

Supplementary Files

Effectiveness outcomes for patients previously exposed to vedolizumab

Overall, 32 patients (31.7%) were previously exposed to vedolizumab. Twenty-three patients had clinically active disease at baseline.

Corticosteroid-free clinical remission

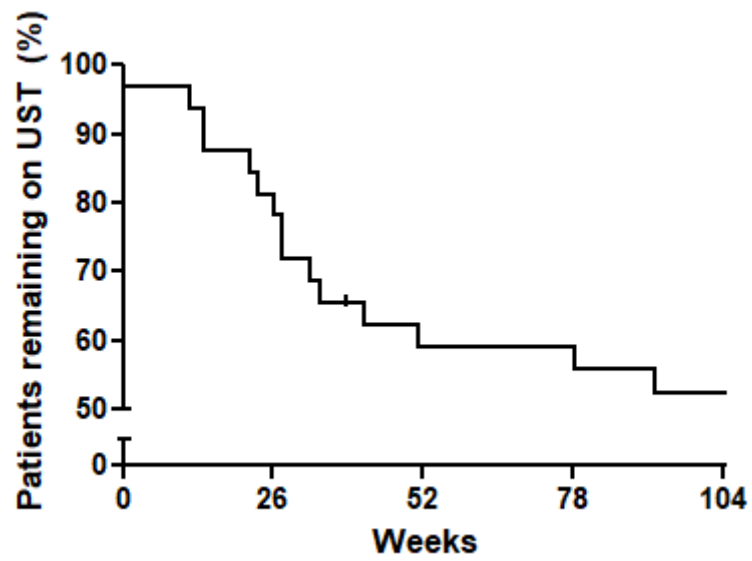
In all patients, the proportion of patients in corticosteroid-free clinical remission was 31.3% (n=10/32), 43.8% (n=14/32), 38.7% (n=12/31) and 29.0% (n=9/31) at week 13, 26, 52 and 104, respectively. In patients with clinically active disease at baseline (Harvey Bradshaw Index ≥ 5), the proportion of patients in corticosteroid-free clinical remission was 26.1% (n=6/23), 30.4% (n=7/23), 36.4% (n=8/22) and 31.8% (n=7/22) at week 13, 26, 52 and 104, respectively.

Biochemical disease activity

In all patients, the proportion of patients in biochemical remission was 31.3 (n=10/32), 34.4% (n=11/32), 31.3% (n=10/32), 12.9% (n=4/31) and 19.4% (n=6/31) at baseline, week 13, 26, 52 and 104, respectively. In patients with clinically active disease at baseline (Harvey Bradshaw Index ≥ 5), the proportion of patients in biochemical remission was 34.8% (n=8/23), 34.8% (n=8/23), 26.1% (n=6/23), 13.6% (n=3/22) and 22.7% (n=5/23) at baseline, week 13, 26, 52 and 104, respectively.

Drug survival in patients previously exposed to vedolizumab

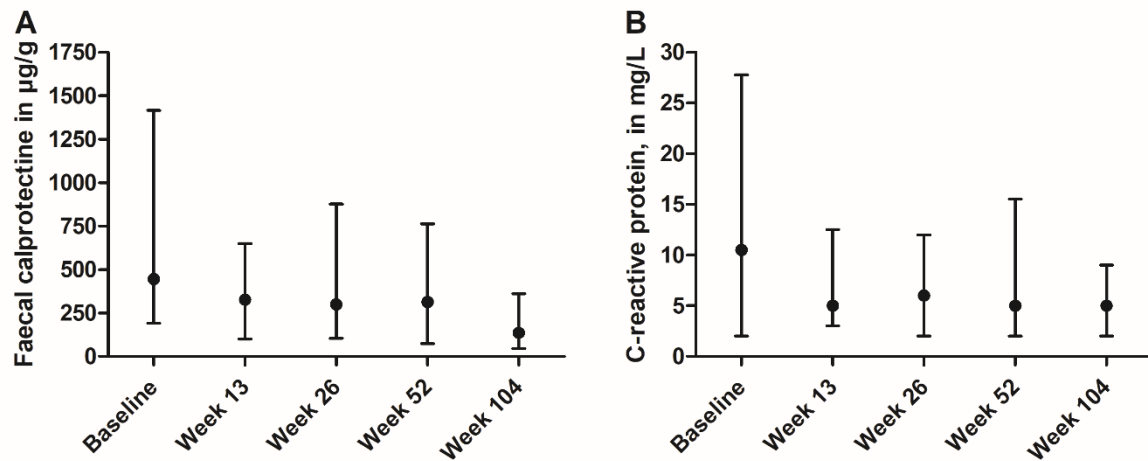
Of 32 patients, 15 patients (46.9%) discontinued ustekinumab after a median treatment duration of 27.4 weeks (interquartile range [14.1 – 41.7]). Discontinuation reasons included primary non-response (n=5), adverse drug reactions (n=5), loss of response (n=4) and patient preference (n=1). The probability of continuing ustekinumab treatment after 52 weeks was 59.1% and 52.5% after 104 weeks. (Supplementary Figure 1)



