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Effectiveness of Diabetic ketoacidosis Management Protocol in Children on Nurses Performance in Mosul Hospitals

الخلاصة

Background: Diabetic ketoacidosis is an acute, major, life-threatening complication of diabetes characterized by hyperglycemia, ketoacidosis, and ketonuria. Diabetic ketoacidosis is most common among people with type 1 diabetes.

Aim of study: The study aims to evaluate the effectiveness of the diabetic ketoacidosis management protocol in children on nurses' performance in Mosul hospitals.

Methods and Materials: A pre-experimental design is conducted to determine the effectiveness of the diabetic ketoacidosis management protocol on nurses' performance in Mosul hospitals for the period from December 5, 2022, to July 13, 2023, by using constructed questioners from three parts that include: Part 1: describes the demographic characteristics of the nurse, Part 2: contains the knowledge of nurses related to diabetic ketoacidosis management protocols and Part 3 is an observational checklist to assess nurses' practice for DKA. A nonprobability (purposive) sample of 30 nurses works in the pediatric department of four hospitals, which are Mosul general hospital, Al Salaam teaching hospital, Ibn al-Atheer teaching hospital, and Al-Khansa teaching hospital. The data were analyzed using descriptive and inferential statistics.

Results: The study indicates that the age range of 25–29 years (53%) and being male (57%). Most participants held a bachelor's degree (67%). The study shows that both post-test 1 and post-test 2 showed a significant improvement in all nurses' knowledge and practices.

Conclusions and Recommendation: The study indicates that nurses have not received any training about DKA management protocol before, and the established education program has had a beneficial impact on enhancing nurses' knowledge and practice about the management of DKA in children. The study recommended to continuous assessment and evaluation of nurses' knowledge and practice is essential to identifying nurses' needs and factors affecting their performance in pediatric departments.