# Pediatric Mighaine



# Diagnostic "Pearls"

- · For kids, drawing may be easier than talking about migraine
- This approach tends to produce very accurate diagnoses
- An MRI may be needed in children:
- o Younger than age 6
- o With occipital headaches
- o With headaches that wake up a child from sleep
- o With new onset headache or abnormal neurological examination

# A Common Problem

Headache affects:

## o 37% to 51% of 7-year-olds



#### o 57% to 82% of 15-year-olds



- Recurrent migraine affects:
  - o ~2.5% to 4.0% of children under age 8  $\,$
- o ~10% of 5- to 15-year-olds
- Boys are far more likely to have migraine than girls at a very young age
- By the preteen and teen years, prevalence in girls sharply surpasses boys
- Migraine prevalence increases to adult levels throughout the late-teen years



- Children and adolescents are not mini-adults
- Migraine symptoms and presentation differ from adults: o Attacks can last 1 or 2 hours, not 4
- o Pain often affects both sides of the head
- Treatments may not work the same way

# Goals of Treatment

- 1. Reduce headache frequency, severity, duration, and disability
- 2. Reduce reliance on poorly tolerated, ineffective, or unwanted acute medications
- 3. Improve quality of life
- 4. Avoid acute headache medication escalation
- 5. Educate and enable patients to self-manage their condition
- 6. Reduce headache-related distress and psychological symptoms



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- Migraine can prevent or limit school and other social activities significantly more than those who don't have migraine
- A tool called PedMIDAS\* which stands for PEDiatric Migraine DisAbility Score can be used to assess migraine disability in younger patients

## In the Last three months, how mang...

- 1. Full days of school were missed due to headaches?
- 2. Partial days of school were missed due to headaches?
- 3. Days did you function at less than half your ability in school because of a headache?
- 4. Days were you not able to do things at home (e.g., chores, homework, etc.)
- 5. Days you did not participate in other activities due to headache (e.g., play, go out, sports, etc.)
- 6. Days did you participate in these activities, but functioned at less than half your abilities?

## Add them up!

- The number of days are added to determine migraine-related disability o Below 10 means little to none
  - o 11-30 means mild
  - o 31-50 means moderate
  - o Above 50 means severe
- \*PEDiatric MIgraine DisAbility Score



## Balanced Treatment Plans

- To achieve treatment goals, balanced treatment plans are needed
- · Balanced plans include medical, biobehavioral, and nonpharmacologic treatments
- o Medical acute and preventive medications
- o Biobehavioral biofeedback, cognitive behavioral therapy, stress management, sleep hygiene, exercise, and dietary modifications
- o Nutraceuticals vitamin B2, coenzyme Q10 and vitamin D
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