Efficacy of guselkumab intravenous and subcutaneous induction: symptoms, heath-related quality of life, and inflammatory biomarker results from the GALAXI and GRAVITI studies

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Background



Guselkumab is a dual-acting IL-23p19 subunit inhibitor that potently neutralizes IL-23 and binds to CD64, a receptor on cells that produce IL-23



The GALAXI and GRAVITI studies showed that induction with intravenous (IV) or subcutaneous (SC) guselkumab was effective in participants with moderately to severely active Crohn's

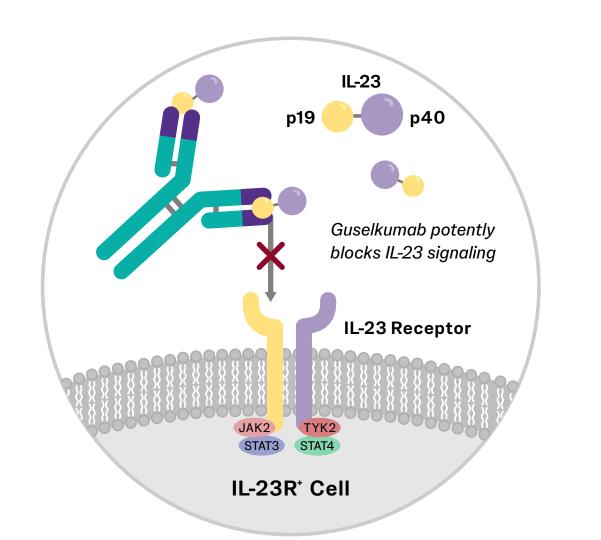


Clinical and endoscopic outcomes from the GALAXI and GRAVITI studies demonstrate that the efficacy of guselkumab induction is similar for both IV and SC routes of administration

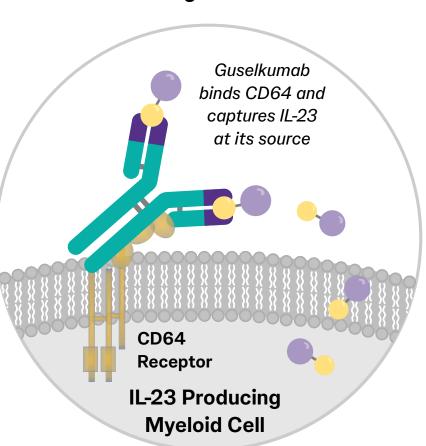
Objective



Here we assess the effect of guselkumab IV or SC induction on symptoms, health-related quality of life (HRQoL), and inflammatory markers in participants with Crohn's disease through week 12



Dual-acting IL-23 Inhibitor



Methods

- Eligible participants in all 3 studies were at least 18 years of age and diagnosed with moderately to severely active Crohn's disease of at least three months' duration based on:
- A Crohn's Disease Activity Index (CDAI) score of 220-450 AND: · A mean daily stool frequency count based on the unweighted CDAI component
- of liquid or very soft stools of >3 in GALAXI 2 & 3, and ≥4 in GRAVITI
- A mean daily abdominal pain score based on the unweighted CDAI component of abdominal pain of >1 in GALAXI 2 & 3, and ≥2 in GRAVITI

Endoscopic evidence of ileocolonic Crohn's disease at the screening endoscopy with a Simple Endoscopic Score for Crohn's Disease (SES-CD) ≥6 (or ≥4 for participants with isolated ileal disease) and presence of ulceration in any one of the five ileocolonic segments

 Participants were required to have a history of intolerance or inadequate response to oral corticosteroids, AZA, 6-MP or MTX, or to biologic therapies (TNF antagonists or vedolizumab) for Crohn's disease

weeks 8 and 12 compared to placebo

- Participants who had demonstrated an inadequate response/intolerance to ustekinumab were not eligible for study entry (although ustekinumab exposed participants could be enrolled in GALAXI)

