# The Efficacy of Maintenance Treatment with Guselkumab in Patients with Moderately to Severely Active Ulcerative Colitis: Phase 3 QUASAR Maintenance Study Results at Week 44 by Biologic/Janus Kinase Inhibitor History



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### Background



Guselkumab (GUS) is a dual-acting IL-23p19 subunit inhibitor that blocks IL-23 and binds to CD64, a receptor on cells that produce IL-23<sup>1</sup>



The Phase 3 QUASAR Maintenance Study was a randomized-withdrawal, double-blind, placebo-controlled design that evaluated the efficacy and safety of GUS SC maintenance treatment in patients with moderately to severely active UC who achieved clinical response to GUS IV induction

- Positive results for the QUASAR Phase 3 Maintenance Study and the QUASAR Phase 2b/3 Induction Studies (IV GUS) in UC have been previously presented<sup>2,3,4</sup>

A Phase 3 guselkumab SC Induction Study in UC is ongoing (ASTRO, NCT05528510)

### Objective

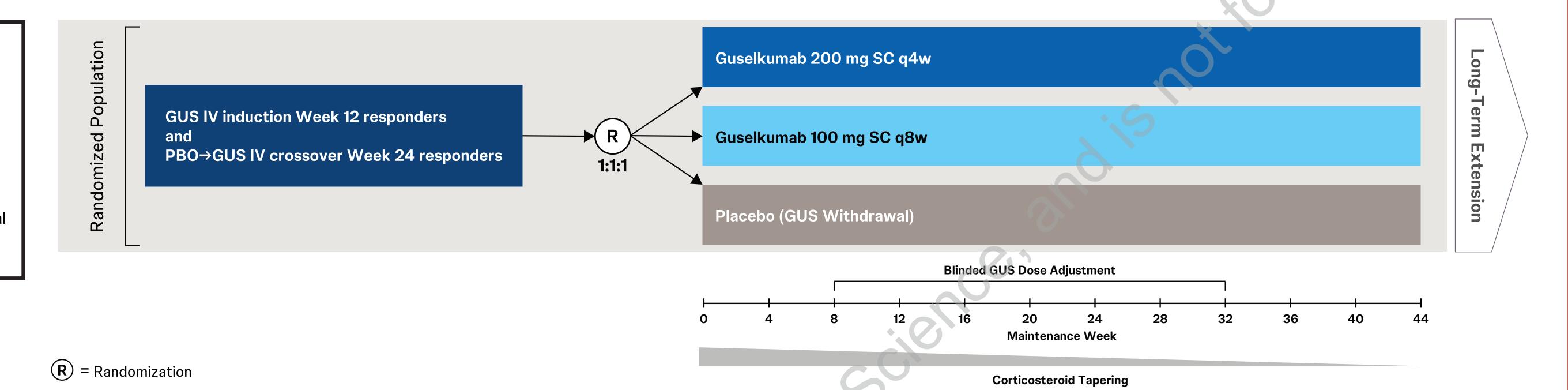


Here, we report Week 44 efficacy and safety results for GUS maintenance treatment compared with placebo (GUS withdrawal) by history of treatment with biologics and/or Janus kinase (JAK) inhibitors

### Methods

#### **QUASAR Maintenance Study Design**

**Target Patient Population:** Adults with moderately to severely active UC (defined as induction baseline modified Mayo score of 5 to 9 with a Mayo rectal bleeding subscore ≥ 1 and a Mayo endoscopic subscore ≥ 2 as obtained during central review of the screening endoscopy) who had inadequate response/intolerance to conventional therapy and/or biologic and/or JAK inhibitor therapy



## Conclusions



Regardless of prior history of treatment with a biologic and/or JAK inhibitor

- Maintenance treatment with GUS resulted in greater improvements compared with placebo (GUS withdrawal) across key clinical, endoscopic, and histologic endpoints at Week 44
- Maintenance treatment with both GUS SC dose regimens was efficacious in patients with UC

