

Clinical and pharmacokinetic results after the switch to infliximab biosimilar in inflammatory bowel disease: 2 years of real-life experience

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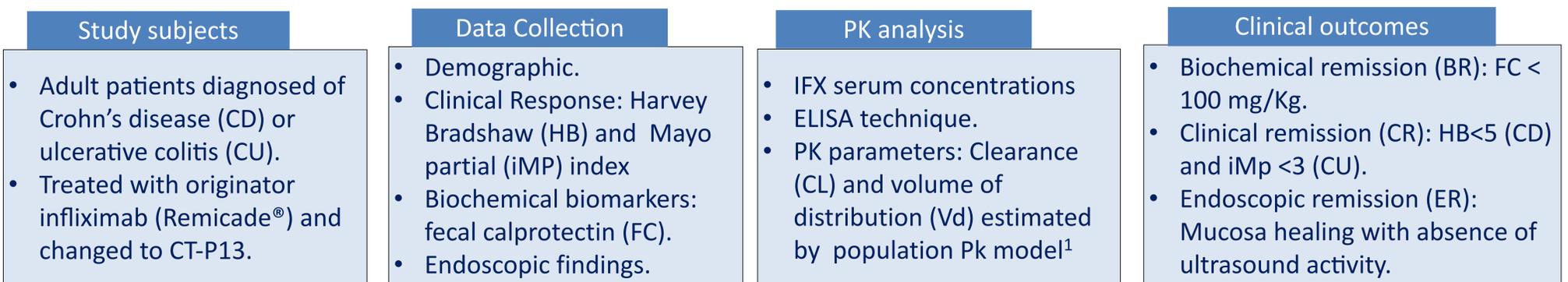
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Background and Objective

- Debate on the use of biosimilars focuses on the therapeutic efficacy and safety of switching between biosimilars and their reference products.
- The objective was to determine the clinical results and pharmacokinetic (PK) behavior of switching from originator infliximab to biosimilar (CT-P13) in patients with inflammatory bowel disease (IBD) over 2 years.

Material and Methods



Chronological evaluation of PK parameters and response outcomes:



Statistical analysis:

- Repeated measures ANOVA test to compare PK parameters.
- Percentage of patients who reached the response outcomes.

Results

Demographics

- Patients (n=42): 55% women.
- Age: 42 [18-70] years.
- Pathology: 10 UC and 32 CD

Clinical outcomes



Reference: 1. Sánchez-Hernández, et al. A 3-year prospective study of a multidisciplinary early proactive therapeutic drug monitoring programme of infliximab treatments in inflammatory bowel disease. Br J Clin Pharmacol. 2020;1– 11.

Pharmacokinetic parameters

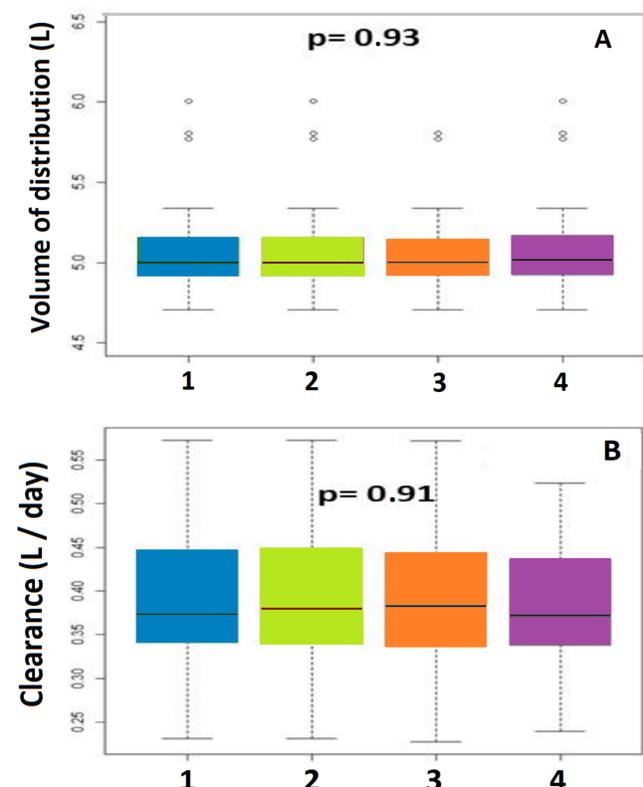


Figure 1. Box plot of PK parameters: volumen of distribution (A) and clearance (B) in four temporal sections: prior to the switch (1), immediately after (2), eight months later (3) and two years later (4).

Conclusion

After switching from infliximab originator to biosimilar in a real cohort of IBD patients, no changes in clinical outcomes or pharmacokinetic behavior were observed over 2 years, which supports the switch in clinical practice.