- During the induction period in GALAXI 2 (N=508) & 3 (N=513), participants received either: IV induction with guselkumab 200 mg at weeks 0, 4, and 8
- IV ustekinumab ~6 mg per kg at week 0, followed by SC 90 mg at week 8 _ Placebo at weeks 0, 4, and 8
- During the induction period in GRAVITI (N=347), participants received SC induction with guselkumab 400 mg or placebo at weeks 0, 4, and 8
- These studies were enrolled during the same time using some of the same study sites and
- To evaluate the improvement in symptoms, HRQoL, and inflammation, we assessed abdominal pain and stool frequency using the respective Crohn's Disease Activity Index subscore components, Inflammatory Bowel Disease Questionnaire (IBDQ) remission (defined as an IBDQ total score ≥170), C-reactive protein (CRP), and fecal calprotectin through week 12

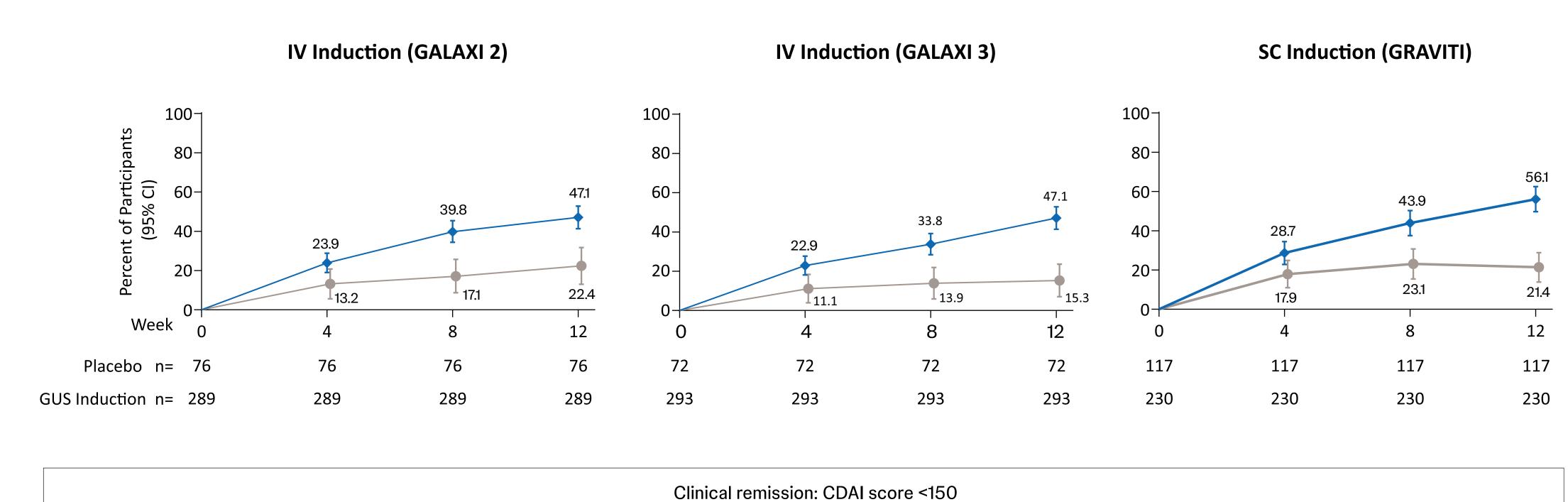
Key Takeaways

- Induction treatment with either guselkumab IV or SC routes of administration provided rapid and robust improvements in symptoms and HRQoL as well as reductions in objective biomarkers of inflammation
- The differences between guselkumab and placebo were seen as early as the first assessment timepoint 4 weeks after the first IV or SC induction dose
- The rapidity and magnitude of the improvements were similar for IV and SC induction