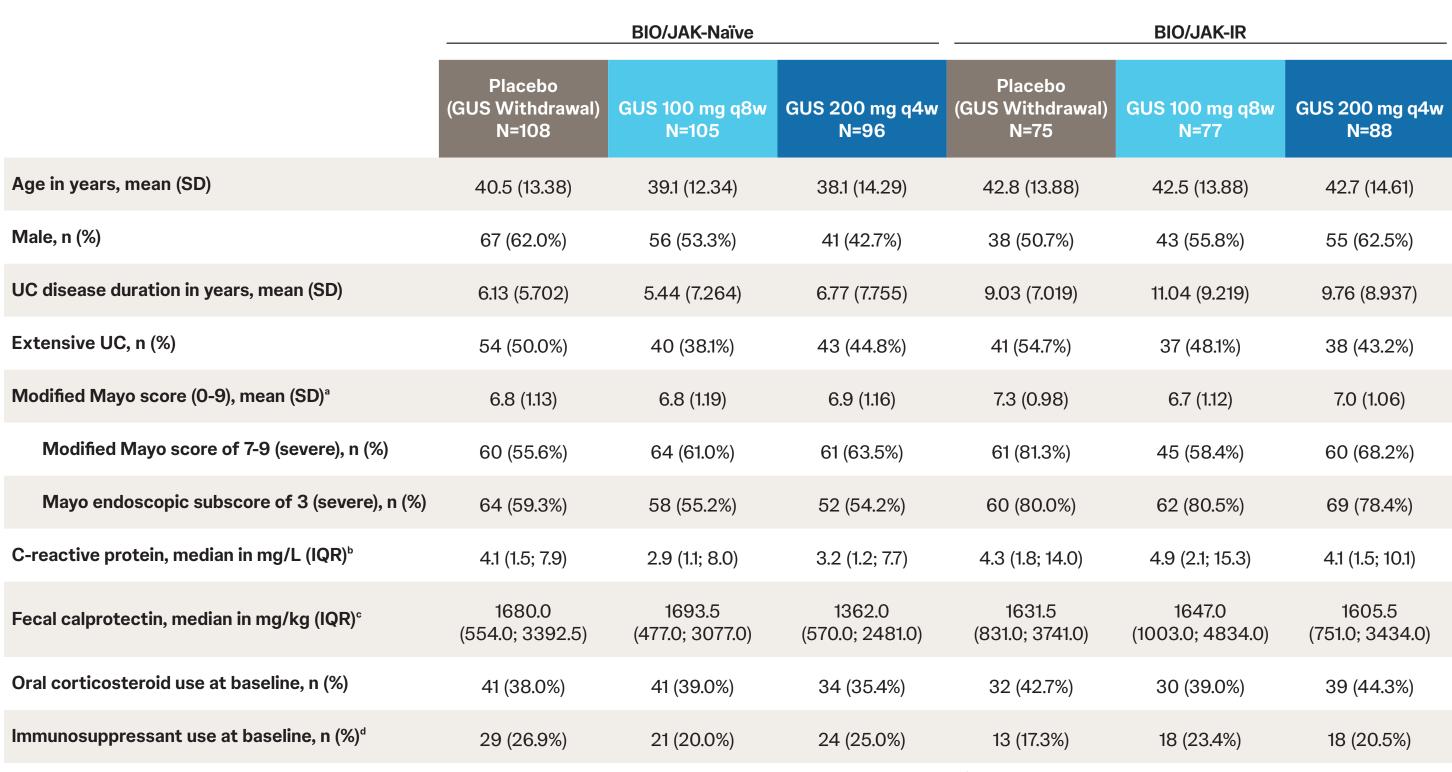


Safety results for both GUS maintenance dose regimens were

- Comparable across subpopulations by biologic/JAK inhibitor history
- Consistent with the known and favorable safety profile of GUS in approved indications

