

Cohort, Exam 1

Pulmonary Derived Variables in PULM

The following pulmonary derived variables are stored in the PULM data set. These variables replace the variables contained in the PFTA data set and should be used in any pulmonary data analyses.

| | VariableLabel |
|----------|----------------------------|
| FVC01 | FVC Predicted (liters) |
| FEV_501 | FEV(.5) Predicted (liters) |
| FEV_101 | FEV(1) Predicted (liters) |
| FEV_301 | FEV(3) Predicted (liters) |
| PEFR01 | PEFR Predicted |
| FEF2501 | FEF(25) Predicted |
| FEF5001 | FEF(50) Predicted |
| FEF7501 | FEF(75) Predicted |
| FEF25751 | FEF(25-75) Predicted |
| FEV1FVC1 | FEV(1)/FVC Predicted (%) |
| FEV3FVC1 | FEV(3)/FVC Predicted (%) |

These variables were created using the gender/race specific equations listed below. For height, the variable ANTA01 was used; for age, the variable V1AGE01 was used; for race, the variable RACEGRP was used; and for gender, the variable GENDER was used.

For each variable, any missing value for age, race, height, etc. resulted in a missing value for the created variable.

Equations for White Males:

| | | |
|----------|---|---|
| FVC01 | = | (.06*ANTA01) - (.0214*V1AGE01) - 4.65 |
| FEV_501 | = | (.0327*ANTA01) - (.0152*V1AGE01) - 1.914 |
| FEV_101 | = | (.0414*ANTA01) - (.0244*V1AGE01) - 2.19 |
| FEV_301 | = | (.0535*ANTA01) - (.0271*V1AGE01) - 3.512 |
| PEFR01 | = | (.094*ANTA01) - (.035*V1AGE01) - 5.993 |
| FEF2501 | = | (.088*ANTA01) - (.035*V1AGE01) - 5.618 |
| FEF5001 | = | (.069*ANTA01) - (.015*V1AGE01) - 5.4 |
| FEF7501 | = | (.044*ANTA01) - (.012*V1AGE01) - 4.143 |
| FEF25751 | = | (.0204*ANTA01) - (.038*V1AGE01) + 2.133 |
| FEV1FVC1 | = | (-.13*ANTA01) - (.152*V1AGE01) + 110.49 |
| FEV3FVC1 | = | (-.0627*ANTA01) - (.145*V1AGE01) + 112.09 |

Equations for Non-white Males:

The same values for the variables for nonwhite males are calculated the same as for white males less 12%:

| | | |
|----------|---|---|
| FVC01 | = | .88*((.06*ANTA01) - (.0214*V1AGE01) - 4.65) |
| FEV_501 | = | .88*((.0327*ANTA01) - (.0152*V1AGE01) - 1.914) |
| FEV_101 | = | .88*((.0414*ANTA01) - (.0244*V1AGE01) - 2.19) |
| FEV_301 | = | .88*((.0535*ANTA01) - (.0271*V1AGE01) - 3.512) |
| PEFR01 | = | .88*((.094*ANTA01) - (.035*V1AGE01) - 5.993) |
| FEF2501 | = | .88*((.088*ANTA01) - (.035*V1AGE01) - 5.618) |
| FEF5001 | = | .88*((.069*ANTA01) - (.015*V1AGE01) - 5.4) |
| FEF7501 | = | .88*((.044*ANTA01) - (.012*V1AGE01) - 4.143) |
| FEF25751 | = | .88*((.0204*ANTA01) - (.038*V1AGE01) + 2.133) |
| FEV1FVC1 | = | .88*((-.13*ANTA01) - (.152*V1AGE01) + 110.49) |
| FEV3FVC1 | = | .88*((-.0627*ANTA01) - (.145*V1AGE01) + 112.09) |

Cohort, Exam 1**Equations for White Females:**

| | | |
|----------|---|---|
| FVC01 | = | (.0491*ANTA01) - (.0216*V1AGE01) - 3.59 |
| FEV_501 | = | (.0238*ANTA01) - (.0185*V1AGE01) - .809 |
| FEV_101 | = | (.0342*ANTA01) - (.0255*V1AGE01) - 1.578 |
| FEV_301 | = | (.0442*ANTA01) - (.0257*V1AGE01) - 2.745 |
| PEFR01 | = | (.049*ANTA01) - (.025*V1AGE01) - .735 |
| FEF2501 | = | (.043*ANTA01) - (.025*V1AGE01) - .132 |
| FEF5001 | = | (.035*ANTA01) - (.013*V1AGE01) - .444 |
| FEF7501 | = | 3.042 - (.014*V1AGE01) |
| FEF25751 | = | (.0154*ANTA01) - (.046*V1AGE01) + 2.683 |
| FEV1FVC1 | = | (-.202*ANTA01) - (.252*V1AGE01) + 126.58 |
| FEV3FVC1 | = | (-.0937*ANTA01) - (.163*V1AGE01) + 118.16 |

