INTERNATIONAL JOURNAL OF HEALTH & MEDICAL RESEARCH

ISSN(print): 2833-213X, ISSN(online): 2833-2148

Volume 03 Issue 12 December 2024

DOI: 10.58806/ijhmr.2024.v3i12n16

Page No. 927-932

Assessment of Mothers' Knowledge About Nutritional Status of Preschool Children in Al-Najaf City

Huda Jwad Kadium

Department of Community Health Nursing, University of Kufa, Faculty of Nursing, Iraq

ABSTRACT: Background: Nutrition is central to the promotion of normal growth and development among children. It has been found that malnutrition is, in fact, one of the most important public health problems for preschool children. The nutritional status of this age group may be related to several demographic factors associated with the mother.

Objectives of the study: To assess mothers' knowledge level regarding preschool children nutritional status and to find out the relationship between mothers' knowledge and their socio demographic data.

Study Design: A descriptive (cross-sectional) study design is used through the present study in order to achieve the study objectives. October 15th, 2023 until January 1st, 2024.

Study Sample: A Non-Probability (Purposeful Sample) of 51 mother who have preschool child., were included in the present study. **Setting of the Study:** The study was conducted in Al-Najaf city.

Results: study results presented that the overall assessment of mother's knowledge regarding nutritional status knowledge was good.

Conclusion: Most of the mothers had previous knowledge about the topic from the media. Also, they got good level of knowledge regarding nutritional status for the preschool child and it's been found that there is a significant relationship between mothers' knowledge and their residency type.

Recommendation: Further studies should be conducted regarding mothers' knowledge, attitude and practice about all children age levels especially preschool children and improving and identifying the knowledge gabs.

Keywords: Nutritional Status, Preschool Children.

INTRODUCTION

"Children are the future of society and mothers are guardians of that future" (1). Malnutrition is the term that theoretically concerns both aspects, under-nutrition and over-nutrition (2). Childhood is termed as the golden age. Nutritional needs from an early age are very important, balanced nutritional intake will make the development of children healthy and intelligent (3). To avoid malnutrition and the problems of retarded growth, acute child nutrition, and so on.

Adverse nutrition in early childhood can impair children's physical and/or mental development and, hence, increase vulnerability to the risk of fatality from communicable diseases or other serious infections, which eventually results in a higher economic burden on a society (2). Nutrition has become a greater problem of health in Many countries (5). Among children, under five years of age, in the developing world, almost one-third are stunted, and the proportion of those who are underweight is higher among rural than urban children (6). Proper nutrition is extremely vital in children's growth and development as it supports the attainment of normal growth and development. Malnutrition is then ranked as one of the most important public health issues concerning preschool children. Meanwhile, the nutritional status of this age group is influenced by some demographic factors associated with the mother. While some studies have reported that maternal nutritional knowledge is positively associated with the nutritional status of children, others have also shown that adequate knowledge per se is not always translated into appropriate actions (8).

METHODOLOGY

Study design: Descriptive cross-sectional study was adopted in order to achieve the stated objectives. The study began from October 15th, 2023 until January 1st, 2024.

Study sample:

A Non-Probability (Purposeful Sample) of 51 mother who have preschool child.

2.5 The Study Instrument:

An online questionnaire is constructed by the researcher to assess mothers' knowledge regarding nutritional status for preschool age.

The complete instrument of study consists of 2 parts:

SOCIODEMOGRAPHIC DATA

This part consists of (8) items, which includes age, educational level, residency, occupation, economic status, husband occupation, do you have any information about nutrition status and from where you got the info.

Part 2: Nutrition knowledge:

It consists of 13 items multiple choice question (MCQ) form.

DATA COLLECTION

The data collection was done by applying the constructed the Arabic version of the questionnaire. The questionnaire was answered by the participants individually without the intervention of the researcher. The data collection process started from October, 22th, 2023 to November, 20th, 2024. The respondents spend about 5 minutes to answer all items.