## Results

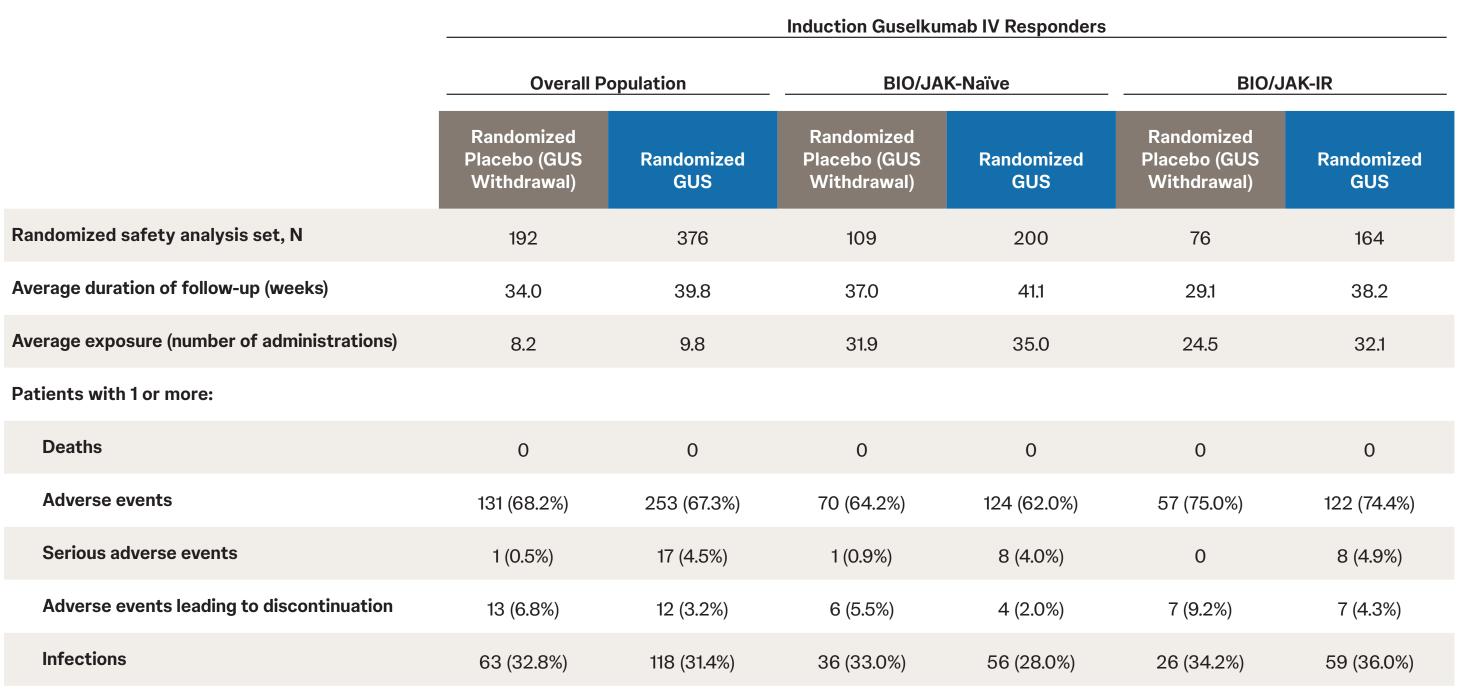
Demographics and Disease Characteristics at Induction Baseline by Biologic/JAK Inhibitor History



Induction Guselkumab IV Responders

aModified Mayo score: 3-component (stool frequency, rectal bleeding, and endoscopic subscores) Mayo score without the physician's global assessment. Based on PBO, N=108; GUS 100 mg, N=103; GUS 200 mg, N=95, for BIO/JAK-naïve and PBO, N=75; GUS 100 mg, N=76; GUS 200 mg, N=86 for BIO/JAK-IR. Based on PBO, N=100; GUS 100 mg, N=90; GUS 200 mg, N=87, for BIO/JAK-naïve and PBO, N=70; GUS 100 mg, N=64; GUS 200 mg, N=78 for BIO/JAK-IR. dImmunosuppressants included azathioprine, 6-mercaptopurine, and methotrexate. Randomized Full Analysis Set.

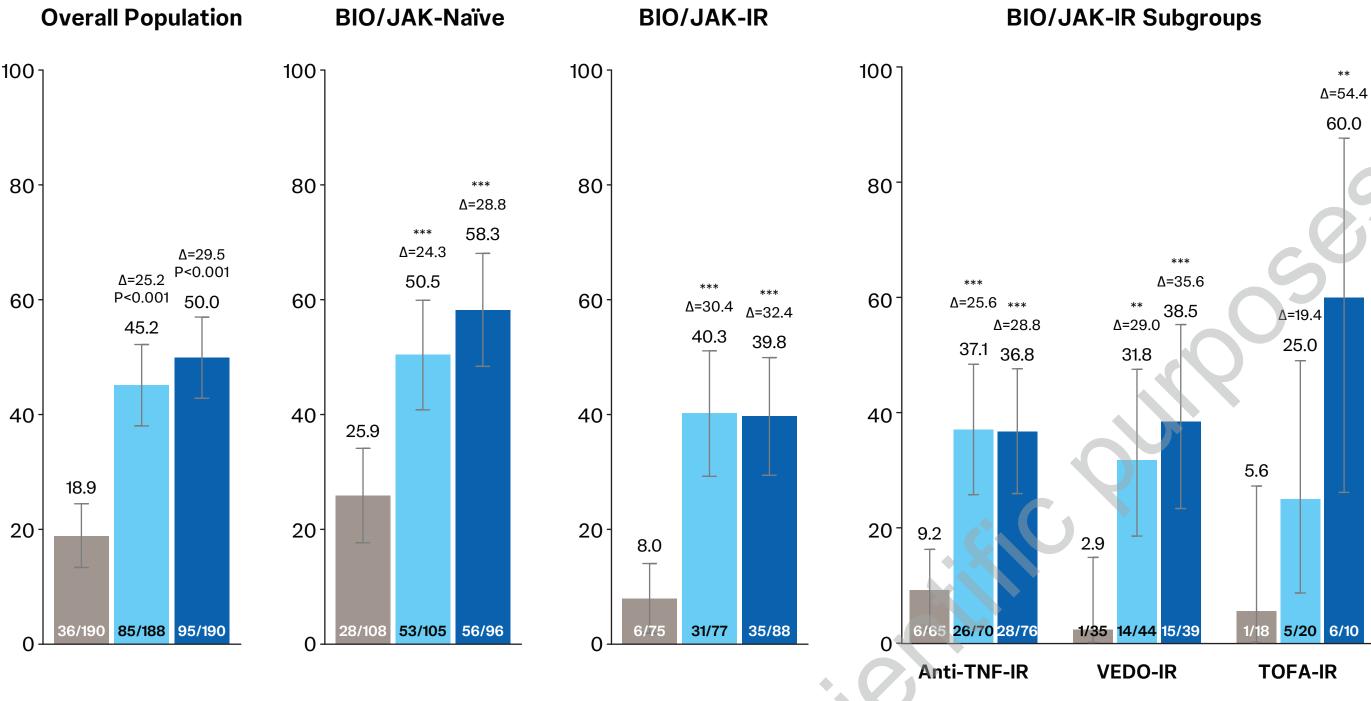
#### Summary of Adverse Events Through Week 44 by Biologic/JAK Inhibitor History

