

Ustekinumab Open-label Induction and Randomized Blinded Maintenance Therapy in Pediatric Participants with Moderately to Severely Active Crohn's Disease: The Phase 3 UNITI Jr Study

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Disclosure information

Jeffrey S. Hyams

I disclose the following financial relationship(s) with a commercial interest

I have served on an advisory board for Janssen and AbbVie; and served as a consultant for Pfizer, Eli Lilly, Boehringer Ingelheim, Bristol Myers Squibb, and Genentech.

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Background and Objective



Ustekinumab is an IL-12/23p40 subunit inhibitor that is indicated for Crohn's disease, ulcerative colitis, plaque psoriasis, and psoriatic arthritis in adults and plaque psoriasis and psoriatic arthritis in pediatric patients (≥ 6 years)



UNITI Jr is a study evaluating open-label ustekinumab intravenous induction followed by randomized, double-blind subcutaneous maintenance therapy (q12w or q8w) in pediatric participants (< 18 yrs) with moderately to severely active Crohn's disease



An interim analysis of participants weighing ≥ 40 kg was conducted to support an earlier regulatory submission to the EMA before the enrollment of younger participants (weighing < 40 kg) was complete

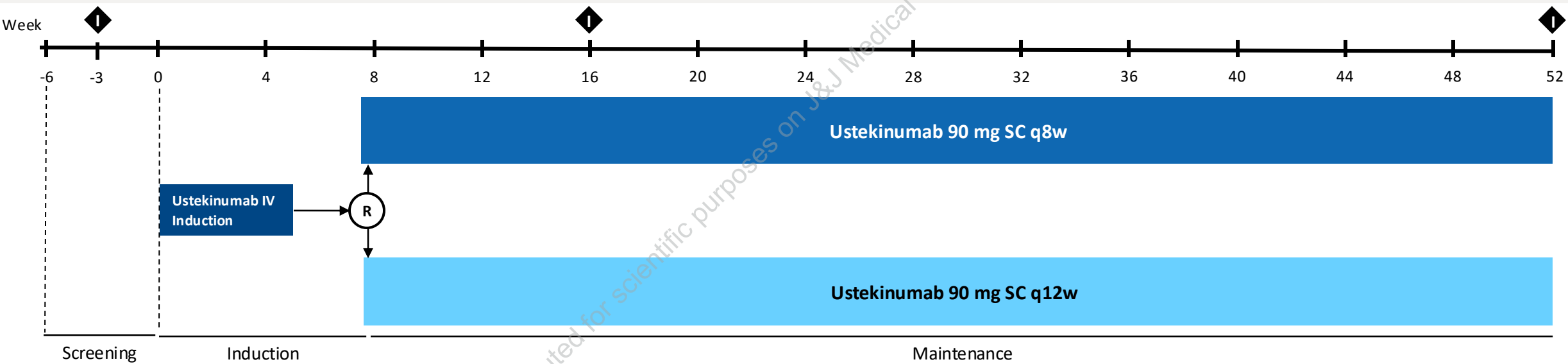


Study Objective: Here we report interim efficacy and safety results from UNITI Jr through Week 52 in pediatric participants ≥ 40 kg

UNITI Jr Study Design

Key Eligibility Criteria:

- Pediatric participants <18 years old with a body weight of ≥40 kg and a Pediatric Crohn’s Disease Activity Index (PCDAI) score of >30
- Inadequate response/intolerance to biologic therapies (TNFα antagonist or vedolizumab), IV or oral corticosteroids (including corticosteroid dependence), or immunosuppressants (6-MP/AZA/MTX)
- Ileocolonoscopy with evidence of active Crohn’s disease defined as presence of ulceration during screening



Weight-tiered IV dosing:

- ≥40 kg to ≤55 kg: ustekinumab 260 mg
- >55 kg to ≤85 kg: ustekinumab 390 mg
- >85 kg: ustekinumab 520 mg

Responders who lost response and had low ustekinumab trough concentrations (<1.4 µg/mL) were eligible to enroll in the **open-label Exposure Optimization Substudy** and dose adjust to q4w (N=12)

