

Induction Combination Therapy with Guselkumab and Golimumab Followed by Guselkumab Monotherapy Maintenance: Results of the Phase 2a Randomized, Double-blind, Proof-of-concept VEGA Study

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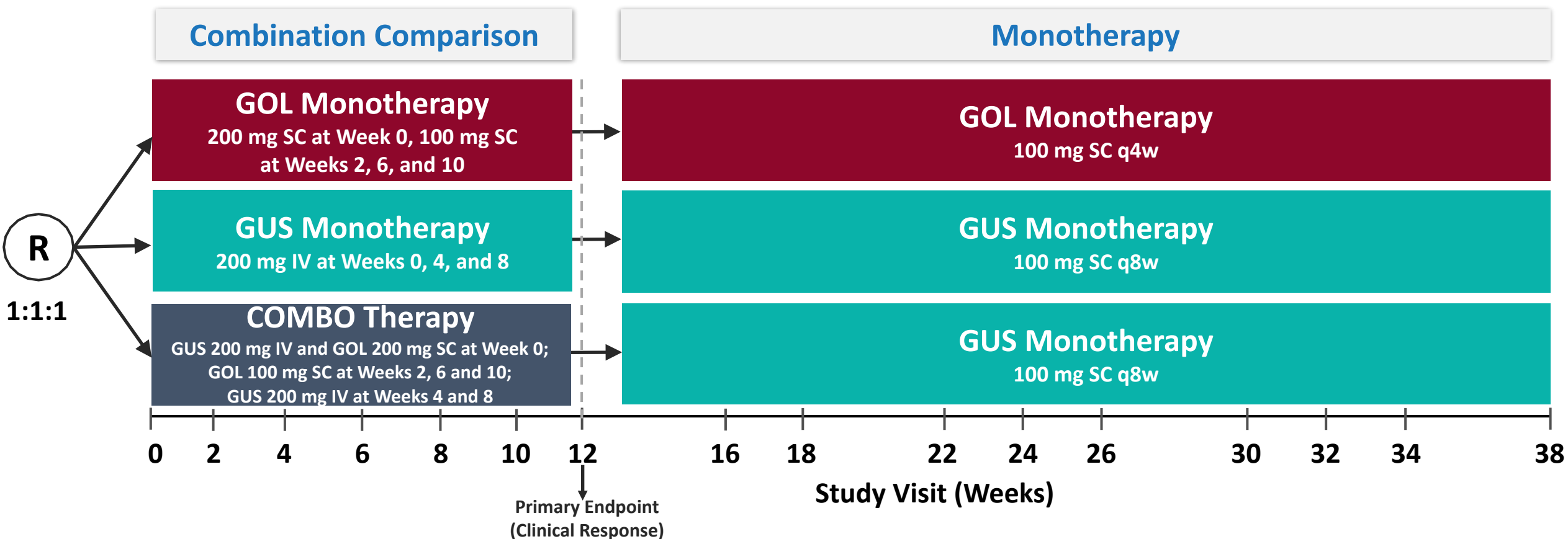
This presentation was supported by Janssen Research & Development, LLC, Spring House, PA, USA

Background and Objective

- Week (wk) 12 data from the Phase 2a VEGA proof-of-concept study demonstrated that dual blockade of interleukin (IL)-23 and tumor necrosis factor α (TNF α) more effectively induced clinical response, clinical remission, endoscopic improvement, and composite histologic-endoscopic outcomes than either monotherapy alone.¹
- **Guselkumab**, an **IL-23p19 subunit antagonist**, is being studied in inflammatory bowel disease
- **Golimumab**, a **TNF α antagonist**, is approved for the treatment of ulcerative colitis
- Comparative efficacy and safety were evaluated through Week 38 in adults with moderately-to-severely active ulcerative colitis who received
 - Combination induction therapy **with guselkumab plus golimumab followed by guselkumab for maintenance, or**
 - **Guselkumab or golimumab alone** for induction and maintenance

¹Sands B.E., et al. J Crohns Colitis. 2022;16: i042-i043. Abstract OP36.

Study Design



Patient Population and Medications

- Moderately-to-severely active UC (Mayo score 6-12, inclusive, and an endoscopy subscore ≥ 2 by central review)
- Naïve to TNF α , IL-12/23, and IL-23p19 antagonists and have had an inadequate response or intolerance to conventional therapy (immunosuppressants [AZA, 6-MP] and/or corticosteroids)
- Immunosuppressants must have been discontinued prior to randomization
- Corticosteroids up to a dose of prednisone of 20 mg/day (or equivalent) permitted with mandatory tapering beginning at Week 6

R=Randomization; GUS=Guselkumab; GOL=Golimumab; COMBO=Combination Guselkumab + Golimumab

Baseline Patient Characteristics

	GOL	GUS	COMBO (Golimumab + Guselkumab) →GUS	Total
Number of Patients	72	71	71	214
Mean age (SD), years	38.1 (10.47)	39.1 (13.67)	37.8 (11.69)	38.4 (11.96)
Male, n (%)	42 (58.3%)	40 (56.3%)	34 (47.9%)	116 (54.2%)
UC duration, years, mean (SD)	4.7 (4.48)	5.4 (5.70)	4.6 (4.61)	4.9 (4.94)
Disease limited to left side of colon, n (%)	38 (52.8)	36 (50.7)	50 (70.4)	124 (57.9)
Full Mayo score (0-12), mean (SD)	8.7 (1.44)	8.9 (1.33)	8.8 (1.37)	8.8 (1.38)
Endoscopy subscore (0-3), n (%)				
Subscore of 2 (moderate)	35 (48.6)	24 (33.8)	28 (39.4)	87 (40.7)
Subscore of 3 (severe)	37 (51.4)	47 (66.2)	43 (60.6)	127 (59.3)
Patients receiving corticosteroids at baseline, n (%)	31 (43.1)	28 (39.4)	29 (40.8)	88 (41.1)

