

Supplementary Tables

Table S1. Repeat analysis using fixed cut-off for FeNO (≥ 58 ppb) as an independent variable, in place of FeNO as a continuous variable, for the dependent variable of asthma attack at follow up.

Table S1. Binary Multiple Logistic Regression Analysis for the Likelihood of ≥ 1 asthma attack during follow up			
Variable	Odds Ratio	95% CI	P value
Age (years)	0.92	0.84-1.01	0.09
Male	0.67	0.40-1.13	0.13
≥ 1 asthma attack in preceding 6 months at baseline	1.95	1.10-3.45	0.02
ACT/CACT < 20 at baseline	1.10	0.64-1.89	0.72
FEV ₁ z-score	1.08	0.81-1.43	0.58
FEV ₁ /FVC z-score	0.96	0.71-1.30	0.80
FeNO ≥ 58 ppb	3.35	1.83-6.15	<0.001
Deprivation Index of Registered Practice	0.94	0.85-1.04	0.25
BMI ≥ 91 st centile (overweight/obese)	1.07	0.61-1.88	0.81
AMR at baseline	1.40	0.68-2.89	0.37
Ethnicity (Reference Ethnic Group = White)			
Black	0.42	0.08-2.05	0.28
Asian	0.37	0.15-0.92	0.03
Mixed/Other	0.99	0.32-3.11	0.99

Table S2. Repeat analysis using change in AMR from baseline to follow up as an independent variable, in place of AMR at baseline, for the dependent variable of poor symptom control at follow up.

Table S2. Binary Multiple Logistic Regression Analysis for the Likelihood of Poor Symptom Control at Follow Up (ACT/CACT < 20) (n = 175)			
Variable	Odds Ratio	95% CI	P value
Age (years)	1.02	0.89-1.18	0.77
Male	1.36	0.60-3.08	0.47
≥ 1 asthma attack in 6 months preceding clinic review	1.06	0.41-2.71	0.91
ACT/CACT < 20 at clinic review	4.24	1.83-9.83	0.001
FEV ₁ z-score at clinic review	1.22	0.76-1.94	0.41
FEV ₁ /FVC z-score at clinic review	0.72	0.44-1.19	0.20
FeNO (ppb) at clinic review	1.00	0.98-1.01	0.46
Deprivation Index of Registered Practice	0.80	0.68-0.93	0.003
BMI ≥ 91st centile (overweight/obese)	0.85	0.33-2.20	0.73
AMR change from baseline to FU (Reference Group = no change)			
AMR increased during FU	1.55	0.52-4.57	0.43
AMR decreased during FU	1.43	0.46-4.45	0.54
Ethnicity (Reference Ethnic Group = White)			
Black	2.34	0.27-20.34	0.44
Asian	0.99	0.32-3.12	0.99
Mixed/Other	0.41	0.03-5.13	0.49

Table S3. Repeat analysis using change in AMR from baseline to follow up as an independent variable, in place of AMR at baseline, for the dependent variable of asthma attack at follow up.

Table S3 Binary Multiple Logistic Regression Analysis for the Likelihood of \geq 1 asthma attack during follow up including AMR change as an independent variable (n = 460)			
Variable	Odds Ratio	95% CI	P value
Age (years)	0.91	0.83-1.00	0.06
Male	0.63	0.36-1.07	0.09
\geq 1 asthma attack in preceding 6 months at baseline	2.33	1.29-4.20	0.005
ACT/CACT < 20 at baseline	1.05	0.61-1.80	0.87
FEV ₁ z-score	1.16	0.87-1.55	0.31
FEV ₁ /FVC z-score	0.98	0.72-1.34	0.92
FeNO (ppb)	1.02	1.01-1.02	<0.001
Deprivation Index of Registered Practice	0.97	0.87-1.07	0.49
BMI \geq 91st centile (overweight/obese)	1.11	0.62-1.97	0.74
AMR change from baseline to FU (Reference Group = no change)			
AMR decreased during FU	1.12	0.53-2.35	0.77
AMR increased during FU	2.99	1.44-6.21	0.003
Ethnicity (Reference Ethnic Group = White)			
Black	0.41	0.07-2.27	0.31
Asian	0.35	0.14-0.91	0.03
Mixed/Other	1.18	0.38-3.67	0.77