Early Onset of Efficacy With Fremanezumab in Patients With Medication Overuse and Documented Inadequate Response to 2-4 Classes of Migraine Preventive Treatments: Subgroup Analysis of the Randomized, Double-blind FOCUS Study

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Conclusions

- Fremanezumab demonstrated early onset of action, with significantly greater response rates versus placebo within 1 week, in patients with medication overuse and documented inadequate response to 2 to 4 classes of migraine preventive medications
- Significantly greater reductions in weekly migraine days and headache days of at least moderate severity also occurred as early as Week 1 and were maintained through Week 3 with both fremanezumab dosing regimens versus placebo
- As patients were not counseled about medication overuse or advised to reduce acute medications in order to obtain early and meaningful efficacy with fremanezumab

Q Introduction

- Patients who overuse acute medications for migraine generally experience more migraine days, greater migraine severity, and more severe pain intensity¹
- Given the increased disease burden for patients with migraine and acute medication overuse, there is a need for effective preventive medications in this population
- Fremanezumab, a fully humanized monoclonal antibody (IgG2 Δ a) that selectively targets calcitonin gene-related peptide (CGRP),² has proven efficacy for preventive treatment of migraine in adults^{3,4}
- The FOCUS study (ClinicalTrials.gov Identifier: NCT03308968) of fremanezumab was the first and largest study of a migraine preventive treatment in a population of adults with difficult-to-treat migraine and documented inadequate response to 2 to 4 classes of migraine preventive medications⁵

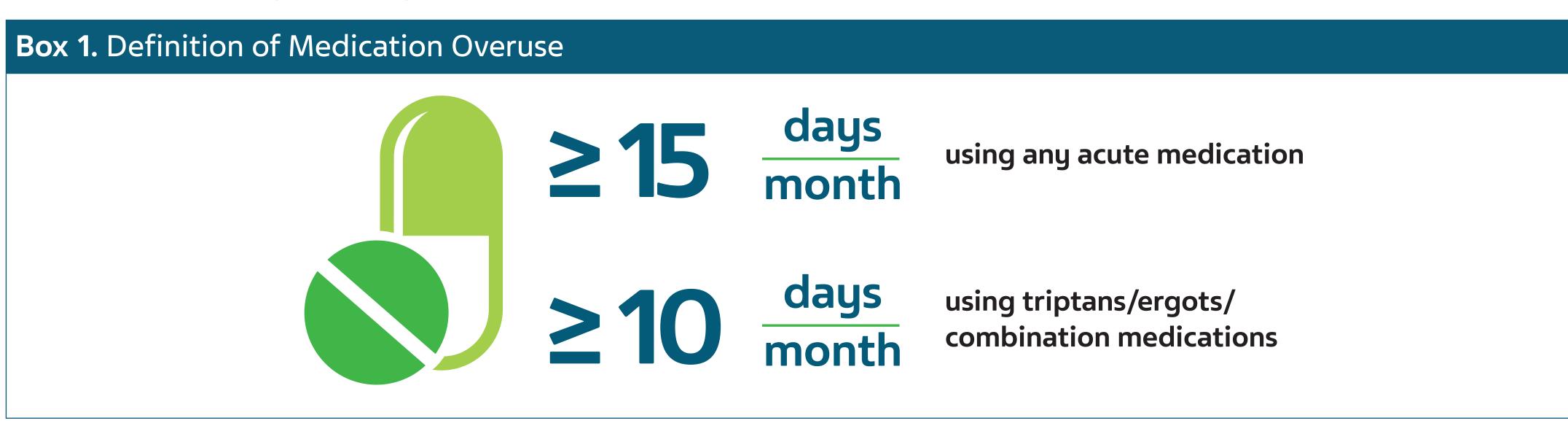
Objective

A subgroup analysis evaluated early efficacy in patients with medication overuse (use of any acute medication on ≥15 days/month) or triptans/ergots/combination medications on ≥10 days/month) at baseline

Methods

Patients

- This study included adult patients with episodic migraine (EM) or chronic migraine (CM) with documented inadequate response to 2 to 4 classes of prior migraine preventive medications
- This subgroup analysis included patients with medication overuse at baseline (Box 1)
- Patients in this subgroup analysis were not detoxified or educated/counseled about the risk of medication overuse



