Supplemental Figure E1: Asthma control during study treatment for participants assigned to mometasone and placebo for (a) participants ages 6-11 years measured by the Childhood Asthma Control Test and for (b) participants for participants 12 years of age and older measured by the Asthma Control Test.



Supplemental Table 1: Characteristics of the study population at randomization stratified by availability of the ACT or cACT questionnaire at 24 weeks.

		Non-completers $(N = 69)$		Completers $(N = 319)$	
Therapy, N(%)					
Placebo	35	(18%)	164	(82%)	
Mometasone	34	(18%)	155	(82%)	
Demographics					
Age in years, Median (IQR)	21	(14, 35)	28	(12, 45)	
Age categories, N (%)					
Pediatric (6-11 years old)	15	(22%)	71	(22%)	
Adolescent (12-17 years old)	11	(16%)	54	(17%)	
Adult (18 and older)	43	(62%)	194	(61%)	
Race/ethnicity, N (%)	2.5	(2004)	101	(2004)	
White	26	(38%)	121	(38%)	
Black	29 14	(42%)	118	(37%)	
Hispanic Other	0	(20%) (0%)	67 13	(21%) (4%)	
Male, N (%)	34	(49%)	143	(45%)	
Second-hand smoke exposure, N (%)	13	(19%)	79	(25%)	
Asthma characteristics					
Age of asthma onset, Median (IQR)	5	(2, 13)	5	(1, 13)	
Emergency visits in the past 12 months, N (%)	53	(77%)	195	(61%)	
Steroid bursts in the past 12 months, N (%)	39	(57%)	151	(47%)	
Using controller medication, N (%)*	42	(61%)	236	(74%)	
ICS in combination with LABA	26	(38%)	140	(44%)	
ICS without LABA	16	(23%)	95	(30%)	
Lung function, Median (IQR)					
Pre-bronchodilator FEV ₁ (% predicted)	86	(76, 96)	85	(74, 95)	
Pre-bronchodilator FVC (% predicted)	100	(92, 108)	95	(84, 105)	
Pre-bronchodilator FEV ₁ /FVC	0.74	(0.67, 0.77)	0.76	(0.69, 0.81)	
Peak expiratory flow (L/min)	360	(300, 440)	340	(280, 420)	
PC_{20} (mg/mL)	0.75	(0.25, 3.63)	1.34	(0.29, 4.31)	
Questionnaires, Median (IQR)					
ACT score (range: 5-25) \frac{\dagger}{\dagger}	16	(14, 19)	17	(14, 19)	
cACT score (range: 0-27)↑†	18	(16, 19)	17	(14, 19)	
Asthma symptom utility index (range: 0-1) ↑‡	0.83	(0.71, 0.89)	0.77	(0.69, 0.88)	
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Marks asthma quality of life questionnaire (range: 1-80)↓ § Children's health survey for asthma (range: 0-100)↑**	18	(10, 39)	19	(11, 30)
Physical health (child)	75	(67, 85)	77	(70, 87)
Activities (child)	85	(70, 95)	85	(65, 100)
Activities (family)	96	(88, 100)	92	(83, 100)
Emotional health (child)	90	(55, 100)	80	(60, 95)
Emotional health (family)	76	(71, 90)	79	(69, 90)
Sinus symptom score (range: 1-60) ↓‡	26	(17, 33)	25	(17, 33)
SNOT-22 (range: 0-120)↓ §	37	(18, 51)	37	(22, 54)
SN-5 (range: 1-7) \downarrow **	3.2	(2.8, 4.6)	3.6	(2.8, 4.5)

^{*} One individual was using LABA without ICS.

IQR = interquartile range; N = number; % = percent; \uparrow = high scores indicate better health; \downarrow = low scores indicate better health

[†] The ACT was administered to participants 12 years of age and older and the cACT was administered to participants aged 6 to 11 years.

[‡] The ASUI and SSS were administered to all participants.

[§] The Marks asthma quality of life questionnaire and the SNOT-22 were administered to participants aged 18 and older.

^{**} The Children's health survey for asthma and the SN-5 were administered to participants ages 6 to 11 years.

ST2: New Sinus and new/increasing asthma medication use during treatment period of trial

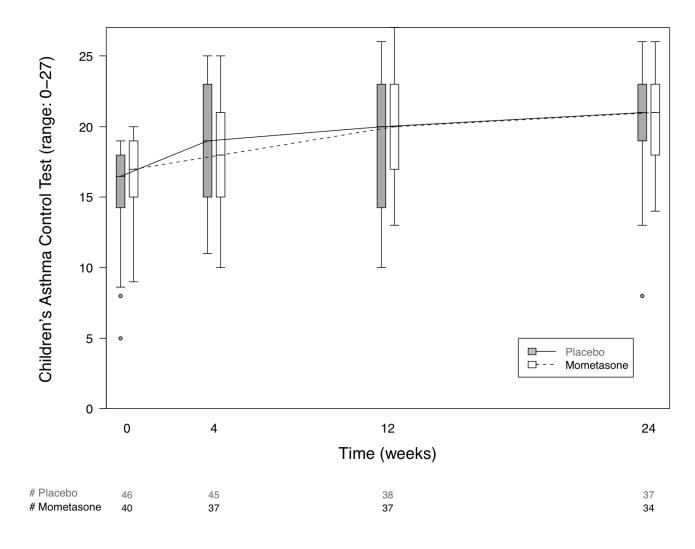
	Mometasone			Placebo			
	N	New	%	N	New	%	D *
	11	users	70	11	users	70	Г,
Children							
Started new sinus med.	66	23	35	75	23	31	0.60
Started or increased dose of asthma med.	66	12	18	75	9	12	0.30
Adults							
Started new sinus med.	111	35	32	111	38	34	0.67
Started or increased dose of asthma med.	111	6	5	111	9	8	0.42

^{*}P-value based on Chi-square test comparing proportion of participants in each treatment group.

New Sinus medication did not include nasal steroids which were not permitted in this study, but included antihistamines and decongestants, which were permitted.

Supplemental Figure E1:

(a)





(b)

