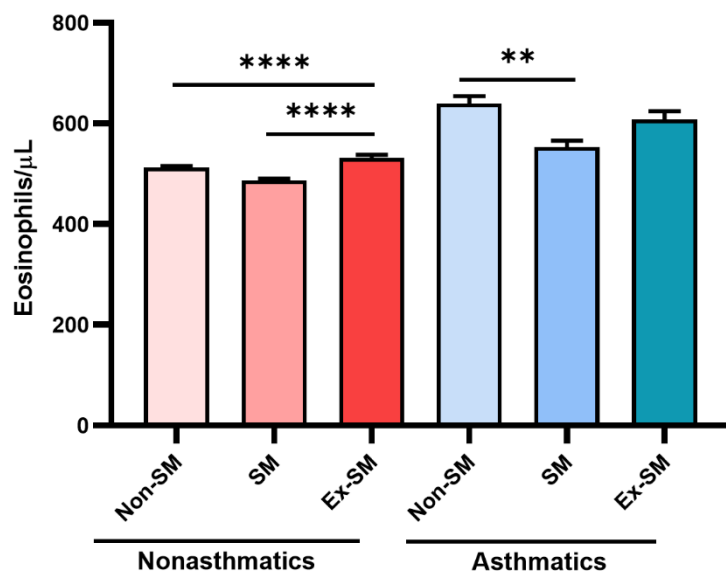
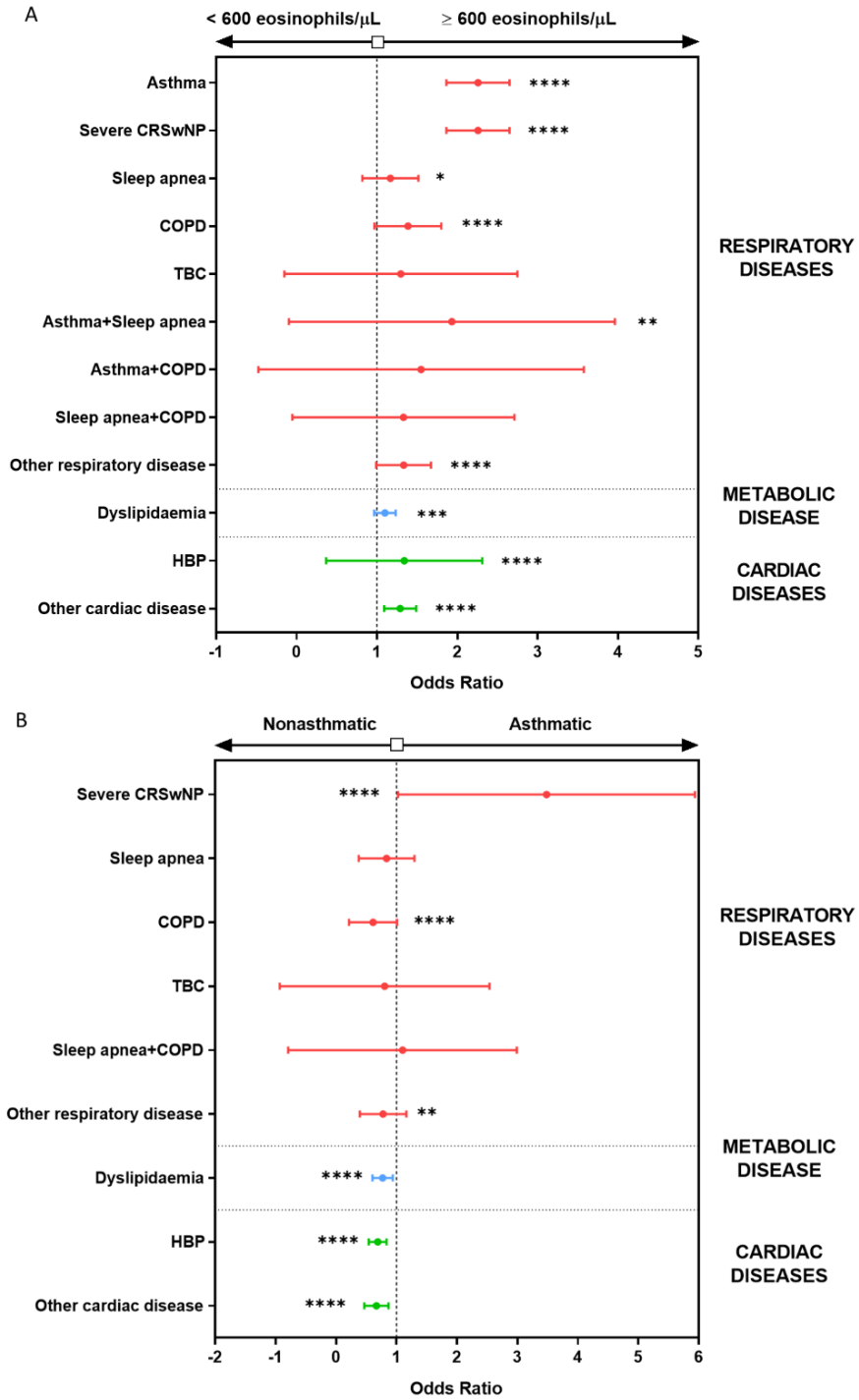


## Supplementary material



**Figure S1.** Smokers have significantly lower mean BEC in both nonasthmatic and asthmatic subjects. BEC in asthmatic and nonasthmatic subjects according to their smoking habit. \*\*\*\*= $P < 0.0001$ ; \*\*= $P < 0.005$ . BEC, Blood Eosinophil Count; Non-SM, Non-smoker; SM, Smoker; Ex-SM, Ex-Smoker.



