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REAL-LIFE IMPACT OF INCLUDING MONTELUKAST AS PREMEDICATION ON THE INCIDENCE OF INFUSION-RELATED REACTIONS TO ISATUXIMAB AND **DESCRIPTION OF RISK FACTORS**



Jiménez León M.D. C^1 , Hernández Ramos J. A^1 Martín Rodríguez M^2 , Guerrero Hurtado, E^3 , Prieto Romero A^4 , Mayo Olveira F^1 , Martinez de la Torre F^1 , Canales Siguero M.D¹, Ferrari Piquero J.M¹

Servicios de Farmacia ¹Hospital Universitario 12 de Octubre (Madrid), ²Hospital Universitario Príncipe de Asturias (Alcalá de Henares), ³Hospital Universitari i Politècnic La Fe (Valencia), ⁴Hospital General Universitario Gregorio Marañón (Madrid).

Contact author: mjleon@salud.madrid.org



BACKGROUND AND IMPORTANCE

One of the most common adverse reactions related to the use of isatuximab are infusion reactions (IRRs). These IRRs can lead to the termination of isatuximab treatment. To minimize these IRRs, the technical file recommends the administration of dexamethasone, paracetamol and diphenhydramine as premedication.

The inclusion of Montelukast in the above premedication regimen could improve the tolerability of the infusion, analogously to what happened with daratumumab.



AIM AND OBJECTIVES

Primary objective: Evaluate the impact of including montalukast as premedication on the incidence of infusion reactions associated with isatuximab administration.

Secondary objectives:

- Description of the incidence of infusion reactions in daily clinical practice.
- Evaluation of the influence of possible risk factors: allergies, previous infusions with isatuximab and the concentration of the bag to be infused.

MATERIALS AND METHODS







Multicentric retrospective study conducted in one secondary and three tertiary hospitals.

Inclusion criteria

✓ Patients who had received isatuximab.

Follow-up was carried out until September 2023, treatment discontinuation or death.

Variables collected: Sex, age, treatment regimen, premedication regimen, number of isatuximab doses and occurrence of IRR.

Exclusion criteria:

Patiens who had received isatuximab in clinical trials.

7,69% IRRs

92,31% without IRRs

- X Pacients who had received isatuximab with corticosteroids as off-label premedication.
- > Odds ratios (OR) and Mann-Whitney U tests were calculated to evaluate qualitative and quantitative risk factors respectively.

Incidence of IRRs, patients

premedicated with

montelukast

32,5%

> Absolute risk reduction (ARR) and number needed to treat (NNT) were used to assess the impact of montelukast as premedication.

RESULTS 22,5% reactions

77,5% no reactions	Incidence of IRRs, patients premedicated without	29,63 % IRRs
	montelukast 32,5%	70,37 % without IRRs
40 patients were included. 60% was men. Median age 66 (54 – 72) years.		

- OR was 0.20 (95%CI 0.02 1.79).
- ARR was 0.22 (95%CI -0.01 0.44).
- NNT was 5.
- All IRRs were in the first infusion.
- No IRR were found for second or further doses in any patient, no risk factors were found.



CONCLUSION AND RELEVANCE

In our experience, iIRR observed for isatuximab was lower compared to pivotal clinical trials. The inclusion of montelukast as premedication could reduce IRR, which should be confirmed in subsequent studies.









