

عنوان مقاله:

Platelet Parameters in Children with Iron Deficiency Anemia before and After Treatment

محل انتشار:

مجله بین المللی کودکان, دوره 9, شماره 3 (سال: 1400)

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خلاصه مقاله:

Background In iron deficiency anemia (IDA), several changes in platelets indices have been reported in a number of studies. The aim of this study was to evaluate the platelet parameters in children with iron deficiency anemia before and after treatment. Materials and Methods: This cross-sectional study was conducted over a period of ۱۸ months. A total of ۱۱۰ IDA subjects were selected from those who referred to the pediatric hematology clinic, Zahedan, Iran, during the study period. Age range was ۱۲ months to ۱۶ years were selected. Children in the study were given a ۳ month course of oral iron as ferrous sulfate with a daily dose of ۴mg/kg/day in ۲ divided doses. Platelet parameters including platelet count and mean platelet volume (MPV) were measured before and after treatment. The obtained data were analyzed using SPSS software version ۲۰.۰. Results: The mean age of the boys and girls was ۴.۳۰ ± ۴.۵۵ years and ۲.۴۶ ± ۳.۲۱ years, respectively. The results of the paired t- test showed that platelet means were ۴۰۹ ± ۱۲۰ $۱۰^۳$ /mm ۳ and ۳۸۴ ± ۹۹ $۱۰^۳$ /mm ۳ before and after treatment ($p < ۰.۰۰۱$), respectively. The means of MPV increased from ۸.۰۷ ± ۱.۰۱ fL before treatment to ۸.۸۶ ± ۱.۰۵ fL after treatment ($p < ۰.۰۰۱$), respectively. Conclusion The result of this study showed that .treatment of iron deficiency anemia leads to decreased platelet count and increased MPV

کلمات کلیدی:

Children, Iron Deficiency Anemia, Platelet parameters

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