Monoclonal antibodies against CGRP pathway in patients with migraine. Experience in a Headache Clinic

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Introduction:

Calcitonin gene-related peptide (CGRP) plays an important role in the pathophysiology of migraine through nociceptive mechanisms in the trigeminovascular system. Several studies demonstrate the safety and effectiveness of monoclonal antibodies (mAbs) against CGRP or its receptor as preventive treatment for episodic migraine (EM) and chronic migraine (CM).

Objectives:

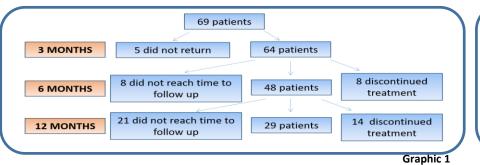
To evaluated the experience of treatment with mAbs against CRGP pathway in patients with EM and CM evaluated at a headache service in Argentina.

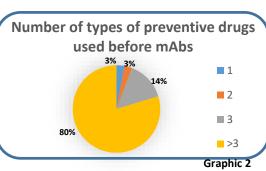
Materials and Methods:

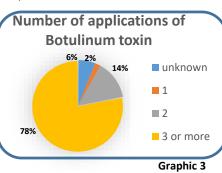
Retrospective, descriptive study. We reviewed electronic medical records of patients evaluated in our headache service with EM or CM who received Erenumab (70 or 140 mg) or Fremanezumab (225 mg) in monthly subcutaneous injections as preventive treatment of migraine between 07/2019 and 03/2022. The following information was obtained: age, sex, headache days/month (HDM), medication overuse headache, migraine preventive medication (in the previous month and at 3, 6, 12 months after starting treatment), type and dose of mAbs, adverse effects (AE) and response at 3, 6 and 12 months after starting treatment (reduction less than 30%, between 30 to 50%, greater thant 50% or no reduction in HDM).

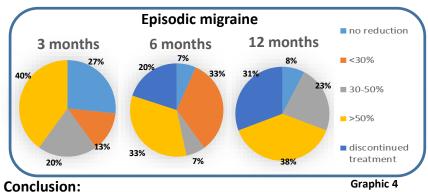
Results:

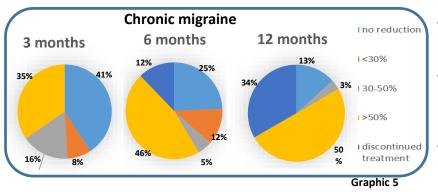
- 69 patientswere included (86% women, 14% men) with a mean age of 51 years
- 83% used Erenumab and 17% Fremanezumab











- 14 discontinued: 9 because no response, 4 because costs, while 1 because fertility treatment.
- 12 presented adverse effects, constipation was the most frequent. All received Erenumab and no one had to stop treatment.
- 32 patients (50%) had MOH before treatment: 17 completed 12-months follow-up, 16 of them without MOH.

In real world Erenumab and Fremanezumab are effective as preventive treatment for patients with EM and CM, even in those who failed with other treatments, including botulinum toxin.

A reduction in the overuse of analgesic medication was registered.

Good adherence and tolerance were observed, without discontinue treatment due to AE.

It is necessary to consider mAbs treatment in patients with EM or CM who have not responded to previous treatments.

References

1. The prevalence of migraine in Argentina: A reappraisais. Marrox Listicki, Maria E Figueroia, Lucas Bonnamico, Daniel Lew, Maria F Coicochea. Headache Group of the Argentinian Neurological Society. Cephalalgia 2021 Jun;41(7):821-826. 2. Efficacy and safety of calcitonin-generaled study. Peters. Goadsby, MD, PhD, Stephen D. Silberstein, MD, Paul D. Stephen D. Silberstein, MD, Paul D. Stephen D. Silberstein, MD, PhD, Stephen D. Silberstein, MD, PhD, Stephen D. Silberstein, MD, PhD, Anti-CGRP monoclonal antibodies in chronic migraine with medication overuse: realife effectiveness and predictors of response at 6months Edoardo Caronna, Victor José Gallardo, Alicia Alpuente, Marta Torres-Ferrus and Patricia Poza-Rosich. Caronna et al. The Journal of Headache and Pa (2021) 22:120 https://doi.org/10.1186/s10194-021-3128-1