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Familial hypokalemic periodic paralysis: An uncommon cause of acute flaccid paralysis

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Introduction: Familial hypokalemic periodic paralysis is an autosomal dominant transmission channelopathy characterized by recurrent episodes of reversible muscle weakness and hypokalemia.

Case Study: We describe the case of a 16 year-old boy with recurrent episodes of decreased muscle strength whose mother had a history of similar episodes. He was admitted in the emergency department with flaccid tetraparesis and hypokalemia (1.4 mmol/L) which resolved after potassium administration. CACNA1S gene molecular study identified the mutation c.1583G>A-(p.Arg528His). Currently he is under an optimized nutrition plan, avoidance of triggers and acetazolamide and potassium chloride therapeutic.

Discussion: Although rare, familial hypokalemic periodic paralysis' timely recognition is crucial to initiate proper treatment and avoid associated complications. In this case, genetic testing confirmed the diagnosis and allowed the identification of asymptomatic relatives at risk of sudden acute paralysis and anesthetic complications.

Biography

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