Kufa Journal for Nursing Sciences

Open Access Full Text Article

Original Research

Assessment of Nurses knowledge regarding Integrated Management of Childhood Illness at Primary Health Care Centers in Al- Amara City

Mohamed Abbar Sharhan¹

Iqbal Ghanim Ali Ma'ala²

* Southern Technical University, Technical Institute of Amara, Iraq.

** College of Nursing, University of Baghdad, Iraq.

Corresponding author:

Mohamed Abbar Sharhan; Southern Technical University, Technical Institute of Amara, Iraq. E-mail: mohamed.abar@stu.edu.iq.

الخلاصة خلفية البحث: يموت أكثر من 11 مليون طفل قبل بلوغ سن الخامسة في البلدان المنخفضة والمتوسطة الدخل، مع حدوث عدد كبير من هذه الوفيات خلال السنة الأولى من العمر. ونحو 70٪ من هذه الوفيات ناتجة عن الإسهال أو الالتهاب الرئوي أو الحصبة أو الملاريا أو سوء التغذية؛ الظروف التي غالبًا ما تحدث معًا (بروسبر و آخرون، 2009). الهدف: تهدف الدراسة إلى تقييم مستوى المعرفة التمريضية حول الإدارة المتكاملة لأمراض الطفولة في مراكز الرعاية الصحية الأولية في مدينة العمارة. المنهجية: تم تصميم الدراسة الوصفية في تصميم دراسة وصفية أجريت في 18 مركزا للرعاية الصحية الأولية داخل مدينة العمارة / العراق خلال الفترة من 20 / تشرين الأول / 2020 حتى 30 / أيار / 2021. وتتكون عينة الدراسة من (50) تمريضي. تم ملء بيانات الاستبيان من قبل الممرضين في مقابلة مباشرة وجهاً لوجه. تم إجراء معالجات إحصائية مختلفة باستخدام الإصدار 20 من الحزمة الإحصائية SPSS. النتائج: أظهرت النتائج أن 72.2٪ من الممرضين لديهم معرفة متوسطة فيما يتعلق بالإدارة المتكاملة لأمراض الطفولة ولا توجد علاقة ذات دلالة إحصائية مع المتغيرات الاجتماعية والديمو غر افية ومستوى المعرفة. الاستنتاجات: توصلت الدراسة إلى أن الممرضين في مراكز الرعاية الصحية الأولية في قطاع الصحة الأول في العمارة يتمتع بمستوى معتدل من المعرفة حول الإدارة المتكاملة لأمراض الطفولة ولا توجد علاقة ذات دلالة إحصائية بين خصائص التمريض و المعلومات العامة. التوصيات: يجب توفير مرافق تعليمية حديثة لفريق التمريض في وحدة التدبير المتكامل لصحة الطفل لتعزيز معرفة مقدمي الرعاية الصحية. الكلمات المفتاحية: ادارة امر اض الطفولة، تمريض، معارف.

ABSTRACT

Background: In low- and middle-income countries, over 11 million children die before reaching the age of five, with a large number of these deaths occurring during the first year of life, Diarrhea, Pneumonia, Malaria, Measles, and starvation are the leading causes of deaths in the United States, 70% of these deaths, often in combination (Prosper et. al., 2009).

Objective: The study aims to assess the nursing knowledge level about Integrated Management of Childhood Illness at Primary Health Care Centers in Al-Amara City.

Methodology: A descriptive study design was conducted in A descriptive study design was conducted in 18 primary health care centers inside of Amara City / Iraq during the period from 20 \ October \ 2020 until 30 \ May \ 2021. The study sample consists of (50) nurse's. The questionnaire data was filled by the nurse's in a face to face direct interview. Different statistical processing was conducted by the use of version 20 SPSS statistical package.

Results: The result showed 72.2 % of nurse's have moderate knowledge regarding Integrated Management of Childhood Illness and there is no statistically significant relationship with the sociodemographical variables and knowledge level.

