



“A STUDY TO ASSESS THE KNOWLEDGE REGARDING FIRST AID MANAGEMENT OF SELECTED PEDIATRIC EMERGENCIES AMONG CARETAKERS IN SELECTED URBAN AREAS OF PUNE CITY.”

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ABSTRACT **Introduction:** First aid is a measure to save the life of the person. Accidents all over the world are one of the leading health problems. So it is essential to improve the knowledge and awareness among care takers of under 5 year's children in order to take appropriate first aid measures. **Material and Methods:** Researcher adopted Non-Experimental Descriptive design. Study carried out on 150 care takers of under five children. The Non-probability purposive sampling technique was used and data was collected using the structured questionnaire and was analyzed statistically. Data analysis was done mainly using descriptive statistics. **Result:** 84% were having good knowledge and 66% were having average knowledge. The total mean score is 18.59 and SD is 2.82. Study findings shows there is no association between levels of knowledge regarding the first aid management and demographic variables of selected pediatric emergencies as p-value is less than 0.05 level of significance. **Conclusion:** Study concludes that caretakers are having adequate knowledge of first aid management for pediatric emergencies.

KEYWORDS : Knowledge, First aid management, Pediatric emergencies & Caretakers.

INTRODUCTION

The injury was defined as an acute exposure to force such as (mechanical, thermal, electrical, chemical or radiant) in the amount that exceeds the threshold of the physiological tolerance.¹ Injuries have a significant impact on the disease burden worldwide. In India, injuries are the second most common cause of death after 5 years of age. Injury not only affects the physical health of the affected individual but also leads to psychological problems due to the resulting disabilities.²

In India it accounts for an estimated 12, 75,000 children are grievously injured. A total of 22,000 deaths were reported due to drowning. In Maharashtra at least 98/100,000 population of children's are dying annually due to accidental Injuries. In developing countries pediatric emergency are shown to be as numerous as in developed countries.³

Basic first aid knowledge helps the parents to deal with emergency situations. Every parent need to be mentally prepared for emergencies. Parents should be taught about different first aid measures, which help to emphasize the importance of child safety.⁶

NEED FOR THE STUDY

First aid is a measure to save the life of the person. India is the one of the largest developing countries in the world, it constituent around 20% of school going children. The future of our country rests on the children who will become the future citizens and leaders. Care for the children is not only vial in itself but the most important aspect of the health of the community as a whole. Because under five children spend much time at home than any place, they may be exposed to numerous hazards, which usually take place in kitchens, living rooms and bathrooms.⁷

This enhance the researcher's interest to do this particular study to assess the knowledge regarding first aid care of pediatric emergencies among care takers in selected urban areas of Pune City. The purpose of the research was also to improve the knowledge and awareness among care takers of under 5 year's children in order to take appropriate first aid measures.

OBJECTIVES OF THIS STUDY

- To evaluate the level of knowledge related to the first aid management of selected pediatric emergencies among the care takers of under 5 years children in urban areas of Pune city.
- To find the association between level of knowledge with selected demographic variables of caretakers from selected urban areas of Pune city.

MATERIAL AND METHOD:

In present study, researcher adopted Non-Experimental descriptive research design. The study carried out on 150 samples. A Non-

probability purposive Technique was used. Data analysis was done mainly using descriptive statistics test- Chi square was applied.

Description of Tool:

The tool includes two sections:

- Section I: - Demographic profile
- Section II: - Structured Questionnaire regarding the First aid management of selected Pediatric emergencies.

RESULT AND DISCUSSION

Analysis and interpretation of the data are based on data collected from 150 samples.

Section I :- Demographic profile

N=150

Sr. no	Demographic	frequency	%
1	Relation of caretaker with the child?		
	a) Mother	89	59.33
	b) Father	45	30
	c) Grandmother	10	7
	d) Grandfather	6	3.67
2	Age of the Caretaker		
	a) Below the age of 24 years.	17	11.33
	b) 25 years to 29 years	77	51
	c) 30 years to 34 years	36	24.03
	d) 35 years to 39 years	5	3.37
	e) 40 years and above	15	10.27
3	Gender of Caretaker		
	a) Female	95	63.33
	b) Male	55	36.67
4	Number of under 5 children at Home.....		
	a) one	114	76
	b) Two	35	23.34
	c) Three & more	1	0.66
5	Education of the Caretaker		
	a) Illiterate	1	0.66
	b) Primary	3	2.35
	c) Secondary	6	3.67
	d) Higher Secondary	39	26
	e) Diploma	50	33.33
	f) Graduate	47	31.33
	e) Postgraduate and above	4	2.66
6	Occupation of the Caretaker		
	a) Home maker	33	22
	b) Self employed	38	25.33
	c) Service	61	40.66

