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A Study to Assess the Effectiveness of Computer Assisted Instruction on Knowledge of Varicose Veins among Traffic Police

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ABSTRACT

A pre-experimental study was done to assess the effectiveness of computer assisted instruction on knowledge regarding varicose veins among traffic police in selected Police Stations at Chennai.A quantitative research approach with pre-experimental design was used for this study.A total of 60 samples were selected by using convenient sampling technique . one group pre test post test was assessed by using structured questioners. After the pre-test, teaching regarding Varicose Veins was administered to each sample on the first day. Computer Assisted Instruction on Varicose Veins was administered through the CAI and the post-test was done on the seventh day. The post test findings revealed that the samples had 88.30% of adequate knowledge and 11.70% had moderate knowledge and none had inadequate knowledge. This shows that the Computer-Assisted Instruction regarding Varicose Veins was effective with the mean score of 49.28 and a standard deviation of 11.06 with 't' value 34.495which was significant at P=0.000. Hence, the research hypothesis H1 was accepted. The comparison of post-test mean knowledge score on Varicose Veins among traffic police was 83.94. There was an association between the post-test knowledge on Varicose Veins at P<0.01 level. Hence, the research hypothesis H2 was accepted.

INTRODUCTION

The work environment constitutes an important part of human's total environment.Millions of workers spend majority of the working day on their feet and many hours in static positions. Prolonged standing can lead to increased health risks such as the swelling of feet and legs, feet and joint damage, varicose veins, heart and circulatory disorders, lower back problems. A growing number of traffic police man suffering from varicose vein develops due to high pressure while standing and walking. The only way to avoid the varicose vein among traffic police is to follow the preventive measures.

NEED FOR THE STUDY

India consists of various populations with different types of occupations. The list of occupational hazards just seems to be increasing. Responsibilities of a traffic police are varied. A growing number of traffic policemen are suffering from varicose veins, a painful ailment which often develops due to high pressure while standing and walking. Over 80% of people studied in a population based evaluation were found to have visible evidence of venous disease among police man. Researcher personally has observed that most of the traffic personnel were unaware of varicose veins, and also their preventive measures. So as a medical professionals we need to create the awareness among them to reduce the severity and the prevention of varicose vein.

Statement of the problem

Pre-experimental study to assess the effectiveness of computer assisted instruction (CAI) on knowledge regarding varicose veins among traffic police in selected Police Stations, Chennai.

Objectives

- To assess the existing knowledge regarding varicose veins among traffic police in selected traffic police stations at Chennai.
- To evaluate the effectiveness of computer assisted instruction on knowledge regarding varicose veins among traffic police.
- To find out association between selected demographic variables with post-test level of knowledge on varicose veins among traffic police.

Hypothesis

H1- There is a significant increase in level of knowledge on varicose veins after giving Computer-Assisted Instruction among traffic police.

H2-There is a significant association between selected demographic variables with the knowledge on varicose veins among traffic police.

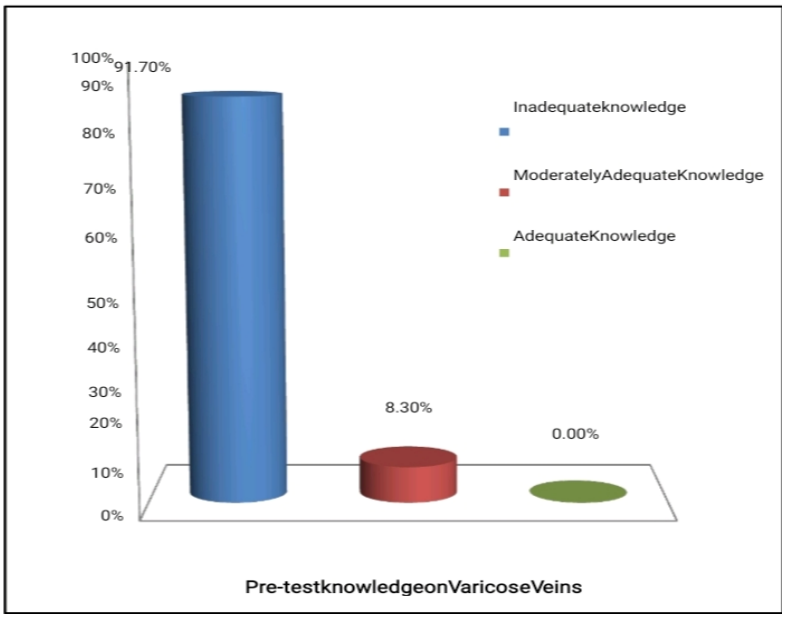
METHODOLOGY

A quantitative research approach with Quasi experimental (One group pre-test post-test) research design was used in this study . The study was conducted at range of Ambattur West-2 traffic police stations which includes Ambattur, Poonamalle, Porur, Avadi, Maduravoyil.A total of 60 samples were selected by using non probability convenient sampling technique. After obtaining the consent the data was collected by self structured questionnaire. It took 10 minutes to complete questionnaire.