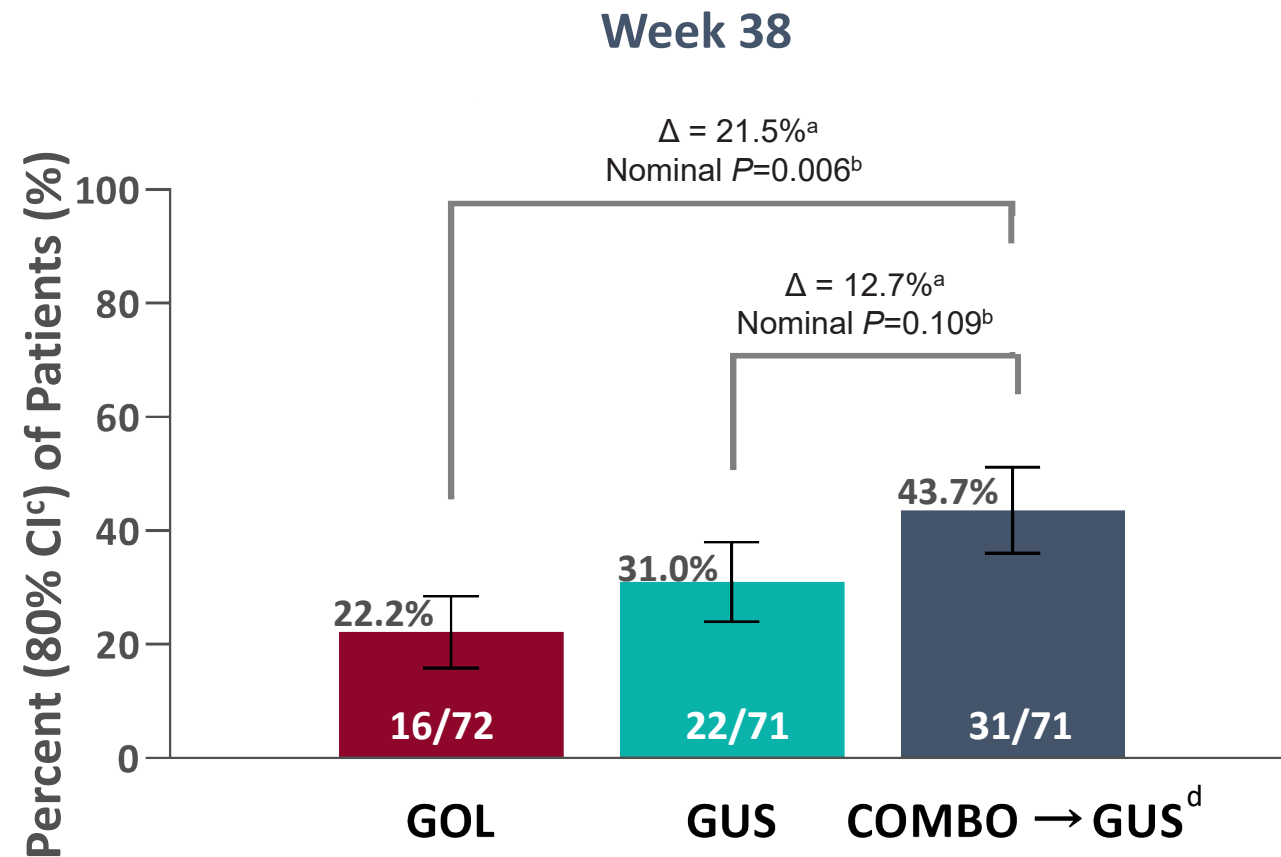
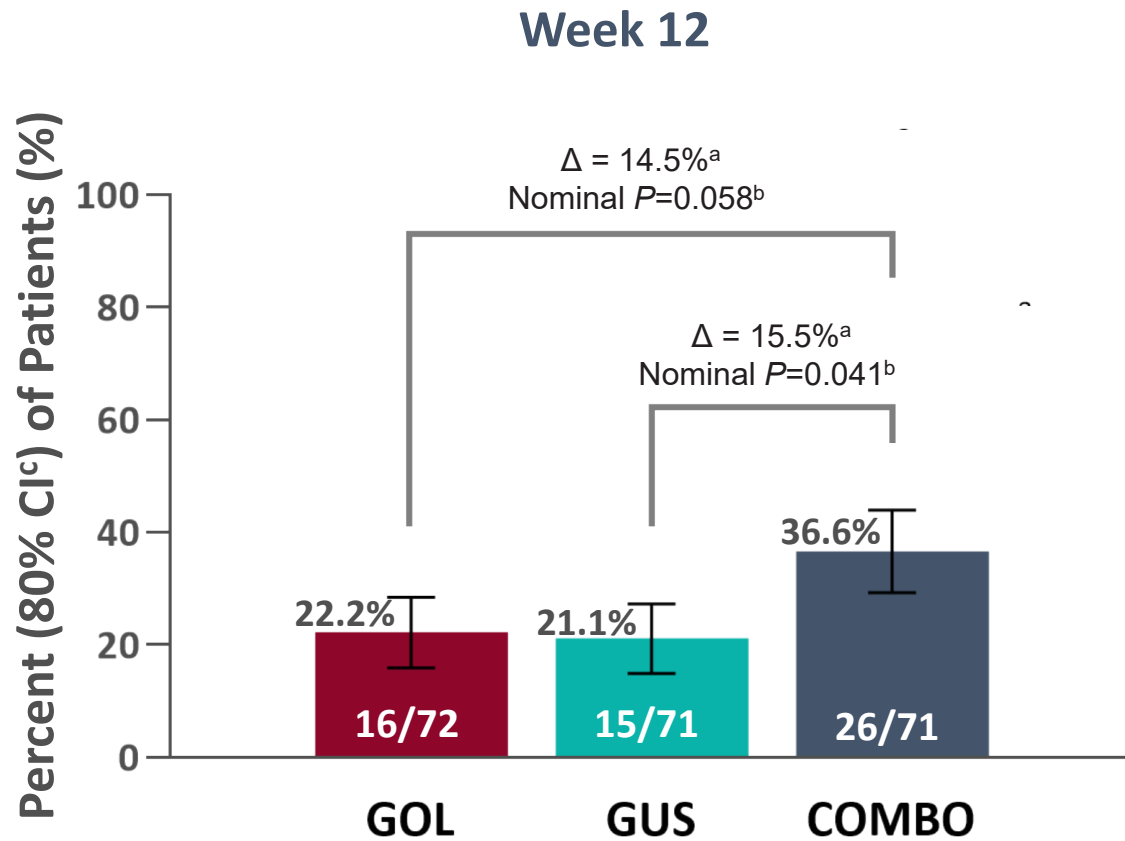
Disposition Through Final Study Drug Administration Visit

