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Headache in Pediatric and Adolescent Patients with Duchenne and Becker Muscular Dystrophies – An Observational Study

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Abstract

Background: Duchenne and Becker muscular dystrophies are inherited X-linked disorders that appear in childhood and can lead to significant disability. Recent studies have showed that chronic pain is a significant problem for the affected patients, but no study has evaluated the prevalence and features of headache among patients with those diseases.

Methods: Children and adolescent aged 2.5-18 years with an established diagnosis of muscular dystrophy who visited the multi-disciplinary neuromuscular pediatric clinic were enrolled. The patients and their parents received a questionnaire regarding the existence of headache and its features, and regarding emotional and social factors.

Results: The cohort included 68 patients, all males. Mean age was 9.0 ± 3.8 years. Forty-eight patients (70.6%) had Duchenne muscular dystrophy and the others had Becker muscular dystrophy. Overall, 22 (32.4%) patients reported headaches, among them, 10 (45.5%) had a diagnosis of migraine. Patients with headache were older than those without headache (p=<0.001), their blood creatine kinase level was significantly lower (p=0.0142), and they had a significantly higher proportion of other pain (p=0.0086). Their SDQ emotional scale score was significantly higher than those without headache (p=0.0004).

Conclusions: The prevalence of headache among patients with muscular dystrophy is high. It is related to the severity of the disease, to other location of pain and to emotional difficulties. Physicians who take care of those children and adolescent may consider to actively screen for headache and to offer appropriate, inclusive treatment.



Biography:

Yoel Levinsky is a leading expert in the field of Pediatric Headache and currently working in Shneider Children's Medical Center of Israel, one of the largest tertiary headache clinics in Israel.

Speaker Publications:

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