

**Title:** The Relationship of Age and Height to Lung Function is the same among Whites, African-Americans, and Hispanics.

**Online Data Supplement**

**Web Table 1.** *P*-values for main effect terms for the forced expiratory volume in 6 seconds (FEV<sub>6</sub> in mL) among women in the National Health and Nutrition Examination Survey (NHANES III) with final reference equation on an additive scale, with beta coefficients and 95% confidence intervals.

<b><i>P</i>-values for main effect terms</b>					
<b>FEV<sub>6</sub> Model</b>	<b>age</b>	<b>age<sup>2</sup></b>	<b>height<sup>2</sup></b>	<b>African-American</b>	<b>Mexican-American</b>
Full model without interaction terms for race/ethnicity	<i>p</i> =0.11	<i>p</i> <0.0001	<i>p</i> <0.0001	<i>p</i> <0.0001	<i>p</i> =0.036
Without main effect for age	-----	<i>p</i> <0.0001	<i>p</i> <0.0001	<i>p</i> <0.0001	<i>p</i> =0.038
<b>FEV<sub>6</sub> Reference Equation</b>					
<b>Intercept</b>	<b>age</b>	<b>age<sup>2</sup></b>	<b>height<sup>2</sup></b>	<b>African-American</b>	<b>Mexican-American</b>
266.9	-----	-0.2345	0.1415	-606.6	-47.69
[30.02, 503.9]		[-0.2455, -0.2235]	[0.1329, 0.1500]	[-649.3, -536.9]	[-92.72, -2.650]

**Web Table 2.** *P*-values for main effect terms for the forced expiratory volume in 6 seconds (FEV<sub>6</sub> in mL) among men in the National Health and Nutrition Examination Survey (NHANES III) with final reference equation on an additive scale, with beta coefficients and 95% confidence intervals.

<b>P-values for main effect terms</b>					
<b>FEV<sub>6</sub> Model</b>	<b>age</b>	<b>age<sup>2</sup></b>	<b>height<sup>2</sup></b>	<b>African-American</b>	<b>Mexican-American</b>
Full model without interaction terms for race/ethnicity	<i>p</i> =0.04	<i>p</i> =0.02	<i>p</i> <.0001	<i>p</i> <.0001	<i>p</i> =0.47
Without main effect for Mexican-American ethnicity	<i>p</i> =0.04	<i>p</i> =0.03	<i>p</i> <.0001	<i>p</i> <.0001	-----
<b>FEV<sub>6</sub> Reference Equation</b>					
<b>Intercept</b>	<b>age</b>	<b>age<sup>2</sup></b>	<b>height<sup>2</sup></b>	<b>African-American</b>	<b>Mexican-American</b>
315.0	-13.40	-0.1505	0.1766	-804.6	-----
[-133.1, 763.0]	[-26.22, -0.5752]	[-0.2829, -0.0180]	[0.1649, 0.1883]	[-872.5,-736.6]	

**Web Table 3.** Final reference equations with beta coefficients, *P*-values, and 95% confidence intervals for the forced expiratory volume in 1 second (FEV<sub>1</sub> in mL), the forced vital capacity (FVC in mL) and the FEV<sub>1</sub>/FVC ratio for women and men in the Multi-Ethnic Study of Atherosclerosis Lung (MESA-Lung) sample

WOMEN								
	intercept	age	age <sup>2</sup>	height <sup>2</sup>	African-American	Mexican-American	Non Mexican-American	Chinese-American
<b>FEV<sub>1</sub> Reference Equation</b>	1678 <i>p</i> <0.0001 [1296, 2059]	-22.78 <i>p</i> <0.0001 [-25.21,-20.35]	-----	0.0800 <i>p</i> <0.0001 [0.0685, 0.0916]	-298.8 <i>p</i> <0.0001 [-363.9, -233.8]	-----	-151.2 <i>p</i> =0.0002 [-229.7,-72.71]	-282.7 <i>p</i> <0.0001 [-339.5, -225.9]
<b>FVC Reference Equation</b>	798.5 <i>p</i> =0.0003 [370.2,1226]	-----	-0.1688 <i>p</i> <0.0001 [-0.1922,-0.1454]	0.1104 <i>p</i> <0.0001 [0.0956,0.1252]	-451.494 <i>p</i> <0.0001 [-535.3, -367.7]	-----	-223.7 <i>p</i> <0.0001 [-325.0,-122.5]	-352.2 <i>p</i> <0.0001 [-425.5,-279.0]
MEN								
	intercept	age	age <sup>2</sup>	height <sup>2</sup>	African-American	Mexican-American	Non Mexican-American	Chinese-American
<b>FEV<sub>1</sub> Reference Equation</b>	2707 <i>p</i> <0.0001 [2053,3360]	-32.06 <i>p</i> <0.0001 [-36.30,-27.81]	-----	0.0853 <i>p</i> <0.0001 [0.0677 , 0.1029]	-544.6 <i>p</i> <0.0001 [-655.3, -433.8]	-----	-179.4 <i>p</i> =0.0002 [-315.2,-43.73]	-354.3 <i>p</i> =0.0096 [-462.6,-246.0]
<b>FVC Reference Equation</b>	1871 <i>p</i> <0.0001 [998.2, 2743]	-26.74 <i>p</i> <0.0001 [-32.41,-21.07]	-----	0.1357 <i>p</i> <0.0001 [0.1121,0.1592]	-759.5 <i>p</i> <0.0001 [-907.4, -611.6]	-----	-240.0 <i>p</i> = 0.0094 [-421.2,-58.85]	-447.5 <i>p</i> <0.0001 [-592.1, -303.0]
WOMEN AND MEN								
	intercept	age	age <sup>2</sup>	height <sup>2</sup>	African-American	Mexican-American	Non Mexican-American	Chinese-American
<b>FEV<sub>1</sub>/FVC Reference Equation</b>	101.7 <i>p</i> <0.0001 [974.3,105.9]	-0.24 <i>p</i> <0.0001 [-0.27,-0.20]	-----	-0.00035 <i>p</i> <0.0001 [-0.00046, -0.00024]	2.00 <i>p</i> <0.0001 [1.115, 2.888]	1.192 <i>p</i> =0.0369 [0.0725,2.313]	-----	-----