	d) Business	18	12.01
7	Monthly Income of the Family?		
	a) Below 25,000 ₹	48	32
	b) 25001₹ to 50,000₹	85	56.66
	c) 50, 0001 ₹ to 75,000₹	10	6.66
	d) 75, 0001 ₹ to 10, 0000₹	4	2.68
	e) 100001 ₹ and above.	3	2
8	Do you send your child to day care center?		
	a) Yes	62	41.33
	b)No	88	58.67
9	Did your child meet with any injury or accident or medical emergency in past one year?		
	a)No	105	70
	b)Yes	45	30
	If yes, have you given any first aid care to the child at home?		
	a) No	4	2.66
	b) If Yes (Specify)	41	27.34
10	Do you have any information regarding "First aid Management"?		
	a) No	4	2.66
	b) Yes	146	97.34
	If yes, source of information?		
	a) Family Member	64	42.68
	b) Electronic Media	48	32

	c) Newspaper	37	24.66
	d) Other (specify)	1	0.66

Table no.1 depicts demographic distribution of the care takers under 5 years children shows majority 59.33% caretakers are mothers, age of care takers is 25 to 29 years for 51% care takers, majority 63.33% care takers are female, 76% care takers are having one child, Majority 33% caretaker are educated Diploma, Majority 40% caretaker occupation is service, socioeconomic status shows majority 56.66% are Monthly Income of the Family 25001₹ to 50,000₹, majority 58.67% are not sending child to day care center, Majority 70% care taker child meet with any injury or accident or medical emergency in past one year, 97.34% caretakers are having information regarding "First aid Management and major 42.68% source of information is Family Member.

Section II :- Findings related to the knowledge regarding the first aid management of selected pediatric emergencies . N=150

Knowledge	Frequency	Percentage	Mean	SD
Poor Knowledge	0	0	18.59	2.82
Average knowledge	66	44		
Good knowledge	84	56		

Shows the analysis of structured questionnaire tool on Knowledge regarding first-aid related to pediatric emergencies among caretakers, which reflects that majority 56% caretakers are having Good knowledge and 44% are having Average knowledge

Section III :- Findings related to the association between levels of knowledge with selected demographic variables of caretakers. N=150

Sr. no	Demographic	Poor	average	Good	Chi Squire value	P Value	Remark
1	Relation of caretaker with the child?						
	a) Mother	0	35	54	2.35	0.88	No Association
	b) Father	0	22	23			
	c) Grandmother	0	6	4			
	d) Grandfather	0	3	3			
2	Age of the Caretaker						
	a) Below the age of 24 years.	0	7	10	2.54	0.96	No Association
	b) 25 years to 29 years	0	30	47			
	c) 30 years to 34 years	0	19	17			
	d) 35 years to 39 years	0	2	3			
	e) 40 years and above	0	8	7			
3	Gender of Caretaker						
	a) Female	0	38	57	1.68	0.43	No Association
	b) Male	0	28	27			
4	Number of under 5 children at Home						
	a) one	0	54	60	3.48	0.48	No Association
	b) Two	0	11	24			
	c) Three & more	0	1	0			
5	Education of the Caretaker						
	a) Illiterate	0	1	0	3.41	0.99	No Association
	b) Primary	0	1	2			
	c) Secondary	0	4	2			
	d) Higher Secondary	0	19	20			
	e)Diploma	0	20	30			
	f) Graduate	0	20	27			
	e) Postgraduate and above	0	1	3			
6	Occupation of the Caretaker						
	a) Home maker	0	17	16	1.61	0.95	No Association
	b) Self employed	0	16	22			
	c) Service	0	24	37			
	d) Business	0	9	9			
7	Monthly Income of the Family?						
	a) Below 25,000 ₹	0	24	24	3.82	0.87	No Association
	b) 25001₹ to 50,000₹	0	32	53			
	c) 50, 0001 ₹ to 75,000₹	0	6	4			
	d) 75, 0001 ₹ to 10, 0000₹	0	2	2			
	e) 100001 ₹ and above.	0	2	1			
8	Do you send your child to day care center?						
	a) Yes	0	23	39	2.04	0.36	No Association
	b)No	0	43	45			

