2021. UNISTAR

Phase 1/ UST/ pediaCD/Pharm/Safety

Phase 1, double-blind, induction dose-ranging study. Paediatric CD moderately-to-severely active were randomised to: One of two weight range-based IV doses: 130mg vs 390mg in patients >40kg and 3mg/kg vs 9mg/kg in patients <40Kg. At w8 all patients received SC UST at 90mg in patients >40Kg or 2mg/kg <40kg.

<u>Outcome:</u>

To evaluate the pharmacokinetics, safety/tolerability, and efficacy.

<u>Results:</u>

- Pharmacokinetics were similar to those in adults with Crohn's disease.
- However, serum UST concentrations were lower among those with body weight <40 kg compared with patients ≥40 kg and the reference Phase 3 adult population.

Conclusion:

The pharmacokinetics/safety profiles were generally consistent with those observed in adults with Crohn's disease. These results suggest a different dosing regimen may be required for patients <40 kg from that employed in this study; additional pharmacokinetic analyses may be needed in this population

Ustekinumab in Paediatric Patients with Moderately to Severely Active CD: Pharmacokinetics, Safety, And Efficacy Results from UniStar, A Phase 1 Study

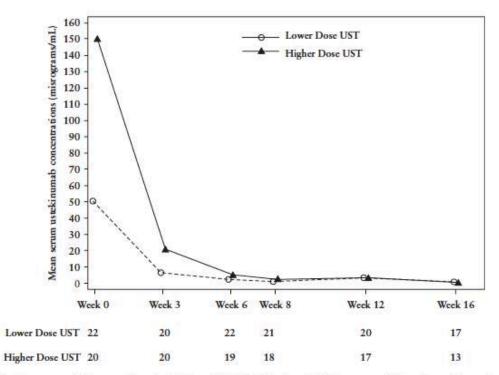


Figure 2. Line plot of mean serum UST concentrations [µg/mL] through Week 16. BW, body weight; IV, intravenous; UST, ustekinumab; lower dose, 3 mg/kg IV for patients <40 kg BW or 130 mg IV for patients ≥40 kg BW; higher dose, 9 mg/kg IV for patients <40 kg BW or 390 mg IV for patients ≥40 kg BW.

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