

EFFICACY AND SAFETY OF USTEKINUMAB FOR ULCERATIVE COLITIS THROUGH 4 YEARS: FINAL RESULTS FROM THE UNIFI LONG-TERM EXTENSION

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BACKGROUND/OBJECTIVE

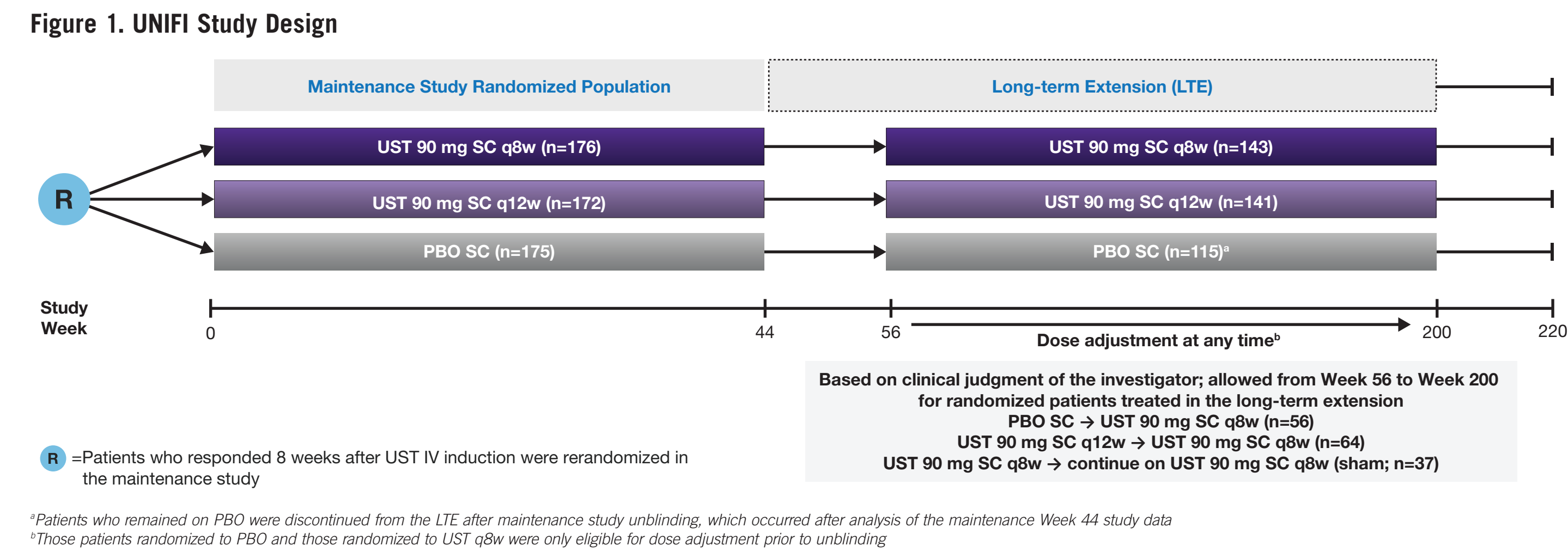
Ustekinumab (UST) is an interleukin-12/23 p40 antagonist approved for the treatment of moderate-to-severe ulcerative colitis (UC)

The UNIFI long-term extension (LTE) evaluated subcutaneous (SC) 90 mg UST maintenance therapy through 4 years

Here, we report the final efficacy and safety data through 4 years of UST treatment, including subpopulations based on biologic treatment history

METHODS

- 523 intravenous (IV) UST induction responders were randomized to SC maintenance therapy²
 - 176 UST 90 mg every 8 weeks (q8w); 172 UST 90 mg q12w; 175 SC placebo (PBO) (Figure 1)
 - The nonrandomized population included:
 - UST induction nonresponders at Week 8 who received SC UST, responded 8 weeks later, and continued to receive UST q8w
 - Responders to PBO induction who received SC PBO
 - Patients who completed Week 44 were eligible to continue treatment in the LTE
 - PBO patients were discontinued after study unblinding
 - Starting at Week 56, randomized patients with UC worsening could adjust to q8w
- Efficacy was evaluated in UST-randomized patients (n=348) using symptomatic remission
 - Mayo stool frequency subscore of 0 or 1 and rectal bleeding subscore of 0
 - Inflammatory biomarkers C-reactive protein (CRP) and fecal calprotectin were measured
 - Disease-specific health-related quality of life was evaluated using the Inflammatory Bowel Disease Questionnaire (IBDQ)
 - Safety was evaluated for all 588 patients treated in the LTE, including randomized and nonrandomized populations