Results

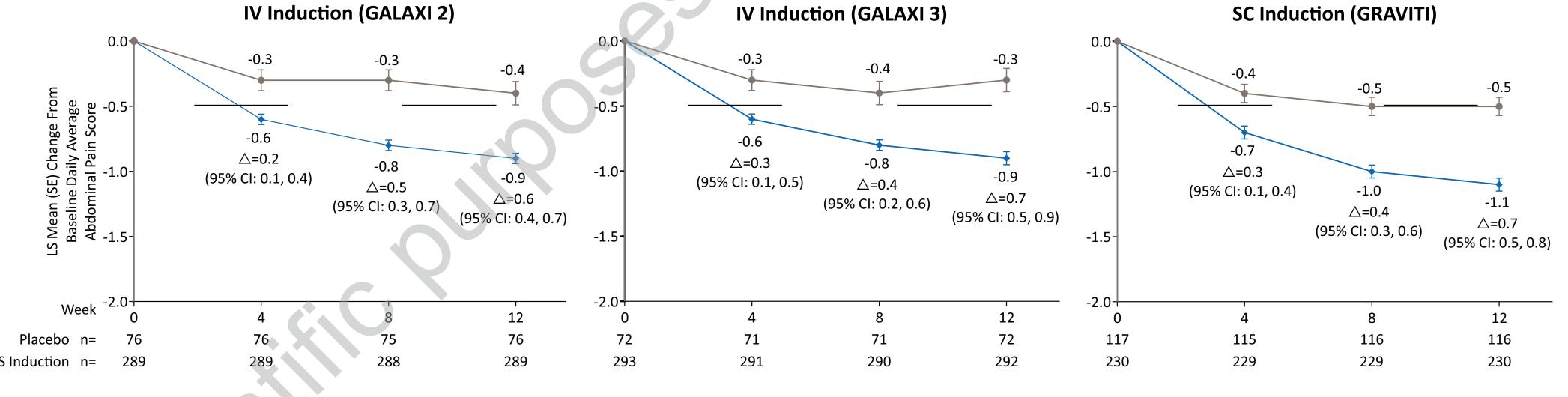
 As presented previously, participants treated with guselkumab IV induction in GALAXI¹ or guselkumab SC induction in GRAVITI² had significantly greater rates of clinical remission at week 12 and endoscopic response at week 12 compared with placebo

Clinical Remission Through Week 12





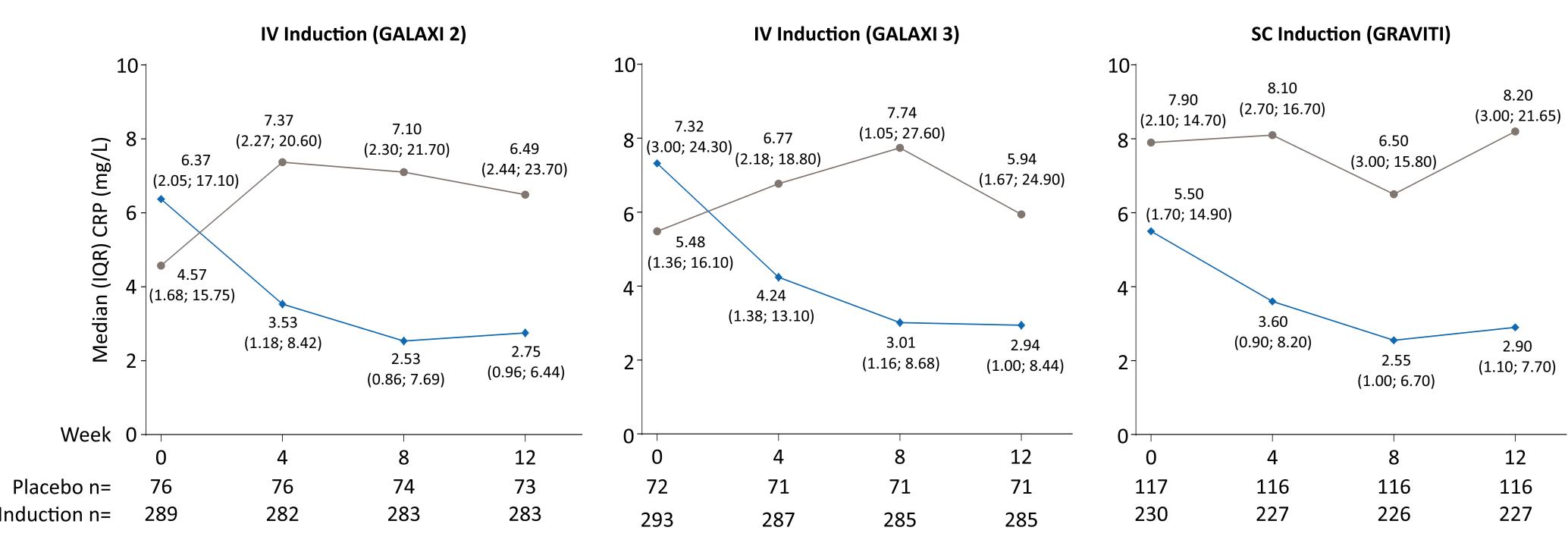
Abdominal Pain



Compared with placebo, improvement in symptom-based outcomes was seen through week 12 for both

guselkumab IV and SC; improvements with guselkumab were evident at the first assessment at Week 4