IV, intravenous; SC, subcutaneous

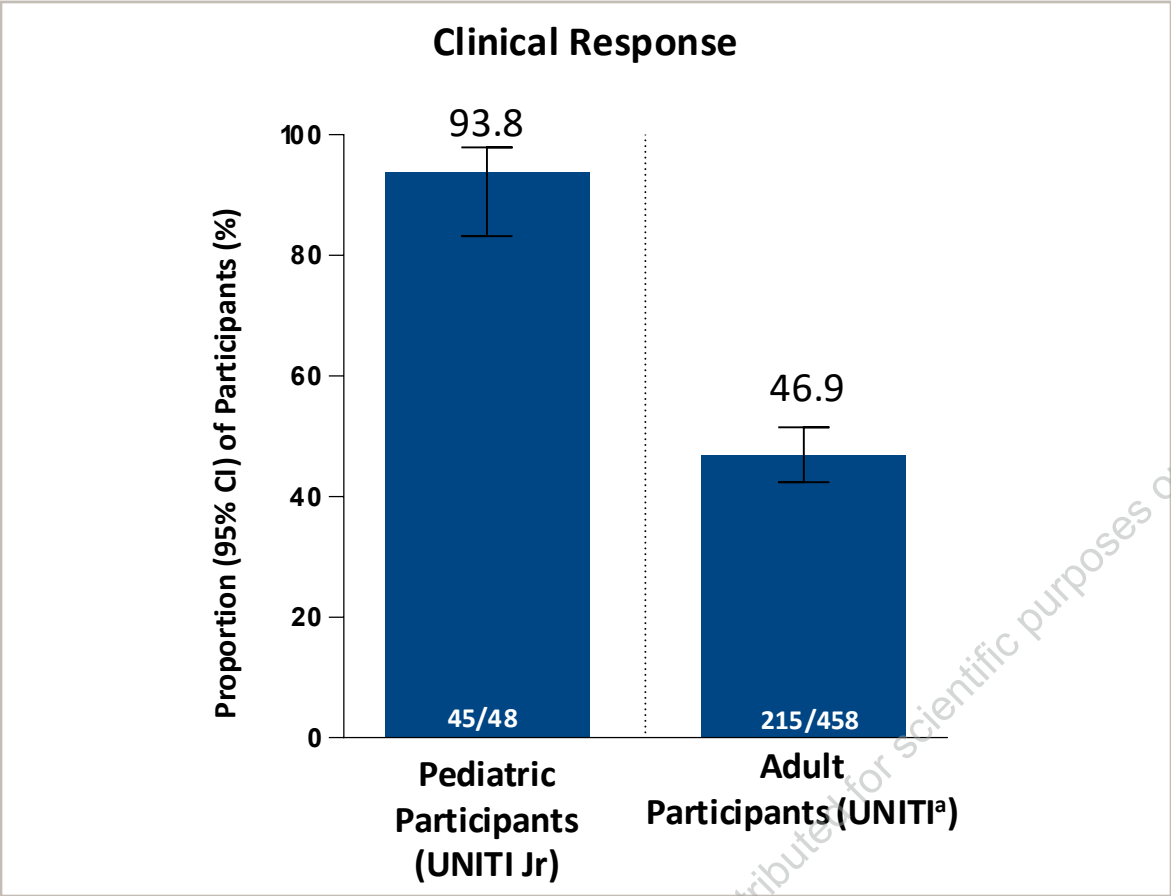
Baseline Demographics and Clinical Characteristics

	Ustekinumab IV→SC q12w (N=25)	Ustekinumab IV→SC q8w (N=23)
Demographics		
Age , yrs, mean (SD)	14.7 (1.52)	14.7 (1.76)
Male , n (%)	11 (44.0)	16 (69.6)
White , n (%)	22 (88.0)	22 (95.7)
Weight , kg, median (range)	47.8 (41; 83)	55.4 (42; 85)
Height z-score , median (range)	0.67 (-1.4; 1.5)	0.47 (-1.3; 2.3)
BMI z-score , median (range)	-0.26 (-1.7; 2.6)	0.08 (-1.3; 4.1)
Clinical Characteristics		
Age at diagnosis , yrs, mean (SD)	12.1 (3.11)	12.2 (2.50)
Disease duration , yrs, mean (SD)	2.7 (2.65)	2.6 (1.91)
C-reactive protein , mg/L, median (IQR)	10.70 (5.60; 41.20)	13.10 (2.20; 41.90)
Fecal calprotectin , mg/kg, median (IQR)	1971.0 (1739; 3725.0)	1874.5 (966.0; 3780.0)
PCDAI score , mean (SD)	42.00 (9.043)	41.20 (6.024)
sPCDAI score , mean (SD)	56.0 (12.08)	55.0 (11.58)
CDAI score , mean (SD)	431.22 (121.108)	392.62 (106.482)
SES-CD score , mean (SD)	12.5 (6.33)	12.1 (7.43)

