UNM PED ACUTE HEADACHE PATHWAY		ED Acute Treatment
 DEFINED POPULATION Inclusion Children ages of 5-18 years (inclusive), with either new headache or worsening headache History suggestive of primary headache disorder Normal neurologic exam (specifically normal funduscopy and GCS, no focal findings) No medication contraindications No consideration of other systemic workup Exclusion Acute vision loss, altered mental status, "thunderclap headache", neck 	1 st line	 IV hydration: 20 ml/kg NS bolus Anti-emetics: Diphenhydramine- 0.5 mg/kg PO, max 50 mg/dose (IV only if PO intolerant) Prochlorperazine 0.15 mg/kg IV, max 10 mg (or may dose at 5, 7.5, or 10mg]) NSAID: Ketorolac 0.5 mg/kg IV, max 30 mg/dose (at an appropriate interval from last NSAID dose) NOTE: Refrain from administering Triptan as to allow for dihydroergotamine (DHE) therapy if hospitalized
 pain that radiates, pain worsening when flat, sleep disturbances Abnormal neurologic exam PRIOR TO INITIATING "ED ACUTE TREATMENT"	 Valproic acid 20 mg/kg IV, max 1000mg/dose Acceptable if headache has not significantly decreased in 45-60 	 Valproic acid 20 mg/kg IV, max 1000mg/dose Acceptable if headache has not significantly decreased in 45-60 minutes post administration of first line medications and up to 2 hours post administration to observe for clinical improvement
 Inquire about medications received prior to ED visit Ibuprofen (Advil, Motrin) 10 mg/kg/dose (max 600-800 mg dose) Naproxen (Aleve) 10 mg/kg/dose (max 550 mg/dose) Acetaminophen (Tylenol) 325 mg 		
 If patient has history of non-response to usual treatment pathway, consider giving the patient what he/she has best responded to Opiates are NOT RECOMMENDED for headache May consider if sickle cell, chronic pain from cancer, etc 		
 * If fever, rashes, or other signs of systemic illness, consider workup for systemic illness and headache as a symptom of said systemic illness. Consider head imaging (CT or MRI) for depressed LOC, abnormal funduscopy, abnormal eye movements, or otherwise focal neurologic exam. 		(or until resolution)

Discharge Instructions	Resources
 Preventative Treatment (Lifestyle modifications) 1. Fluid consumption 80-100 oz/day (1 oz/day/lb, up to 100 oz/day) Avoid caffeine Diet regular and healthy meals and snacks, including breakfast 5. Aerobic exercise ≥30 minutes 3-5 times per week 6. Stress reduction 7. Avoid known triggers 8. Sleep Hygiene Children should sleep enough that they can easily wake up and not be sleepy/take naps during the day Sleep on the same schedule every night Avoid >1 hour difference in sleep time between weekday and weekends The AAP suggests that all screens be turned off 30 minutes before bedtime and that TV, computers and other screens not be allowed in bedrooms. Establishing a bedtime routine is important to ensuring 	 American Academy of Pediatrics Supports Childhood Sleep Guidelines Recommended Amount of Sleep for Pediatric Populations: A Consensus Statement of the American Academy of Sleep Medicine. Paruthi S., Brooks L.J., et. al; <i>Journal of Clinical Sleep Medicine, Vol. 12, No. 6, 2016</i> WHEN TO PLACE AD HOC Physician has attempted to address headache and not succeeded (or a nonacute concern is present necessitating a neurologic evaluation) AND The patient has not been seen by our neurology group previously. <i>If already followed by neurology service, family should call for a follow-up</i>
children get adequate sleep each night.	
Acute Treatment (at Home)	
 Administer immediately upon initial onset of symptoms Limit medication to a maximum of three times per week, as to reduce the risk of medication overuse headache Ibuprofen (Advil, Motrin) 10 mg/kg/dose (max 600-800 mg dose) OR Naproxen (Aleve) 10 mg/kg/dose (max 550 mg/dose) OR 	
 Acetaminophen (Tylenol) 6 mo - <12 yo, 10-15 mg/kg/dose, PO q 4-6 hours (max 75 mg/kg/day up to 1 g/4h and 4 g/day), ≥ 12 yo, 325- 650 mg PO q4-6h prn; (max: 1 g/4h and 4 g/day) 	