	GOL	GUS	COMBO→GUS	Total
Number of Patients	72	71	71	214
Discontinued study treatment prior to Week 34 ^a , n (%)	13 (18.1%)	6 (8.5%)	9 (12.7%)	28 (13.1%)
Reason for discontinuation, n (%)				
Adverse event	4 (5.6%)	1 (1.4%)	6 (8.5%)	11 (5.1%)
Worsening of UC	3 (4.2%)	0	4 (5.6%)	7 (3.3%)
Adverse event - other	1 (1.4%)	1 (1.4%)	2 (2.8%)	4 (1.9%)
Due to COVID-related events	0	0	0	0
Lack of efficacy	2 (2.8%)	2 (2.8%)	1 (1.4%)	5 (2.3%)
Withdrawal by patient	6 (8.3%)	1 (1.4%)	1 (1.4%)	8 (3.7%)
Lack of improvement	4 (5.6%)	0	0	4 (1.9%)
Death	0	0	0	0
Pregnancy	0	0	1 (1.4%)	1 (0.5%)
Other	1 (1.4%)	2 (2.8%)	0	3 (1.4%)
Due to COVID-19 related events	1 (1.4%)	2 (2.8%)	0	3 (1.4%)

^aFinal dose of study intervention was administered at Week 34 and final efficacy visit was at Week 38.

Clinical Remission

Mayo Score ≤ 2 with No Individual Subscore >1



^aThe adjusted treatment difference between the combination therapy vs. the monotherapy groups were based on the Wald statistic with the CMH weight.

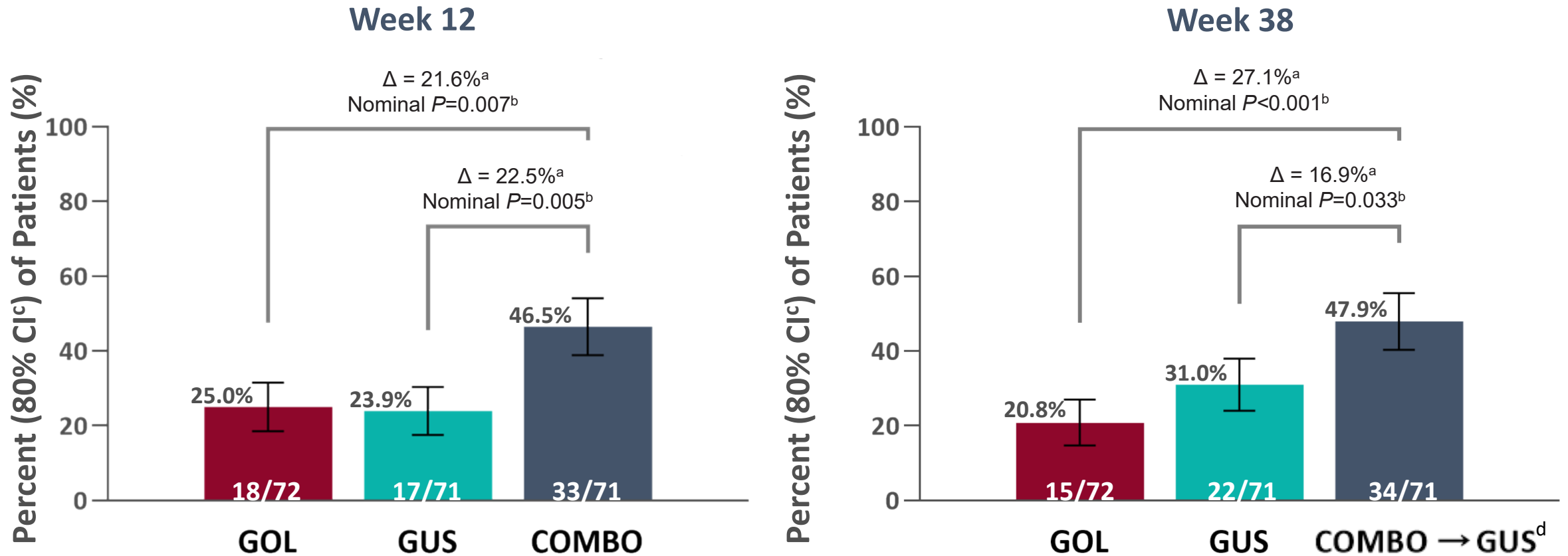
^bP-value was based on the CMH chi-square test, stratified by corticosteroid use at baseline (Yes, No).