Crohn's Disease-Related Medications and Therapies

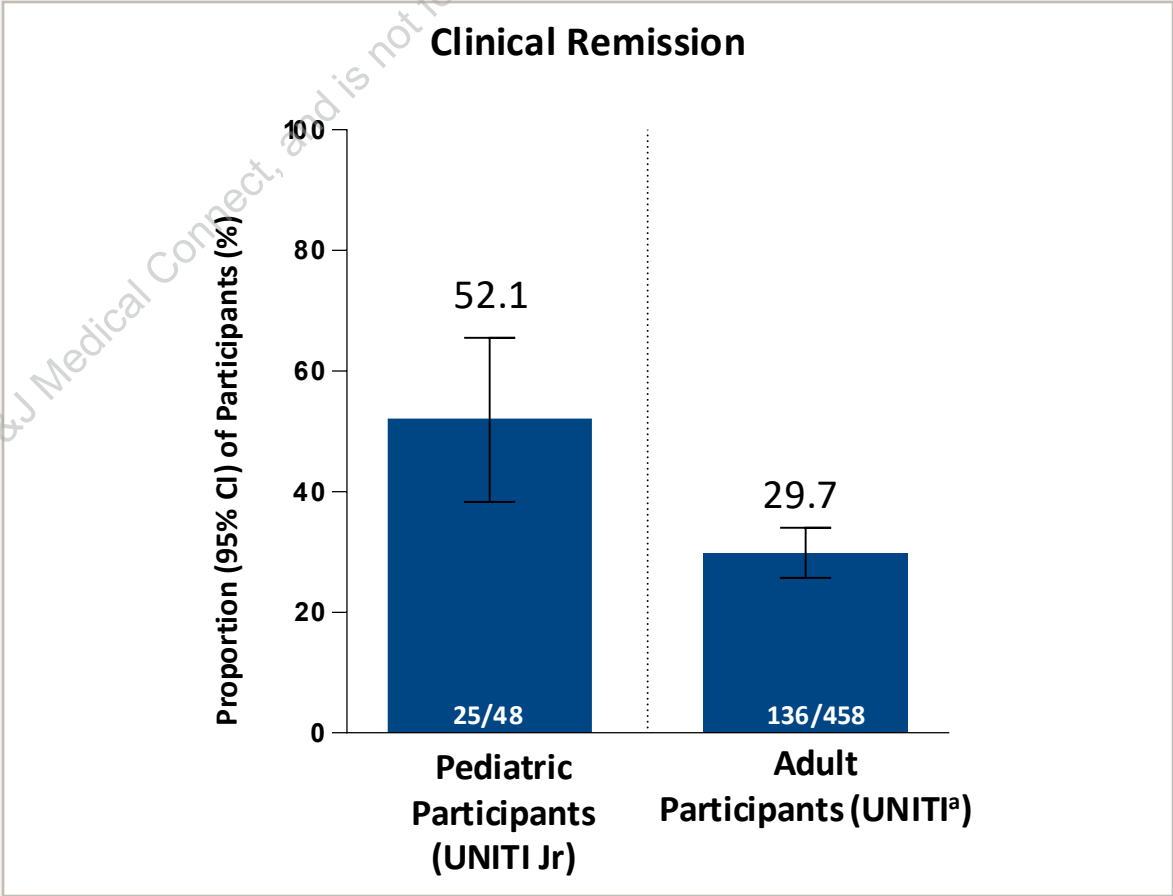
	Ustekinumab IV→SC q12w (N=25)	Ustekinumab IV→SC q8w (N=23)
Prior history of biologics, n (%)		
Inadequate response or intolerance to biologics	9 (36.0)	10 (43.5)
Biologic-naïve	15 (60.0)	12 (52.2)
Prior history of exclusive enteral nutrition as primary therapy, n (%)	11 (44.0)	9 (39.1)
Baseline Crohn's disease-related concomitant medications, n (%)	18 (72.0)	17 (73.9)
Corticosteroids	6 (24.0)	8 (34.8)
Immunomodulators	9 (36.0)	9 (39.1)
5-Aminosalicylates (5-ASA)	11 (44.0)	10 (43.5)
Baseline exclusive enteral nutrition, n (%)	2 (8.0)	3 (13.0)