CONCLUSIONS

- Patients with moderate-to-severe UC receiving SC UST generally maintained clinical benefit through 4 years
- No new safety signals were observed through the final year of the UNIFI study

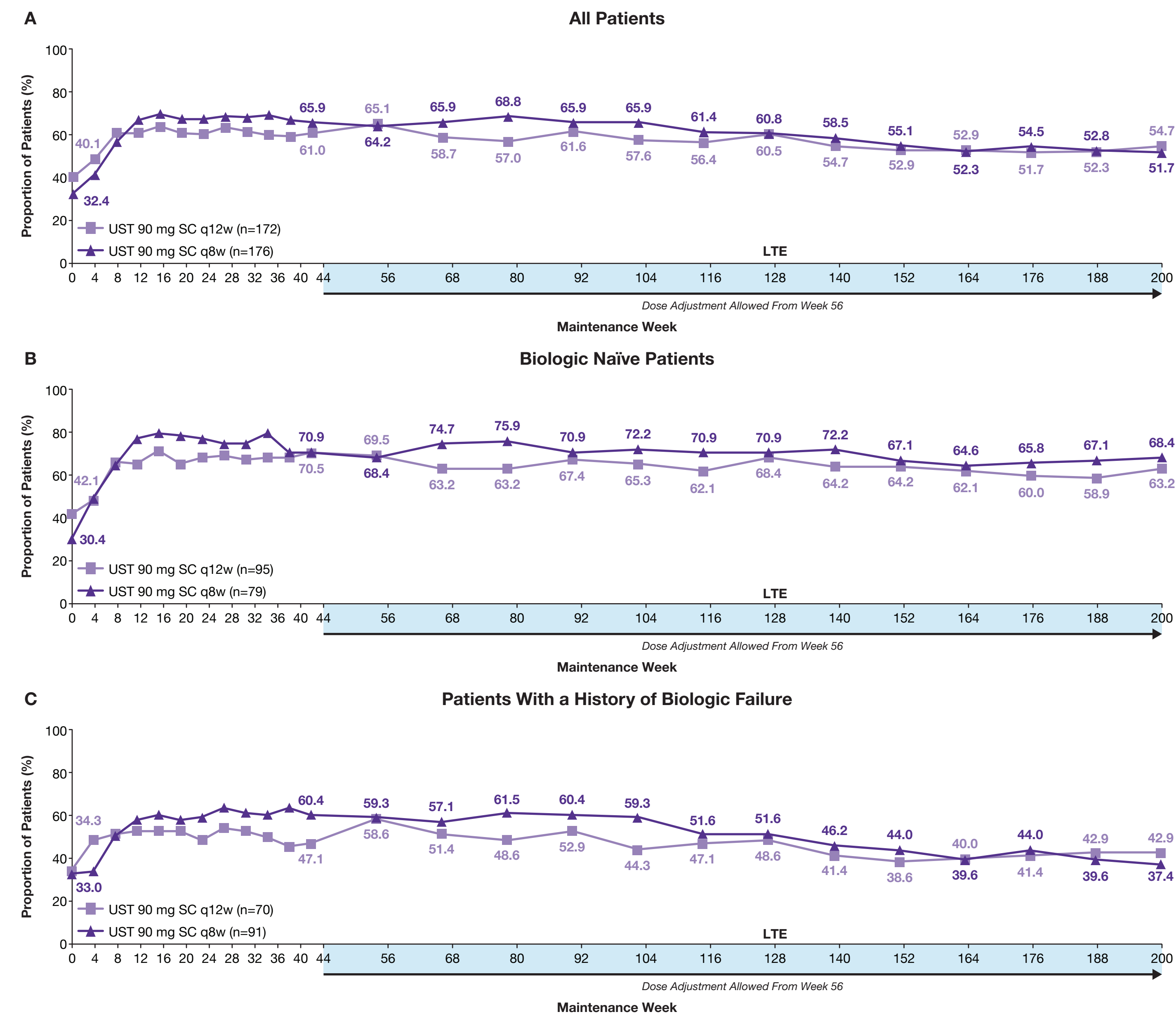
RESULTS

Patients Randomized to UST at Maintenance Baseline (Intent-to-treat [ITT] population)