VALIDITY OF THE RESEARCH

Content validity refers to the extent to which a measure covers all facets that define the construct of interest adequately. Content validity for the questionnaire developed earlier will be established by deploying a panel of experts to assess the conceptual relevance, clarity, and sufficiency of the questionnaire in measuring the intended concepts. A draft questionnaire is prepared and administered to eleven (11) experts. The recommendations of the experts have been taken into account. Modifications have been made so far, and the instrument's final copy is ready to use as a data collection tool. (9) has mentioned that the panel should normally consist of at least three experts, but if the build is complex, a larger number may be necessary.

Statistical Analysis:

The data was analyzed using Microsoft excel 2021 and IBM SPSS V.26

1. Descriptive Data Analysis

Tables (Frequencies, Percentages and Mean).

2. Inferential Data Analysis

This approach used to accept or reject the statistical hypothesis, which includes One-Way ANOVA test.

RESULTS

Table 3.1: Descriptive statistical analysis (frequencies and percentages) of studied sample.

Demographic Data		Freq.	%
	17-22 years	7	13.7
	23-28 years	25	49.0
Age	29-34 years	12	23.5
Age	35-40 years	3	5.9
	41-46 years	2	3.9
	47-52 years	2	3.9
	Can read and write	5	9.8
	Graduated from primary school	2	3.9
	Graduated from middle school	1	2.0
Educational Level	Graduated from high school	2	3.9
	Graduated from the institute	3	5.9
	Graduated with a bachelor's degree	37	72.5
	Master's or doctorate	1	2.0
Dagidan au	Urban	46	90.2
Residency	Rural	5	9.8
Occupation	Employee	33	64.7

	Housewife	18	35.3
	Owning a private home	16	31.4
	Owning a rental home	4	7.8
	Owning a shared home with the family	24	47.1
Social and economic situation	Owning a private transportation such as a car	4	7.8
	Owning some family assets	2	3.9
	Other	1	2.0
	School teacher, small business owner, military man, policeman	0	0
Husband Work	Physician, engineer, university professor, director of a large company, commercial land owner	5	9.8
	Unemployed, retired	38	74.5
	Other	8	15.7
Have you obtained any information	Yes	42	82.4
about the nutritional status of pre- school children previously?	No	9	17.6
	Physician	15	29.4
If the answer to the previous question	Nurses	4	7.8
	Family	12	23.5
is (yes), where did you get it?	Friends	1	2.0
	The media	19	37.3
Total		51	100

Table (3.1) Shows the majority of the study sample in age of between 23-28 years (49%), Graduated with a bachelor's degree (72.5%), live in urban residency (90.2%), Employee (67.7%), Owning a private home (31.4%), the husband is Unemployed or retired (74.5%), also (82.4%) have information about nutritional status and the majority of the study sample got it from the media (37.3%).

Nutritional status Knowledge		Freq.	%	Mean of score	Assess.		
Q1	A balanced diet consists of	Protein, carbohydrates, fats and minerals only	1	2.0			
		It contains all the nutrients, protein, vitamins, minerals, carbohydrates, fats, and water	50	98.0	1.98	Fair	
		Other	0	0			
	Is one of these fruits	Banana	3	5.9		Good	
Q^2	considered the main	Orange	7	13.7	2.75		
	source of iron?	Dates	41	80.4			
	One of these foods is considered a rich	Apples	1	2.0		Good	
Q3		Cucumber	1	2.0	- 2.94		
Q3	source of calcium	Milk and its products	49	96.1		Good	
	One of the following	Potassium	5	9.8		Good	
Q4	options is considered	Vitamin D	15	29.4	2.51		
Q4	very important for the thyroid gland	Iodine	31	60.8	2.31	G00 0	
	Meat and grains are	С	1	2.0			
Q5	the main source of	B6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.31	Fair		
	the vitamin	B1	17	33.3			
	Eating foods rich in	False	11	21.6			
Q6	cholesterol and	True	40	78.4	2.57	Good	
	saturated fat causes anemia, obesity,	Other	0	0	2.31		

