

# Knowledge and Attitude Towards First Aid Management in School Teachers

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## Abstract

First aid comes in the picture because it gives us first and foremost action required to prevent any complication. Compared to all other age group the school going children in a country are exposed to various kinds of health related incidents like, bleeding, Fracture, skin cuts, burn, Heatstroke, etc. which may contribute to higher mortality rate if not treated or not handled initially with appropriate care. Most of these incidents occur when the child is in school, hence it is essential for all the primary school teachers to be trained to handle emergencies in school to prevent further various kinds of life threatening complications. Present study aims to assess the level of knowledge regarding First Aid Management among selected school teachers of Pune City; to assess the Attitude regarding First Aid Management among selected school teachers of Pune City; to find out association between Knowledge score and selected demographic variables and to find out association between Attitude score and selected demographic variables.<sup>1</sup>

**Methodology:** A Non-Experimental Descriptive Research Approach was conducted among various schools of Pune City. The selection of sample was based on easy geographical accessibility, cooperation, and availability of samples. The sample size for study was 60, selected by using Non Probability Convenience Sampling Technique from various school of Pune City who met the inclusion criteria.

**Result:** The analysis asserts that 82.66% of the school teachers shows Good knowledge regarding First Aid Management and 13.33% of the school teachers shows average knowledge regarding First Management. About 6.66% of total school teachers were found to have positive attitude towards First aid Management, whereas 88.33% of school teachers shown neutral reaction towards First Aid Management and 5% of the teachers were found to have Negative attitude towards First Aid Management.

**Conclusion:** Knowledge related to First Aid Management among school teachers is found to be good and Attitude towards the same is Neutral. However the study proposes that First Aid Management training should be given to all the school teachers to make school a safer place for children and prevent all the life threatening complication.

**Key words:** Knowledge, Attitude, First Aid, School Teachers

## Introduction and Background

First Aid is the immediate help provided to a victim of any kind of accident. First Aid is provided to a victim with the aim to save life, promote good health and to prevent any serious life threatening complication. First aid is the most common thing any layman can perform to prevent further complication with the utmost information procured by any channel. Anyone who is present during the time of accident and who can provide help is a First

Aider. But for further medical emergencies required one should need to update themselves to provide exact care for serious casualties. First aid is a complex situation where specific care is required which should be given by well trained professionals so as to preserve lives. Unintentional accidents or injuries contributes the major part of our daily living where most of the population is exposed to health related damage. Besides, school children are at most risk. These children are exposed to

various incidents in their everyday journey to school. Unintentional injuries in playgrounds such as bleeding, head injuries, fracture, etc. which requires sudden attention and curative measure by a trained professionals. Unfortunately it is been ignored all over which results in decreased awareness regarding knowledge towards first aid. School life is vital part of children's life time which directly affects their physical and mental health, thus school health services should be considered as seriously. Children spends most of their time in school under the teacher's supervision. The teachers are the first line and main care giver to school children during the school hours. Thus teachers should be well trained and capable to handle casualties so as to preserve life and promote health until the medical help arrives. Also teacher's attitude towards the same plays an important role.<sup>2</sup>

A cross-sectional descriptive research was conducted at the primary school in Kerbala city in Iraq, during the period from November 2018 to December 2018 which shows out of 200 teachers, About half of primary school teachers' did have low level of knowledge concerning First aid, most of the primary school teachers not participant in any training program about First aid , and difference in gender has effect on their knowledge. Another cross sectional study done to assess knowledge, attitude, and practice about first aid among male school teachers and administrators in Riyadh, Saudi Arabia shows the mean score of knowledge about the first aid of the population was found to be 10.36. It was found that teachers who have good knowledge of first aid ( $\geq 15$  out of 25 points) are 14.9% (N = 65). Also, it was found that first-aid scores of knowledge showed a significant difference in age and having received first-aid training.<sup>1</sup>

This study aims to assess the knowledge and attitude of school teachers towards first aid of Pune City also to identify the association between knowledge and attitude score towards First Aid management and selected demographic Characteristics.<sup>2</sup>

### Objective

1. To assess the level of knowledge regarding First Aid Management among selected school teachers of Pune City.
2. To assess the Attitude regarding First Aid Management among selected school teachers of Pune

City

3. To find out the association between Attitude score and selected demographic variables
4. To find out the association between Knowledge score and selected demographic variables.

### Methodology

**Research Design:** The researchers have used A Non-Experimental Descriptive Survey. The study was conducted in the selected Schools of Pune City.

