

Supplementary Materials

Supplementary Table 1. Correlation between plasma cathelicidin levels and blood levels of markers associated with COPD progression.

	Pearson's r	P-value
Vitamin D	0.03	0.23
C-reactive protein	0.14	<0.001
Fibrinogen	0.02	0.59
Interleukin-6	0.03	0.41
S100 Calcium binding protein	0.08	0.17
White blood cell count	0.16	<0.001
Club cell secretory protein-16	0.03	0.22

Supplementary Table 2. Independent associations* between cathelicidin levels and odds of severe AECOPD in the year prior to enrollment

	Low Cathelicidin (<50 vs. ≥50 ng/ml)		Continuous Cathelicidin (per 10 ng/ml lower)	
	OR (95% CI)	P-value	OR (95% CI)	P-value
Cathelicidin	1.22 (0.88-1.69)	0.23	1.04 (0.96-1.13)	0.29
Age, per 10 years	0.53 (0.44-0.65)	<0.001	0.53 (0.44-0.64)	<0.001
Black race	2.13 (1.49-3.04)	<0.001	2.13 (1.49-3.04)	<0.001
Female render	1.31 (0.85-1.51)	0.40	1.12 (0.84-1.49)	0.45
Current smoking	0.54 (0.39-0.76)	<0.001	0.55 (0.39-0.76)	<0.001
Pack-years smoked, per 10 pack-years	0.97 (0.92-1.04)	0.40	1.00 (0.98-1.02)	0.30
BMI, kg/m ²	1.00 (0.97-1.03)	0.95	0.99 (0.96-1.01)	0.24

*Multivariable logistic regression controlled for all covariates in table
Abbreviations: BMI = Body mass index

Supplementary Table 3. Independent associations* between cathelicidin levels and odds of severe AECOPD at one year after enrollment.

	Low Cathelicidin (<50 vs. ≥50 ng/ml)		Continuous Cathelicidin (per 10 ng/ml lower)	
	OR (95% CI)	P-value	OR (95% CI)	P-value
Cathelicidin	0.95 (0.63-1.43)	0.80	1.02 (0.95-1.10)	0.64
Age, per 10 years	0.65 (0.51-0.82)	<0.001	0.74 (0.60-0.92)	0.01
Black race	1.52 (0.96-2.41)	0.13	2.33 (1.58-3.43)	<0.001
Female render	1.32 (0.93-1.87)	0.13	1.37 (1.01-1.88)	0.05
Current smoking	0.68 (0.45-1.01)	0.06	0.77 (0.54-1.11)	0.16
Pack-years smoked, per 10 pack-years	1.03 (0.96-1.10)	0.43	1.04 (0.99-1.10)	0.14
BMI, kg/m ²	0.97 (0.94-1.01)	0.11	0.98 (0.94-1.01)	0.37

*Multivariable logistic regression controlled for all covariates in table

Abbreviations: BMI = Body mass index

Supplementary Figure 1. CONSORT diagram describing selection of cohort.

