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**Assessment of Nurses' Knowledge and Practice Related
to Nursing Care of Children Undergoing
Hemodialysis in Gaza Strip**

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**Assessment of Nurses' Knowledge and Practice Related
to Nursing Care of Children Undergoing Hemodialysis
in Gaza Strip**

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Dedication

I dedicate this project to God Almighty my creator, my strong pillar, my source of inspiration, wisdom, knowledge and understanding.

To my amazing mother and father whom without, I would not be the person that I am today. Thank you for being amazing role models, for always encouraging my dreams, and for all of the sacrifices you made in order for me to live the life I have.

To my beloved wife Israa. I appreciate the sacrifices you have made in helping me realize my dream.

To my beautiful daughter Lana who is the joy of my life for their patience and support.

To my sisters and brothers Shireen, Hanan, Said, Ahmed, Nedal, Emad and Yasmine, thank you for being my cheerleaders and for showing patience and tolerance with my busy schedule.

To my homeland Palestine

To the Holy Land of Jerusalem

To. of them, I dedicate this work.

Mohammad K. Qassem

Declaration

I certify that this thesis submitted for the degree of Master is the result of my own research, except where otherwise acknowledged, and that this thesis (or any of its parts) has not been submitted for a higher degree to any other university or institution.

Signed:

Mohammad K. S. Qassem

Date: 7 /1 / 2020

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Abstract

Background: Hemodialysis (HD) is the most common method used to treat advanced and chronic kidney failure in pediatrics. The nurse in the HD department plays a vital role in providing information, care, support, understanding and therapeutic counseling to the pediatric patient and his family throughout the entire illness. The children undergoing HD procedure requires specially trained staff and special nursing care during phases of dialysis. **The study aimed to assess nurse's knowledge and practice regarding nursing care of children undergoing HD in Gaza Strip (GS).**

Methods: This quantitative, descriptive cross-sectional study was conducted at HD units affiliated to the governmental hospitals "Al Shifa' Complex - Al-Rantisy hospital - Al-Aqsa hospital - Nasser hospital". A self-administered questionnaire constructed by the researcher was used. The sample consisted of all available nurses working at HD units "a census sample". The total number of nurses was 90 with a response rate of 92%. A questionnaire was constructed, and the researcher collected data from the study participants.

Results: The result showed that the mean percentage of knowledge was (60.40%) which categorized according McDonald's standard as low level, and the mean percentage of practice was (75.15%) which considered a moderate level. There was a strong positive statistically significant correlation between nurse's knowledge and practice ($p < 0.001$). Moreover, there were statistically significant differences in the nurses' knowledge and practice with regard to marital status, present of manual procedure, different graduation college and there were significant differences in the nurses' knowledge between their different places of work ($P < 0.05$). On the other hand, there were no statistically significant differences in knowledge and practices with other factors: age, gender, education qualification, training courses and experience in HD ($P > 0.05$).

Conclusion and recommendations: This study revealed there were low nurses' knowledge and moderate practices toward nursing care of children on HD. The researcher is recommended: The orientation period to work in HD units should be crucial, nurses should be enrolled in a special training program before starting work in HD units, and a continues education specialized program is needed to frequent update the knowledge and practice.

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List of Abbreviations

ACR	Albumin/creatinine ratio
ADH	Antidiuretic hormone
AER	Albumin excretion rate
AKD	Acute kidney disease
AKF	American Kidney Fund
AKI	Acute kidney Injury
ANNA	American Nephrology Nurses' Association
AUH	Assiut University Children Hospital
ADPKD	Autosomal Dominant Polycystic Kidney Disease
AV	Arteriovenous Fistula
BUN	Blood Urea Nitrogen
CAKUT	Congenital Anomaly of Kidney and Urinary Tract
CDC	Centers for Disease Control and Prevention
CKD	Chronic kidney disease
CKD-MBD	CKD-mineral and bone disorder'
CRCC	Castle Rock Care Center
CRF	Chronic renal failure
CVD	Cardiovascular Disease
DKD	Diabetic Kidney Disease
ESRD	End-stage Renal Disease
GFR	Glomerular Filtration Rate
GS	Gaza Strip
HD	Hemodialysis
HTN	Hypertension
ID	Identification
KDIGO	Kidney Disease Improving Global Outcomes
KT	Kidney Transplantation
MoH	Ministry of Health
NANDA	North American Nursing Diagnosis Association
NGOs	Non-Governmental Organization
NKF	National Kidney Foundation
NKUDC	National Kidney & Urologic Diseases Information Clearinghouse