Study Design

- International, multicenter, randomized, double-blind, placebo-controlled, phase 3 study
- Included a screening visit; 28-day run-in period; 12-week, double-blind, placebo-controlled treatment period; and 12-week, open-label treatment period
- During the double-blind period, patients were randomized (1:1:1) to subcutaneous (SC) quarterly fremanezumab (Month 1: 675 mg; Months 2 and 3: placebo), SC monthly fremanezumab (Month 1: EM, 225 mg; CM, 675 mg; Months 2 and 3: 225 mg), or matched monthly placebo

Study Assessments

• In patients with medication overuse at baseline, changes from baseline in weekly migraine headache days and headache days of at least moderate severity and responder rates (≥50% reduction in weekly migraine days) were evaluated at Weeks 1 to 3

Results

 $^{a}P = 0.0018 \text{ versus placebo}$

^bP <0.0001 versus placebo.

 $^{c}P = 0.0004$ versus placebo.

Patients

- Efficacy analysis population (patients with medication overuse), n = 435 (placebo, n = 134; quarterly fremanezumab, n = 149)
- In this subgroup of patients with medication overuse, the monthly average number of migraine days was: placebo, 17.6 days; quarterly fremanezumab, 16.6 days; monthly fremanezumab, 16.3 days

Early Efficacy in Patients With Medication Overuse

- In patients with medication overuse at baseline, both fremanezumab regimens significantly reduced the weekly average number of migraine days versus placebo (Figure 1)
- In patients with medication overuse at baseline, both fremanezumab regimens significantly reduced the weekly average number of headache days of at least moderate severity versus placebo (Figure 2)
- Significantly higher proportions of these patients with medication overuse at baseline achieved a ≥50% reduction in the weekly average number of migraine days with fremanezumab versus placebo (Figure 3)

— These early responder rates were achieved by Week 1 and maintained through Week 3 and were significantly greater with fremanezumab versus placebo

Figure 1. In patients with medication overuse, change from baseline versus placebo in weekly migraine days during the first 3 weeks of fremanezumab treatment.

