

JOURNAL OF MEDICAL RESEARCH AND HEALTH EDUCATION

An assessment for diagnostic and therapeutic modalities for management of pediatric Iron defficiency Anemia in Saudi Arabia: a cross-sectional study

Hadi Jaber Al Sulayyim

Khobash General Hospital, Saudi Arabia

Abstract

Introduction: Iron deficiency anemia (IDA) is a global public health issue that alter more than 2 billion individuals worldwide. Nevertheless, evi- dence for optimal management of IDA is lacking.

Methods: To evaluate the diagnostic criteria and therapeutic modalities for pediatric IDA employed by physicians in a major public healthcare facility in Riyadh, a validated questionnaire containing demographic data and patient case-scenarios associated to diagnosis and treatment of IDA was employed. Robust regression analysis was utilized to identify factors associated with overall score of participants.

Results: Of the 166 physicians surveyed 147(88.6%) were encompassed in the study. Wide variability was observed in IDA diagnosis and therapy practices. For nutritional IDA, only 15.6% suggested no other laboratory tests in addition to CBC. The majority favoured treatment with ferrous sulfate (77.6%) separated into two doses (57.1%), but the total daily elemental iron doses varied widely from 2 to 6 mg/kg. For intravenous iron, 42.9% suggested iron dextran, 32.7% iron sucrose, and 13.4% would continue oral iron. Of all measured factors, median score was significantly highest in pediatric hematologists compared together with pediatricians, family medicine specialists and GPs; p = 0.007, and those work in ter- tiary care compared with those individuals in primary care; p = 0.043. However, in multivariate robust regression analysis, overall score was only significantly associated with professional qualification [pediatric hematologist $\beta = 13.71,95\%$ Cl 2.48-24.95, p = 0.017; pediatrician $\beta = 1.77,95\%$ C (-6.05-9.59, p = 0.66; family medicine $\beta = 2.66,95\%$ Cl-4.30-9.58, p = 0.45 equated with general practitioner].

Conclusion: Wide variations exist among physicians in diagnosis and treatment of pediatric IDA. Intervention programs and national guidelines are urgently needed.

Biography

Hadi has completed his Master Degree in the specialty of Epidemiology and Biostatistics at the age of 29 years at King Saud bin Abdulaziz Uni- versity for Health Sciences (KSAU-HS). He is the Assistant Hospital Director for Public Health and Director for Infection Prevention and Control at Khobash General Hospital, Najran, KSA. He is the reviewer in Central Board Accreditation for Healthcare Institution (CBAHI) in the regional supportive team.

Publication

An assessment for diagnostic and therapeutic modalities for management of pediatric Iron defficiency Anemia in Saudi Arabia: a crossectional study



29th International Conference on Nursing Care | Paris | France | February 21-22, 2020

Citation: Hadi Jaber Al Sulayyim, An assessment for diagnostic and therapeutic modalities for management of pediatric Iron defficiency Anemia in Saudi Arabia: a cross-sectional study, Nursing Care 2020, 29th International Conference on Nursing Care Paris, France February 21-22, 2020, 01