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Table S1: Descriptive statistics with a summary output of a mixed model on FeNO and lung function parameters recorded at baseline and during the treatment with benralizumab (n=108 unless otherwise specified). Mean (SD) and n values or n (percentage) and beta regression coefficients with 95% CI are reported for each time point.

Parameter	Baseline	Month 6	Month 12	Month 24	Month 36	p-value
FeNO	61.95 (55.66) 0 n=55	28.74 (21.06) -29.69 (-40.63:-18.75) n=49	32.22 (20.23) -25.27 (-37.73:-12.8) n=35	41.25 (36.92) -20.2 (-32.82:-7.57) n=33	42.27 (32.31) -18.21 (-30.01:-6.41) n=40	0.0001
FCV predicted (%)	93.97 (20.73) 0 n=91	99.92 (20.58) 6.57 (2.99:10.14) n=80	102.26 (24.52) 9.29 (5.49:13.08) n=67	100.19 (19.42) 8.84 (4.98:12.71) n=64	101.59 (19.38) 8.34 (4.69:11.98) n=76	<0.0001
Post BD FEV₁ (L/min.)	2.27 (0.72) 0 61	2.55 (0.77) 0.21 (0.08:0.34) 42	2.80 (0.74) 0.25 (0.09:0.40)	2.65 (0.87) 0.14 (-0.01:0.28) 27	2.54 (0.96) 0.16 (0.02:0.30) 37	0.0397
Post BD FEV1 predicted (%)	87.13 (21.72) 0 n=63	93.97 (23.48) 7.34 (1.51:13.17) n=42	99.11 (17.11) 9.72 (2.87:16.58) n=27	96.8 (20.46) 7.8 (1.43:14.17) n=35	92.97 (25.95) 6.42 (0.3:12.53) n=38	0.1703
Post-BD FCV predicted (%)	87.06 (36.79) 0 n=60	102.9 (23.35) 14.03 (3.28:24.79) n=40	107.93 (21.28) 16.26 (3.83:28.68) n=27	104.08 (31.68) 11.29 (-0.3:22.88) n=34	94.36 (40.22) 3.49 (-7.59:14.56) n=38	0.1703
FEV₁/FVC	54.11 (24.87) 0 n=91	58.95 (25.79) 5.84 (3.52:8.17) n=81	57.02 (27.91) 4.76 (2.28:7.24) n=67	63.83 (18.93) 5.04 (2.5:7.58) n=63	60.7 (24.58) 6.26 (3.87:8.66) n=75	<0.0001
Post BD FEV₁/FVC	62.82 (21.32) 0 n=60	71.82 (9.8) 2.86 (0.71:5.01) n=41	71.55 (9.69) 1.82 (-0.68:4.31) n=27	69.9 (8.16) 1.12 (-1.21:3.44) n=36	68.66 (14.24) 2.15 (-0.06: 4.36) n=40	0.2822

Table S2: Extent of OCS dose reduction during treatment with benralizumab in patients grouped according to OCS dose at baseline (≤ 5 mg/day or >5 mg/day)

Extent of OCS reduction, OCS dose at baseline ≤ 5 mg/day (n=26)	Month 6 (n=25)	Month 12 (n=21)	Month 24 (n=21)	Month 36 (n=21)
<i>Any reduction</i>	20 (80%)	20 (95.24%)	18 (85.71%)	19 (90.48%)
≥ 90 %	14 (56%)	18 (85.71%)	16 (76.19%)	18 (85.71%)
≥ 75 %	15 (60%)	19 (90.48%)	17 (80.95%)	18 (85.71%)
≥ 50 %	19 (76%)	20 (95.24%)	17 (80.95%)	19 (90.48%)
≥ 25 %	20 (80%)	20 (95.24%)	18 (85.71%)	19 (90.48%)
<i>No reduction</i>	5 (20%)	1 (4.76%)	3 (14.29%)	2 (9.52%)
<i>Elimination</i>	14 (56%)	18 (85.71%)	16 (76.19%)	18 (85.71%)
Extent of OCS reduction, OCS dose at baseline >5 mg/day (n=41)	Month 6 (n=39)	Month 12 (n=26)	Month 24 (n=22)	Month 36 (n=24)
<i>Any reduction</i>	32 (82.05%)	21 (80.77%)	21 (95.45%)	23 (95.83%)
≥ 90 %	25 (64.1%)	16 (61.54%)	18 (81.82%)	20 (83.33%)
≥ 75 %	27 (69.23%)	19 (73.08%)	20 (90.91%)	21 (87.5%)
≥ 50 %	31 (79.49%)	21 (80.77%)	21 (95.45%)	23 (95.83%)
≥ 25 %	31 (79.49%)	21 (80.77%)	21 (95.45%)	23 (95.83%)
<i>No reduction</i>	7 (17.95%)	5 (19.23%)	1 (4.55%)	1 (4.17%)
<i>Elimination</i>	25 (64.1%)	16 (61.54%)	17 (77.27%)	20 (83.33%)

Figure S1: Number and percentage of patients who achieved and did not achieve CR (either pCR or cCR) at 12, 24, and 36 months during the treatment with benralizumab (values calculated from baseline).

