DELAYED DIAGNOSIS IN PAEDIATRIC HEADACHE IN INDIA:

AN OUTPATIENT SURVEY

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AIM

To study the factors associated with delayed diagnosis of primary headache among children attending a public hospital in India

METHODS

Site: Paediatric outpatient department

Duration: 10-month period.

Clearance: Institutional Ethics Committee and Informed written consent from parents

Subjects: Consecutive children with a history of recurrent headache, Presenting to us for the first time

Single interviewer made diagnosis as per ICHD-3; Secondary headaches were excluded.

Disability: Using PedMIDAS score

Severity: 10-Point Visual Analogue Scale

Information collected: Headache duration, Headache type, previous treatment, Complementary and Alternative Medicine (CAM) use, parental education, family history of headache, and distance from hospital. All analyses were done by Epi Info software.

DELAYED HEADACHE DIAGNOSIS (proposed definition)

THE FIRST ICHD III-BASED DIAGNOSIS* MADE

EITHER 12 MONTHS OR

A PERIOD (in months) = 6 x INTER-ATTACK INTERVAL,

WHICHEVER IS LONGER, AFTER THE FIRST EPISODE OF HEADACHE

(*made by a healthcare provider)

RESULTS

43 children aged (22 boys)

Median age, 10.7 (range, 5-17) years

26, Migraine and 11, Tension type headache

Majority (32, 74.4%): waited for 1-3 years after onset of headache to seek medical attention.

Median time from first episode of headache to definitive diagnosis: 14 (IQR 12-24) mth.

Median Time to Correct Diagnosis

No association:

- Gender (female _{vs} male, 17.0 _{vs} 17.5)
- Religion (Hindu vs Muslim, 17.7 vs 16.8)
- Family history (yes vs no, 14.8 vs 18.3; P=0.68)

Headache type and Delayed diagnosis

Migraine vs non-migraine headache, P=0.07

Commonest reason for delay: "no significant morbidity" (all PedMIDAS<50) 100% taking CAM and/or Over-the-Counter (OTC) medications

5 (11.6%) from areas with poor access to healthcare

No correlation with Time to diagnosis and

- Patient age (*r*=0.31) lacksquare
- Distance from hospital (r=0.22),
- Headache severity (VAS) (r = -0.28)
- PedMIDAS score (r= -0.01). \bullet

CONCLUSION

Headache is under-diagnosed in paediatric patients in our setting, commonly due to reliance on Over the Counter (OTC) and Complementary and Alternative Medications (CAM)