Clinical Response and Clinical Remission at Week 8



Pediatric clinical response: reduction from baseline in the PCDAI score ≥ 12.5 with total PCDAI score not more than 30

Adult clinical response: reduction from baseline in the CDAI score ≥ 100 points or total CDAI score not more than 150

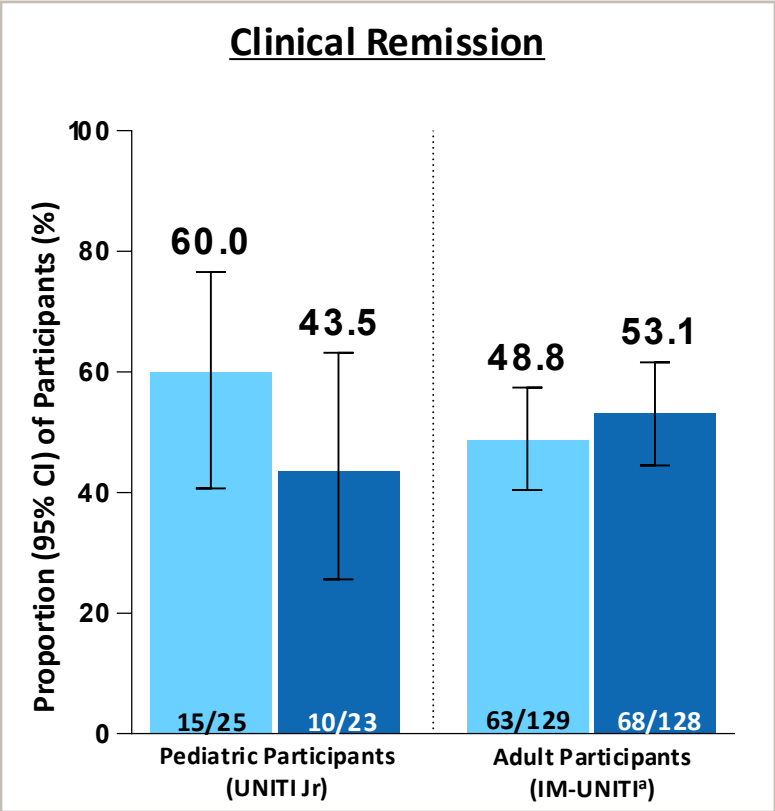


Pediatric clinical remission: PCDAI score ≤ 10

Adult clinical remission: CDAI score < 150

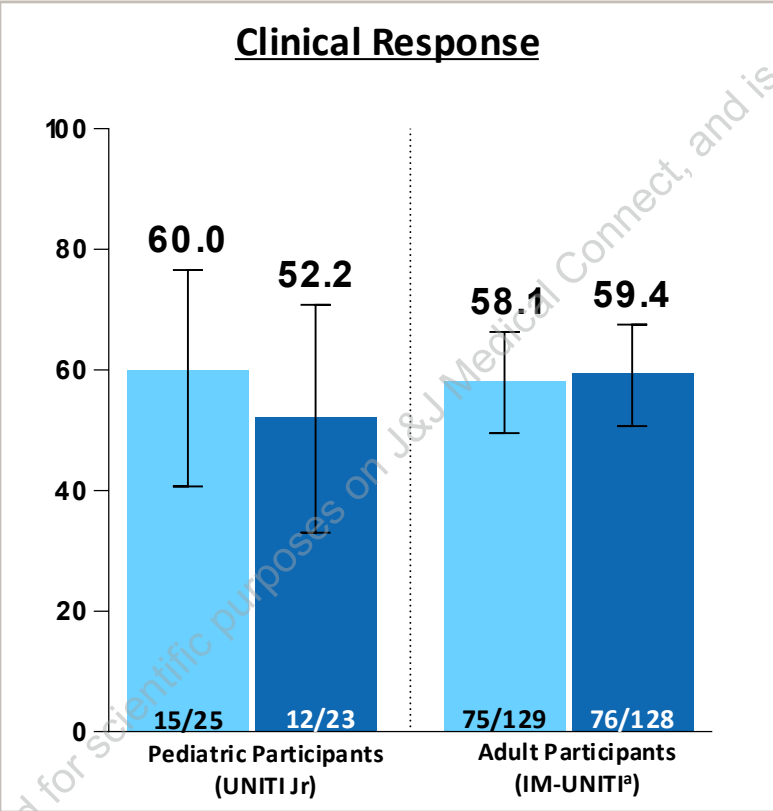
^aFeagan, B. et al. NEJM; 2016

Clinical Outcomes at Week 52



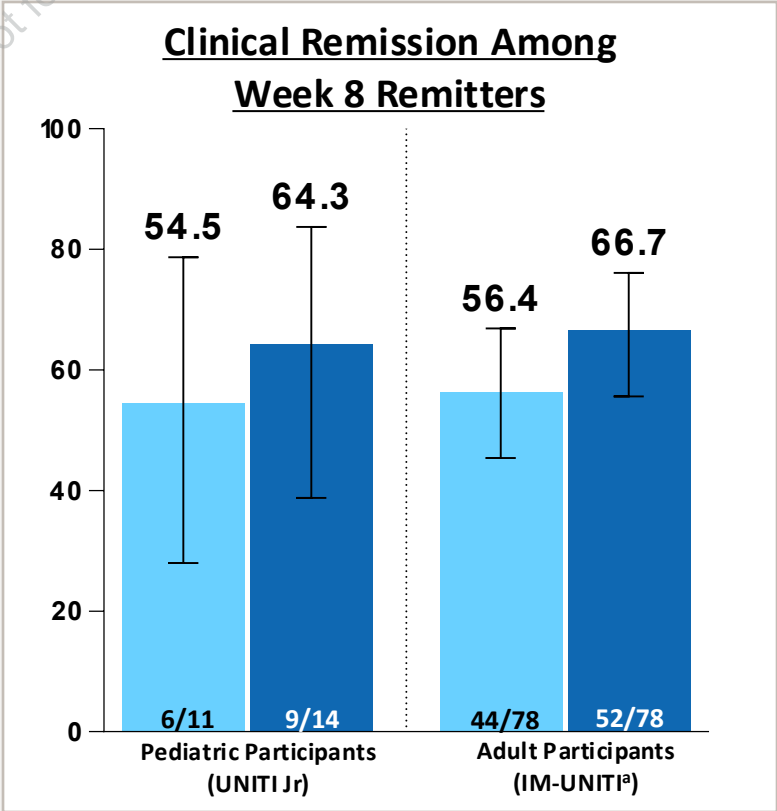
Pediatric clinical remission: PCDAI score ≤ 10

Adult clinical remission: CDAI score < 150



Clinical response: reduction from baseline in the PCDAI reduction of ≥ 12.5 with total score of ≤ 30

