**Appendix Table D24. Randomized controlled clinical trials that examined comparative effectiveness of drugs for migraine prevention in children**

| **Reference**  **Total sample assigned to treatment Number analyzed  % females** | **Question the study expects to answer** | **Age**  **Definition of migraine**  **Presence of aura** | **Baseline migraine status**  **Comorbidity Concurrent medication Overuse of drugs for acute migraine** | **Duration of migraine Prior treatment Subject compliance and suitability** |
| --- | --- | --- | --- | --- |
| Ashrafi, 200511  Design RCT Sample 120 Number analyzed Not reported 33.9% females | To compare the effect of sodium valproate with that of propranolol in pediatric migraine prophylaxis | 3 to 15 years 1988 International Headache Society criteria for pediatric common migraine All patients had migraine without aura | Mean headache frequency/month: sodium valproate: 7.8 and propranolol: 7.9 Not reported Not reported Not reported | Not reported Not reported Not reported |
| Bidabadi, 201012  Design RCT Sample 63 Number analyzed 60 33% females | To compare the efficacy and tolerability of propranolol and sodium valproate in the prevention of migraine in the pediatric population | 5-15 years The diagnostic criteria for pediatric migraine without aura as defined by the International Headache Society. Not reported | Mean headache frequency per month: propranolol: 13.86 and sodium valproate: 13.23  Not reported Not reported Not reported | Not reported Not reported Monthly followup |
| Unalp, 200813  Design RCT Sample 48 Number analyzed 48 54.17% females | To compare the efficacy of topiramate and sodium valproate for the prevention of pediatric migraine | Not reported International Headache Society 2004 criteria for migraine headache Not reported | Duration of migraine episode, h: Sodium valproate: 10.2 (9.4), Topiramate: 7 (12); Headache frequency/month: Sodium valproate: 15.3 (10.1), Topiramate: 20.1 (10.2); Headache intensity, VAS: Sodium valproate: 6.8 (1) and Topiramate: 71 (1) Not reported Not reported Not reported | Not reported Not reported Not reported |