Symptomatic Remission at Week 200

- The proportion of patients in symptomatic remission at Week 200 were:
 - 55.2% of all patients (q8w and q12w combined)
 - 67.2% of biologic naïve patients
 - 41.6% of patients with a history of biologic failure
- 53.2% of all patients (q8w and q12w combined) achieved corticosteroid-free symptomatic remission at Week 200 (Figure 2A-C)

Figure 2. Corticosteroid-free Symptomatic Remission Through Week 200 in Patients Randomized to Receive UST at Week 0 of Maintenance^{4†}

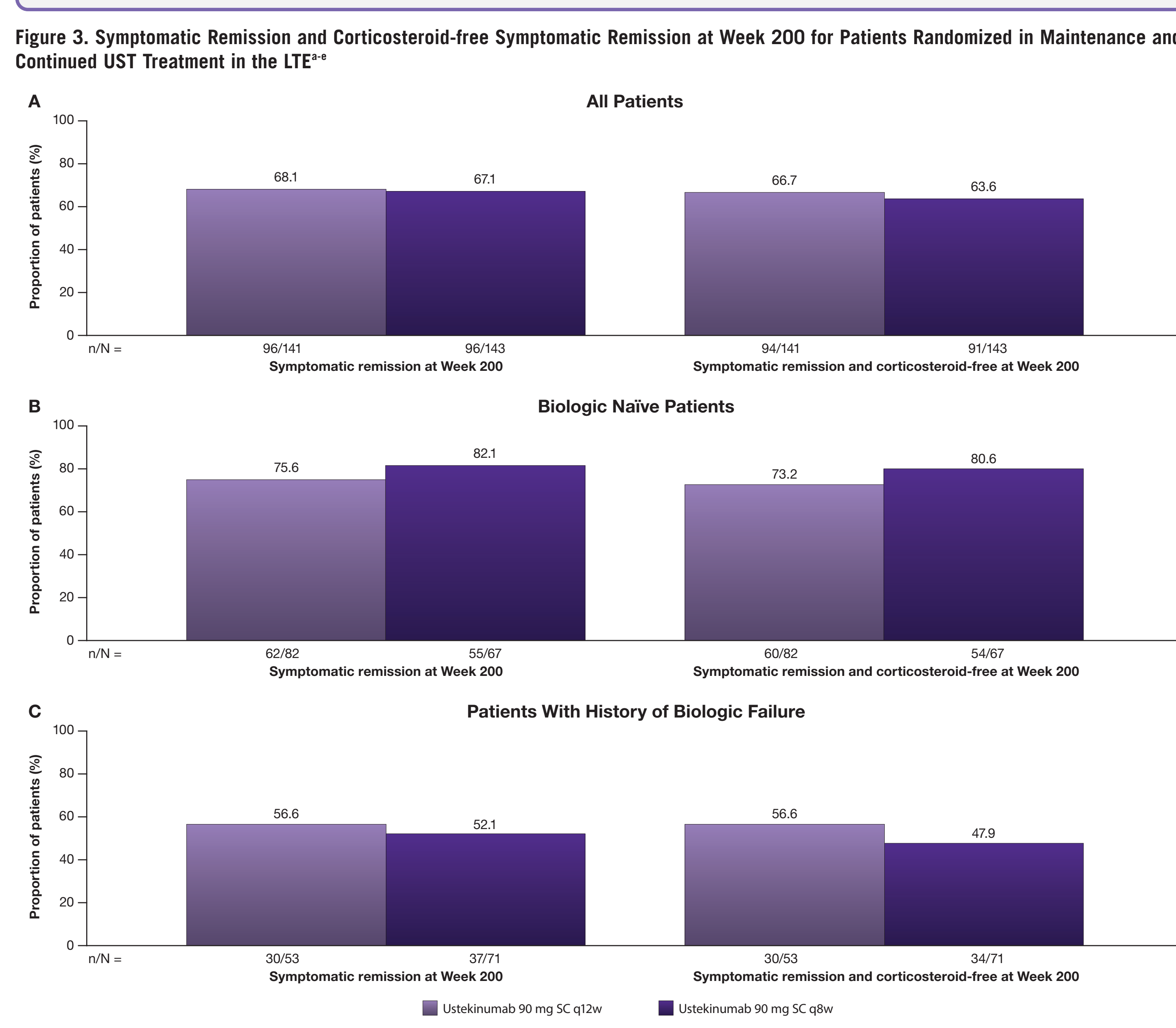


[†]Patients were included in the randomized group at maintenance Week 0 regardless of whether patients had a dose adjustment during the LTE. *Symptomatic remission is defined as a stool frequency subscore of 0 or 1 and a rectal bleeding subscore of 0. †Patients who had a missing value in corticosteroid use had their last value carried forward. ‡Patients who had both stool frequency and rectal bleeding subscores missing at a visit were considered not to be in symptomatic remission for that visit. §Patients who had a prohibited change in IUC medications, an ostomy or colectomy, or discontinued study agent due to lack of therapeutic effect or due to an adverse event of worsening of UC prior to