^cThe 80% confidence intervals (CIs) for were based on the Wald statistic.

^dPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

Clinical Remission (Modified Mayo Score)

Mayo Stool Frequency Subscore of 0 or 1 and Not Increased from Baseline, a Rectal Bleeding Subscore of 0, and an Endoscopy Subscore of 0 or 1 with No Friability Present on the Endoscopy



^aThe adjusted treatment difference between the combination therapy vs. the monotherapy groups and the confidence interval (CI) were based on the Wald statistic with the CMH weight.

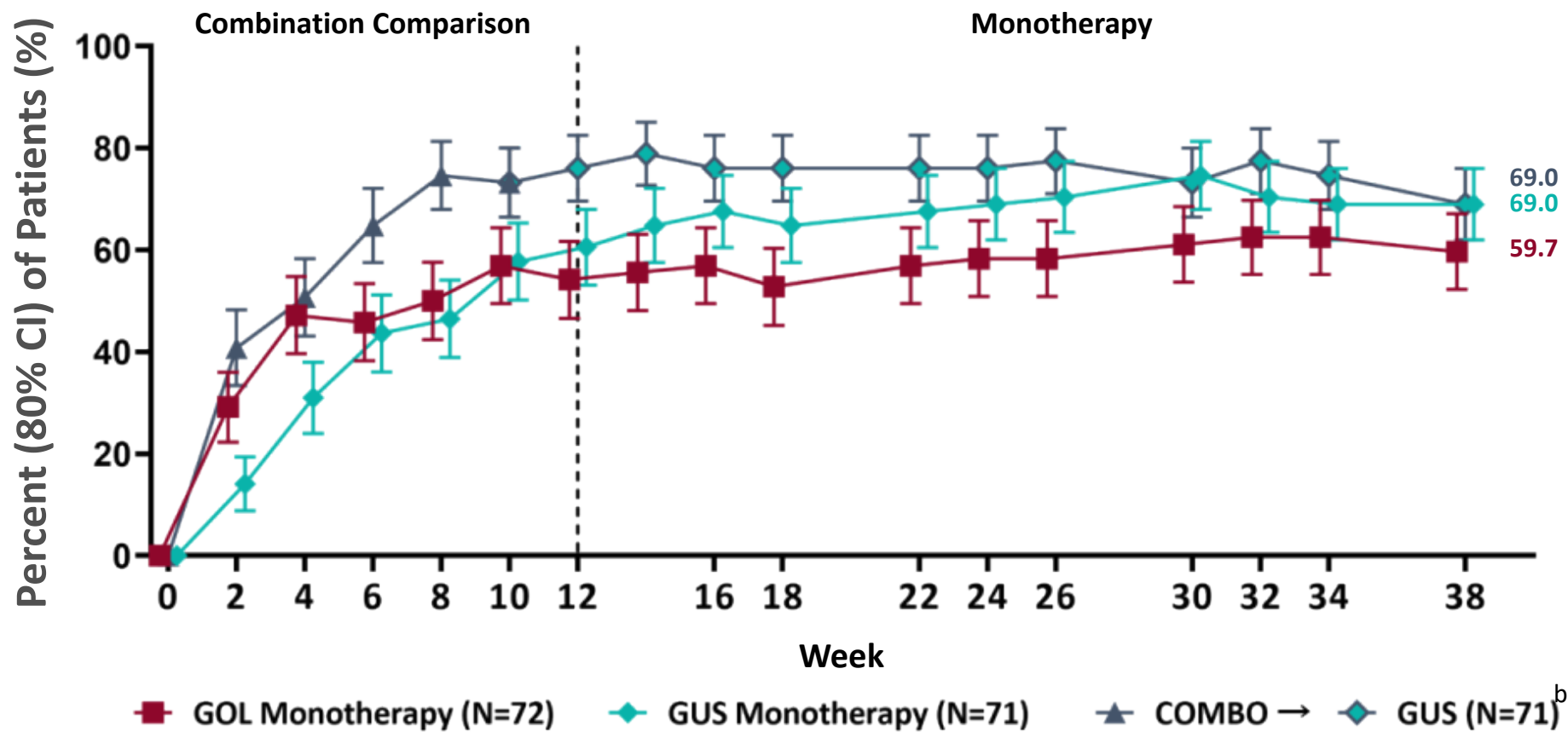
^bP-value was based on the CMH chi-square test, stratified by corticosteroid use at baseline (Yes, No).