	heart disease and respiratory disease						
	What do you believe	Vitamins	19	37.3			
Q 7	is the main source of	Minerals	8	15.7	2.10	Fair	
	energy in the body?	Lipids	24	47.1			
	The basic function of	False	4	7.8			
	protein (muscle	Ture	46	90.2			
Q8	formation, blood, energy, and reducing the chances of constipation)	Other	1	2.0	2.82	Good	
	William the second	Orange	14	27.5			
Q9		Dates	1	2.0	2.43	Good	
~	source of fiber?	Vegetables	36	70.6			
	What is the vitamin	Α	51	100			
010	energy in the body?LipidsThe basic function of protein (muscle formation, blood, energy, and reducing the chances of constipation)FalseWhat is the main source of fiber?OtherWhat is the vitamin whose deficiency leads to blindness?Orange Dates 	В	0	0	3.00	Cood	
Q10		D	0	0	- 3.00	Good	
	One of these foods	Fruits	2	3.9			
Q11	causes dental	Sweets	49	96.1	2.92	Good	
ŲΠ		Eggs	0	0	2.92	Good	
			6	11.8			
Q12	children What do	Vitamin A deficiency	1	2.0	2.75	Good	
			44	86.3			
	Dietary fiber has an	False	5	9.8			
		True	45	88.2			
Q13	body, as it works on the digestion process,	Other	1	2.0	2.78	Good	

Poor: MS = 1-1.66; Moderate: MS =1.67-2.33; Good: MS≥2.34

Table (3.2). Shows that most of the mothers got good knowledge level in the study items except for item number 1,5,7 they got fair level of knowledge.

Table 3.4: Relationship between demographic data and Nutritional status knowledge With One-Way ANOVA test.

Domographic Data			Nutritional status knowledge		d.f.	n voluo
Demographic Data		Fair	Good	F	u.1.	p-value
		Freq.	Freq.			
	17-22 years	0	7			
	23-28 years	1	24		9	0.421 (NS)
4.5.5	29-34 years	2	10	1.047		
Age	35-40 years	1	2		9	
	41-46 years	0	2			
	47-52 years	0	2			
Educational Level	Can read and write	0	5	0.913 9	9	0.523 (NS)
	Graduated from primary school	0	2			
	Graduated from middle school	0	1			
	Graduated from high school	0	2			
	Graduated from the institute	1	2			
	Graduated with a bachelor's degree	3	34			
	Master's or doctorate	0	1			

Residency	Urban	4	42	2.293	9	0.034
nestuency	Rural	0	5		<u> </u>	(S)
Occupation	Employee	4	29	1.622	9	0.141
occupation	Housewife	0	18		9	(NS)
	Owning a private home	0	16			
	Owning a rental home	0	4			
Social and economic	Owning a shared home with the family	4	20	1.460	9	0.195
situation	Owning a private transportation such as a car	0	4		9	(NS)
	Owning some family assets	0	2			
	Other	0	1			
Husband Work	School teacher, small business owner, military man, policeman	0	0			
	Physician, engineer, university professor, director of a large company, commercial land owner	0	5	0.847	9	0.579 (NS)
	Unemployed, retired	3	35			
	Other	1	7			
Have you obtained any	Yes	4	38			
information about the nutritional status of pre- school children previously?	No	0	9	0.864	9	0.564 (NS)
If the answer to the previous question is (yes), where did you get it?	Physician	2	13			
	Nurses	0	4	0.407 9		0.024
	Family	1	11		9	0.924
	Friends	0	1			(NS)
	The media	1	18			

P-Value <=0.05 (significant); p-value > 0.05 (non-significant)

Table (4.4) Show that there is significant relationship between mothers' knowledge level and residency (P=0.034), while there is non-significant relationship between the other demographic data.

DISCUSSION Part-I: Discussion of the study sample socio-demographic data:

Most of the study sample age is between 23-28 years old (49%), we believe that these ages were the ages most interested in the topic of our research, so the majority of participants were among them. This was close to Prasetyo *et al.*, 2023 results that got (36.22%) of their study sample aged between 25-35 years.

