

Table SI. Baseline profiles of patients with total IgE > 100 kU/L according to response to standard-dosed sgAHs.

Characteristics	Baseline (N=54)	Standard-dosed sgAHs		
		Good Responders (N=19)	Poor responders (N=35)	P value
Gender				0.359 [†]
Male	23 (36.4%)	6 (31.6%)	17 (48.6%)	
Female	31 (63.6%)	13 (68.4%)	18 (51.4%)	
Age at onset (years), median (IQR)	33.6 (24.1 - 48.7)	27.1 (20.7 - 41.2)	34.1 (27.7 - 52.5)	0.057 [§]
Disease duration (months), median (IQR)	14.4 (4.6 - 62.1)	7.0 (3.7 - 17.5)	25.2 (6.6 - 99.7)	0.036[§]
Concomitant angioedema				0.989 [†]
Presence	10 (18.5%)	3 (15.8%)	7 (20.0%)	
Absence	44 (81.5%)	16 (84.2%)	28 (80.0%)	
History of atopy				0.866 [†]
Presence	25 (46.3%)	8 (42.1%)	17 (48.6%)	
Absence	29 (53.7%)	11 (57.9%)	18 (51.4%)	
Concomitant autoimmune disease				0.230 [†]
Presence	2 (3.7%)	2 (10.5%)	0 (0.0%)	
Absence	52 (96.3%)	17 (89.5%)	35 (100.0%)	
Pruritus intensity (NRS, 0-10)				0.033[†]
0-3: mild	27 (50.0%)	14 (73.7%)	13 (37.1%)	
4-6: moderate	14 (25.9%)	2 (10.5%)	12 (34.3%)	
7-10: severe	13 (24.1%)	3 (15.8%)	10 (28.6%)	
UAS7, mean (± SD)	19.1 (± 12.4)	12.4 (± 9.6)	22.8 (± 12.3)	0.002[*]

Wheals score, median (IQR)	7.0 (3.0 - 14.0)	7.0 (2.0 - 7.0)	14.0 (7.0 - 18.5)	0.002[§]
Itching score, median (IQR)	7.0 (6.0 - 14.0)	7.0 (2.5 - 7.0)	12.0 (7.0 - 14.0)	0.007[§]
Activity based on UAS7				<0.001[†]
0-6: well-controlled	12 (22.2%)	7 (36.8%)	5 (14.3%)	
7-15: mild	13 (24.1%)	9 (47.4%)	4 (11.4%)	
16-27: moderate	12 (22.2%)	1 (5.3%)	11 (31.4%)	
28-42: severe	17 (31.5%)	2 (10.5%)	15 (42.9%)	
Log serum total IgE (kU/l), median (IQR)	5.4 (5.0 - 5.8)	5.3 (4.9 - 5.5)	5.6 (5.2 - 6.0)	0.107 [§]
Blood cells (counts/nl), median (IQR)	6.4 (5.4 - 7.4)	6.6 (5.8 - 7.3)	6.0 (5.3 - 7.6)	0.664 [§]
Lymphocytes (count/nl), mean (± SD)	2.1 (± 0.6)	2.0 (± 0.5)	2.2 (± 0.6)	0.348 [*]
Eosinophils (count/nl), median (IQR)	0.1 (0.1 - 0.2)	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.2)	0.182 [§]
Basophils (count/nl), median (IQR)	0.0 (0.0 - 0.0)	0.0 (0.0 - 0.0)	0.0 (0.0 - 0.0)	0.345 [§]
Antinuclear antibody				0.235 [†]
≥ 1:160	4 (7.4%)	3 (15.8%)	1 (2.9%)	
≤ 1:80	50 (92.6%)	16 (84.2%)	34 (97.1%)	
Thyroid autoimmunity				1.000 [†]
Presence	4 (7.4%)	1 (5.3%)	3 (8.6%)	
Absence	50 (92.6%)	18 (94.7%)	32 (91.4%)	

IQR: interquartile range; SD: standard deviation; NRS, numeric rating scale; UAS, Urticaria activity score.

Statistically significant correlations are written in boldface.

P-values[†] calculated using the χ^2 test; P-values^{*} calculated using independent-samples t-test; P-values[§] calculated using the Mann–Whitney U test.

Table SII. Logistic regression analyses of predictors of standard-dosed sgAH treatment efficacy in the high-IgE subgroup.

