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# "A STUDY TO ASSESS THE KNOWLEDGEREGARDING PREVENTION OFOCCUPATIONAL HAZARDS AMONG WORKERS WORKING IN A SELECTED FACTORYOF LUCKNOW."

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#### **ABSTRACT**

An industrial worker is exposed to the risk of occupational disuse and accidents which creates a feeling of physical economic and social insecurity. Non-experimental, descriptive research design was used for this study. 30 workers were selected through convenient sampling technique according to inclusion & exclusion criteria. A structured questionnaire was used to assess the knowledge of workers in the selected factory regarding occupational hazards and its prevention. The study reveals that the workers in the selected factory had mild knowledge regarding occupational hazards and prevention of occupational hazards. The study result was also shows that there was significant association between level of knowledge and their related demographic variables of the workers in the selected factory. Knowledge on occupational hazards and prevention of occupational hazards among the workers was poor they need strong emphasis on awareness to prevent hazards and promote optimum health..In knowledge score test, almost workers in the selected factory had Mild knowledge in the area of occupational hazards (73.33%) and moderate knowledge in the area of prevention of occupational hazards (50%).The result revealed that mean value of knowledge scores is m= 12.20,SD= 4.38 Chi- square test revealed that there was significant association between the Level of knowledge score of workers working in the selected factory and their related demographic variables.

Key words: Prevention Of Occupational Hazards, Workers, factory.

#### Introduction

#### "PREVENTION IS BETTER THAN CURE"

The working population represents half of the world's population are being the major contributors to socioeconomic development, their health is determined not only by the work place but also by social, individual factor as well as access to available health services. Surveillance to work environment, detection of workers knowledge, occupational hazards and safety measures is an important component of occupation health and safety services.

India has a population of over 1 billion approximately 33% whichis working class out of more than 2 lakh registered factory around 5 thousand are classified as chemical industries. A part from large and medium industries small industries play on important role in the economy of the nation. The small industries play an important role in the economy of the nation. In the industrial population health is usually provided by the management through the employee's state insurance scheme. As per the amended factories act provision of the occupational health center in mandatory in factories carrying out hazardous process.

Many progressive industries have established preventive occupational health services to look after their workers occupational health needs. The scope of occupational health services includes preventing occupational hazards at work, projecting

workers against hazards at work, help in adopting work & the work environment to the physical mental and social will being of the workers.

## **Objectives of the study**

- To assess the knowledge regarding occupational hazards and its prevention among workers working in the selected factory.
- To find out association between the knowledge score of workers and selected demographic variables .

#### **Hypothesis:**

**H<sub>1</sub>:** There is a significant association between the knowledge score and selected demographic variables.

## Assumptions

 The workers will have some knowledge regarding prevention of occupational hazards.

## Material and methods used:

**Research design**: Simple descriptive design was used for the study.

**Research approach:** Non- experimental research approach was used.



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Setting of the study: The study was conducted in ACCON HEALTH CARE Pvt. Ltd in Lucknow.

**Population:** In this study population comprises of workers, working in the ACCON HEALTH CARE Pvt. Ltd.

Sample size: Sample size- 30.

Sampling technique: Convenient Sampling

technique.

#### Variables:

**Research variable:** In this present study knowledge of workers was the independent variables. **Demographic variable:** age, Gender, education, work experience, religion, family type, residential area.

# Sampling criteria

Inclusion criteria -

- Age 18-45 yrs.
- Those who are available at the time of study.
- Those who are willing to participate
- Those who are able to read and write.

#### Exclusion criteria-

 Age group more than 45yrs and less than 18yrs.

## Development of the tool

Data collection tools are the procedures or the instruments used by the researcher to observe or measures key variables in research problem .Structured knowledge questionnaire was constructed after extensive review of literature and discussed with experts as tool to collect the data the tool consist of three sections.

**Section** –**A**It deals with the demographic variables such as age,gender, work experience, education, type of family, residential area,

**Section-B**It consist of 30 multiple choice questions which are formulated to assess knowledge of workers regarding occupational hazards.

**Section-C**It consists of 15 questions to assess the knowledge of workers regarding prevention of occupational hazards.