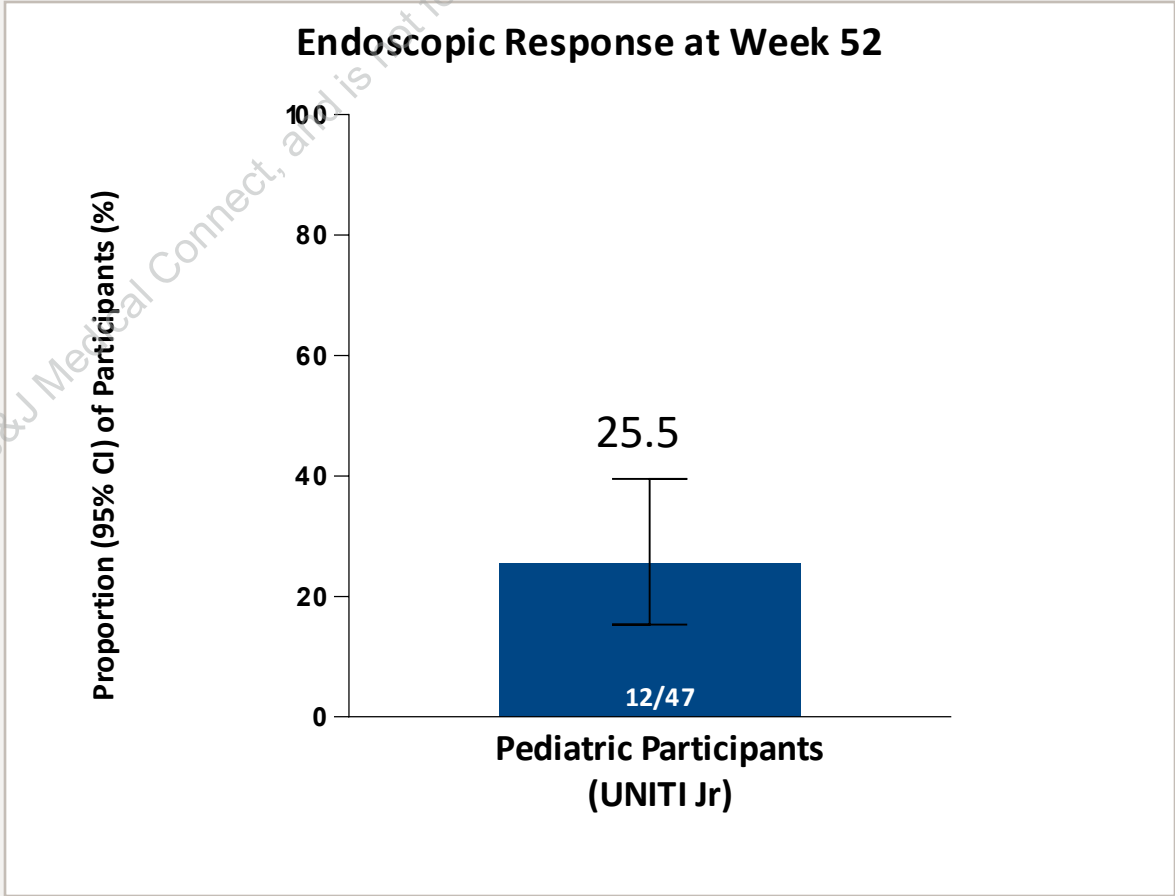
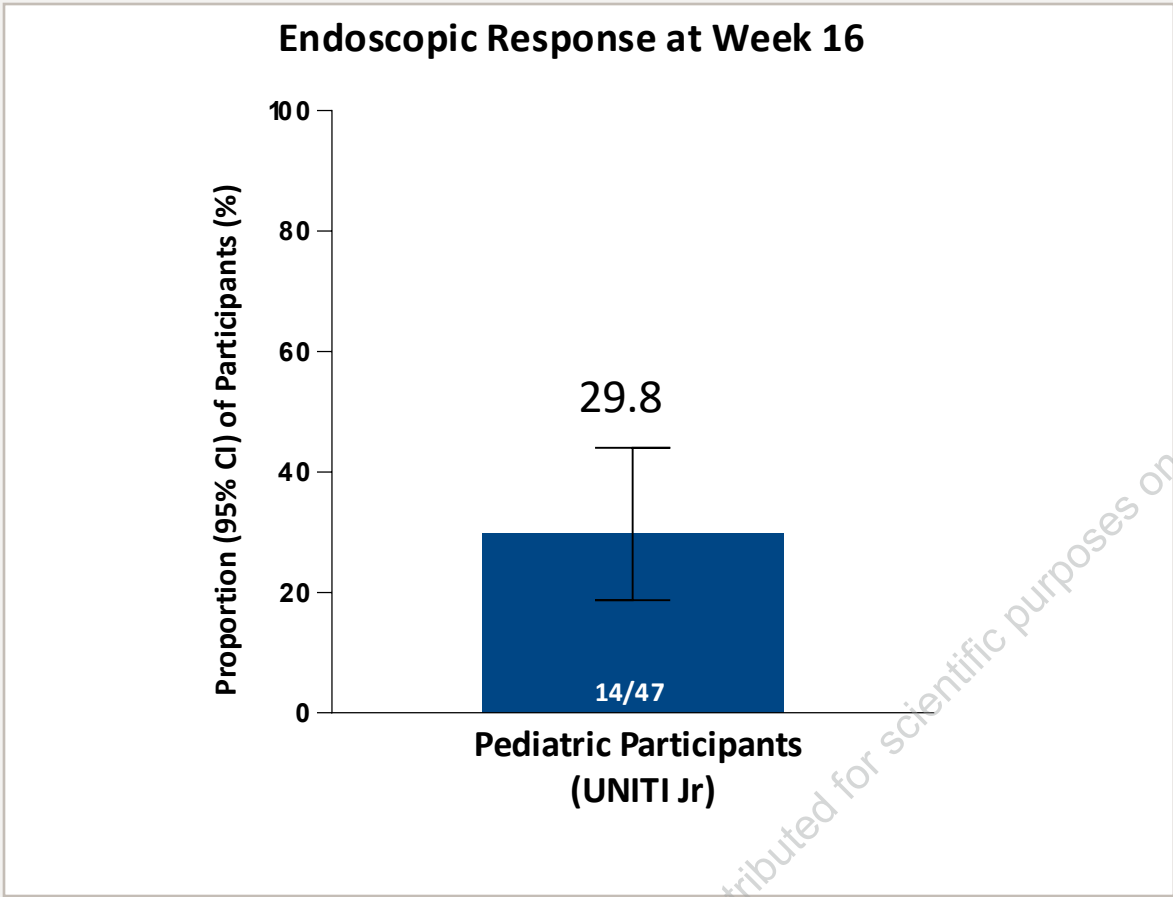
Adult clinical response: reduction from baseline in the CDAI score ≥ 100 points or total CDAI score not more than 150