^cThe 80% confidence intervals (CIs) were based on the Wald statistic.

^dPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

Symptomatic Remission Through Week 38^a

Mayo Stool Frequency Subscore of 0 or 1, Where the Stool Frequency Subscore Has Not Increased from Baseline, and a Rectal Bleeding Subscore of 0

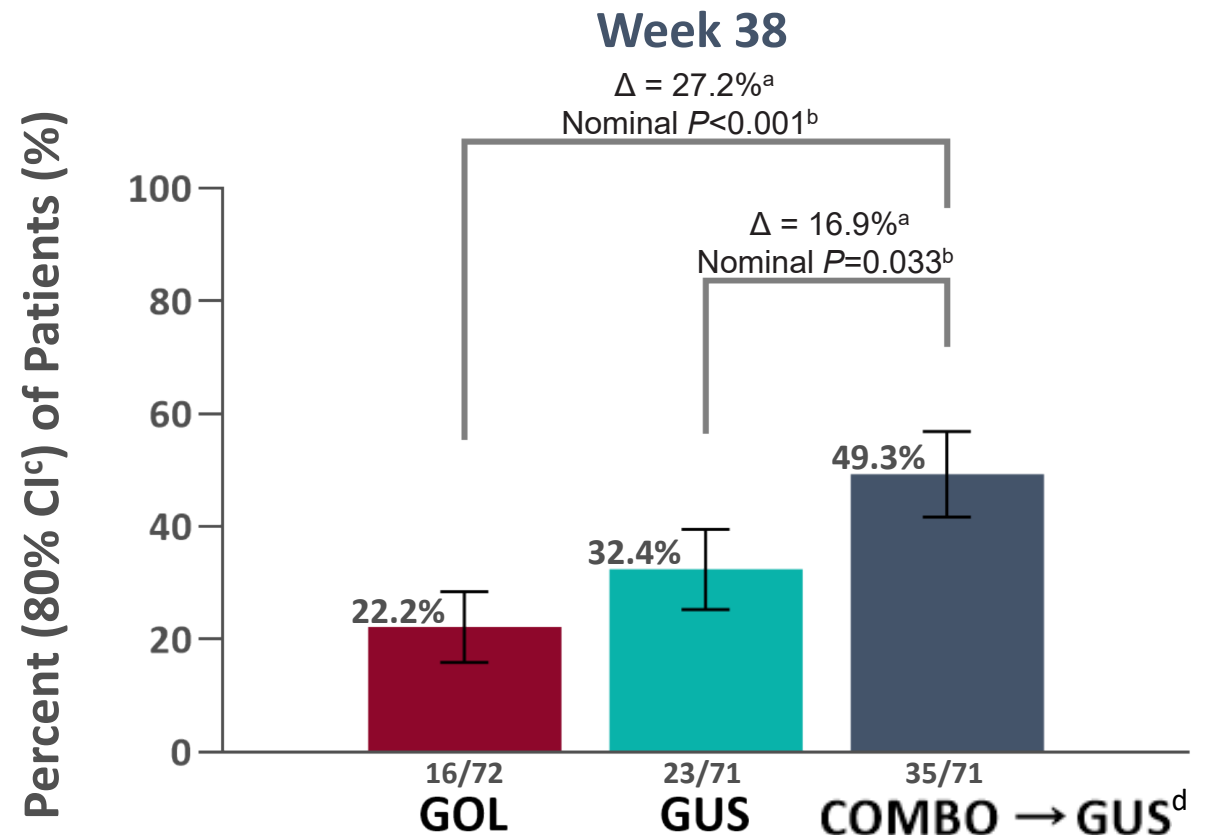
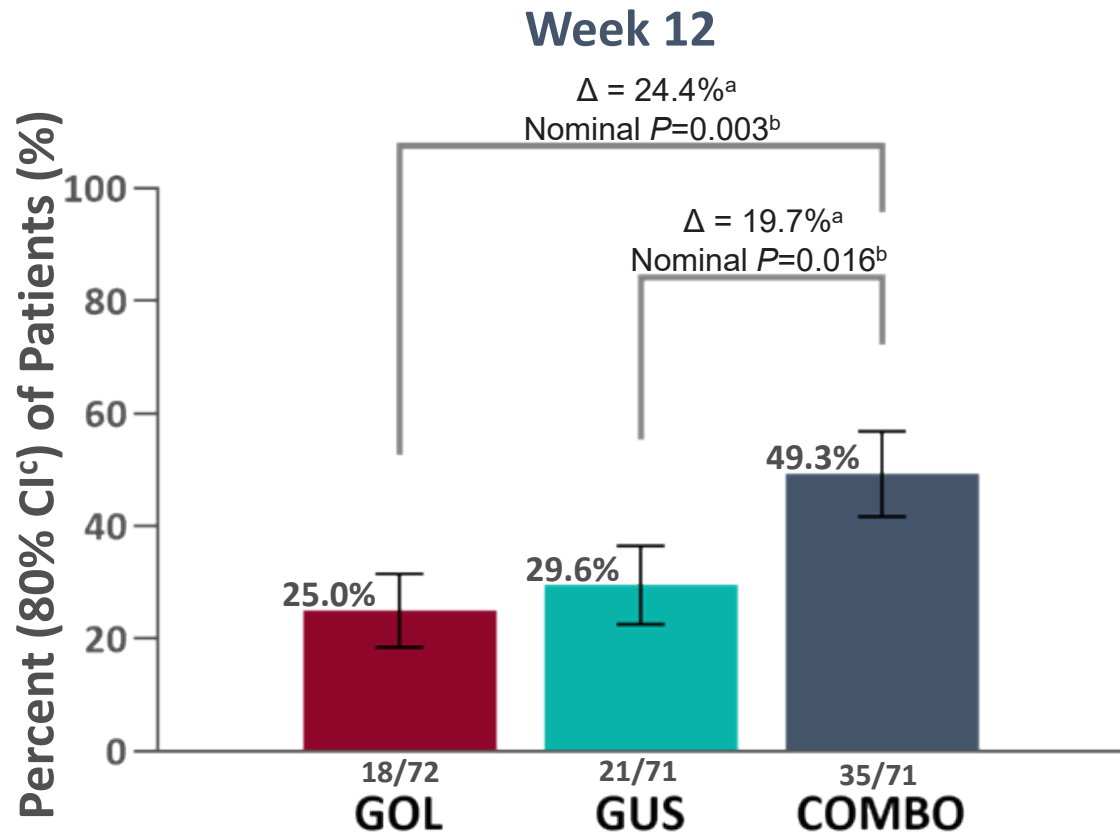


