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Iron status profile in children with hyperkinetic movement disorders: A comparison with normal children

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Movement disorders are a growing field of pediatric neurology. Unlike adults, it seems children are more likely to suffer from hyperkinetic movement disorders. Some studies have been done on serum iron in affected adults, but there are limited data in pediatrics. This survey case-control study was aimed to compare iron profiles in children with hyperkinetic movement disorders with healthy children. 50 children of 2-12 years of age are examined with hyperkinetic movement disorders fifty healthy children as age and sex-matched controls were enrolled too. In children with hyperkinetic movement disorders serum iron, TIBC, and serum ferritin were $51.8 \pm 2.77 \mu\text{g/dl}$, $450 \pm 9.42 \mu\text{g/dl}$ and $47.92 \pm 7.87 \text{ ng/ml}$; while in normal children these amounts were $81.4 \pm 3.94 \mu\text{g/dl}$, $356 \pm 12.34 \mu\text{g/dl}$ and $140.68 \pm 13.61 \text{ ng/ml}$ respectively. The differences in each parameter between two groups were statistically significant. ($P\text{-value} < 0.05$). There was a significant difference between patients with hyperkinetic movement disorders and healthy controls regarding iron profiles. Our findings suggest that decreased blood iron levels may have a predisposing effect on hyperkinetic movement disorders, although the knowledge about the mechanism is still limited. Since these disorders affect the quality of life, it seems further studies are needed to understand the mechanism and make some recommendations on prevention or control of the disease.

Biography

Mercede Enshaei has completed her Pediatric Specialty at the age of 32 years from Gilan University of Medical Sciences. She studied Genetic Counseling at Tehran University of Medical Sciences, and she will begin the Pediatric Hematology and Oncology Subspecialty from September 2018. Arya Mahdavi Baramchi has a Master Degree in Clinical Psychology. She is a member of Psychology and Counseling Organization of Iran.

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