

Supplementary Table 1. Baseline clinical and laboratory characteristics of patients with severe asthma before omalizumab therapy (n = 21)

Current age (y) mean ± SD	10.2 ± 3.98	
Age at diagnosis (y) median (IQR 25-75%)	7 (4-8)	
Sex n (%)	Female	8 (38.1)
	Male	13 (61.9)
Body Weight (kg) mean ± SD	36.1 ± 13.7	
Aeroallergen Sensitivity n (%)	House dust mite	10 (47.6)
	Pollen	14 (66.7)
	Mold	9 (42.9)
	Multiple aeroallergen	12 (57.1)
Comorbid allergic diseases n (%)	AR	12 (57.1)
	Chronic Urticaria	2 (9.6)
	None	7 (33.3)
Total IgE levels (IU / ml) median (IQR 25-75%)	650 (300-996)	
Blood eosinophil count (/ mL) median (IQR 25-75%)	100 (20-400)	
ICS + LABA		
Asthma medications n (%)	Budesonid + formoterol	15 (71.4)
	Fluticasone + salmeterol	6 (28.6)
	LTRA	14 (66.7)
	Systemic CS	2 (9.6)
High dose ICS Use n (%)	21 (100)	
Duration of high dose ICS Use (mo) median (IQR 25-75%)	7 (5-11)	

Abbreviations: AR = allergic rhinitis; CS = corticosteroid; ICS = inhaler corticosteroid; IgE = immunoglobulin E; IU = international unit, IQR = interquartile range; kg = kilograms; LABA = long-acting beta agonist; LTRA = leukotriene receptor antagonist; ml = milliliter; mo = month; n = number; SD = standard deviation; y = years

Supplementary Table 2. Comparison of clinical and laboratory parameters before and 9th month of omalizumab treatment, data is presented with median (IQR 25-75%)

	Before Omalizumab	9th mo of Omalizumab	p*
Total IgE (IU/ml)	650 (300-996)	600 (340-800)	0.8
Asthma Attacks (per 6 mo)	8 (6-10)	2 (1-3)	< 0.01
Hospitalizations (per 6 mo)	2 (1-3)	1 (0-1)	< 0.001
ICS Dosage (mcg)	500 (320-600)	125 (80-160)	< 0.001
Systemic CS Use Days (per 6 mo)	18 (10-30)	3 (0-5)	< 0.001
FEV1 (%)	55 (50-60)	82 (80-85)	< 0.001
Reversibility on Spirometry (%)	16 (15-20)	5 (0-10)	0.009
ACT	7 (6-7)	22 (21-23)	0.03
C-ACT	7 (6-8)	22 (21-23)	< 0.001
Patient School Days Lost (per 6 mo)	15 (10-20)	3 (0-5)	< 0.001

Abbreviations: ACT = Asthma Control Test; C-ACT = Childhood Asthma Control Test; CS = corticosteroid; FEV1 = forced expiratory volume 1; ICS = inhaler corticosteroid; IgE = immunoglobulin E; IU = international unit; IQR = interquartile range; kg = kilograms; mcg = micrograms; ml = milliliter; mo = month. *p < 0.05 indicates statistical significance, Wilcoxon signed-rank Test