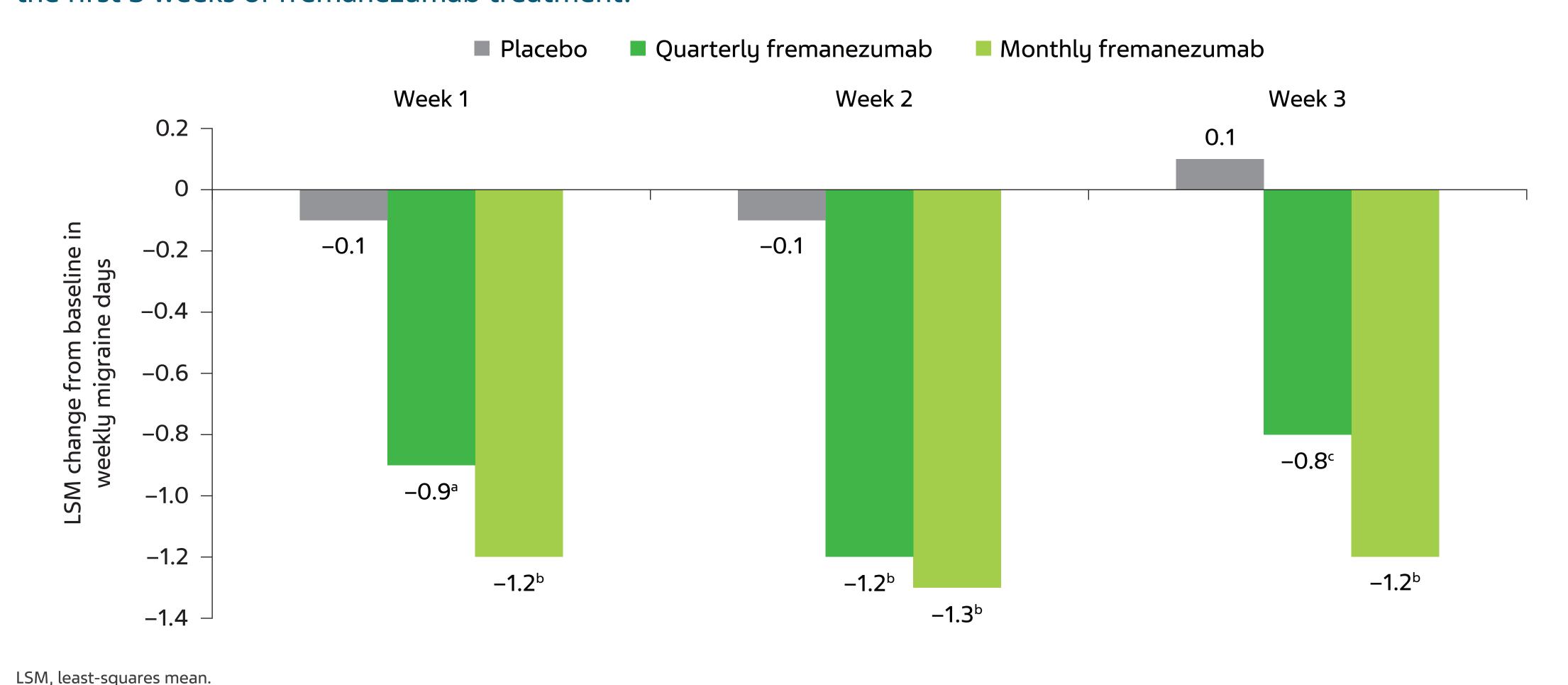
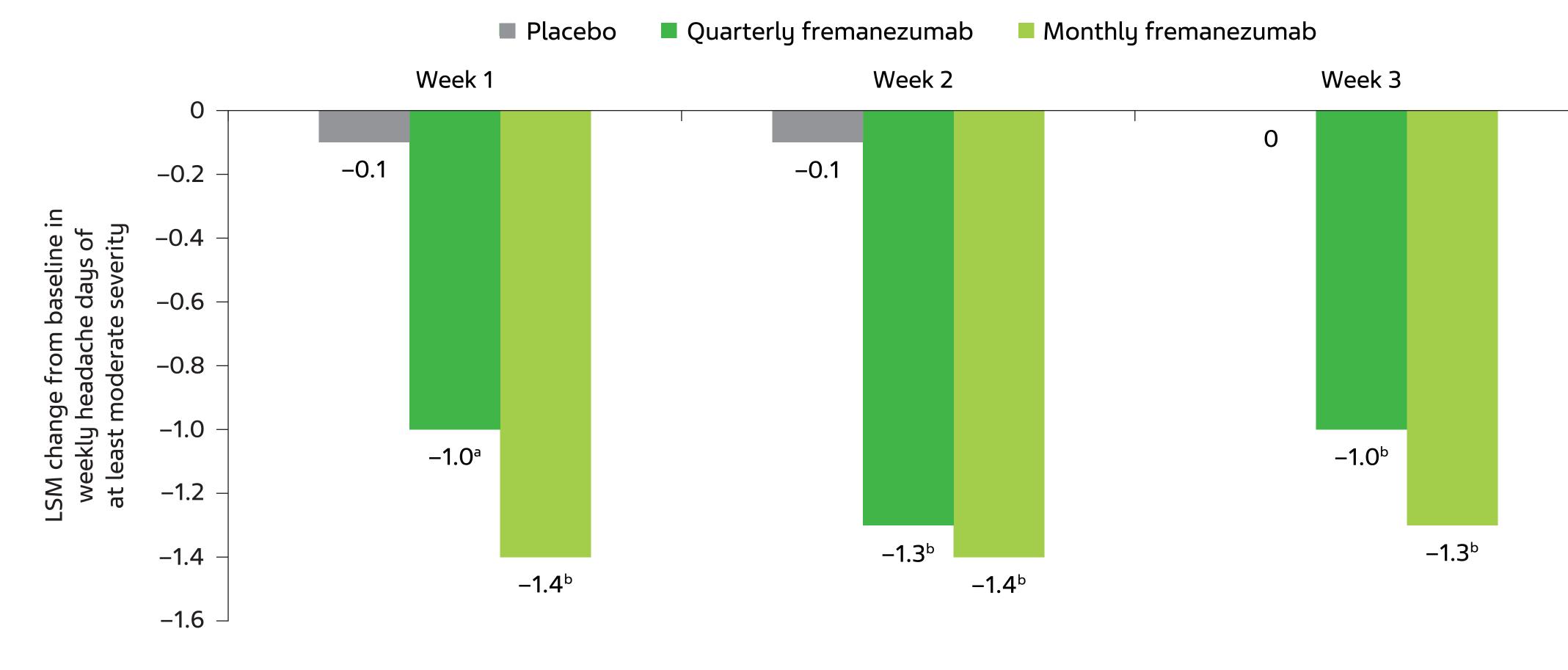
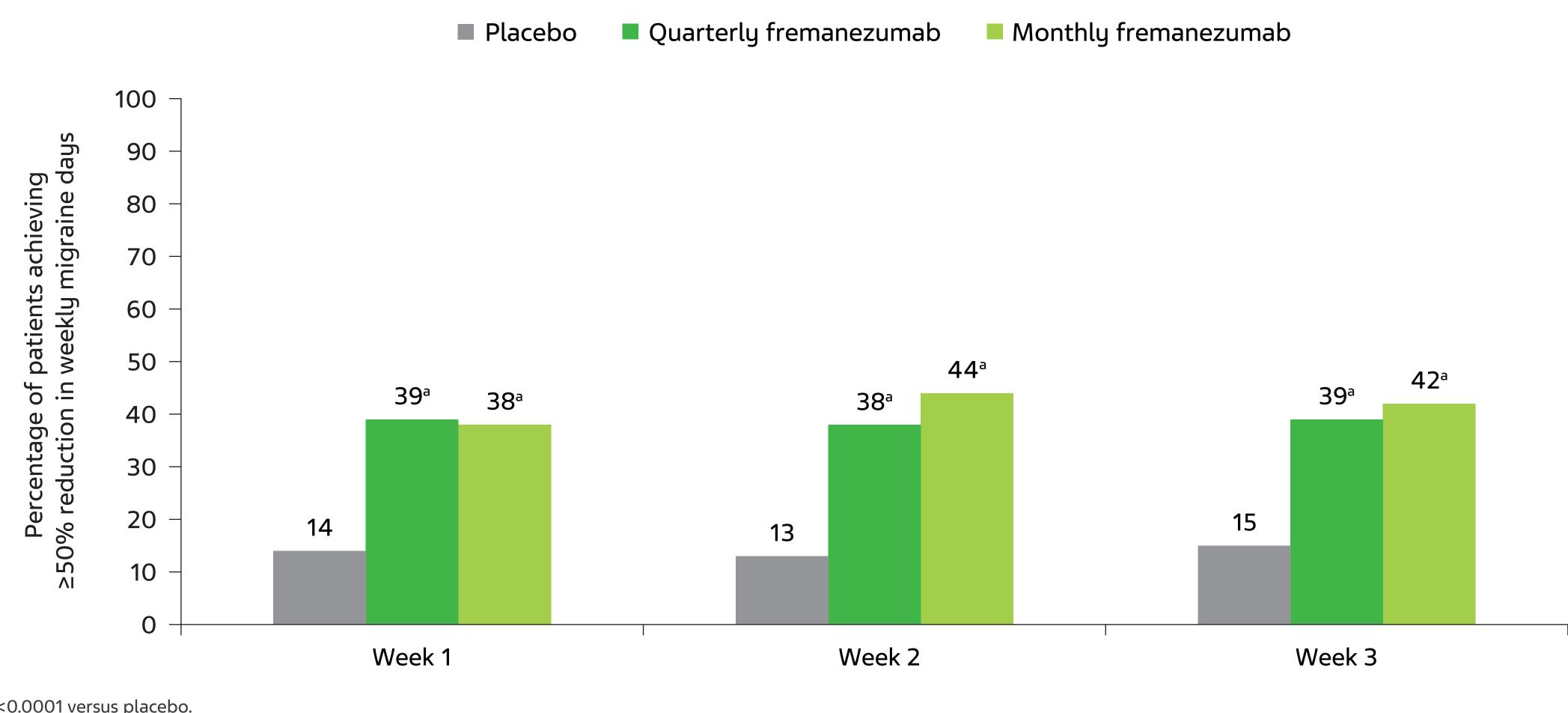


Figure 2. In patients with medication overuse, change from baseline versus placebo in weekly headache days of at least moderate severity during the first 3 weeks of fremanezumab treatment.



LSM, least-squares mean. $^{a}P = 0.0003$ versus placebo. $^{b}P \le 0.0001$ versus placebo.

Figure 3. Proportion of patients achieving \geq 50% reduction in weekly migraine days during the first 3 weeks of fremanezumab treatment.



^aP <0.0001 versus placebo

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