**Sampling techniques:** Non Probability Purposive sampling technique was used and all teachers from various schools of Pune City were selected

**Subject Size:** 60 Teachers; willing to participate and working in the schools of Pune city were selected. These participants were clearly informed about the study and its purpose.

**Tools of data collection:** In the present study the below scales were used to collect the data.

Structured Questionnaire to assess the knowledge and attitude regarding First Aid Management in school teachers from selected schools of Pune City. It has three sections: **Section I:** Consisted of items related to demographic variables of the study. **Section II:** Consisted of 25 questions to assess the teachers knowledge regarding first aid management. **Section III:** Consisted of 10 questions to assess the attitude of school teachers towards first aid management.

**Validity and Reliability of tools:** Tools were validated by the 5 experts and the reliability was done by Cronbach's Alpha coefficient test. Cronbach's alphas were  $r=0.86$ , &  $0.76$  for assessing the knowledge and attitude with first aid management in teachers from selected schools.

### Findings

The analysis and interpretation of the data collected to assess the knowledge and attitude with first aid management in teachers from selected schools was done keeping the objective of the study in consideration. 1. To assess the level of knowledge regarding First Aid Management among selected school teachers of Pune

City. 2. To assess the Attitude regarding First Aid Management among selected school teachers of Pune City. 3. To find out association between Knowledge score and selected demographic variables. 4. To find out association between Attitude score and selected demographic variables. The result was divided in IV Sections

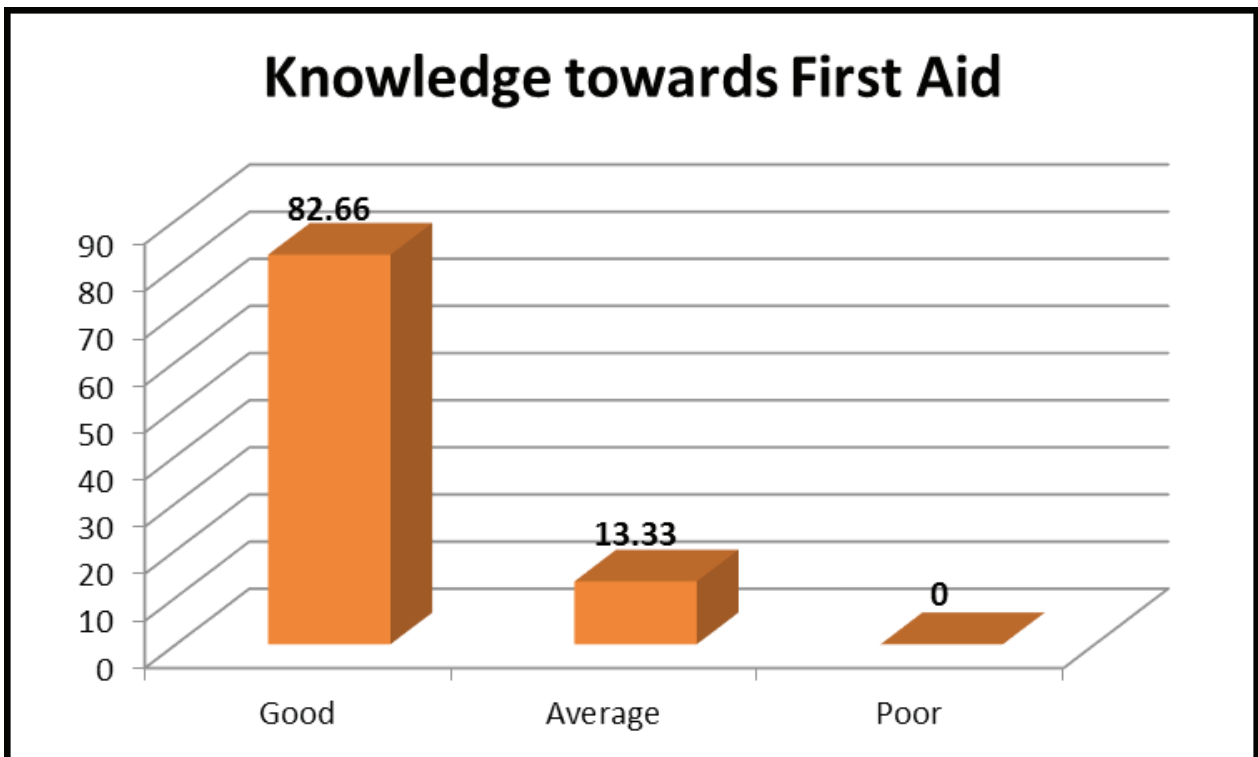
**Section – I:** Description of Demographic details  
**Section II:** Description of Knowledge of First Aid Management in school teachers. **Section III:** Description of Attitude towards First Aid Management in school teachers. **Section IV:** Association of demographic variables with Knowledge of First Aid Management in school teachers. **Section V:** Association of demographic variables with Attitude of First Aid Management in school teachers.