Conclusion: The study found that nurses at primary health care centers in Amara's first health sector had a moderate level of knowledge about integrated management of childhood illness and there was no

INTRODUCTION

In low- and middle-income countries, over 11 million children die before reaching the age of five, with a large number of these deaths occurring during the first year of life. Approximately 70% of these deaths are caused by diarrhea, pneumonia, measles, malaria or malnutrition, often in combination ⁽¹⁾.

Integrated Management of Newborn and Childhood Illness (IMNCI) is a strategy developed in the mid-1990s by the World Health Organization (WHO), the Pan American Health Organization (PAHO) and the United Nations Children's Fund (UNICEF) to improve the health status of children worldwide, and includes interventions to reduce childhood mortality in health care centers and homes, It offers a comprehensive description of the management of common neonatal and childhood diseases ⁽²⁾.

The Newborn and Childhood Illness Integrated Management Program involves educating healthcare providers in the management of common childhood diseases with an emphasis on infections of the respiratory system, in particular pneumonia, malaria, measles, diarrhea, and malnutrition. In addition, funding for health programs associated with the prevention of specific diseases and the promotion of health was also included. The IMNCI training course initially lasted 11 days, but the course was shortened to seven or eight days in a variety of countries and locations ⁽³⁾.

The advantages of the IMNCI protocol in health facilities are that it facilitates the early detection of childhood diseases in outpatient

statistical significant association between nursing characteristic and their general information.

Recommendation: Modern educational facilities for nursing team at IMCI unit should be provided to enhance health care providers' knowledge. **Keyword:** IMCI, nursing, Knowledge.

environments, ensuring that sufficient medication is prescribed and delivered for all major diseases, improves caregiver therapy and speeds up referral procedures for severely ill children ⁽⁴⁾.

Integrated management of childhood illness' core values are the training of health staff, the provision of health essential services, the development of expertise such that children with mixed diseases can be treated, the provision of basic criteria such as urogenital referral, proper treatment and the provision of information on child careers. This worker should be accompanied by a visit to assist him in the workplace by an IMNCI supervisor after training. The level of management of sick children must be strengthened in order to introduce IMNCI ⁽⁵⁾.

AIMS OF THE STUDY

The study aims to assess the nursing knowledge level about Integrated Management of Childhood Illness at Primary Health Care Centers in Al-Amara City.

METHODOLOGY

- Design of the study

A descriptive study design was conducted in 18 primary health care centers inside of Amara City / Iraq during the period from 1 \ October \ 2019 until 30 \ May \ 2020.

- Method of data collection

A formal administrative approval to conduct this study was obtained from Misan Health

directorate and also obtained from each nurses through direct interviews.

- Sample of the study

During the study period, a total of (50) nurses served in IMCI units in primary health care centers and met the study requirements and agreed to participate.

- Study Instrument

The study instrument was prepared by the researchers after reviewing related literature and books that focus on the topic of the study. A structured-questionnaire was divides into two parts: The first part concerns the socio-demographic data of the nurses such as age, gender, level of education, years of employment in health field, years of employment in primary health care centers, type of primary health care center. The second part includes

questions about nurses' knowledge regarding integrated management of childhood illness was composed of (20) Items divided into (3) sub items as multiple choice questions ,one sub item of multiple choice questions correct and other incorrect foe each main items.

- Validity of the study

The content of the validity for the early instrument and program was determined through the panel of experts who has had more than 5 years of experience in their specialty field (IMCI). A preliminary copy of the questionnaire and program were designed and presented to (8) experts.

- Reliability of the study

A pilot study was carried out on (10) nursing who was excluded from the study samples.

RESULTS

Table (1): Reliability of the questionnaire Coefficients for Knowledge test

Method of Reliability	Reliability coefficients	Standard lower bound	Actual values	Assessment
Cronbach's Alpha	Knowledge	0.67	0.82	Acceptance

Table 1 showed statistical representation of the reliability coefficient for the current study's instrument. Its findings show a strong degree of support for the questionnaire's Alpha Cronbach's' significance, indicating that the instrument was constructed to test the phenomena on the same population at some point in the future.