the designated visit before or at Week 44 were considered not to be in symptomatic remission. ¶Patients who had an ostomy or colectomy, or discontinued study agent due to lack of therapeutic effect or due to an adverse event of worsening of UC after Week 44 and prior to the designated visit were considered not to be in symptomatic remission.

Randomized Patients Who Continued UST Treatment in the LTE

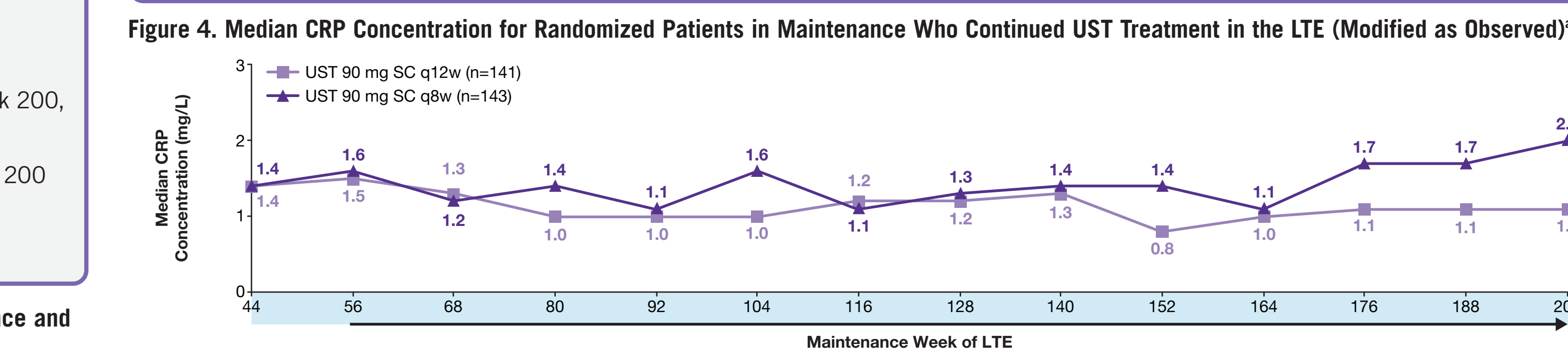
- 67.6% were in symptomatic remission at Week 200[†]
- 72.9% of those in clinical remission at Week 44 were in symptomatic remission at Week 200[†]
- 94 of 96 (98%) patients achieving symptomatic remission in the UST 90 mg SC q12w treatment group were corticosteroid-free at Week 200, as were 91 of 96 (95%) patients in the UST 90 mg SC q8w treatment group[†] (Figure 3)
- 42.7% of patients with history of biologic failure and 18.8% of biologic naïve patients discontinued treatment between Weeks 44 and 200
- 85.1% of patients with observed data who had not met treatment failure criteria were in symptomatic remission at Week 200

Figure 3. Symptomatic Remission and Corticosteroid-free Symptomatic Remission at Week 200 for Patients Randomized in Maintenance and Continued UST Treatment in the LTE^{4†}

