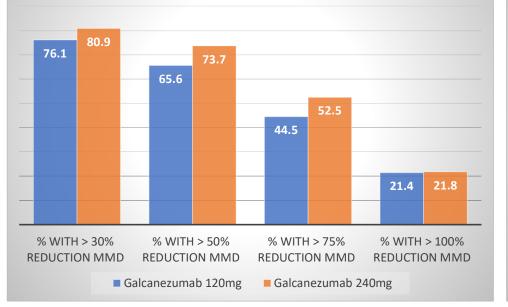
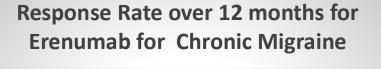
Anti -CGRP Monoclonal Antibody treatment response over 12 months (OLE data)









Camporeale et al: BMC Neurology & Cephalalgia (2017) 37: 319-374

Tepper et al: (2017) 37:

Anti-CGRP Monoclonal Antibodies for Migraine

So we know they work: What are the potential problems?

CGRP Monoclonal Antibodies Adverse Events & Trial Adherence in Migraine Populations

- In general No serious adverse events so far
- Treatment emergent events
 - Injection site pain Galcanezumab & Fremanezumab > Erenumab
 - URTI
 - Low back Pain
 - Injection site reactions "Hypersensitivity"
 - Post-Marketing Constipation ~ 10-20%
 - Hypertension Erenumab In the USA
 - Raynauds exacerbation Caution
- No major metabolic, immunological, CVS or haemodynamic
- Trial adherence 88-95% completion across all trials

Anti-CGRP Mabs & Raynauds syndrome: Be aware?





Original Investigation | Pharmacy and Clinical Pharmacology Evaluation of the Safety of Calcitonin Gene-Related Peptide Antagonists for Migraine Treatment Among Adults With Raynaud Phenomenon

ilana D. Breen, BS; Caitlin M. Brumfiel, MS; Meera H. Patel, BS; Richard J. Butterfield, MA; Juliana H. VanderPluym, MD; Leroy Griffing, MD; Mark R. Pittelkow, MD; Aaron R. Mangold, MD

JAMA Network Open. 2021;4(4):e217934. dol:10.1001/jamanetworkopen.2021.7934

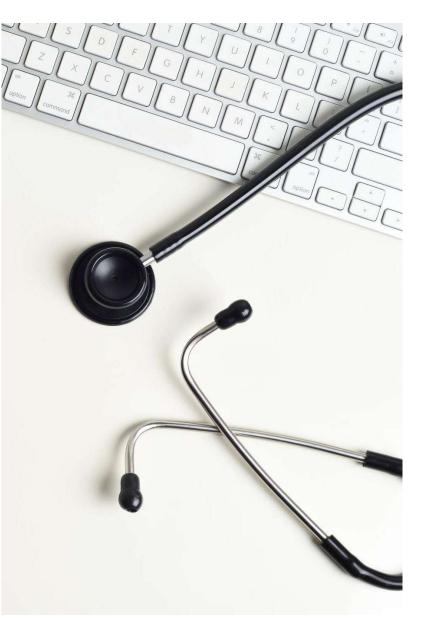
Calcitonin gene-related peptide-targeting drugs and Raynaud's phenomenon: a real-world potential safety signal from the WHO pharmacovigilance database

Alexandre O. Gérard^{1,2,3}, Diane Merino¹, Elise K. Van Obberghen⁴, Fanny Rocher¹, Alexandre Destere¹, Michel Lantéri-Minet^{4,5†} and Milou-Daniel Drici¹⁺

Gérard et al. The Journal of Headache and Pain (2022) 23:53 https://doi.org/10.1186/s10194-022-01424-w

- USA 30 month Retrospective cohort study (Mayo clinic)
- 169 patients with Raynaud's syndrome & CGRP therapy exposure
- Outcome = Microvascular complications after CGRP started
- 9 of 169 (5.3%) had microvascular complications
- 5 of 9 known Raynaud's; 4 of 9 no prior history
- 2 patients (1.2%) had severe injury, one with autonecrosis needing amputation

Ask About Raynaud's when considering MaBs therapy



TAKE HOME MESSAGES

- Migraine is common
- Address medication overuse
- Triptans/Preventives
- CGRP monoclonal antibodies/Botox in treatment refractory cases