^aThe 80% confidence intervals (CIs) were based on the Wald statistic.

^bPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

Endoscopic Improvement

Endoscopy Subscore of 0 or 1 with No Friability Present on the Endoscopy



^aThe adjusted treatment difference between the combination therapy vs. the monotherapy groups and the confidence interval (CI) were based on the Wald statistic with the CMH weight.

^bP-value was based on the CMH chi-square test, stratified by corticosteroid use at baseline (Yes, No).

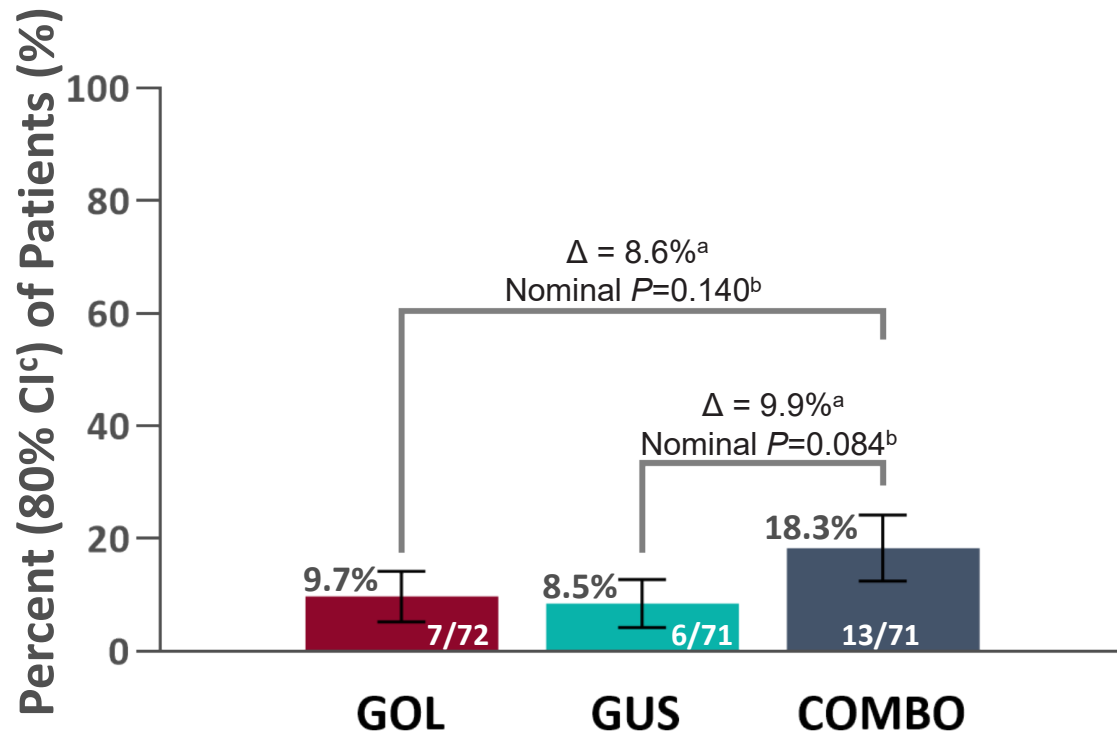
^cThe 80% confidence intervals (CIs) were based on the Wald statistic.

^dPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

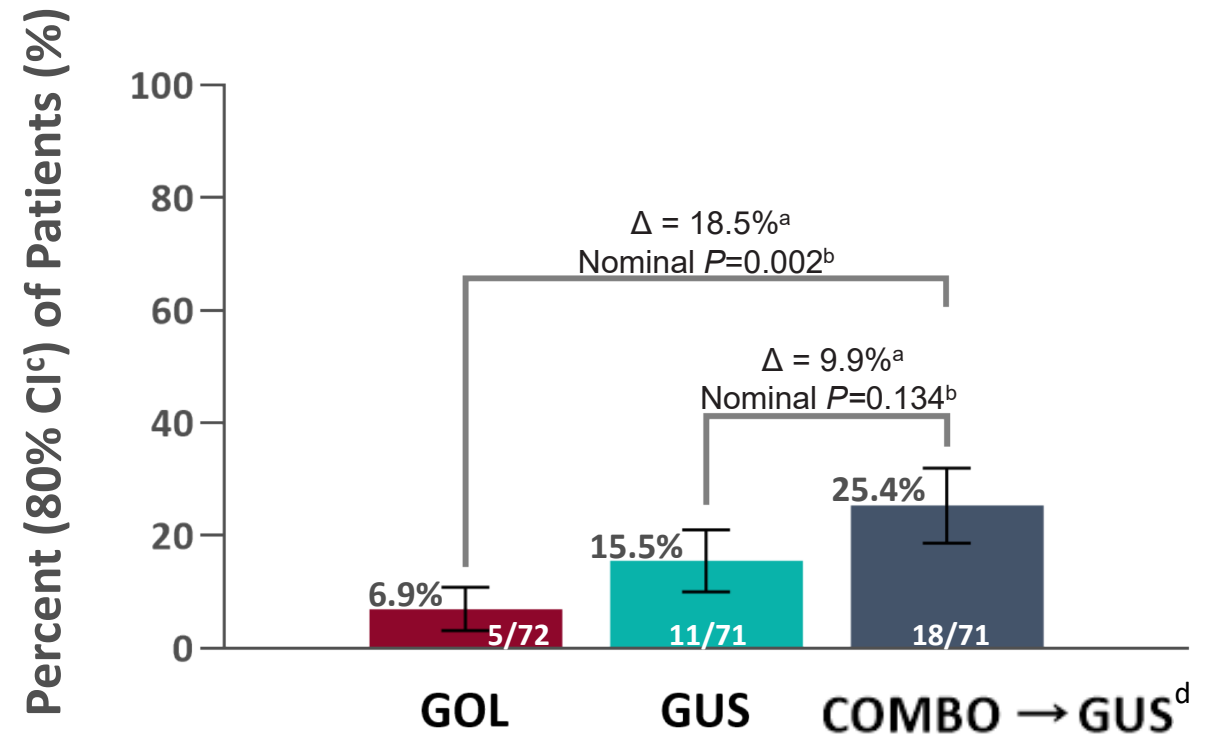
Endoscopic Normalization

Endoscopy Subscore of 0

Week 12



Week 38



^aThe adjusted treatment difference between the combination therapy vs. the monotherapy groups and the confidence interval (CI) were based on the Wald statistic with the CMH weight.

^bP-value was based on the CMH chi-square test, stratified by corticosteroid use at baseline (Yes, No).

^cThe 80% confidence intervals (CIs) were based on the Wald statistic.

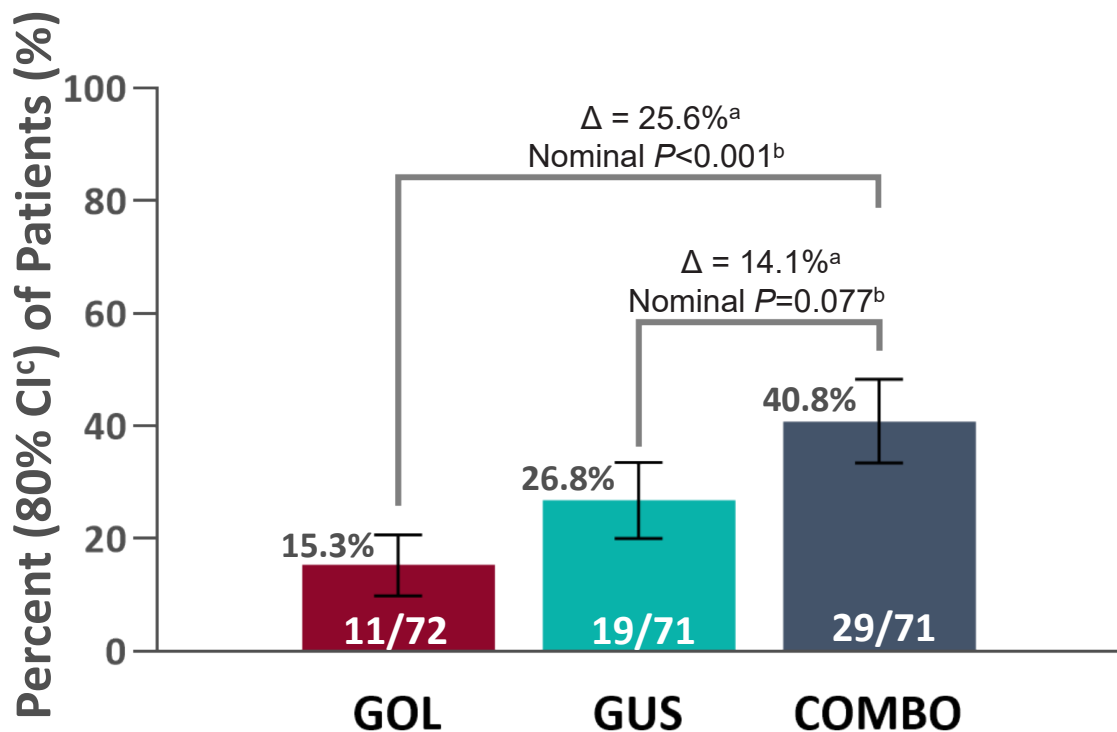
^dPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