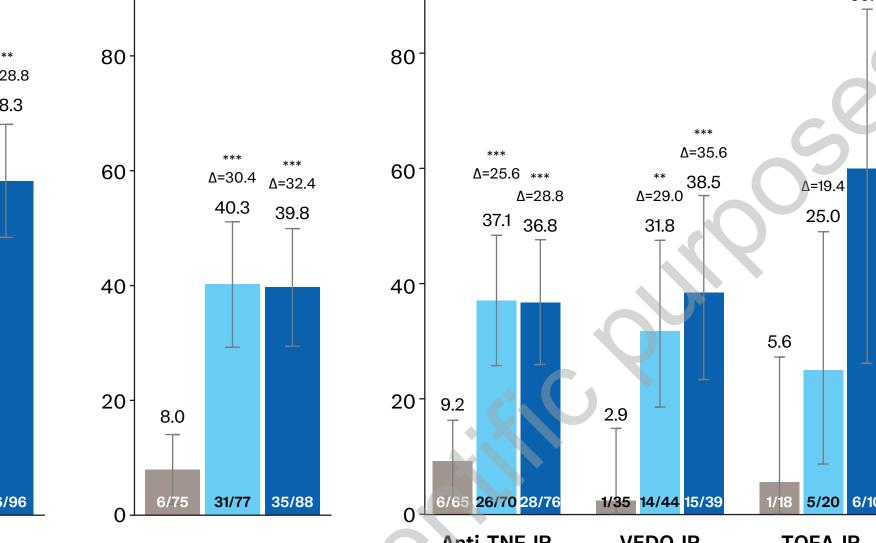


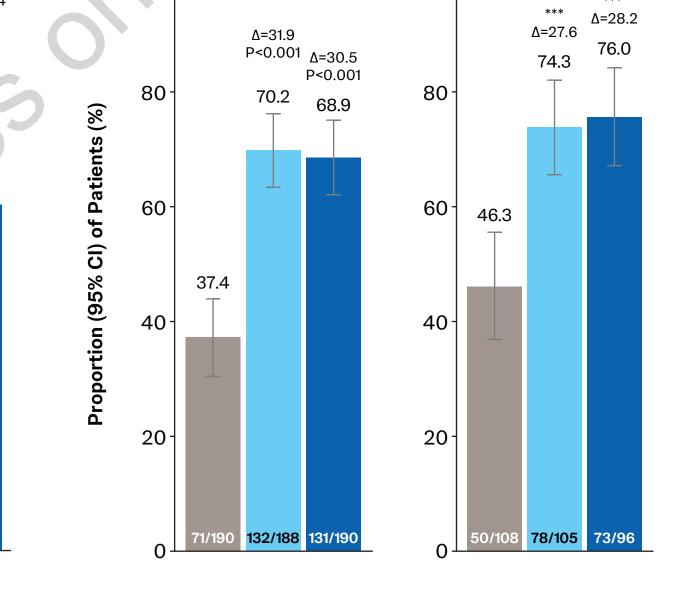
Includes patients with modified Mayo score 5-9 at induction baseline who were randomized in the Maintenance study and data up to the time of dose adjustment for patients who had a dose adjustment.

