**Appendix Table D24. Drug utilization for acute migraine attacks in randomized controlled clinical trials that examined efficacy of topiramate for migraine prevention in adults**

| **Reference**  **Risk of Bias** | **Definition of the Outcome** | **Daily Dose** | **Subjects in Active**  **[Control] Groups** | **Mean [Standard Deviation] with Drug** | **Mean [Standard Deviation] with Placebo** | **Cohen Mean Difference**  **(95% CI)** | **Mean Difference**  **(95% CI)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mei, 200628 Risk of bias Low** | **Amount of acute medication taken monthly** | **100 mg/day** | **30 [20]** | **3.2 [1.0]** | **15.4 [4.4]** | **-4.2 (-5.2 to -3.2)** | **-12.2**  **(-14.2 to -10.3)** |
| Diener, 200734 Risk of bias Medium | Change in number of days per month of acute medications intake | 50 to 200mg/day | 32 [27] | -3.0 [5.9] | -0.7 [6.2] | -0.4 (-0.9 to 0.1) | -2.3 (-5.4 to 0.8) |
| Silberstein, 200941 Risk of bias Low | Mean change from baseline in the number of days per month that subjects used acute headache medications | 100 mg/day | 165 [163] | -4.4 [5.8] | -3.4 [5.3] | -0.2 (-0.4 to 0.0) | -1.0 (-2.2 to 0.2) |
| Diener, 200738 Risk of bias Medium | Mean change in intake of acute medication in the last 4 weeks of double-blind phase compared to open-label baseline | 100mg/day | 255 [259] |  |  |  | -1.0 (-1.5 to -0.4) |
| **Silberstein, 200423 Risk of bias Low** | **Mean monthly Acute rescue medications days during the double-blind phase** | **100 mg/day** | **128 [117]** | **4.0 [3.4]** | **5.2 [3.3]** | **-0.4 (-0.6 to -0.1)** | **-1.2 (-2.0 to -0.4)** |
| Mean monthly Acute rescue medications days during the double-blind phase | 50mg/day | 125 [117] | 4.5 [3.1] | 5.2 [3.3] | -0.2 (-0.5 to 0.0) | -0.7 (-1.5 to 0.1) |
| **Brandes, 200422 Risk of bias Low** | **Mean reduction in the monthly number of days when acute rescue medications were used** | **100 mg/day** | **122 [120]** | **-2.1 [3.20]** | **-1.0 [3.18]** | **-0.3 (-0.6 to -0.1)** | **-1.1 (-1.9 to -0.3)** |
| **Mean reduction in the monthly number of days when acute rescue medications were used** | **200mg/day** | **121 [120]** | **-2.2 [3.19]** | **-1.0 [3.18]** | **-0.4 (-0.6 to -0.1)** | **-1.2 (-2.0 to -0.4)** |
| **Lipton, 201142 Risk of bias Low** | **Number of days of acute medications use** | **100 mg/day** | **188 [197]** | **-4.8 [3.5]** | **-3.8 [3.7]** | **-0.3 (-0.5 to -0.1)** | **-1.0 (-1.7 to -0.3)** |
| **Bussone, 200525 Risk of bias Low** | **Percentage of migraine days with intake of medication to treat acute migraine attacks: from baseline to endpoint** | **100 mg/day** | **386 [372]** | **12.7 [0.6]** | **16.4 [0.6]** | **-6.7 (-7.1 to -6.4)** | **-3.7 (-3.8 to -3.6)** |

Bold = significant differences at 95% confidence limit when 95% CI of mean difference estimates do not include 0

CI = confidence interval