All pediatric participants who were in clinical remission at Week 52 were corticosteroid free

^aFeagan, B. et al. NEJM; 2016

Endoscopic Response at Week 16 and Week 52



Pediatric endoscopic response: reduction from baseline in SES-CD score $\geq 50\%$ or SES-CD score ≤ 2 in subjects with a baseline SES-CD score of ≥ 3

Adverse Events From Week 0 Through Week 52

	Ustekinumab IV→SC q12w (N=25)	Ustekinumab IV→SC q8w (N=23)
Average duration of follow-up (weeks)	43.7	47.5
Average number of administrations	7.3	7.8
Participants with 1 or more, n (%):		
Adverse events	23 (92.0)	21 (92.3)
Serious adverse events	5 (20.0)	4 (17.4)
Death	0	0
Adverse events leading to discontinuation	1 (4.0)	1 (4.3)
Infections	18 (72.0)	17 (73.9)
Serious infections	0	0
Infections requiring oral and/or parenteral antimicrobial treatment	3 (12.0)	7 (30.4)
Malignancy	0	0
Active tuberculosis infection	0	0
Opportunistic infections	0	0
Injection-site reactions ^a	0	0

Note: Includes any final safety visit data which occurs prior to the database lock in participants who discontinued study intervention.

^a Injection-site reaction is any reaction at an SC study intervention injection site that was recorded as an injection-site reaction by the investigator.

Serious Adverse Events

During the Induction Period: 1 participant experienced an Serious Adverse Event (SAE) of nephrolithiasis, with a prior history of nephrolithiasis.

During the maintenance period: 8 participants (16.7%) experienced 1 or more SAE.

SAEs included:

- Crohn's disease exacerbation
- Bloody diarrhea
- Excision of a perianal fistula
- Worsening of gastritis due to Aeromonas infection
- Suicide attempt
- Elevated liver enzymes
- Broken right collarbone
- Syncope

No participants experienced SAEs during the substudy.

Key Takeaways



Ustekinumab induction and maintenance therapy was effective and safe through 52 weeks in pediatric participants weighing ≥ 40 kg with moderately to severely active Crohn's disease



Clinical response and remission rates through Week 52 were consistent with those observed in adult patients with Crohn's disease



No new safety issues were identified through Week 52. No deaths, malignancy, active tuberculosis, opportunistic infections, or injection-site reactions were reported.

Future Direction



On March 31, 2025, Stelara was approved in the EU for pediatric Crohn's Disease for children ≥ 40 kg based upon this interim data, with supportive real-world evidence from the ImproveCareNow network



The UNITI Jr study has concluded, with data collection complete for all pediatric patients aged 2 to <18 years who have moderately to severely active Crohn's disease (including children weighing <40 kg)



Regulatory submissions to FDA and EMA for label extensions are planned

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