of knowledge and attitude towards first aid management in school teachers. 50% of teachers belong to age group from 19 to 25. 40% of teachers belong to age group of 26-35 and 10% teachers were between the age group of 36-50. Among all the teachers that participated in study 35% were male and 65% were female. About 35% of teachers were found to have 0-2 year of experience, 35% were found to have 3-5 year of experience, 21.66% were found to have 6-9 years of experience and about 8.33% were found to have experience of 10 year and above. Educational qualification of the teachers that were participated in study was 8.33% of Diploma, 80% of Graduates and 11.66% of teachers were post graduates and above. Among all the teachers that participated in the study 75% were trained for First Aid management and 25% did not undergo any training related to First Aid Management.

**Section – I: Description of Demographic details**

Describes demographic details related to assessment

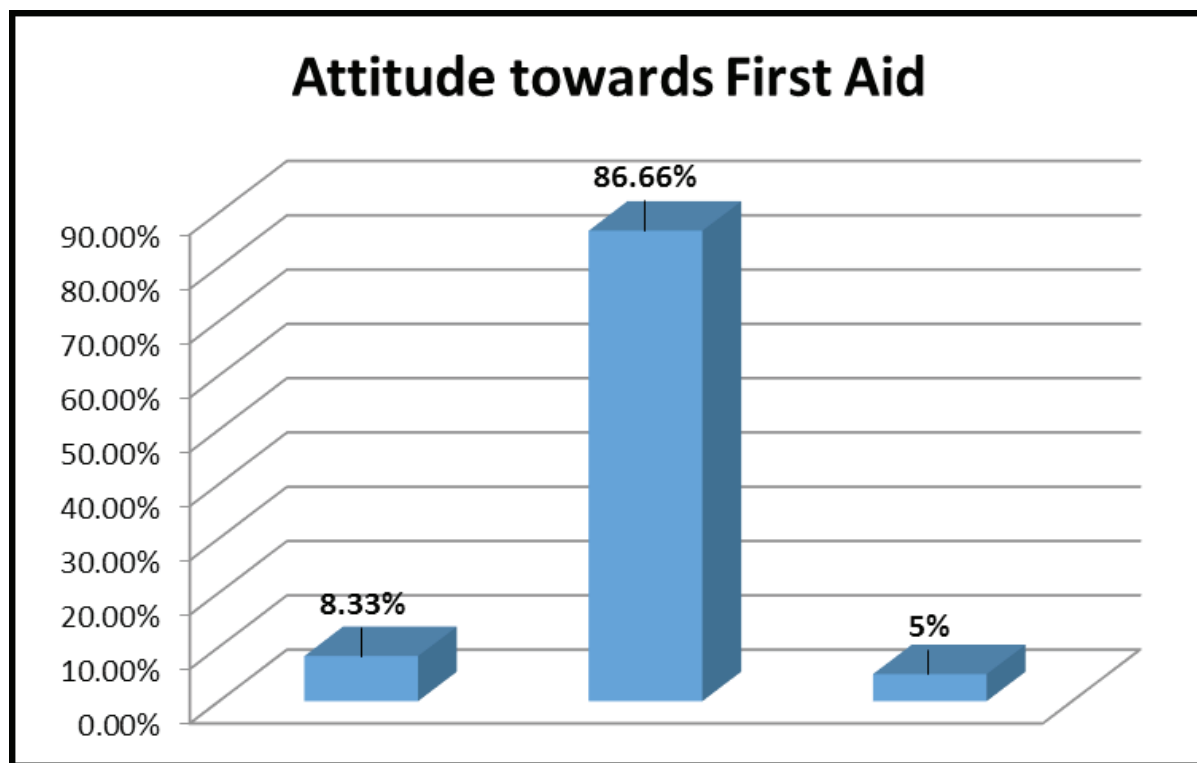
**Section II: Description of Knowledge of First Aid Management in school teachers.** N=60



**Fig 1 :** Describes the data related to knowledge towards first aid management in school teachers. 82.66% of teachers were found to have good knowledge and 13.33% of teachers were found to have average knowledge towards first aid management in school teachers.