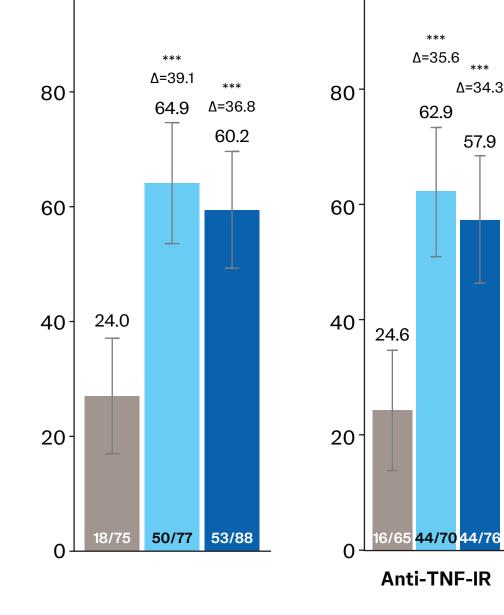
#### **Cinical Remission at Week 44**

Lilly, MSD, Pfizer, Pharmacosmos, Roche, Sandoz,; Stada, Takeda, Tillotts, and Vifor Pharma; payment for lectures including service on speakers bureaus from AbbVie, Biogen, CED Service GmbH, Celltrion, Falk Foundation, Janssen, Materia Prima, MedToday, MSD, Pfizer, Sandoz, Takeda, Thieme, and UniMed Verlag.



