

**eTable 1. Mean Difference (95% CI) or Odds Ratio (95% CI) between Each Group and the “None” Group<sup>a</sup>**

	<b>ACOS1</b>	<b>Self-Reported COPD only</b>	<b>Current Asthma only</b>	<b>None</b>
<b>Mean difference (95% CI)</b>				
FEV <sub>1</sub> % predicted	-15.4 (-20.4 to -10.4)	-13.2 (-17.4 to -9.1)	-7.3 (-8.6 to -6.0)	0.0
FVC % Predicted	-9.0 (-12.5 to -5.4)	-7.9 (-11.0 to -4.9)	-2.5 (-3.9 to -1.1)	0.0
FEV <sub>1</sub> /FVC	-0.07 (-0.09 to -0.04)	-0.06 (-0.08 to -0.04)	-0.04 (-0.05 to -0.03)	0.0
% improvement in FEV <sub>1</sub> <sup>b</sup>	0.2 (-2.2 to 2.5)	4.0 (0.6 to 7.4)	4.1 (2.1 to 6.1)	0.0
Fractional exhaled NO (ppb)	3.9 (1.3 to 6.4)	-1.4 (-2.7 to 0.0)	7.6 (5.6 to 9.6)	0.0
Eosinophil count (SI×1000)	61.2 (23.7 to 98.7)	2.8 (-22.7 to 28.3)	46.0 (29.0 to 63.0)	0.0
<b>Odds ratio (95% CI)</b>				
With spirometry	0.5 (0.3-0.6)	0.7 (0.5-0.9)	0.9 (0.7-1.1)	1.0
With obstruction	4.4 (2.8-7.0)	2.6 (1.7-4.0)	3.5 (2.7-4.6)	1.0
With restriction	1.8 (1.1-3.2)	0.9 (0.6-1.5)	1.4 (1.0-1.9)	1.0
With bronchodilator	0.7 (0.4-1.5)	1.4 (0.9-2.3)	2.3 (1.8-3.0)	1.0
With significant response <sup>b</sup>	0.2 (0.0-1.5)	2.8 (0.9-8.1)	3.4 (2.0-5.6)	1.0
With eosinophils (%) ≥ 2%	1.5 (1.2-2.0)	0.9 (0.6-1.3)	1.5 (1.2-1.7)	1.0

Abbreviations: ACOS1, self-reported COPD and current asthma; COPD, chronic obstructive pulmonary disease.

<sup>a</sup> Adjusted for age, gender, BMI, race/ethnicity, education, physical activity, and cigarette smoking.

<sup>b</sup> Response after bronchodilator > 12% and 200 mL.

**eTable 2. Difference (95% CI) or OR (95% CI) between Each Group and the “None” Group<sup>a</sup>**

	<b>ACOS2</b>	<b>Spirometric COPD only</b>	<b>Current Asthma only</b>	<b>None</b>
<b>Mean difference (95% CI)</b>				
FEV <sub>1</sub> % predicted	-26.6 (-29.5 to -23.7)	-15.7 (-16.8 to -14.6)	-4.1 (-5.4 to -2.8)	0.0

FVC % Predicted	-6.3 (-9.1 to -3.5)	1.3 (0.2 to 2.3)	-2.1 (-3.5 to -0.7)	0.0
FEV <sub>1</sub> /FVC	-0.18 (-0.19 to -0.16)	-0.14 (-0.14 to -0.14)	-0.02 (-0.02 to -0.01)	0.0
% improvement in FEV <sub>1</sub> <sup>a</sup>	7.4 (4.6 to 10.1)	3.2 (1.9 to 4.6)	0.3 (-2.0 to 2.7)	0.0
Fractional exhaled NO (ppb)	8.7 (5.3 to 12.1)	-0.2 (-1.2 to 0.8)	6.9 (4.5 to 9.4)	0.0
Eosinophil count (SI×1000)	71.1 (40.2 to 102.1)	12.1 (0.4 to 23.9)	42.2 (24.1 to 60.4)	0.0
<b>OR (95% CI)</b>				
With spirometry	NA	NA	NA	1.0
With obstruction	NA	NA	NA	1.0
With restriction	NA	NA	2.0 (1.5-2.6)	1.0
With bronchodilator	71.5 (49.4-103.6)	160.1 (117.8-217.6)	2.4 (1.6-3.7)	1.0
With significant response <sup>a</sup>	10.9 (3.5-33.9)	3.9 (1.4-10.4)	1.9 (0.5-7.2)	1.0
With eosinophils (%) ≥ 2%	1.9 (1.3-2.9)	1.1 (0.9-1.3)	1.4 (1.1-1.8)	1.0

Abbreviations: ACOS2, spirometric COPD and current asthma, COPD, chronic obstructive pulmonary disease.

<sup>a</sup> Adjusted for age, gender, BMI, race/ethnicity, education, physical activity, and cigarette smoking.

<sup>b</sup> Response after bronchodilator of > 12% and 200 mL.