**Section – III**

**Description of Attitude towards First Aid Management in school teachers N=60**



**Fig 2:** Describes the data related to Attitude towards First Aid Management in school teachers. 8.33% teachers were found to have positive attitude towards first aid, 86.66% were found to be neutral and 5% were shown negative attitude.

**Section IV**

**Association of demographic variables with Knowledge of First Aid Management in school teachers N=60**

**Table 1:** Describes the data about Association of demographic variables with Knowledge of First Aid Management.

Sr.No	Demographic variables	Level of significance
1.	Age * knowledge score	0.643
2	Gender * knowledge score	0.042
3	Experience * knowledge score	0.826
	Education *knowledge score	1
4	Training of first aid* knowledge score	1

**Section –V****Association of demographic variables with Attitude of First Aid Management in school teachers.**

N=60

**Table 2: Describes the data about Association of demographic variables with Attitude score of First Aid Management.**

Sr.No	Demographic Variable	Level of significance
1.	Age * attitude score	0.08
2.	Gender * attitude score	0.84
3.	Experience * attitude score	0.006
4.	Education *attitude score	0.501
5.	Training of first aid* knowledge score	0.235

**Discussion**

This study was aimed to assess the knowledge and attitude towards first aid management in school teachers in selected schools of Pune city. Hence the data was gathered from the participants and analysis was done to find the result.

**Findings related to description of Knowledge towards First Aid Management in School Teachers.**

Figure 1: Data describes the knowledge of school teachers towards first aid management. The parameters measured to assess the knowledge were: Are the school teachers aware about the basic concepts of first aid, are the school teachers aware about their role and responsibility towards first aid management, specified care for different case situations, how to maintain official records of first aid. The analysis says that the knowledge towards above points were found to be good in 82.66% school teachers and average in 13.33% school teachers.

Findings related to description of Attitude towards First Aid Management in School Teachers.

Figure2: Data describes the attitude of school teachers towards first aid management. The parameters measured to assess the attitude were: is the child's responsibility to be handled by teachers when the child is in school, there should be a training session for teachers regarding

First Aid, first aid is not important for school teachers, there should be a discussion regarding health update during parents meeting, it is un pleasant for me to give first aid, First aid should be given in health care setting, There is no need to maintain a special register regarding the health updates, There should be health check-up in school on regular basis, All the health emergencies should be informed directly to parents, teachers need not to take part in it, First aid is only effective for adults. The analysis says that the attitude towards above points were found to be positive in 8.33% , neutral in 86.66% and negative in 5 % of school teachers.

**Findings related to Association of demographic variables with Knowledge regarding First Aid Management in school teachers.**

Table 1 represents that since the p-values corresponding to age, experience, education and training of first aid are large (more than 0.05). Hence age, experience, education and training of first aid were found to have no significant association with knowledge regarding first aid management in school teachers. Whereas, the p- value corresponding to gender is less than 0.05 and thus, has significant association with knowledge regarding first aid management in school teachers.

### **Findings related to Association of demographic variables with Attitude regarding First Aid Management in school teachers.**

Table 2 represents that since the p-values corresponding to age, gender, education and training of first aid are large (more than 0.05) except for experience. The p-value for demographic variable experience was found to be less than 0.05 and has significant association with attitude regarding first aid management. Hence age, gender, education and training of first aid were found to have no significant association with attitude.

### **Conclusion**

The overall study result indicates that among all the school teachers participated in study majority of them have requisite knowledge about first aid by procured information and training. Whereas remaining others indicates paucity of knowledge as a result of lack of awareness regarding the same which can be overcome by emphasizing on the importance of first training in teachers. Additionally the overall teacher's attitude towards first was neutral, while some of the negative attitude towards providing medical care at this level can be explained as due to lack of training about health care and first aid management. The current study recommends to establish the mandatory first aid training courses, initially and also periodically for all the school teachers ensuring the safety of children to handle all casualties.

**Conflict of Interest:** Nil

**Source of Funding:** Authors have no financial support to this project. The study was fully funded by authors.

**Ethical Clearance:** Ethical approval of the study taken from Symbiosis College of Nursing ethical

committee. Informed consent was taken from the teaching faculties working in various schools of Pune city. Information given to the responders regarding the data collection procedure. The collected data was used only for research purpose and kept confidential.

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