Table (2): Distribution of demographic data for nursing at primary health care centers in Al-Amara city (n=50)

Socio-demographical characteristics	Total (n=50)		
Variables	F	%	
Ages			
≤ 29	5	10.0	
30 – 39	17	34.0	
40 – 49	17	34.0	
≥ 50	11	22.0	
Gender			
Male	30	60.0	
Female	20	40.0	
Level of Education			
Secondary School	26	52.0	
Diploma	22	44.0	
Bachelor	2	4.0	

Years of Experience in the Health Field			
2 – 4 years	5	10.0	
≥ 4 years	45	90.0	
Years of Experience in the Primary Health Care Center			
≤ 2 years	7	14.0	
2 – 4 years	6	12.0	
≥ 4 years	37	74.0	
Type of Primary Health Care Center			
Typical	15	30.0	
Atypical	35	70.0	

Table 2 showed that the most of age group were 34.0% of participants in the study within (30-39 years) and (40-49 years), According to the study's results, the majority of nurses (54.3%) were between the ages of 40 and 49. The most of gender 30 (60%) of nurses in the study were male while 20 (40.0%) of nurses were female. Concerning the level education, the more half of nurses 25 (52%) in the study have secondary school. In relation to the years of experience in the health field 45 (90.0%) nurses of the study sample have (≥ 4 years) Regarding years of experience in the primary health care centers, the majority of nurses (74.0%) have years of expert (≥ 4 years). Concerning type of primary health care center the most of participants were work in atypical health care center (70%).

Table (3): Total nursin	a knowledge regarding	g integrated management	of childhood illness (n = 50).
	g	g	

Levels of Knowledge	F	%
Deficit	14	28.0
Moderate	36	72.0
Good	0	0.0

Levels of Evaluation = Deficit (0 - 0.33): 1; Moderate (0.34 - 0.67): 2; Good (0.68 - 1.00): 3

Table 3 showed the knowledge of nurses about integrated management of childhood illness within moderate level for 36 (72.0%) nurses of the study sample.

Table (4): Correlation between t	he socio-demographical	variables of nursing	and total knowledge levels

Socio-demographical Characteristics	P-value	Sig.
Age	0.084	NS
Gender	0.881	NS
Educational levels	0.287	NS
Years of Experience in the Health field	0.793	NS
Years of Experience in the Primary Health Care Centers	0.397	NS
Type of Primary Health Care Center	0.307	NS

Correlation is significant at the ≤ 0.05 level, S (Sig=Significant); NS (Not Significant)

Table 4 demonstrates that there is no statistical difference between the nurses socio-demographical variables and knowledge levels about integrated management of childhood illness.

DISCUSSION

Part I: Distribution of demographic data for nursing at primary health care centers in Al-Amara city Table (2) showed that the most of age group were 34.0% of participants in the study within (30-39 years) and (40-49 years) respectively, this finding is consistent with Abd-Al-Wahed ⁽⁶⁾ According to the study's results, the majority of nurses (54.3 %) were between the ages of 40 and 49.

The most of gender 30 (60%) of nurses in the study were male while 20 (40.0%) of nurses were female. this finding agrees with Al-Hreshawi ⁽⁷⁾ who found that more than half of the nurses in his study sample were male (65.7 %). Concerning the level education, the more half of nurses 25 (52%) in the study have secondary school, this result disagree with Al-Hreshawi ⁽⁷⁾ who stated in his research sample that the majority of the study sample was technical institute (Technical Diploma) graduates (47.2 %).

In relation to the years of experience in the health field 45 (90.0%) nurses of the study sample have (≥ 4 years) This result agrees with Abd-Al-Wahed ⁽⁶⁾. in relation to his study most of the study sample in relation to years of experience were (61.4%), also Al-Hreshawi ⁽⁷⁾ mentioned that study sample were more than half of his study (52.9%) more than 4 years.

Regarding years of experience in the primary health care centers, the majority of nurses (74.0%) have years of expert (\geq 4 years). Concerning type of primary health care center the most of participants were work in atypical health care center (70%).

Part II: Total nursing knowledge regarding integrated management of childhood illness (n = 50).