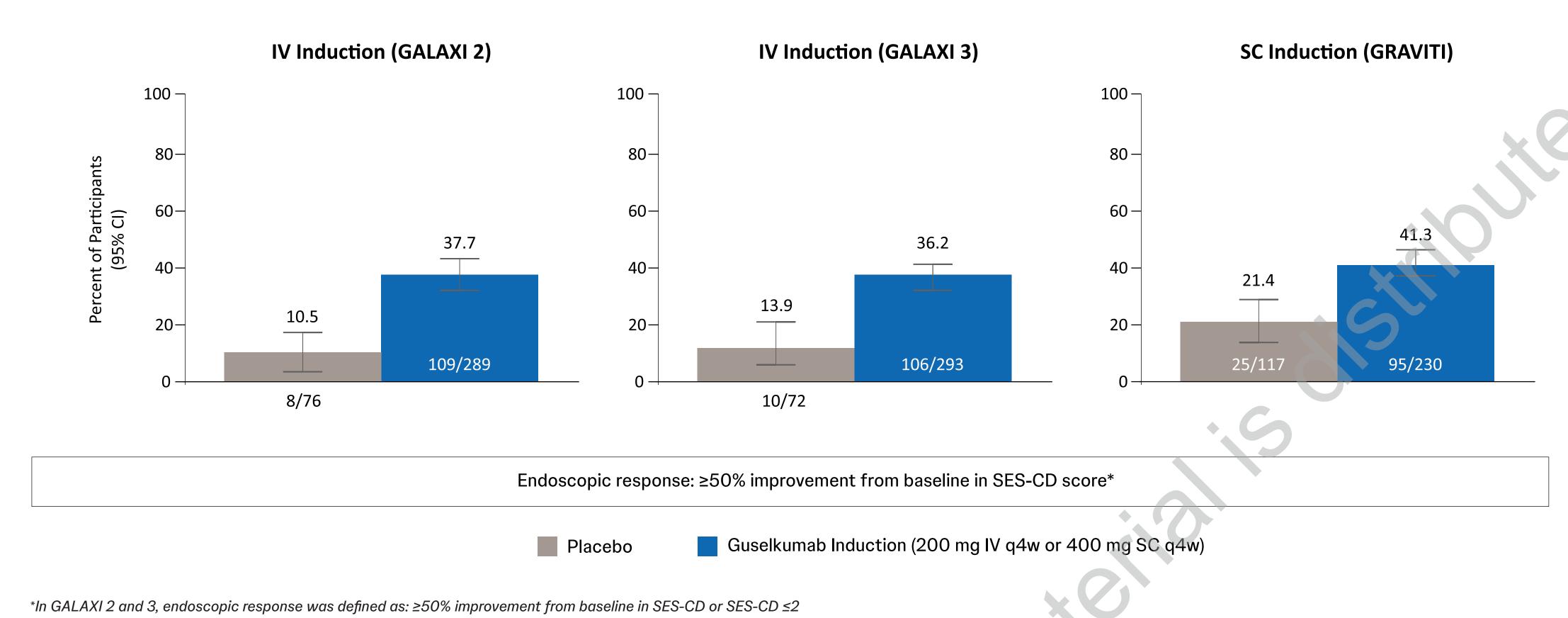
• Proportions of participants achieving IBDQ remission were greater for guselkumab-treated participants at both



Median CRP and fecal calprotectin levels decreased in guselkumab-treated participants starting at week 4

following IV or SC induction, while levels increased or remained static in participants receiving placebo