Equations for Non-white Females:

The values for the variables for nonwhite females are calculated the same as for white females less 12%:

| | | |
|----------|---|--|
| FVC01 | = | .88((.0491*ANTA01) - (.0216*V1AGE01) - 3.59) |
| FEV_501 | = | .88((.0238*ANTA01) - (.0185*V1AGE01) - .809) |
| FEV_101 | = | .88((.0342*ANTA01) - (.0255*V1AGE01) - 1.578) |
| FEV_301 | = | .88((.0442*ANTA01) - (.0257*V1AGE01) - 2.745) |
| PEFR01 | = | .88((.049*ANTA01) - (.025*V1AGE01) - .735) |
| FEF2501 | = | .88((.043*ANTA01) - (.025*V1AGE01) - .132) |
| FEF5001 | = | .88((.035*ANTA01) - (.013*V1AGE01) - .444) |
| FEF7501 | = | .88(3.042 - (.014*V1AGE01)) |
| FEF25751 | = | .88((.0154*ANTA01) - (.046*V1AGE01) + 2.683) |
| FEV1FVC1 | = | .88((-.202*ANTA01) - (.252*V1AGE01) + 126.58) |
| FEV3FVC1 | = | .88((-.0937*ANTA01) - (.163*V1AGE01) + 118.16) |

Cohort, Exam 1**PULM Pulmonary Data**

Spirometry measurement data.

| <i>FEF2501</i> | | <i>FEF(25) Predicted</i> |
|----------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 3.55784 - 10.284 (median=5.824 mean=6.3934 std=1.3462) |
| 20 | | Missing |

| <i>FEF25751</i> | | <i>FEF(25-75) Predicted</i> |
|-----------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 1.775664 - 4.4446 (median=2.9856 mean=3.02829 std=0.56197) |
| 20 | | Missing |

| <i>FEF5001</i> | | <i>FEF(50) Predicted</i> |
|----------------|--------------|---|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 2.91016 - 7.641 (median=4.743 mean=4.9942 std=0.8205) |
| 20 | | Missing |

| <i>FEF7501</i> | | <i>FEF(75) Predicted</i> |
|----------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15780 | Range | 1.517 - 4.061 (median=2.37 mean=2.501 std=0.412) |
| 12 | | Missing |

| <i>FEV1FVC1</i> | | <i>FEV(1)/FVC Predicted (%)</i> |
|-----------------|--------------|---|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 65.37872 - 86.556 (median=78.946 mean=77.2037 std=4.4886) |
| 20 | | Missing |

| <i>FEV3FVC1</i> | | <i>FEV(3)/FVC Predicted (%)</i> |
|-----------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 79.934184 - 97.5196 (median=93.0798 mean=90.64093 std=5.05885) |
| 20 | | Missing |

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| <i>FEV_101</i> | | <i>FEV(1) Predicted (Liters)</i> |
|----------------|--------------|---|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 1.29624 - 4.9262 (median=2.8665 mean=3.02239 std=0.66010) |
| 20 | | Missing |

| <i>FEV_301</i> | | <i>FEV(3) Predicted (Liters)</i> |
|----------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 1.360832 - 5.8879 (median=3.3627 mean=3.54678 std=0.78700) |
| 20 | | Missing |

| <i>FEV_501</i> | | <i>FEV(.5) Predicted (Liters)</i> |
|----------------|--------------|---|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 1.12464 - 3.8941 (median=2.2512 mean=2.40627 std=0.52965) |
| 20 | | Missing |

| <i>FVC01</i> | | <i>FVC Predicted (Liters)</i> |
|--------------|--------------|--|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 1.329416 - 6.3056 (median=3.5513 mean=3.77602 std=0.86103) |
| 20 | | Missing |

| <i>ID</i> | | <i>Aric Subject ID (Cir)</i> |
|-----------|--------------|------------------------------|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15792 | Present | Text suppressed |

| <i>PEFR01</i> | | <i>PEFR Predicted</i> |
|---------------|--------------|---|
| <i>N</i> | <i>Value</i> | <i>Description</i> |
| 15772 | Range | 3.6872 - 11.103 (median=6.224 mean=6.8872 std=1.5016) |
| 20 | | Missing |