REFERENCES:

- Prosper H., Macha, J., & Borghi, J. (2009). Implementation of integrated management of childhood illness in Tanzania: success and challenges. Consortium for Research on Equitable Health Systems.
- Shewade, H.; Aggarwal, A. & Bharti, B. (2013). Integrated Management of Neonatal and Childhood Illness (IMNCI): skill assessment of health and

Table (3) shows the knowledge of nurses about integrated management of childhood illness within moderate level for 36 (72.0%) nurses of the study sample. This result supported by Grace ⁽⁸⁾ stated in them study as 48 (44.04%) respondents had fair knowledge to IMCI while 35 (32.11%) respondents had poor knowledge to IMCI. also Kagoda ⁽⁹⁾ mentioned health worker are found to have poor knowledge to IMCI but will be bitter if they are trained.

Part III: Correlation between the sociodemographical variables of nursing and total knowledge levels.

Table (4) demonstrates that there is no statistical difference between the nurses sociodemographical variables and knowledge levels about integrated management of childhood illness.

CONCLUSION

The study found that nurses at primary health care centers in Amara's first health sector had a moderate level of knowledge about integrated management of childhood illness and there was no statistical significant association between nurses characteristic and their general information.

RECOMMENDATIONS

Modern educational facilities for nursing team at IMCI unit should be provided to enhance health care providers' knowledge.

Integrated Child Development Scheme (ICDS) workers to classify sick under-five children, *The Indian Journal of Pediatrics*. 80 (6), 448-454.

 Amaral, J. and Victora, C. (2008). The effect of Training in Integrated Management of Childhood Illness (IMNCI) on the Performance and Healthcare Quality of Pediatric Healthcare Workers: a Systematic Review. Rev. Bras. Saude Mater. Infant. 8(2), pp. 1-8.

- 4. UNECEF/WHO, (2011) Integrated Management of Newborn and Childhood Illness, Part 1 Blended Learning Module for the Health Extension Program, Federal Democratic Republic of Ethiopia Ministry of Health, IMNCI Part 2 Final Print – ready March 2011, Pdf. HEAT Health Education and Training HEAT in Africa. Available from: <u>https://www.scribd.com/document/402501993/IMNCI-Part-1-Final-Print-readyMarch-2011-pdf.</u>
- Abdullah, Mazin & Basim (2017). Evaluation of the performance, knowledge among IMNCI Trained Health Workers in Primary Health Care Centers in Baquba City. *Diyala Journal of Medicine*. 13.37-45.
- Abebe, A. M., Kassaw, M. W., & Mengistu, F. A. (2019). Assessment of Factors Affecting the Implementation of Integrated Management of Neonatal and Childhood Illness for Treatment of under Five Children by Health Professional in Health Care Facilities in Yifat Cluster in North Shewa Zone, Amhara Region, Ethiopia. *International Journal of Pediatrics*, 2019.
- 7. Abd Al-Wahid , Gh. A., (2014) Evaluation of Nurses' Knowledge and Practices Concerning Childhood

Vaccination at Primary Health Care Centers in Al-Amara City. Unpublished thesis, Department of Community Health Nursing College of Nursing, University of Baghdad.

- Al-Hraishawi, T. A., (2014) Evaluation of nurses' knowledge and practices concerning infection contact at primary health care centers in Al-Amara City. Unpublished thesis, Department of Community Health Nursing College of Nursing, University of Baghdad.
- 9. Grace. C, & Chidubem, E. (2016). Knowledge and Implementation of Integrated Management of Childhood Illness by Nurses at University of Port Harcourt Teaching Hospital, Rivers State. International Journal of Nursing Didactics, 6 (4), 05 <u>https://doi.org/10.15520/ijnd.2016.vol6.iss4.148.05-11</u>.
- 10.Kagoda, T. (2018). Knowledge and Practice towards Integrated Management of Neonatal and Childhood Illnesses among the Health Workers of Busolwe Hospital, Butaleja District (Doctoral dissertation, International Health Sciences University). Kapoor, P. (2011). Why quality in healthcare, *Medical journal, Armed Forces India.* 67(3), 206.