

# Preventive Therapy in Pediatric Migraine

DRUG	MAINTENANCE DOSAGE <sup>a</sup>	SIDE EFFECTS
<b>ANTIPILEPTIC</b>		
Divalproex sodium	10-45 mg/kg/day	Weight gain, hepatotoxicity, teratogenicity
Topiramate <sup>b</sup>	1-2 mg/kg/day; alternative dosing is 100 mg/day	Paresthesias, weight loss, kidney stones
Levetiracetam	20-40 mg/kg/day	Behavioral changes, irritability
Zonisamide	3-5 mg/kg/day	Behavioral changes, sedation
<b>BETA-BLOCKER</b>		
Propranolol	1 mg/kg/day	Fatigue, depression, exercise intolerance, asthma exacerbation
<b>CALCIUM CHANNEL BLOCKER</b>		
Flunarizine <sup>c</sup>	5 mg/day	Sedation, weight gain
<b>ANTIDEPRESSANTS (TRICYCLICS)</b>		
Amitriptyline	1 mg/kg/day divided twice daily	Sedation, weight gain, cardiac effects (Q-T prolongation)
Trazadone	1 mg/kg/day	Sedation, dry mouth, visual blurriness
<b>ANTIHISTAMINE</b>		
Cyproheptadine	0.2-0.4 mg/kg/day	Sedation, weight gain
<b>NUTRACEUTICAL</b>		
Magnesium oxide	9 mg/kg/day; alternative dosing is 400 mg/day	Gastrointestinal (diarrhea)
Coenzyme Q10	1-3 mg/kg/day; alternative dosing is 100 mg/day	Gastrointestinal, anorexia, rash

<sup>a</sup>Dosage data were obtained from available pediatric studies or extrapolated from adult studies. 9-11 Titrate up to maintenance dosing.

<sup>b</sup>Approved by the US Food and Drug Administration for episodic migraine preventive therapy in adolescents.

<sup>c</sup>Not available in the United States.

Adapted from: Khrizman M, Pakalnins A. Management of Pediatric Migraine: Current Therapies. *Pediatric Annals*. 2018 Feb 1;47(2): e55-c60.



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# Triptans for Acute Treatment of Pediatric Migraine

DRUG	ADMINISTRATION	USUAL DOSAGE <sup>a</sup>	HALF-LIFE (H)
<b>FAST-ACTING</b>			
Almotriptan	Oral <sup>b</sup>	6.25 mg; 12.5 mg	3-4
Eletriptan	Oral	20 mg; 40 mg	4
Rizatriptan	Oral <sup>b</sup>	5 mg (20-39 kg); 10 mg (>40 kg)	2-3
Zolmitriptan	Oral Nasal <sup>b</sup>	2.5 mg; 5mg 5 mg	3
Sumatriptan	Oral Nasal Subcutaneous	25 mg; 50 mg; 100 mg 5 mg; 20 mg 0.06 mg/kg; 4 mg; 6 mg	3
Sumatriptan and naproxen sodium concentration	Oral <sup>b</sup>	10/65 mg; 85/500 mg	3
<b>LONG-ACTING</b>			
Frovatriptan <sup>c</sup>	Oral	2.5 mg	26
Naratriptan <sup>c</sup>	Oral	2.5 mg	6

<sup>a</sup>Dosage data were obtained from available pediatric studies or extrapolated from adult studies.<sup>3,5,6</sup>

<sup>b</sup>Formulation approved in pediatric migraine: almotriptan, age 12-17 years; rizatriptan, age 6-17 years; zolmitriptan, age 12-17 years; sumatriptan and naproxen combination, age 12-17 years.

<sup>c</sup>No studies in children or adolescents have been reported.

Adapted from: Khrizman M, Pakalnis A. Management of Pediatric Migraine: Current Therapies. *Pediatric Annals*. 2018 Feb 1;47(2): e55-e60.

## Referrals and Consultations

Online: [NationwideChildrens.org](http://NationwideChildrens.org)

Phone: (614) 722-4625

Physician Direct Connect Line for 24-hour urgent physician consultations:

(614) 355-0221 or (877) 355-0221



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