

Headache Center Charité – Universitätsmedizin Berlin Department of Neurology When to switch? CGRP(-receptor) antibodies (and gepants)

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Conflicts of interest

AbbVie/Allergan	Personal fees for lecturing and/or consulting
Eli Lilly	Personal fees for lecturing and/or consulting
Lundbeck	Personal fees for lecturing and/or consulting Research support
Novartis Pharma	Personal fees for lecturing and/or consulting Research support
Organon	Personal fees for lecturing and/or consulting
Perfood	Personal fees for lecturing and/or consulting
Teva Pharmaceutical Industries	Personal fees for lecturing and/or consulting
Else Kröner-Fresenius-Stiftung	Research support
German Research Foundation (DFG)	Research support
German Migraine and Headache Society (DMKG)	Research support

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Different countries, different regulations

Switch between mAbs possible

German Guidelines: Consider switch *"in case of ineffectiveness, especially when this is a change in the drug class*", i.e. receptor – ligand or ligand – receptor.

Gepants not available on the market yet.

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https://european-union.europa.eu/easy-read_en

Diener HC, Förderreuther S, Kropp P et al., Therapie der Migräneattacke und Prophylaxe der Migräne, S1-Leitlinie, 2022, DGN und DMKG, in: Deutsche Gesellschaft für Neurologie (Hrsg.), Leitlinien für Diagnostik und Therapie in der Neurologie. Online: www.dgn.org/leitlinien (abgerufen am 16.09.2024)

Switch from receptor mAb (erenumab) to ligand mAb (fremanezumab/galcanezumab)





Overeem LH et al. Effect of antibody switch in non-responders to a CGRP receptor antibody treatment in migraine: A multicenter retrospective cohort study. Cephalalgia 2022 Apr;42(4-5):291-301. doi: 10.1177/03331024211048765. Epub 2021 Oct 13.

Switch from receptor mAb (erenumab) to ligand mAb (fremanezumab/galcanezumab)



• Represents a patient suffering from daily headache.



Switch from ligand mAb (fremanezumab/galcanezumab) to receptor mAb (erenumab)



CHARITÉ Heada

Overeem LH et al. Effect of switching to erenumab in non-responders to a CGRP ligand antibody treatment in migraine: A real-world cohort study. Front Neurol 2023 Mar 22:14:1154420. doi: 10.3389/fneur.2023.1154420. eCollection 2023.

FINESSE study: Switch from erenumab/galcanezumab to fremanezumab



Proportion of Patients with≥50% Reduction in MMD over 3 months versus baseline

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Straube A et al. Real-world effectiveness of fremanezumab in patients with migraine switching from another mAb targeting the CGRP pathway: a subgroup analysis of the Finesse Study. J Headache Pain 2023 May 23;24(1):59. doi: 10.1186/s10194-023-01593-2.

Switch from subcutaneous mAbs to intravenous mAb (eptinezumab)



Previous treatment failure with erenumab and at least one CGRP (ligand) mAb, i.e. galcanezumab and/or fremanezumab

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	Treated with preventatives, n (%)
Number of prior preventive treatments (mean, SD)	9.0 (2.2)
Erenumab	41 (100.0)
Galcanezumab	37 (90.2)
Fremanezumab	35 (85.3)
Topiramate	37 (90.2)
Valproate	12 (29.3)
Gabapentine	1 (2.4)
OnabotulinumtoxinA	38 (92.7)
Beta-Blocker	38 (92.7)
Candesartan	9 (22.0)
Lisinopril	1 (2.4)
Ramipril	1 (2.4)
Perindopril	1 (2.4)
Flunarizine	23 (56.1)
Amitriptyline	36 (87.8)
Mirtazapine	7 (17.1)
Trimipramine	4 (9.8)
Opipramol	5 (12.2)
Doxepine	2 (4.9)
Venlafaxine	13 (31.7)
Citalopram	4 (9.8)
Escitalopram	3 (7.3)
Duloxetine	7 (17.1)
Fluoxetine	6 (14.6)

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Triller et al. Efficacy of eptinezumab in non-responders to subcutaneous monoclonal antibodies against CGRP and the CGRP receptor: A retrospective cohort study. Cephalalgia 2024 Oct;44(10):3331024241288875. doi: 10.1177/03331024241288875.

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HOWEVER 1: Response rates are lower in switchers than in non-switchers.



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Hong et al. Therapeutic patterns and migraine disease burden in switchers of CGRP-targeted monoclonal antibodies – insights from the German NeuroTransData registry. J Headache Pain 2024 Jun 3;25(1):90. doi: 10.1186/s10194-024-01790-7.

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HOWEVER 1: Response rates are lower in switchers than in non-switchers.

Percentage of patients achieving≥50% reduction in monthly migraine days (MMD) at 3 and 6 months





Hong et al. Therapeutic patterns and migraine disease burden in switchers of CGRP-targeted monoclonal antibodies – insights from the German NeuroTransData registry. J Headache Pain 2024 Jun 3;25(1):90. doi: 10.1186/s10194-024-01790-7.

HOWEVER 2: Response rates decrease with every switch.

Percentage of patients achieving≥30% reduction in monthly headache days (MHD), monthly migraine days (MMD) and monthly days with acute medication use (AMD) at 3 months after switching to eptinezumab



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Scheffler et al. Effectiveness and tolerability of eptinezumab in treating patients with migraine resistant to conventional preventive medications and CGRP (receptor) antibodies: a multicentre retrospective real-world analysis from Germany. J Headache Pain 2024 May 16;25(1):79. doi: 10.1186/s10194-024-01788-1.

Take-Home Message

- Switching between CGRP(-receptor) mAbs can be a viable option for patients who do not respond to the initial treatment.
- Current data are mostly derived from real-world, uncontrolled studies, with switches typically occurring between receptor and ligand mAbs.
- Response rates for patients who switch tend to be lower compared to those with less prior treatment exposure.
- Always consider country-specific reimbursement and insurance policies when planning treatment changes.

Thank you!



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