9	Did your child meet with any injury or accident or medical emergency in past one year?						
	a)No	0	47	58	0.08	0.96	No Association
	b)Yes	0	19	26			
	If yes, have you given any first aid care to the child at home?						
	a) No	0	19	26			
	b) If Yes (Specify)	0	0	0			
10	Do you have any information regarding "First aid Management"?						
	a) No	0	3	1	1.60	0.45	No Association
	b) Yes	0	63	83			
	If yes, source of information?						
	a) Family Member	0	27	37			
	b) Electronic Media	0	23	25			
	c) Newspaper	0	17	21			
	d) Other (specify)	0	0	0			

The above table depicts that demographic variables are not significantly associated with level of knowledge of first-aid among caretakers as p-value is less than 0.05 level of significance. All demographic variable are not associated with knowledge score among caretakers.

Section IV

Frequency and Percentage distribution of participants regarding knowledge related first aid management of **CHOKING**

N=150

Qs no.	ITEMS	Right Answer	
		Frequency	Percentage
2.	What is the common substances that cause choking in the children?	130	86.6
3.	What is the signs of choking in children?	125	83.3
4.	What will you do if the child has mild airway obstruction?	105	70
5.	What will you do if something blocks a child's airway , the child is coughing forcefully and is not able to speak?	45	30
6.	Why should toys with small removable part NOT to be given to the children?	63	42

Frequency and Percentage distribution of participants regarding knowledge related first aid management of **FOREIGN BODY IN EYE**

N=150

Qs no.	ITEMS	Right Answer	
		Frequency	Percentage
8.	Which sign and symptoms you can see, when some dust particle enters in the eyes?	115	76.6
9.	What you do at home if something falls in your child's eyes?	128	85.3
10.	Why we should NOT forcefully remove the deeply embedded foreign bodies in the eye?	71	47.3
11.	Which point you should remember to avoid severe vision loss due to foreign bodies in the eye?	95	63.3

Frequency and Percentage distribution of participants regarding knowledge related first aid management of **FOREIGN BODY IN EAR**

N=150

Qs no.	ITEMS	Right Answer	
		Frequency	Percentage
12.	What is the object that can commonly cause obstruction in child's ear?	116	77.3
13.	What will you do at home if a peanut or small object enters the child's ear?	56	37.3
14.	If any foreign object remains long time in the ear so it will cause?	108	72
15.	What will you do at home if any insect or bug enters into child's ear?	94	62.6

16.	If the child has something in the ear and its not coming out as far how many maximum hours avoid the eating and drinking of the child ?	129	86
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Frequency and Percentage distribution of participants regarding knowledge related first aid management of **FOREIGN BODY IN NOSE**

N=150

Qs no.	ITEMS	Right Answer	
		Frequency	Percentage
17.	Which age group of the children is more prone to aspirate the foreign body in the nose?	78	52
18.	What is the symptom of foreign body in nose?	119	79.3
19.	If some food grain enters in the nose of the child, so what will you do at home?	103	68.6
20.	If nasal bleeding happens due to any obstruction of nose by foreign body so what you will do at home?	86	57.3
21.	What are the techniques useful to remove the foreign bodies free from the nose?	138	92

Frequency and Percentage distribution of participants regarding knowledge related first aid management of **POISONING**

N=150

Qs no.	ITEMS	Right Answer	
		Frequency	Percentage
22.	What is the symptom of Organophosphorus Poisoning?	140	93.3
23.	Which is the appropriate place to keep the medicines and harmful solutions at home?	133	88.6
24.	Which is the appropriate place to keep the toilet cleaners at home so that it is not reachable to the child?	122	81.3
25.	What is the initial care given to the child if he has ingested phenyl?	117	78
26.	What first aid care you will give if acids, Pesticides, Chemicals, poisonous plants or poisonous substance comes in contact with your child's skin?	132	88

DISCUSSION:

The present non-experimental descriptive research study on knowledge regarding the first aid management of selected pediatric emergencies among the care takers of under 5 years children. Study population 150 caretakers of under-five children selected by non-purposive sampling technique. Result of study concludes that caretakers are having adequate knowledge of first aid management for pediatric emergencies.

The present Study findings shows that there is no association between levels of knowledge regarding the first aid management and demographic variables.

Recommendation

The following recommendations can be drawn based upon the following findings of the study:

- An identical study can be conducted between different caretakers of two cities of Maharashtra.
- NGOs involvement to be done to create awareness regarding first aid management for pediatrics emergencies at community level.

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