

Supplemental Digital Content 1. Table

Adjusted effect of demographic, behavioral and clinical factors on absolute FEV1 and FVC*				
Predictor	FEV1 (ml)		FVC (ml)	
	<u>Difference (95% CI)</u>	<u>p-value</u>	<u>Difference (95% CI)</u>	<u>p-value</u>
Female sex	-920 (-988, -851)	<0.001	-1239 (-1321, -1157)	<0.001
Age (per 5 years)	-150 (-175, -124)	<0.001	-160 (-191, -128)	<0.001
Black race	-299 (-436, -162)	<0.001	-437 (-613, -261)	<0.001
BMI (per kg/m <sup>2</sup> )	-16.2 (-19.9, -12.4)	<0.001	-29.6 (-34.4, -24.8)	<0.001
Baseline smoking history (per 10 pack-years)	-11.2 (-31.6, 9.27)	0.284	-0.60 (-25.4, 24.2)	0.962
Current smoking	-6.7 (-44.5, 31.1)	0.727	1.19 (-38.7, 41.0)	0.953
Year from initial spirometry	-27.0 (-35.6, -18.4)	<0.001	3.26 (-6.44, 13.0)	0.51
Prior respiratory infection	-106 (-162, -48.8)	<0.001	-96.5 (-167, -26.4)	0.007
HIV infection	-154 (-221, -86.4)	<0.001	-210 (-288, -132)	<0.001

\*Adjusted for other predictors in table. BMI= body mass index; HIV= human immunodeficiency virus.

Supplemental Digital Content 2. Table

Effect of Markers of HIV Infection on annual FEV1/FVC ratio		
	Adjusted change	p-value <sup>†</sup>
Serostatus		
HIV negative	-0.00779	
HIV positive	-0.00787	0.96
Plasma viral load (copies/ml)		
HIV negative	-0.00779	
HIV positive, viral load≤75,000	-0.00755	0.87
HIV positive, viral load >75,000	-0.01186	0.25
CD <sub>4</sub> cell count (cells/ml <sup>3</sup> )		
HIV negative	-0.00778	
HIV positive, CD <sub>4</sub> >200	-0.00720	0.73
HIV positive, CD <sub>4</sub> 100-200	-0.01190	0.25
HIV positive, CD <sub>4</sub> <100	-0.00631	0.61
Combined viral load/CD <sub>4</sub> levels		
HIV negative	-0.007916	
HIV pos, CD <sub>4</sub> ≥100, VL≤75,000	-0.008178	0.87
HIV pos, CD <sub>4</sub> <100, VL≤75,000	-0.0047251	0.39
HIV pos, CD <sub>4</sub> ≥100, VL>75,000	-0.126301	0.35
HIV pos, CD <sub>4</sub> <100, VL>75,000	-0.0107837	0.37

\*Models adjusted for sex, age, race, baseline pack-years smoked, current smoking status, body mass index and history of prior respiratory infections. <sup>†</sup>P-value comparing HIV parameter to HIV negative.