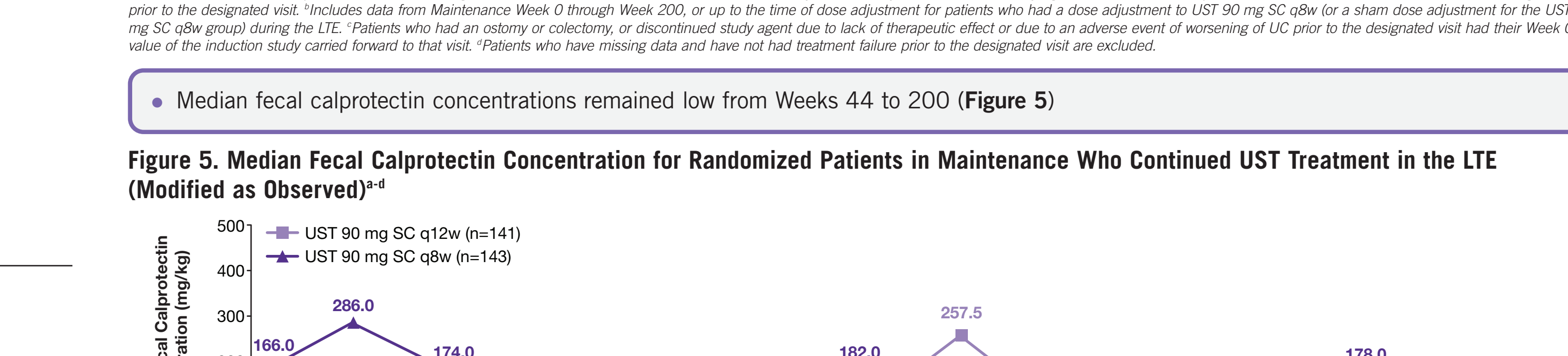


[†]Patients were included in the randomized group at maintenance Week 0 regardless of whether patients had a dose adjustment during the LTE. *Symptomatic remission is defined as a stool frequency subscore of 0 or 1 and a rectal bleeding subscore of 0. †Patients who had both stool frequency and rectal bleeding subscores missing at a visit were considered not to be in symptomatic remission for that visit. §Patients who had an ostomy or colectomy, or discontinued study agent due to lack of therapeutic effect or due to an adverse event of worsening of UC prior to the designated visit were considered not to be in symptomatic remission. ¶Patients who had a missing value in corticosteroid use had their last value carried forward.

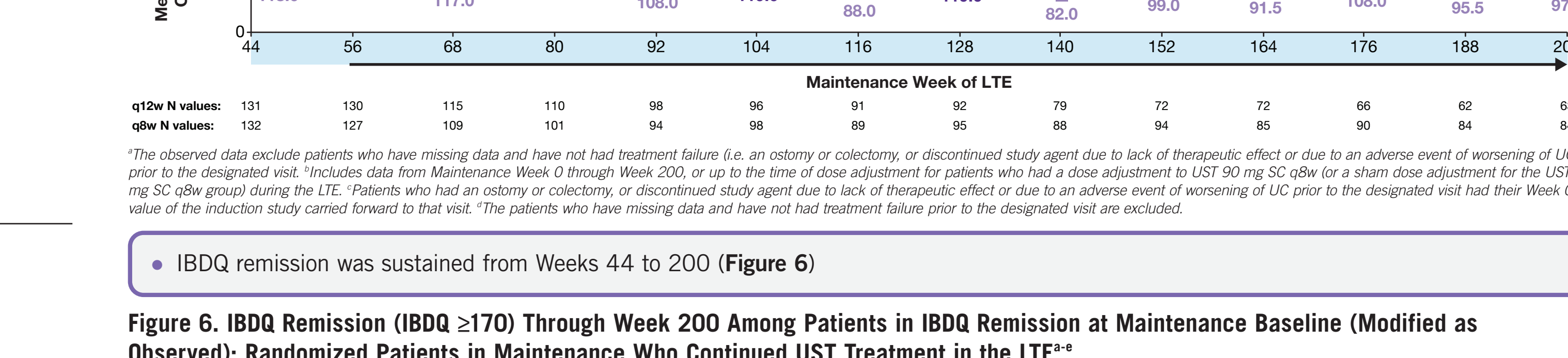
Median CRP concentrations remained low from Weeks 44 to 200 (Figure 4)



Median fecal calprotectin concentrations remained low from Weeks 44 to 200 (Figure 5)



IBDQ remission was sustained from Weeks 44 to 200 (Figure 6)



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Safety

- Among patients who were treated in the LTE, safety events throughout the study were similar among UST-treated patients compared with PBO (Table