

HER-MES CLINICAL TRIAL

HER-MES is the first randomized, double blind, head-to-head study of Aimovig® (erenumab) against topiramate in patients with episodic and chronic migraine¹

KEY CLINICAL TRIAL DETAILS

Patients:



777 patients suffering from ≥ 4 migraine days/month and who were naive to, not suitable for or had previously failed up to three prophylactic migraine treatments

Endpoints



Primary:

Superior tolerability of Aimovig (erenumab) compared to topiramate assessed by treatment discontinuation due to adverse events during the double-blind treatment period



Secondary:

Superiority of Aimovig (erenumab) compared to topiramate in terms of at least a 50% reduction in MMDs over the last 3 months (months 4, 5, and 6) of the double-blind treatment period

Dose:



Aimovig (erenumab):

70 mg or 140 mg



Topiramate:

Highest tolerated dose (50-100 mg/day), starting with a 6-week titration phase

Site:



The study was conducted in 82 centers in Germany

RESULTS

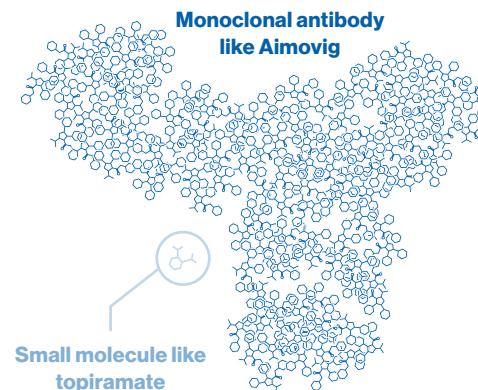


Aimovig (erenumab) had **superior tolerability and efficacy profile** than topiramate, with less treatment discontinuation over the course of the 24-week treatment phase.



A **higher number of patients** in the Aimovig (erenumab) treatment arm experienced **$\geq 50\%$ reduction in MMDs** compared to those in the topiramate arm.

HOW ARE AIMOVIG (ERENUMAB) AND TOPIRAMATE DIFFERENT?



Both Aimovig (erenumab) and topiramate are migraine prevention treatments but they work differently:

Aimovig (erenumab) is a monoclonal antibody and topiramate is a small molecule, with very different mechanism of actions. While small molecules work acutely, antibodies are heavy molecules that are able to bind to target proteins for a longer time and provide long lasting therapeutic action⁴.

Aimovig (erenumab) is engineered to specifically block CGRP receptors to prevent migraines, whereas topiramate is an anti convulsant, initially approved as an adjunctive treatment of seizure patients, also used for migraine prevention⁵.

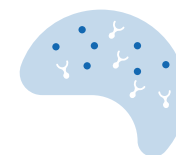


MIGRAINE AND ITS PATHOGENESIS

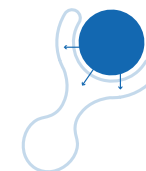
Migraine can be triggered by a variety of elements, including environmental factors (such as light, sound, certain food or stress).



Once triggered, the body releases neurotransmitters, one of them is called calcitonin gene-related peptides (CGRPs).



When released, CGRPs look for their docking stations (CGRP receptors), which are located in and around the brain.



Migraine pain and other accompanying symptoms are then set off once CGRPs connect to their docking station^{2,3}.

References

1. ClinicalTrials.gov. Head-to-head study of Erenumab against topiramate - Migraine study to assess tolerability and efficacy in a patient-centered setting (HER-MES). <https://clinicaltrials.gov/ct2/show/NCT03828539>
2. Bigal ME, Walter S, Rapoport AM. Calcitonin gene-related peptide (CGRP) and migraine current understanding and state of development. Headache. 2013 Sep;53(8):1230-44.
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