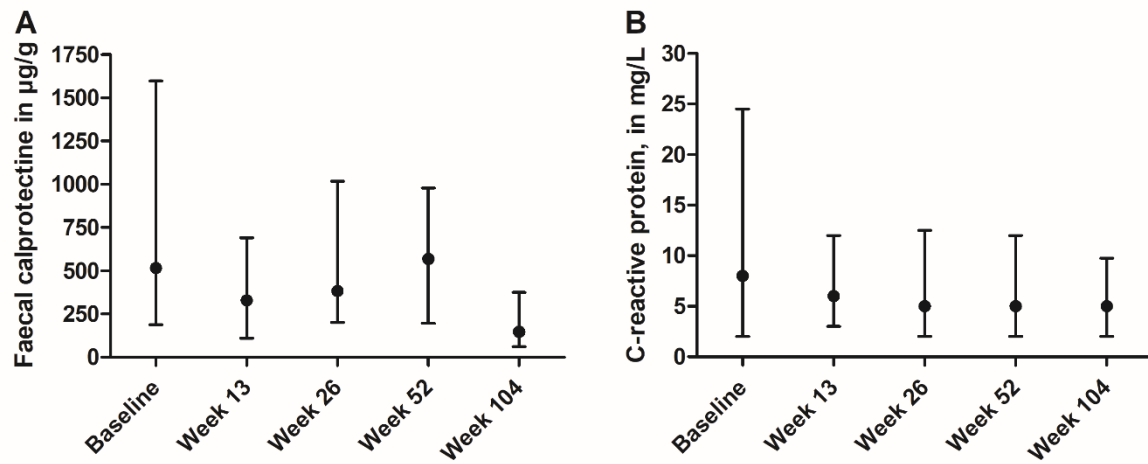
Supplementary Figure 1. Kaplan–Meier curve of ustekinumab treatment survival during 104 weeks follow-up period for patients previously exposed to vedolizumab (n=33). UST = ustekinumab

Reason for discontinuation		Overall	During first year of treatment	During second year of treatment
		N = 436	N = 335	N = 101
Primary non-response	N (%)	14 (32.60.4)	14 (42.40.0)	-
Secondary loss of response	N (%)	168 (37.29.1)	89 (24.25.7)	89 (80.081.8)
Adverse drug reactions	N (%)	78 (16.317.4)	87 (21.222.9)	0 (0.0)
Request of patient	N (%)	3 (7.06.5)	2 (6.15.7)	1 (10.09.1)
Lost to follow-up	N (%)	2 (4.72.4)	1 (3.02.9)	1 (10.09.1)
Complications after surgery	N (%)	1 (2.32)	1 (3.02.9)	0 (0.0)

Supplementary Table 1. Discontinuation reasons ustekinumab



Supplementary Figure 2. Median faecal calprotectin (A) and C-reactive protein (B) levels with interquartile range [in the total patient group](#). Median faecal calprotectin levels of patients on ustekinumab treatment were 445 (IQR 190–1417), 328 (IQR 102–650), 300 (IQR 105–877), 314 (IQR 74–763) and 137 (IQR 46–361) at baseline, week 13, 26, 52 and 104, respectively. Median C-reactive protein levels of patients on ustekinumab treatment were 11 (IQR 2–28), 5 (IQR 3–13), 6 (IQR 2–12), 5 (IQR 2–16) and 5 (IQR 2–9) at baseline, week 13, 26, 52 and 104, respectively. [IQR = interquartile range](#).



Supplementary Figure 3. Median faecal calprotectin (A) and C-reactive protein (B) levels with interquartile range in patients with clinically active disease at baseline defined as Harvey Bradshaw Index score ≥ 5 . Median faecal calprotectin levels of patients on ustekinumab treatment were 516 (IQR 188 – 1598), 329 (IQR 110 – 690), 383 (IQR 200 – 1018), 569 (IQR 195 – 978) and 147 (IQR 61 – 374) at baseline, week 13, 26, 52 and 104, respectively. Median C-reactive protein levels of patients on ustekinumab treatment were 8 (IQR 2 – 25), 6 (IQR 3 – 12), 5 (IQR 2 – 13), 5 (IQR 2 – 12) and 5 (IQR 2 – 10) at baseline, week 13, 26, 52 and 104, respectively. IQR = interquartile range.