Variable	Crude		Age- and sex-adjusted	
	OR (95% CI)	P value	OR (95% CI)	P value
Male gender	2.05 (0.63-6.61)	0.231	-	-
Age at onset	1.04 (1.00-1.09)	0.041	-	-
Disease duration	1.01 (1.00-1.03)	0.080	1.02 (1.00-1.04)	0.012
Concomitant angioedema	1.33 (0.30-5.89)	0.704	1.98 (0.39-10.01)	0.441
History of atopy	1.30 (0.42-4.01)	0.649	1.43 (0.43-4.78)	0.562
Intolerable itching	4.74 (1.39-16.21)	0.013	3.47 (0.95-12.73)	0.061
UAS7	1.09 (1.02-1.15)	0.006	1.08 (1.01-1.15)	0.018
Log serum total IgE levels	2.49 (0.86-7.22)	0.093	2.64 (0.87-8.07)	0.088
Blood cells	1.01 (0.73-1.39)	0.960	0.98 (0.70-1.39)	0.992
Lymphocytes	1.63 (0.59-4.50)	0.343	1.65 (0.54-5.02)	0.378
Eosinophils	145.98 (0.13-158545.58)	0.162	599.94 (0.24-1493907.73)	0.109
Low basophils	0.74 (0.24-2.28)	0.602	0.67 (0.19-2.32)	0.525

UAS: urticaria activity score; ANA: antinuclear antibody; OR: odds ratio; CI: confidence interval. Odds ratios with a *p* value < 0.05 are shown in bold.

Table SIII. Logistic regression analyses for the identification of predictor of standard-dosed sgAH treatment efficacy in patients with classic type I CSU.

Variable	Crude		Age- and sex-adjusted		Multivariate	
	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
Male gender	1.85 (0.73-4.71)	0.196	-	-	0.88 (0.28-2.77)	0.831
Age at onset	1.05 (1.01-1.08)	0.006	-	-	1.08 (1.03-1.14)	0.002
Disease duration	1.01 (1.00-1.02)	0.036	1.02 (1.00-1.03)	0.007	1.01 (1.00-1.03)	0.033
Concomitant angioedema	2.89 (0.56-14.85)	0.204	4.29 (0.74-25.04)	0.105		
History of atopy	0.90 (0.37-2.20)	0.825	0.94 (0.37-2.43)	0.905		
Intolerable itching	1.20 (0.50-2.89)	0.679	0.97 (0.38-2.48)	0.943		
UAS7	1.05 (1.01-1.10)	0.018	1.05 (1.00-1.10)	0.059	1.04 (0.98-1.09)	0.186
Log serum total IgE levels	1.98 (1.22-3.21)	0.006	2.44 (1.36-4.36)	0.003	2.07 (1.13-3.77)	0.018
Blood cells	1.14 (0.87-1.48)	0.341	1.12 (0.84-1.50)	0.429		
Lymphocytes	1.48 (0.62-3.53)	0.374	1.57 (0.59-4.16)	0.363		
Eosinophils	9.63 (0.25-375.02)	0.226	17.52 (0.27-1145.50)	0.179		
Low basophils	0.99 (0.41-2.39)	0.978	0.91 (0.34-2.39)	0.844		

UAS: urticaria activity score; ANA: antinuclear antibody; OR: odds ratio; CI: confidence interval. Odds ratios with a *p* value < 0.05 are shown in bold.

Table SIV. Logistic regression analyses for the identification of predictor of updosed sgAH treatment efficacy in patients with classic type I CSU.

Variable	Crude		Age- and sex-adjusted		Multivariate	
	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
Male gender	1.08 (0.34-3.42)	0.900	-	-		
Age at onset	0.98 (0.94-1.01)	0.172	-	-	0.98 (0.94-1.03)	0.466
Disease duration	1.01 (1.00-1.02)	0.106	1.01 (1.00-1.02)	0.160	1.01 (0.99-1.02)	0.260
Concomitant angioedema	0.75 (0.15-3.79)	0.728	0.67 (0.13-3.54)	0.637		
History of atopy	2.65 (0.80-8.81)	0.112	2.69 (0.79-9.17)	0.115	3.26 (0.78-13.53)	0.104
Intolerable itching	2.62 (0.81-8.55)	0.109	3.33 (0.93-11.90)	0.065	2.38 (0.56-10.07)	0.238
UAS7	0.99 (0.94-1.04)	0.626	0.99 (0.94-1.05)	0.804		
Log serum total IgE levels	1.26 (0.74-2.15)	0.395	1.21 (0.66-2.21)	0.535		
Blood cells	0.96 (0.71-1.30)	0.791	0.95 (0.69-1.32)	0.770		
Lymphocytes	2.46 (0.83-7.31)	0.105	2.32 (0.73-7.33)	0.153	2.07 (0.55-7.86)	0.284
Eosinophils	25.85 (0.18- 3665.69)	0.198	19.14 (0.14- 2612.48)	0.239	2.11 (0.03- 142.46)	0.728
Low basophils	0.37 (0.11-1.23)	0.104	0.37 (0.10-1.33)	0.128	0.57 (0.14-2.33)	0.435

UAS: urticaria activity score; ANA: antinuclear antibody; OR: odds ratio; CI: confidence interval. Odds ratios with a *p* value < 0.05 are shown in bold