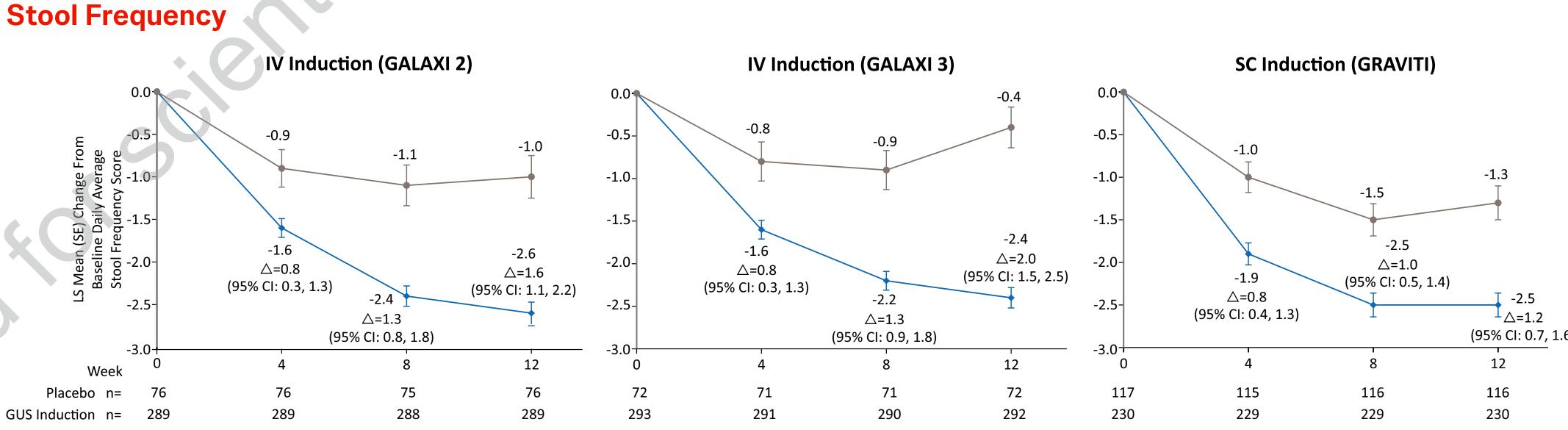
Endoscopic Response at Week 12



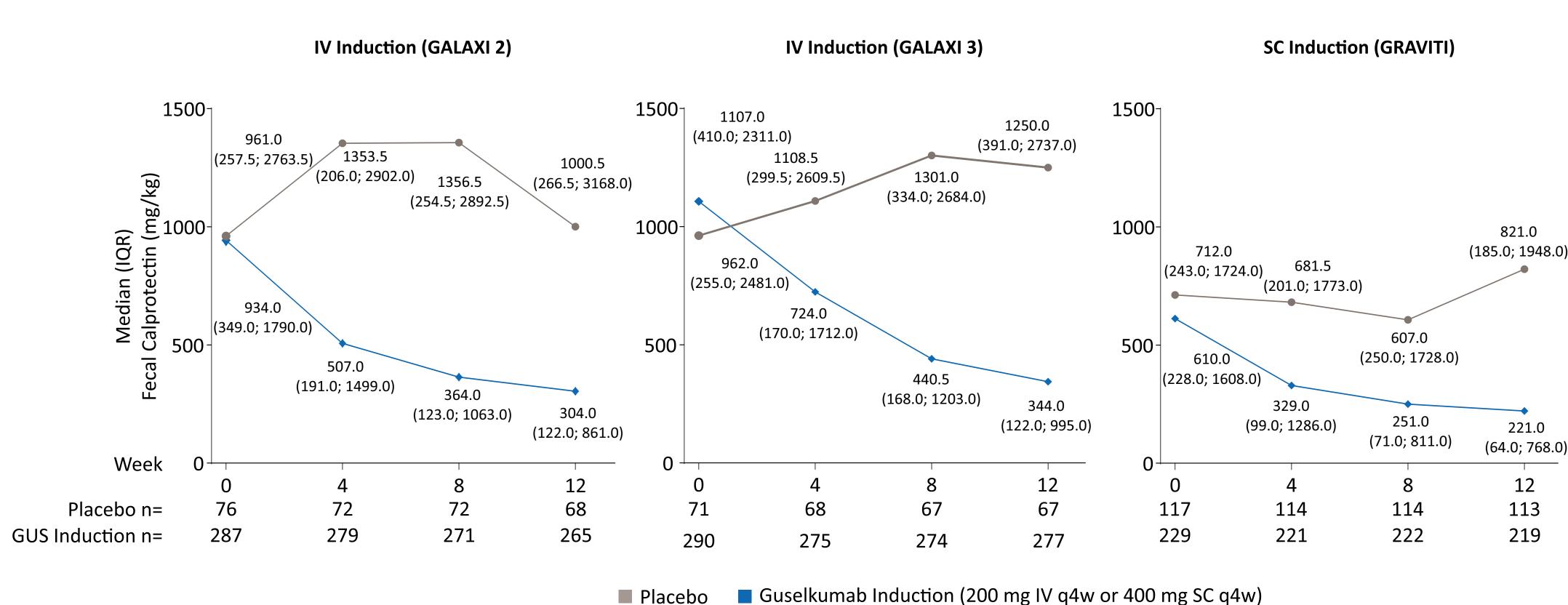
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CDAI=Crohn's Disease Activity Index; CI=Confidence interval; GUS=Guselkumab; IV=Intravenous; q4w=Every 4 weeks; SC=Subcutaneous; SES-CD=Simple Endoscopic Score for Crohn's Disease