**Figure S2.** Asthma disease presents a significant association with CRSwNP. Odds ratio of respiratory, metabolic, and cardiovascular diseases according to (A), BEC or (B), asthma. \* =  $P < 0.05$ ; \*\* =  $P < 0.005$ ; \*\*\* =  $P < 0.001$ ; \*\*\*\* =  $P < 0.0001$ . OR: Odds Ratio; CRSwNP: Chronic Rhinosinusitis with Nasal Polyps; COPD: Chronic Obstructive Pulmonary Disease; TBC: Tuberculosis; HBP: High Blood Pressure; BEC: Blood Eosinophil Count.

**Supplementary Table 1:** Univariate and multivariate logistic regression model with BEC>600 eosinophils/μL as the main variable.

Variable	UNIVARIATE		MULTIVARIATE	
	OR (95% CI)	P	OR (95% CI)	P
Age	0.99 (0.99-0.99)	0.002	0.99 (0.99-0.99)	<0.001
Female Sex	0.87 (0.84-0.90)	<0.001	0.85 (0.82-0.89)	<0.001
Hospitalizations	<b>1.49 (1.43-1.54)</b>	<b>&lt;0.001</b>	<b>1.47 (1.41-1.53)</b>	<b>&lt;0.001</b>
Emergency department visits	1.16 (1.06-1.28)	0.001	1.07 (0.97-1.17)	0.186
Severe CRSwNP	<b>2.11 (1.66-2.67)</b>	<b>&lt;0.001</b>	<b>1.78 (1.40-2.27)</b>	<b>&lt;0.001</b>
Dyslipidaemia	1.12 (1.07-1.18)	<0.001	1.08 (1.02-1.14)	0.008
HBP	1.16 (1.11-1.21)	<0.001	1.15 (1.09-1.22)	<0.001
Other cardiovascular disease	<b>1.33 (1.25-1.41)</b>	<b>&lt;0.001</b>	1.16 (1.08-1.25)	<0.001
Asthma	<b>2.10 (1.96-2.24)</b>	<b>&lt;0.001</b>	<b>2.14 (1.99-2.29)</b>	<b>&lt;0.001</b>
Sleep apnea	1.16 (1.03-1.311)	0.015	1.09 (0.96-1.24)	0.164
COPD	<b>1.38 (1.22-1.56)</b>	<b>&lt;0.001</b>	<b>1.35 (1.19-1.54)</b>	<b>&lt;0.001</b>
TBC	1.21 (0.75-1.90)	0.418	1.29 (0.80-2.03)	0.297
Asthma + asleep apnea	<b>1.81 (1.16-2.79)</b>	<b>0.010</b>	0.81 (0.51-1.26)	0.354
Asthma + COPD	<b>1.40 (0.79-2.40)</b>	<b>0.242</b>	0.69 (0.39-1.20)	0.189
Sleep apnea + COPD	1.25 (0.80-1.91)	0.312	1.11 (0.71-1.70)	0.642
Other pulmonary disease	<b>1.33 (1.20-1.47)</b>	<b>&lt;0.001</b>	<b>1.30 (1.17-1.5)</b>	<b>&lt;0.001</b>

Abbreviations: OR, Odds Ratio; 95% CI, 95% Confidence Interval; HBP, High Blood Pressure; CRSwNP, Chronic Rhinosinusitis with Nasal Polyps; COPD, Chronic Obstructive Pulmonary Disease; TBC, Tuberculosis; ns: not statistically significant.

Note: Values in bold are significant and with an OR lesser than 0.7 and/or higher than 1.3.

**Supplementary Table 2:** Univariate and multivariate logistic regression model with asthma as the main variable.

Variable	UNIVARIATE		MULTIVARIATE	
	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>
Age	0.99 (0.99-0.99)	<0.001	0.99 (0.98-0.99)	<0.001
Female sex	<b>1.60 (1.49-1.71)</b>	<b>&lt;0.001</b>	<b>1.58 (1.47-1.69)</b>	<b>&lt;0.001</b>
Hospitalizations	1.05 (0.99-1.13)	0.131	1.09 (1.01-1.17)	0.021
Emergency department visits	<b>0.60 (0.53-0.68)</b>	<b>&lt;0.001</b>	<b>0.55 (0.48-0.63)</b>	<b>&lt;0.001</b>
BEC	1.29 (1.23-1.36)	<0.001	1.30 (1.23-1.37)	<0.001
Severe CRSwNP	<b>3.40 (2.52-4.51)</b>	<b>&lt;0.001</b>	<b>3.35 (2.47-4.46)</b>	<b>&lt;0.001</b>
Dyslipidaemia	0.83 (0.76-0.91)	<0.001	1.04 (0.94-1.16)	0.405
HBP	0.74 (0.68-0.81)	<0.001	0.90 (0.81-0.99)	0.048
Other cardiovascular disease	0.76 (0.68-0.86)	<0.001	0.96 (0.84-1.09)	0.524

Abbreviations: OR, Odds Ratio; 95% CI, 95% Confidence Interval; HBP, High Blood Pressure; CRSwNP, Chronic Rhinosinusitis with Nasal Polyps; COPD, Chronic Obstructive Pulmonary Disease; TBC, Tuberculosis; ns: not statistically significant.

Note: Values in bold are significant and with an OR lesser than 0.7 and/or higher than 1.3.