Both Histologic Remission and Endoscopic Improvement

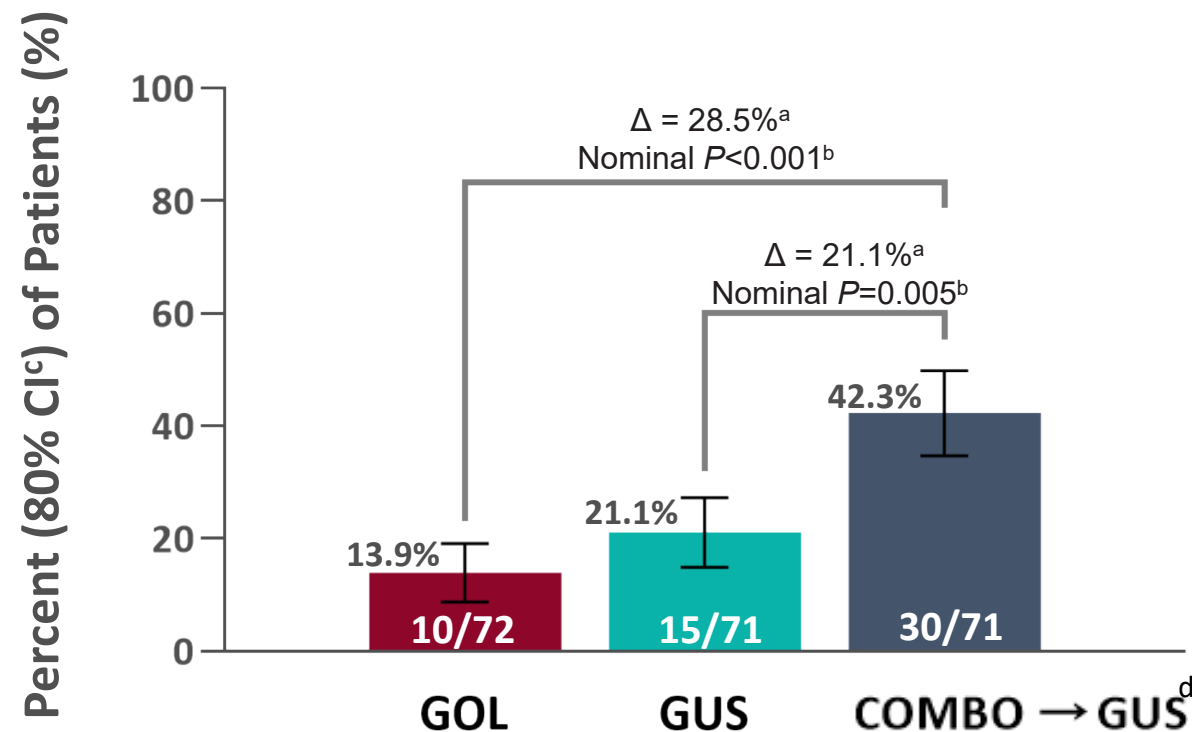
Histologic Remission: Absence of Neutrophils from the Mucosa (Both Lamina Propria and Epithelium), No Crypt Destruction, and No Erosions, Ulcerations or Granulation Tissue According to the Geboes Grading System

Endoscopic Improvement: Endoscopy Subscore of 0 or 1 with No Friability Present on the Endoscopy

Week 12



Week 38



^aThe adjusted treatment difference between the combination therapy vs. the monotherapy groups and the confidence interval (CI) were based on the Wald statistic with the CMH weight.

^bP-value was based on the CMH chi-square test, stratified by corticosteroid use at baseline (Yes, No).

^cThe 80% confidence intervals (CIs) were based on the Wald statistic.

^dPatients in the combination therapy group switched to guselkumab monotherapy beginning at Week 12.

Key Safety Findings Through Final Safety Visit

	GOL	GUS	COMBO→GUS
Number of Patients	72	71	71
Patients with ≥1, n (%)			
Adverse event (AEs)	55 (76.4%)	46 (64.8%)	45 (63.4%)
Serious adverse event (SAEs)	4 (5.6%)	4 (5.6%)	4 (5.6%)
AEs leading to discontinuation of study intervention	4 (5.6%)	1 (1.4%)	7 (9.9%)
Infection ^a	23 (31.9%)	17 (23.9%)	22 (31.0%)
Serious infection ^a	2 (2.8%)	2 (2.8%)	2 (2.8%)
Opportunistic infection ^{a,b}	0	0	2 (2.8%)
COVID-19 infection	1 (1.4%)	3 (4.2%)	2 (2.8%)
Malignancy	0	1 (1.4%)	0
AEs leading to death	0	1 (1.4%)	1 (1.4%)

Note: final dose of study intervention was administered at Week 34, followed by a 16-week safety follow-up period (Week 50).

^aAs assessed by the investigator.

^bExtrapulmonary TB and cytomegalovirus colitis.

Feagan B.G., et al. Presentation 40. ACG; October 21-26, 2022; Charlotte & Virtual.

Conclusions

- Patients treated with combination induction therapy with **guselkumab plus golimumab, followed by guselkumab monotherapy**, achieved higher rates of the following endpoints at Week 38 as compared to **either guselkumab or golimumab alone**:
 - Clinical remission
 - Endoscopic improvement and endoscopic normalization
 - Composite endpoint of histologic remission and endoscopic improvement
- Adverse event rates were comparable among the treatment groups
- The combination treatment paradigm evaluated in VEGA warrants further investigation