RESULT AND DISCUSSION

The finding of the study discussed based on the objectives;

Figure :1 Descriptive Statistics of knowledge regarding Varicose Veins among Traffic Police in Pre-test



Among 60 samples 91.70% of the traffic police had inadequate knowledge,8.30% had moderate knowledge and none had adequate knowledge on Varicose Veins in the pre-test.

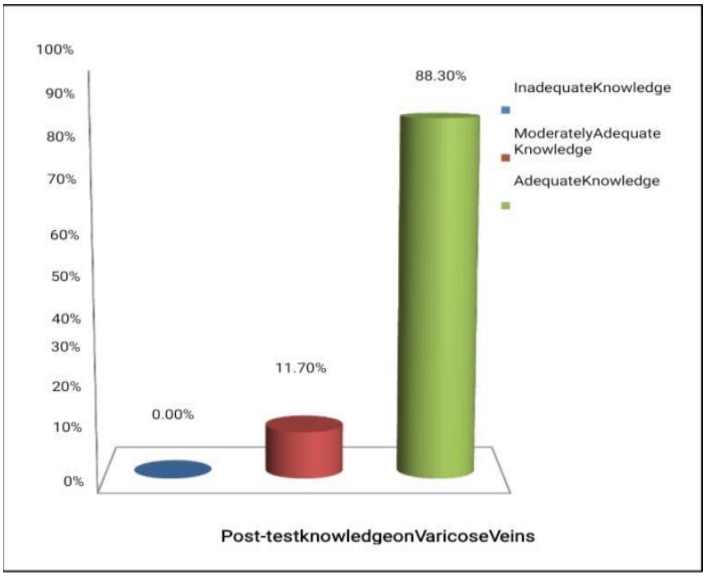
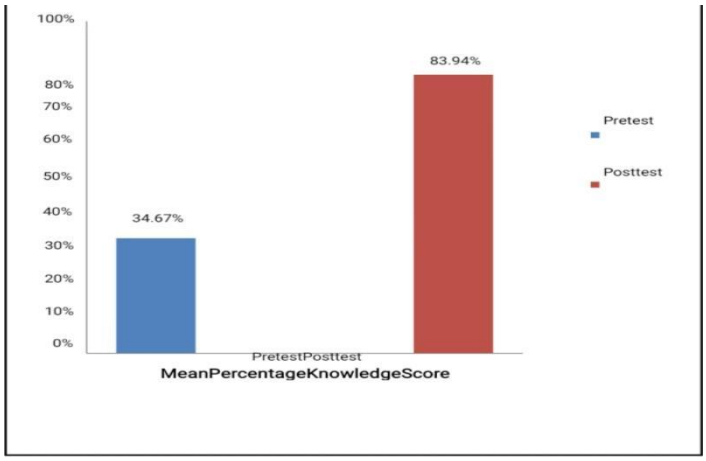


Figure :2 Descriptive Statistics of knowledge regarding Varicose Veins among traffic Police in Post-test in the post-test 88.30% had adequate knowledge,11.70% had moderately adequate knowledge and none had inadequate knowledge on Varicose Veins.

Figure :3: Comparison of mean (%) pre-test and post-test knowledge scores among Traffic Police on Varicose Veins.



The result reveals that pre-test mean knowledge score was 34.67% and the post- test mean knowledge score was 83.94%.hence the hypothesis H_1 is accepted.

Third objective was To find out the association between post test knowledge level with their selected demographic variable. Result revealed that there is significant association between the current position (P=0.042) with post test knowledge. Hence the hypothesis H2 is accepted.

CONCLUSION

The present study was done to evaluate the effectiveness of computer assisted instruction (CAI) on knowledge regarding varicose veins among traffic police in selected Police Stations, Chennai. The Tamilnadu traffic police officials are suffering silently by varicose vein. The result of the study shows that Computer-Assisted Instruction regarding Varicose Veins was effective to impart knowledge among the traffic polices in the management and prevention of Varicose Veins.

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