75% of the FEV has been expired - Summary
Range 0.06 - 2.15
. (132)

B_RAT1 Ratio: fev1 to fvc - Summary
Range 25.0 - 96.0
. (132)

B_RAT2 Ratio: fev3 to fvc - Summary
Range 47.0 - 99.0
. (132)

B_AST Extrapolated Volume Exceeds 10% of the FVC - Summary
0 = No
1 = Yes - and no back extrapolation performed before determining FEV1
. (131)

B_TECH Quality of Blow - Summary
0 = Good
1 = Unacceptable
. (133)