1-year randomized controlled trial.

Patients with moderate-severe IBD were randomized to:

- IFX dosing based on their clinical features or continued dosing based on Trough concentrations (TC) (maintenance phase)
- \*IFX dose escalated or reduced using an algorithm to reach a target TC of 3–7 mg/mL in all patients (optimization phase).

<u>Primary outcome</u>: Primary end point was defined as the proportion of patients in each group in clinical HBI 4 for CD and partial Mayo score <2 and biological (CRP<5 mg/L) remission at year 1 after optimization

## Results:

- Based on clinical features 66% and 69% whose dosing was based on TC achieved remission, the primary end point (p 0.686).
- Disease relapsed in 21 patients who received clinically based dosing (17%) and 9 patients who received concentration-based dosing (7%) (p 0.018).

<u>Conclusion</u>: Targeting patients' infliximab TCs to 3–7 mg/mL results in a more efficient use of the drug. After dose optimization, continued concentration-based dosing was not superior to clinically based dosing for achieving remission after 1 year, but was associated with fewer flares during the course of treatment.



