

Open Label, paediatric moderate to severe UC.
All 5mg/kg induction at 0,2,6w.
Clinical responders at w8 were randomized to:
IFX 5mg/kg q8w or 5mg/kg q12w.
Patients losing response, eligible to dose increase.

Primary outcome:

Clinical response w8.

Results:

- w8, higher serum concentrations better efficacy endpoints.
- W30 higher serum levels in q8w than q12w

Conclusion:

IFX pharmacokinetics/exposure–response relationship in patients with UC aged 6 to 17 years comparable with those in adult UC, supporting using IFX 5 mg/kg at weeks 0, 2, and 6 followed by maintenance dosing with 5 mg/kg q8w in these patients. A positive relationship was noted between serum infliximab level and clinical effect following induction therapy similar to adults.

TABLE 3. Proportions of Pediatric Patients with UC Achieving Efficacy Endpoints at Week 8 by Serum Infliximab Concentration Quartile

| Week 8 Response | Infliximab Serum Concentration ($\mu\text{g/mL}$) Quartile | | | |
|---------------------------------|--|----------------------------------|----------------------------------|-------------------------|
| | <18.1 (N = 13), % | ≥ 18.1 to <28.9 (N = 14), % | ≥ 28.9 to <41.1 (N = 14), % | ≥ 41.1 (N = 14), % |
| Clinical response ^a | 53.9 | 78.6 | 92.9 | 92.9 |
| Mucosal healing ^b | 53.9 | 71.4 | 78.6 | 92.9 |
| Clinical remission ^c | 30.8 | 42.9 | 35.7 | 64.3 |

^aDecrease from baseline in the Mayo score by $\geq 30\%$ and ≥ 3 points, with a decrease in the rectal bleeding subscore of ≥ 1 or a rectal bleeding subscore of 0 or 1.

^bEndoscopy subscore of the Mayo score of 0 or 1.

^cMayo score ≤ 2 points with no individual subscore > 1 .