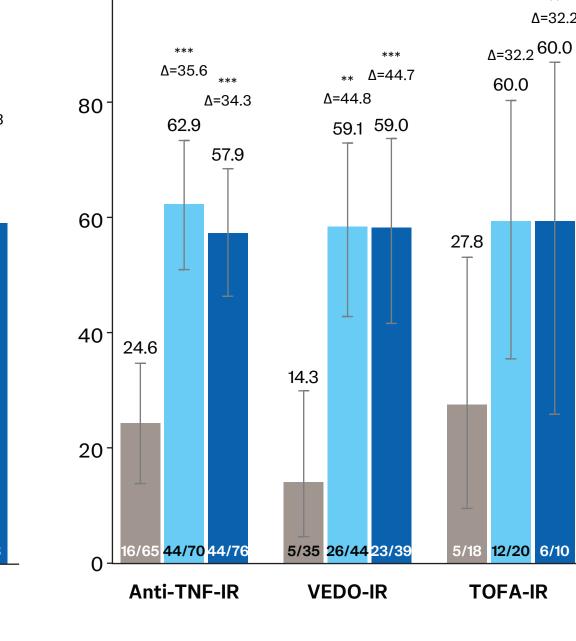




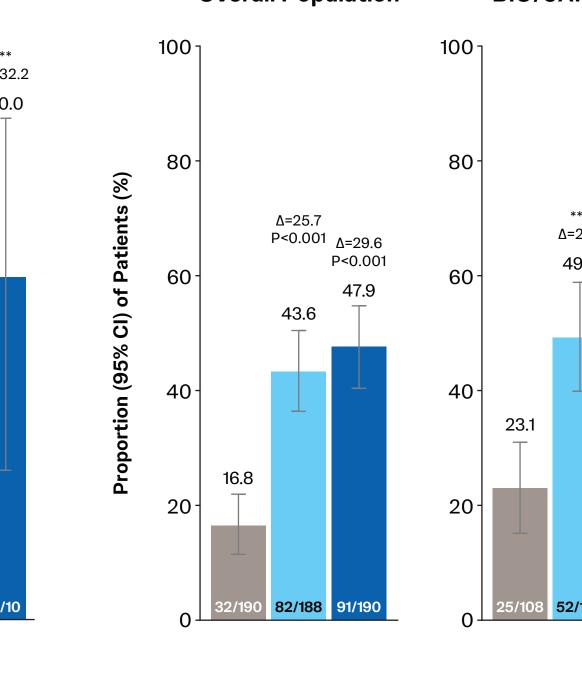
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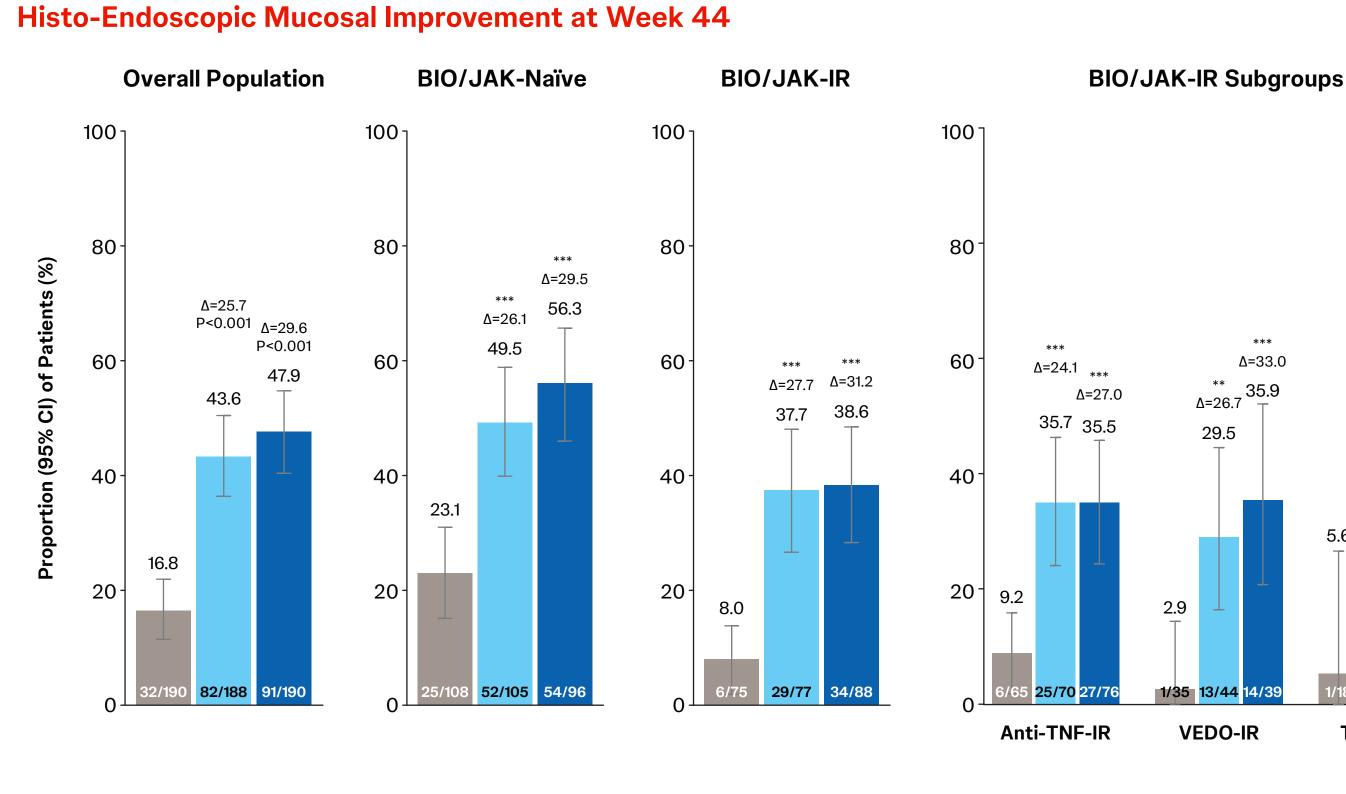
**BIO/JAK-IR** 

Clinical remission: A Mayo stool frequency subscore of 0 or 1 and not increased from baseline, and a rectal bleeding subscore of 0 or 1 with no friability. Histo-endoscopic subscore of 0 or 1 with no friability. Haintenance of clinical response at maintenance of combination of histologic improvement; An endoscopic subscore of 0 or 1 with no friability. Histo-endoscopic mucosal improvement (neutrophil infiltration in <5% of crypts, no crypt destruction, and