Part-II: Discussion of the mothers' knowledge about nutritional status for their preschool children:

The overall results regarding mothers' knowledge about nutritional status for their preschool children were good with (92.2%) of them got good knowledge level. While, (7.8%) got fair level of knowledge and none of them have poor level of knowledge. This is due to several reasons that led to this result and we will discuss it further in this chapter.

Part-III: Discussion of the relationship between mothers' knowledge about nutritional status for their preschool children and their socio demographic data:

In the previously mentioned results, place of residence appeared to be an important, statistically significant factor that has a direct relationship to mothers' level of knowledge with (P = 0.034). It has been shown that there is a positive relationship between it and mothers' knowledge, and this is due to the reason that the difference in place of living directly affects the mothers' level of knowledge. **Chapter Five**

CONCLUSIONS AND RECOMMENDATIONS

5.1. Conclusions:

The study found that most mothers knew about the topic and learned it through the media. Besides, most mothers understood the nutritional status of preschool children, and most did so fairly well. A relationship of significance was noted between knowledge and place of residency. It speaks for how much demographics influence levels of awareness.

5.2. Recommendations:

Based on the study conclusions, the study recommends the following:

- Further studies should be conducted regarding mothers' knowledge, attitude and practice about all children age levels especially preschool children.
- Ministry of Health should employ a mass media to increase mothers' knowledge about nutritional status for preschool children.
- Emphasizing a collaborated work between Ministry of Health, Ministry of higher Education to lead more researches-based practice topic about proper nutritional principles for the children.
- Additional teaching programs and educational courses needed to increase mothers' knowledge about nutritional status for preschool children in urban and rural society.

REFERENCES

- Sanal, g., jose, a., mathew, m. S., & koshy, n. M. (2021). Assessment of knowlegde of mothers regarding basic nutritional requirements of their child in urban and rural areas. International Journal of General Medicine and Pharmacy (IJGMP). ISSN (P): 2319–3999; ISSN (E): 2319–4006. Vol. 10, Issue 1.
- Das, S., & Gulshan, J. (2017). Different forms of malnutrition among under five children in Bangladesh: a cross-sectional study on prevalence and determinants. Bmc Nutrition, 3(1), 1-12. <u>https://doi.org/10.1186/s40795-016-0122-2</u>.
- 3) Fitri, J., & Sartika, R. (2021). The Relationship of Knowledge and Mother Motivation Level with Nutrition Status in Preschool Age Children 3-6 Years at Puskesmas Kemiri Tangerang District. Journal of Vocational Nursing, 2, 119-127.
- Yabancı, N., Kısaç, İ., & Karakuş, S. Ş. (2014). The effects of mother's nutritional knowledge on attitudes and behaviors of children about nutrition. Procedia-Social and Behavioral Sciences, 116, 4477-4481. https://doi.org/10.1016/j.sbspro.2014.01.970
- 5) Adai, M. G., & Hussein, Z. A. (2020). Relationship between mother's knowledge and nutritional status among preschool children. GSJ, 8(9).
- 6) Halder, S., & Kejriwal, S. (2016). Nutritional awareness of mothers in relation to nutritional status of the preschool children. Early Child Development and Care, 186(9), 1366-1377. https://doi.org/10.1080/03004430.2015.1094655
- 7) Ghalib, A. K. A. A., Sattar, K. A., & Noaman, A. A. (2015). Association between Childs Nutritional Status and Some Sociodemographic Factors Related to Mothers in Diyala Governorate. Diyala Journal of Medicine, 9(2), 50-57.
- 8) Saaka, M. (2014). Relationship between mothers' nutritional knowledge in childcare practices and the growth of children living in impoverished rural communities. Journal of health, population, and nutrition, 32(2), 237.
- Creswell, J. W. (2014). Research Design: Qualitative, Quantitative and Mixed Methods Approaches (4th ed.). London: Sage Publications Ltd.