26AC-0039



Centre hospitalier universitaire vaudois

SIGNIFICANT DISCONTINUATION RATES IN PATIENTS INITIATING OR SWITCHING FOR CT-P13: A RETROSPECTIVE COHORT STUDY IN A UNIVERSITY HOSPITAL

Krstic M.^{1,2, 3, 4}, Devaud J.-C.^{2, 3}, Sadeghipour F.^{1,2, 3, 4}, Marti J. ^{5, 6}

¹ Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva, University of Lausanne, Geneva, Switzerland, ² Service of pharmacy, Lausanne University Hospital, Lausanne, Switzerland, ³ Centre for Research and Innovation in Clinical Pharmaceutical Sciences, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland, ⁴ School of Pharmaceutical Sciences, Geneva, Switzerland, ⁵ University of Lausanne, Faculty of Biology and Medicine, Lausanne, Switzerland, ⁶ University Centre for General Practice and Public Health (Unisanté), Lausanne, Switzerland

Introduction

- CT-P13 is an infliximab biosimilar that received market authorization in the European Union in 2013.¹
- CT-P13 has undeniable cost-savings opportunities and extensive literature supporting its equivalence to originator infliximab (OI) in terms of efficacy, safety and immunogenicity.²

Conclusions

- According to routine medical data :
 - Lack of efficacy and treatment resistance were the main reasons for the high CT-P13 discontinuation rate observed in a large tertiary hospital.
 - Coordination between the various healthcare professionals involved with the patient is a
- Despite these elements, CT-P13 remains largely underused in our country, either under-prescribed of discontinued after its introduction.³

Objective

 Explore the reasons behind the high discontinuation rate observed among the patients on CT-P13 in a large tertiary hospital.

Methods

- Retrospective cohort analysis using routinely collected data following the RECORD statement.⁴
- Patients were eligible if they received OI or CT-P13 between September 2017 and December 2020 and included following the criteria listed in Table 1.

 Table 1 Inclusion and exclusion criteria

prerequisite for biosimilars to achieve their maximum cost-saving potential.



	Inclusion criteria	Exclusion criteria			Patients Patients that switched from OI to CT–P13 Patients that initated treatment with CT–P13 													
Participants	Patients who have been on OI or CT-P13 treatment, regardless of age	Patients with an underlying oncology diagnosis	0.00 -								P13						360	
Interventions	At least two CT-P13 infusions	Switchers with < 3 months of OI treatment before switch to CT- P13	360 day	s. Both	306090120150180210240Time (days)leier plot showing the proportion of switchers (yellow) and initiators (blu continuous and dotted heavy lines represent the median function curve erval. OI = Original infliximab										e) that discontinued CT-			
Follow-up	≥ 1 year prior to and ≥ 6 months after the first CT-P13 infusion	Follow-up < 6 months after the first CT-P13 infusion	Discontinued CT-P13 and reverted back to OI								Discontinued CT-P13 and switched to another treatement							
Data	Available infusions dates (onset, end, discontinuation, switch)	Incomplete medical records																
OI = Originator inflix	ximab , Switchers = Patients switched from C	DI to CT-P13	30 -															
esults																		
witchers th	s were included and class at were treated with OI = 85, 54%) and in	and were switched to	ber of patients															
eceive OI	prior to CT-P13 treatme hers and 35 (49%) initia	ent (n = 71, 46%). 23	10 -															

- Main reasons for CT-P13 discontinuation were lack of efficacy (n = 21, 36%) and treatment resistance(n = 16, 28%) (Fig. 2).
- Lack of active training and coordination among healthcare professionals and little education in patients may have exacerbated patients' subjective complaints and increased CT-P13 discontinuation rate.

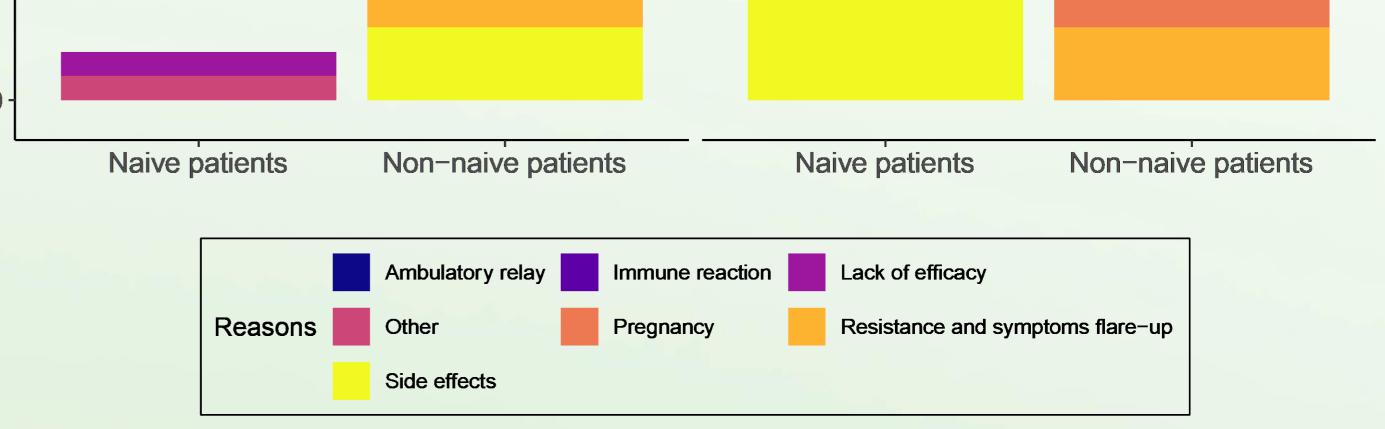


Fig. 2 Reasons for CT-P13 discontinuation in naive and non-naive patients that switched for a different treatment of reverted back to original infliximab. OI = Original infliximab

References

- 1. European Medicines Agency. Inflectra, https://www.ema.europa.eu/en/medicines/human/EPAR/inflectra (2013). [Accessed on 06.04.2021]
- 2. Liu, Y. et al. Economic Impact of Non-Medical Switching from Originator Biologics to Biosimilars: A Systematic Literature Review. Adv Ther 36, 1851-1877, doi:10.1007/s12325-019-00998-3 (2019).
- 3. Troein P., Newton M. & Scott K. The impact of Biosimilar Competition in Europe, https://www.iqvia.com/library/white-papers/the-impact-of-biosimilar-competition-in-europe [Accessed on 01.03.2021]
- 4. Benchimol, E. I. et al. The REporting of studies Conducted using Observational Routinely-collected health Data (RECORD) statement. PLoS Med 12, e1001885, doi:10.1371/journal.pmed.1001885 (2015).



Contact : Marko.Krstic@chuv.ch **Disclaimer** : No conflicts of interest to be declared