Scoring key

Scoring key was prepared for section- A by coding the demographic variables. For section-B & C knowledge item score (1) was awarded for correct response and (0) for wrong response, thus a total score of 30 was allotted under knowledge aspect and to interpret the level of knowledge, the scores were distributed as follows

- ➤ Mild knowledge less than 50%
- ➤ Moderately adequate knowledge 51-75%
- Adequate knowledge more than 75%

#### **Data collection procedure**

After obtaining permission from the principal of Sahara College of Nursing and Accon Health Care, the main study was started. Investigators personally visited each respondent, introduced themselves to the workers and explain the purpose of the study. The knowledge was assessed by structured questionnaire that is multiple choice questions

## Plan of data analysis

The data collected from the subject will be grouped and analyzed by using statistical measures in terms of objectives. The plan for the data analysis will be as follows:-

- ◆ The collected data was coded & transformed to mastersheet for statistical analysis.
- The response items from demographic profile planned to summarize in terms of frequency & percentage, knowledge scores of the participants were planned to be summarized in mean, standard deviation & mean percentage
- The chi square values used to find out the association between the knowledge score of workers regarding prevention of occupational hazards & their selected demographic variables like age, gender, work experience etc.
- The finding presented in the form of tables & diagrams .

# **Data analysis and major findings** *Section A:*

Table 1. Frequency and percentage distribution of subject by age, Gender, education, work experience, religion, family type, residential area.

SL.NO.	CHARACTERISTICS	CATEGORIES	FREQUENCY	PERCENTAGE
		18-25yrs	7	23.33%
1	AGE	26-30vrs	8	26.67%



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N=30

		31-35yrs	9	30%
		36-40yrs	6	20%
	GENDER	Male	27	90%
2	GENDEK	Female	03	10%
		Primary	11	36.67%
		Secondary	14	46.67%
3	EDUCATION	Higher secondary	5	16.67%
		Graduation	0	0
		New experience	11	36.67%
4	WORK	1-2yrs	6	20%
4	EXPERIENCE	2-3yrs	7	23.33%
		3yrs and more	6	20%
		Hindu	21	70%
		Muslim	8	26.67
5	RELIGION	Christian	1	3.33%
		Sikh	0	0
		Joint	18	60%
6	FAMILY TYPE	Nuclear	12	40%
	RESIDENTIAL	Urban	8	26.67%
7	AREA	Rural	22	73.33%

**Section** –**B** Knowledge scores of workers regarding occupational hazards and prevention of occupational hazards.

Table2. Level of knowledge score of workers about occupational hazards and its prevention.

N = 30

S.N O	DESCRIP TION	LEVEL OF KNOWLEDGE SCORE						
		MILD<50%		MODERATE 51-5%		ADEQUATE 75%		
		F	%	F	%	F	%	
1	Occupation al hazards	22	73.33 %	8	26.66%	0	0	
2	Prevention of occupation al hazards.	15	50%	15	50%	0	0	

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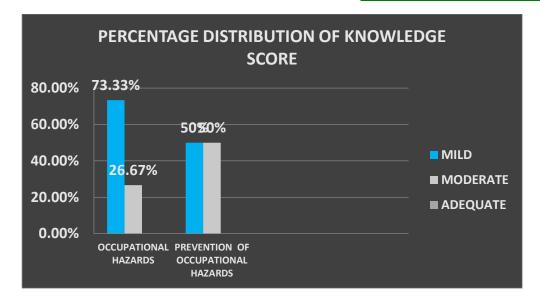
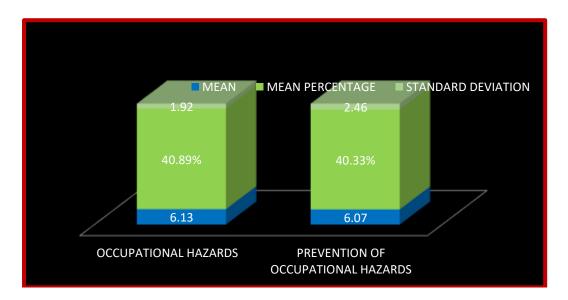


Figure 2. Level of knowledge score of workers about occupational hazards and its prevention. Shows that workers in the selected factory had mild knowledge i.e. 73.33% and moderate knowledge i.e. 26.67% about occupational hazards and 50% each mild and moderate knowledge about prevention of occupational hazards.

Table:3 Aspect wise mean , mean percentage , standard deviation of knowledge score of workers regarding occupational hazards and prevention of occupational hazards.

S.NO	COMPONENT	MEAN	MEAN PERCENTAGE	STANDARD DEVIATION
1	Occupational hazards	6.13	40.89%	1.92
2	Prevention of occupational hazards	6.07	40.33%	2.46
3	TOTAL	12.20	81.22%	4.38



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Figure 3:Aspect wise mean, mean percentage, standard deviation of knowledge score of workers regarding occupational hazards and prevention of occupational hazards.

Section- C

The findings of the present study showed that there was no significant association between the knowledge scores of workers with their selected demographic variables working in the selected factory.

#### Recommendation

- The study may be replicated in a large sample.
- A co- relational study can also be conducted with the same topic.
- A comparative study can also be conducted with same topic.

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