TREATMENT PERSISTENCE AND DISCONTINUATION REASONS OF JANUS KINASE INHIBITORS IN A REAL-WORLD SETTING OF RHEUMATOID ARTHRITIS PATIENTS



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Background and importance

Janus Kinase inhibitors (JAKi) are the most innovative drug class for Rheumatoid Arthritis (RA). To date, limited real-world data are available about treatment persistence and discontinuation reasons of tofacitinib and baricitinib.

Aim and objectives

To evaluate treatment persistence and discontinuation reasons of tofacitinib and baricitinib in a real-world setting of RA patients.

Materials and methods

A retrospective study (2017/01-2022/09), including all RA patients from a tertiary hospital under treatment with tofacitinib or baricitinib.

- Persistence was examined through Kaplan-Meier survival analysis and drug retention rates.
- Survival times were compared statistically using Log-rank test and Cox model.
- Discontinuation reasons were classified into ineffectiveness, adverse events (AE), and others.

Results

We included 152 cases from 117 RA patients (86% women, 63±13 years old) under treatment with tofacitinib (n=62; 40.8%) and baricitinib (n=90; 59.2%).

Treatment persistence and discontinuation reasons of tofacitinib and baricitinib are presented in Table 1.

Kaplan-Meier curves represent the estimated survival functions (Graph 1).

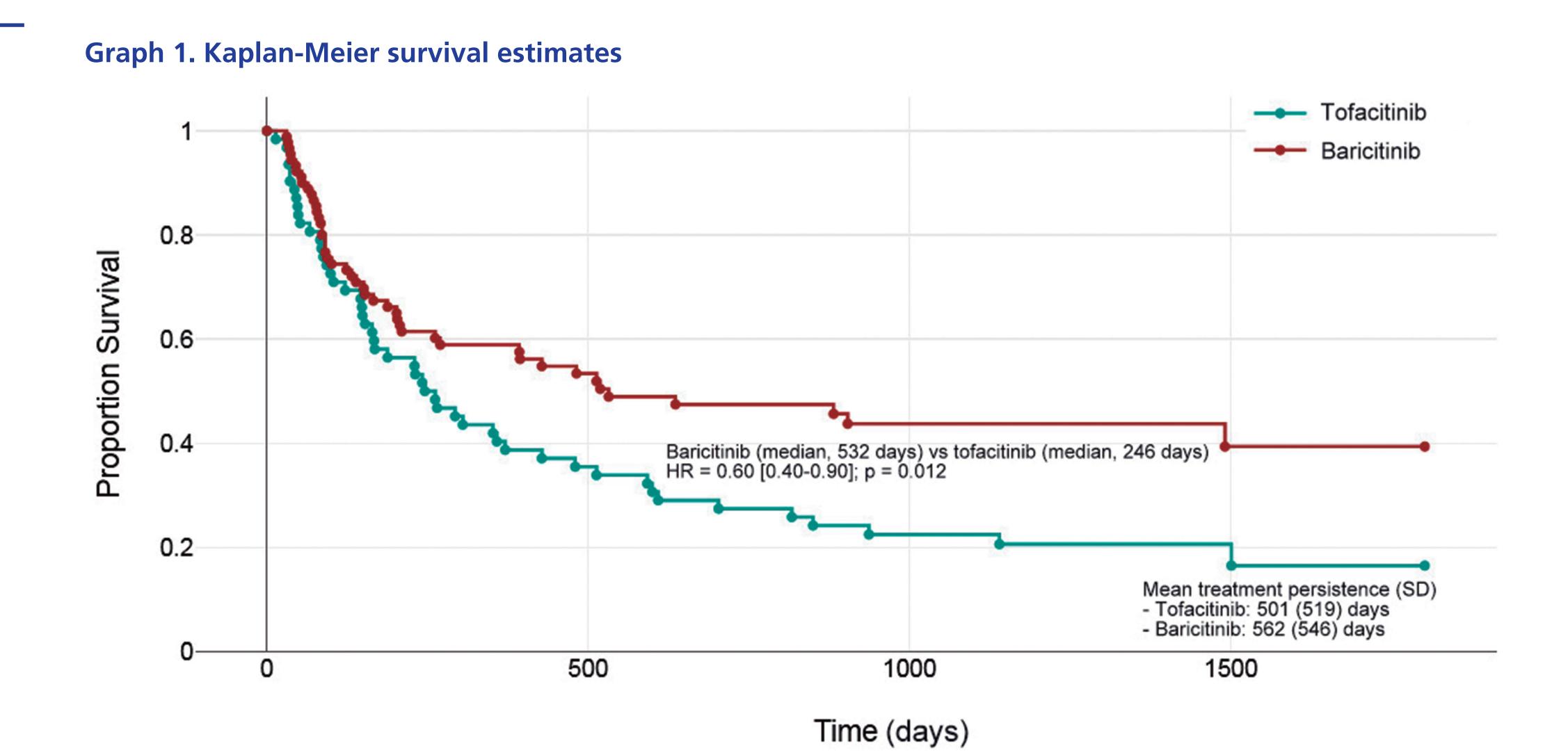


Table 1. Treatment persistence and discontinuation reasons of Janus Kinase inhibitors

	TOFACITINIB	BARICITINIB
Stop/Census (%)	50/62 (80.6)	47/90 (52.2)
	Kaplan-Meier survival estimates	
Median treatment persistence, days [95CI%] HR [95CI%]; p-value Mean treatment persistence, days (SD)	246 [153 - 428] *HR = 0.60 [0.40- 501 (519)	562 (546)
<i>p</i> -value	p = 0.494	
	Drug retention, number at risk	
91 days (3 rd month), % (n) 183 days (6 th month), % (n) 274 days (9 th month), % (n) 365 days (12 th month), % (n)	75.8 (47) 58.1 (36) 46.8 (29) 40.3 (25)	76.7 (69) 67.8 (61) 60.0 (54) 60.0 (54)
	Discontinuation reasons	
Ineffectiveness, % (n) Adverse events, % (n) Others, % (n)	46.0 (23) 52.0 (26) 2.0 (1)	48.8 (21) 48.8 (21) 2.4 (1)

NA: Not Applicable *Hazard Ratio (HR) for baricitinib versus tofacitinib

Conclusion and relevance

Our study concludes that tofacitinib showed lower median treatment persistence, lower drug retentions, and higher proportion of AE compared to baricitinib.