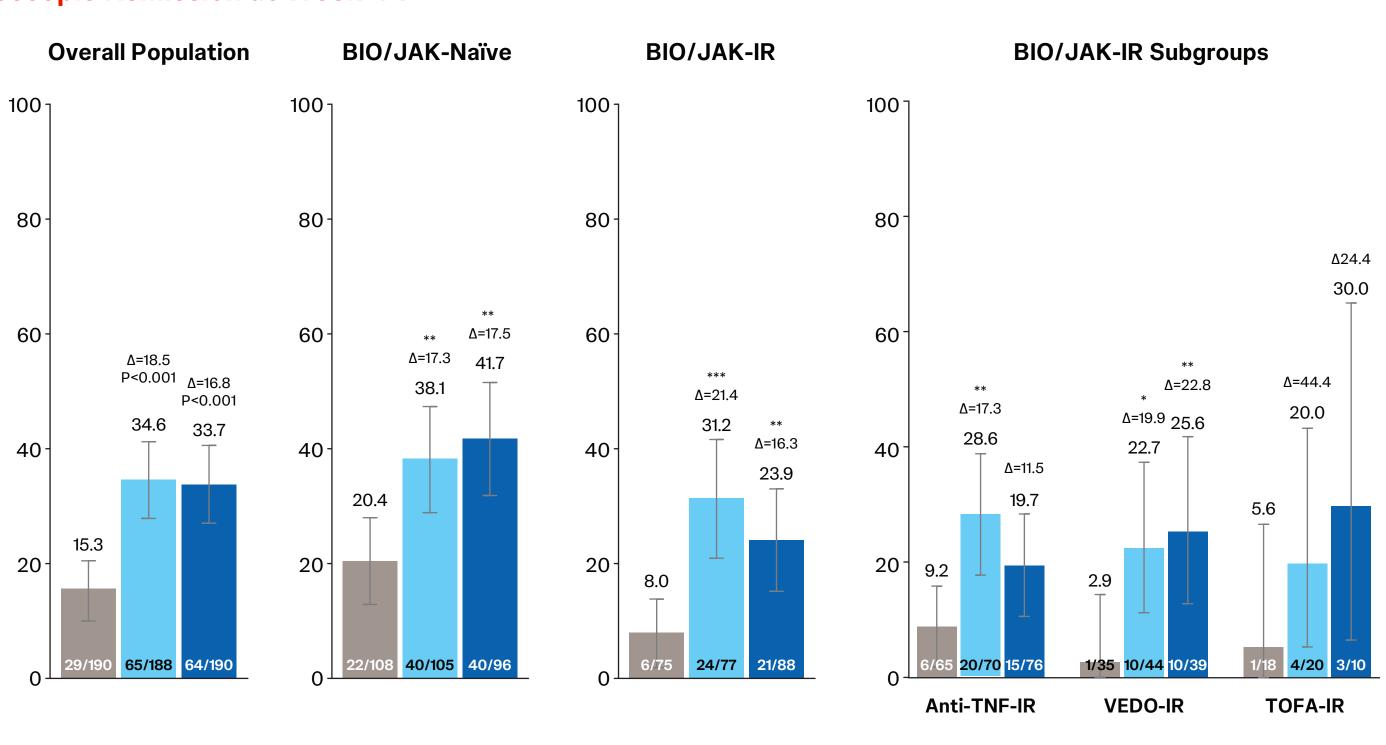


**BIO/JAK-IR Subgroups** 

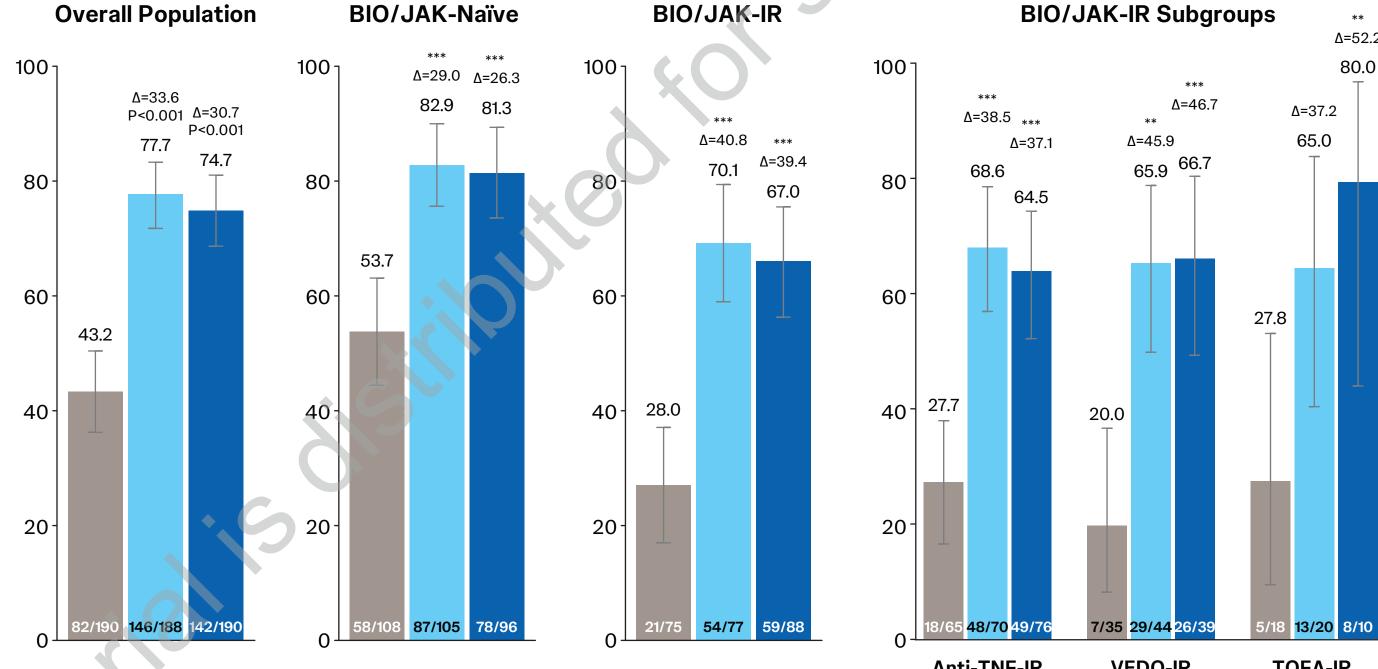




#### **Endoscopic Remission at Week 44**

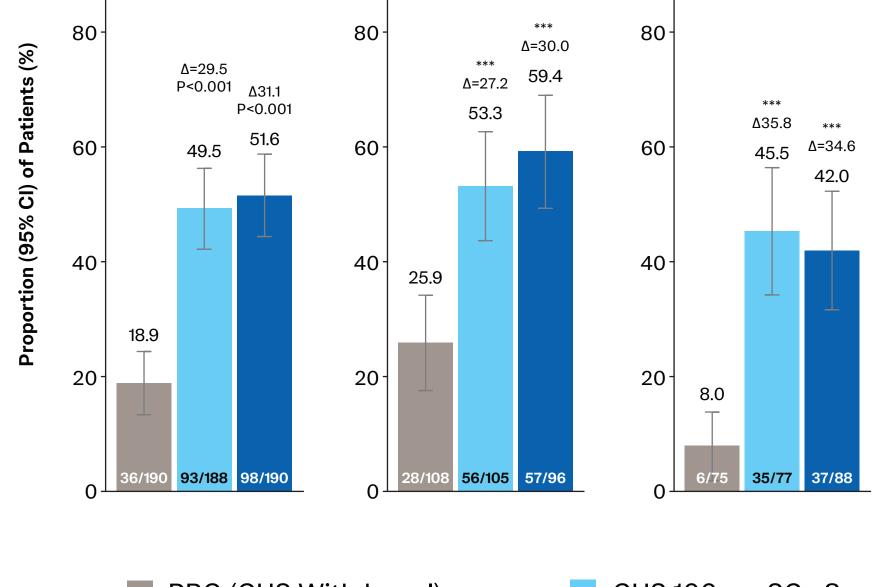


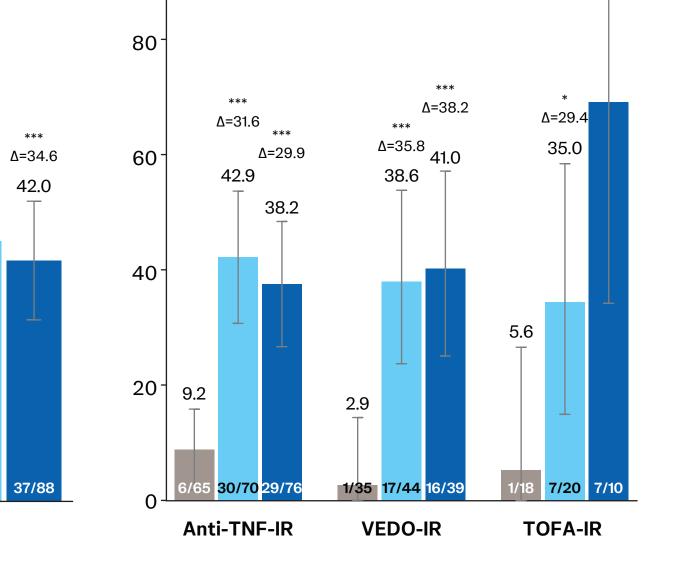




erosions, ulcerations or granulation tissue according to the Geboes grading system) and endoscopic improvement (endoscopic subscore of 0 or 1, with no friability). Endoscopic remission (normalization): MES=0.

Randomized Full Analysis Set. Δ=Treatment difference compared with placebo. \*Nominal P<0.05. \*\*Nominal P<0.01. \*\*\*Nominal P<0.001. MES=Mayo endoscopic subscore.





GUS 200 mg SC q4w