IBDQ Remission



Fecal Calprotectin



CRP=C-reactive protein; GUS=Guselkumab; IQR=Interquartile range; IV=Intravenous; q4w=Every 4 weeks; SC=Subcutaneous

IV Induction (GALAXI 3) SC Induction (GRAVITI) (95% CI: 7.9, 31.5)

Placebo Guselkumab Induction (200 mg IV q4w or 400 mg SC q4w)

CI=Confidence interval; GUS=Guselkumab; IBDQ=Inflammatory Bowel Disease Questionnaire; IV=Intravenous; LS=Least squares; q4w=Every 4 weeks; SC=Subcutaneous; SE=Standard error

PRESENTED AT: Digestive Disease Week (DDW); May 3-6, 2025; San Diego, CA, USA. Originally presented at European Crohn's and Colitis Organisation 2025. REFERENCES: 1. Panaccione, R, et al. Gastroenterology. 2024; 166 (5S):1057b. 2. Hart A, et al. Gastroenterology. 2025; doi:10.1053/j.gastro.2025. REFERENCES: 1. Panaccione, R, et al. Gastroenterology. 2025; doi:10.1053/j.gastro.2025; doi:10.1053/j.gastro.2025.02.033. ACKNOWLEDGMENTS: Medical writing support was provided by Kirsten Schuck Gross of Johnson under the direction Practice guidelines (Ann Intern Med. 2022;175:1298-1304). DISCLOSURES: AA reports potential conflicts of interest with AbbVie, Bristol Victorial Conflicts with AbbVie, Bristol Victorial Conflicts with AbbVie, Bristol Victorial Conflicts with AbbV Myers Squibb/Celgene, DiaSorin, Eli Lilly, Gilead, IBD Horizons, Janssen, Presenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, AstraZeneca, Biogen, Boehringer Ingelheim, Bristol-Myers Squibb, Celgene, Celltrion, Cosmos Pharma, Organon, Pandion Pharma, Prometheus Biosciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Protagonist Therapeutics, Roche, Sandoz, Islan, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Bookerts, AstraZenee, Bookerts, AstraZenee, Celltrion, Cosmos Pharmaceuticals, Elian, Eli Lilly, Ferring, Galapagos, Fresenius Kabi, Genentech, Gilead Sciences, Bookerts, AstraZenee, Bookerts, Bookert <text>Janssen, Merck, Mylan, Novartis, Oppilan Pharma, Organon, Pharma, Organon, Pharma, Organon, Pharma, Organon, Pharma, Inotrem, Sublimity, Takeda, Therapeutics, Roche, Sandoz, Shire, Inotrem, Astra Zeneca, Athos, Biogen, Boehringer Ingelheim, Organon, Pharma, Organon, Organon, Pharma, Organon, Organon support from Mitsubishi Tanabe Pharma Corporation, EA Pharma Corporation, EA Pharma Co. Ltd., AbbVie GK, Janssen Pharmaceutical Co. Ltd., Worin Pharmaceuti <text>