

Table Suppl tab LLN. Odds ratios for Variables that are Independent Predictors of Exacerbations in the Past One Year in the COPD and Non-COPD Subjects

	Exacerbation in the past 1 year			
	Non COPD(post FEV1/FVC≥LLN) and no DDX asthma/emphysema/ chronic bronchitis/COPD		COPD (post FEV1/FVC <LLN)	
	Crude ORs(95%CI)	Adjusted ORs [#] (95%CI)	Crude ORs(95%CI)	Adjusted ORs [#] (95%CI)
<i>Age categories</i>				
40-49	1.00	1.00	1.00	1.00
50-59	0.79(0.53,1.19)	0.69(0.44,1.10)	1.02(0.43,2.43)	0.94(0.31,3.88)
60-69	0.53(0.32,0.88)	0.55(0.31,0.99)	1.01(0.43,2.38)	0.67(0.21,2.11)
70 and above	0.70(0.41,1.20)	0.73(0.38, 1.40)	0.94(0.39,2.24)	0.53(0.15,1.81)
Female (male as Ref)	1.47(1.03,2.09)	1.57(1.05,2.37)	1.26(0.71,2.23)	1.50(0.70,3.21)
<i>BMI categories</i>				
<20	0.69(0.29,1.66)	0.70(0.26,1.88)	1.38(0.17,11.22)	1.09(0.11, 10.91)
[20,25)	1.00	1.00	1.00	1.00
[25,30)	0.68(0.28,1.62)	0.64(0.24,1.75)	1.66(0.21,13.14)	0.98(0.10, 9.88)
30 and above	0.83(0.35,2.01)	0.50(0.17,1.37)	2.90(0.37,22.90)	0.88(0.09, 8.93)
Ever smoking of cigarettes(never as Ref)	1.61(1.14,2.29)	1.20(0.81,1.79)	1.34(0.70,2.57)	0.63(0.28,1.45)
<i>Pack years of cigarettes</i>				
0	1.00	##	1.00	##
(0, 10)	1.98(1.28,3.05)	##	0.25(0.03,1.97)	##
[10, 20)	1.50(0.87,2.58)	##	1.24(0.45,3.41)	##
20 and above	1.41(0.90,2.21)	##	1.62(0.83,3.16)	##
Passive smoking(Yes; No as Ref)	1.05(0.57,1.92)	##	0.94(0.43,2.06)	##
Chronic cough(Yes; No as Ref)	2.64(1.70,4.12)	1.23(0.70,2.18)	3.58(2.03, 6.32)	0.26(0.56,2.85)
Chronic phlegm(Yes; No as Ref)	2.91(1.79,4.72)	1.89(1.12, 3.50)	3.51(1.98,6.22)	1.20(0.52,2.77)
Wheezing(Yes; No as Ref)	7.97(5.58,11.37)	6.26(4.17, 9.39)	5.85(2.71,12.64)	2.85(1.11,7.32)
Breathlessness(Yes; No as Ref)	2.24(1.54,3.26)	1.39(0.89,2.17)	4.25(2.09,8.61)	2.01(0.85,4.76)
Self-reported doctor diagnosis of asthma(Yes; No as Ref)	###	###	2.24(1.27, 3.92)	0.77(0.35,1.68)
Self-reported doctor diagnosis of emphysema/chronic bronchitis/ COPD (Yes; No as Ref)	###	###	3.83(2.17,6.77)	1.72(0.75,3.92)
Co-morbidities*(Yes; No as Ref)	1.12(0.79,1.60)	1.19(0.75,1.88)	1.64(0.94,2.86)	1.53(0.71,3.30)
Childhood hospitalization for breathing problem(Yes; No as Ref)	1.69(0.84,3.39)	1.52(0.69,3.34)	1.47(0.66,3.28)	0.82(0.25,2.76)
Use of respiratory drugs(Yes; No as Ref)	2.80(1.99,3.95)	2.01(1.36,2.96)	4.47(2.30,8.68)	2.13(0.90,5.02)
Self-perceived health status - fair or poor(Excellent/very good/good as Ref)	3.82(2.50, 5.85)	2.35(1.35, 4.08)	5.10(2.82,9.23)	2.46(1.11,5.46)
<i>Post-BD FEV1, % predicted</i>				

>80	1.00	1.00	1.00	1.00
[50, 80)	1.13(0.64,2.00)	0.60(0.30,1.19)	2.47(1.20,5.09)	1.23(0.50,3.04)
<50	###	###	8.93(3.89,20.46)	2.44(0.78,7.70)
%Δ FEV1i>12%(≤12% as Ref)**	0.99(0.40,2.47)	1.00(0.37,2.71)	1.68(0.93,3.03)	0.69(0.26,1.88)
%Δ FVCi>12%(≤12% as Ref)**	0.39(0.05,2.81)	0.28(0.03,2.41)	1.13(0.58,2.17)	1.35(0.57,3.22)

*Co-morbidities include heart disease, hypertension, diabetes, and stroke.

** %Δ FVCi=(post FVC-Pre FVC)/Pre FVC, %Δ FEV1i=(post FEV1-pre FEV1)/Pre FEV1

Crude odds ratios are obtained from logistic regression. # The multiple logistic regression is adjusted for any other variables in the model. ## Pack years is not included in the multiple logistic model to avoid the collinearity with ever smoking. Passive smoking is not included in the multiple logistic models because the crude odds ratios are not significant.

No Data in this Category