

A STUDY TO ASSESS THE KNOWLEDGE REGARDING VIDEO ASSISTED TEACHING ON REVISED CARDIO PULMONARY RESUSCITATION (CPR) GUIDELINES AMONG NURSES AT A TERTIARY CARE HOSPITAL, TRICHY

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ABSTRACT

Cardiopulmonary resuscitation (CPR) is a series of life-saving actions that improve the chances of survival, following cardiac arrest. The newest development in the CPR guideline is a change in the basic life support sequence of steps from "A-B-C" (Airway, Breathing, Chest compressions) to "C-A-B" (Chest compressions, Airway, Breathing) for adults. Also, "Hands-Only (compression only) CPR" is emphasized for the nurses. So, the investigators decided to conduct a study on the knowledge of nurses regarding revised Cardio Pulmonary Resuscitation guidelines through video assisted teaching. One group Pre-test and Post-test experimental design was adopted in this study for assessing knowledge of 50 registered nurses. The findings revealed that the majority of the registered nurses with the area of experience in Wards showed 95% knowledge gain in post-test while nurses who had experience in ICU/ER/OT showed 86% knowledge gain comparatively.

Keyword - CPR Video-assisted teaching, Nursing, Nursing teaching, Continuous Nursing Education, Nursing quality, CPR, Video-assisted teaching, etc....

1. Introduction

Cardiopulmonary resuscitation (CPR) is the foundational technique for the emergency treatment of cardiac arrest (CA). The standardized training of CPR has been emphasized more than ever. Common people in developed countries and regions have received popular education of CPR program of advanced cardiac life support (ACLS) training which was launched jointly by **Universal Medical Assistance International Centre (2014)**. Studies have also identified differences in the quality of ACLS /CPR performed by various healthcare providers. Often chest compression is performed inadequately with slow rates of compression and inadequate depth of compression. Researcher found that after a relatively short time following training, nurse's ACLS/CPR skills were poor. Previous studies of CPR/ACLS knowledge and skills have focused on nurses and other mainstream health professionals.

However, teaching and learning experience of nursing staff related to Cardio Pulmonary Resuscitation may be doubtful. A reason for that is many hospitals, in India does not have even basic Cardio Pulmonary Resuscitation manikins, since there is no stipulation by regulating body in making such provision a mandate. Besides only few teachers are certified Basic Life-support Advanced Cardiac Life Support providers. This situation can synergistically influence the knowledge, attitude and practice of CPR among nurses. (Abella, et.al. 2008).

2. Methodology

The study was done in 2 months i.e., from February 2022 to March 2022. One group Pre-test and Post-test experimental design was used for this study. The research variable was the knowledge of nurses regarding video assisted teaching on revised Cardio Pulmonary Resuscitation guideline. The study was focused on 50 registered nurses working at a tertiary care hospital in Trichy. The random sampling technique was used for the selection of subjects. Only frontline nurses, having work experience of more than 1 year and who have a working experience in emergency/ casualty, OT, ICU and wards were part of the study.

The tool used for data collection was divided into two sections. Section 1 was on the background information of the nurses and Section 2 was a structured knowledge questionnaire on revised CPR guidelines, which had 20 items based on chest compression rates, depth, role of nurse & effectiveness of CPR. Each correct answer had a score of 1; no score was given for incorrect or missed items, so the maximum score was 20 and the minimum was 0. A total score of more than 15 indicated good knowledge, a score between 10-14 means average knowledge, and below 10 signified poor knowledge. Permission from Management, Nursing Superintendent and a well-informed written consent was obtained from all subjects prior to data collection. The data was collected in February 2022 through a manual survey followed by video assisted training.

3. Result And Discussion

Figure 1-8 describes the background information of the registered nurses. The majority of the nurses were female (78%), between age group 20-25 years (38%), have done BSc Nursing (60%), working in ICU/HDU (52%), >6 years of work experience (52%), staying at home (54%), had previous knowledge by referring books (44%) and receiving an income from 15,000 to 20,000 (76%). Table 1: depicts that the knowledge score of registered nurses with the area of experience in Wards showing 95% knowledge gain in post-test while nurses who had experience in ICU/ER/OT showing 86% knowledge gain comparatively. A total score of more than 75% indicated good knowledge, a score between 50%-74% means average knowledge, and below 50% signified poor knowledge. The score of knowledge gained were highly significant when compared to pre-test score with more than 75% score among all the nurses in post-test. This shows that the improvement in knowledge about the revised CPR guideline helps in developing favourable practice towards the CPR techniques among nurses. Hence the formulated hypothesis was accepted.

Table -1 Pre-test & Post Test score in Percentage

CRITERIA	PARAMETERS	TOTAL NO. OF PARTICIPANTS	PRE - TEST Score%	POST TEST Score%
AREA OF EXPERIENCE	Ward	14	49	95
	ICU/ER	26	54	81
	OT	04	65	95
	Others	06	50	82
CRITERIA	PARAMETERS	TOTAL NO. OF PARTICIPANTS	PRE - TEST Score%	POST TEST Score%

AREA OF EXPERIENCE	Ward	14	49	95
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Figure 1: Age

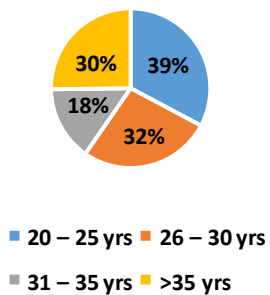


Figure 2: Gender

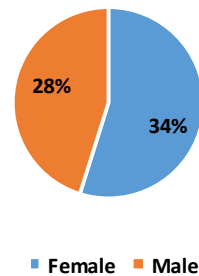


Figure 3: Qualification

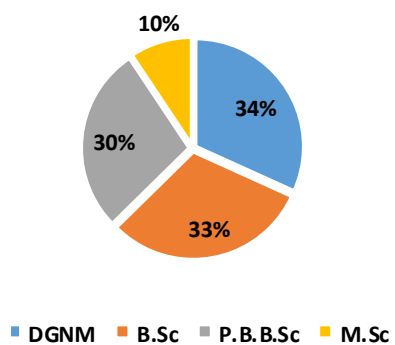


Figure 4: Years of Experience

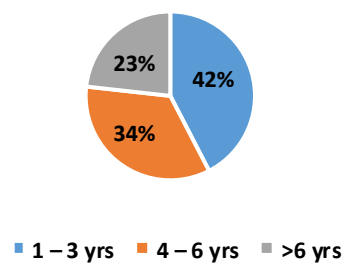


Figure 5: Area of Experience

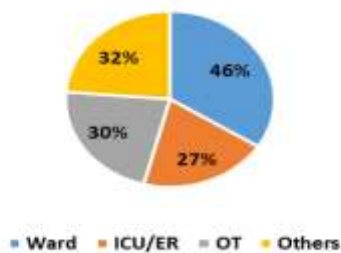


Figure 6: Place of Stay

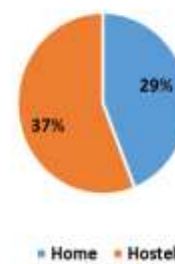


Figure 7: Source of Information

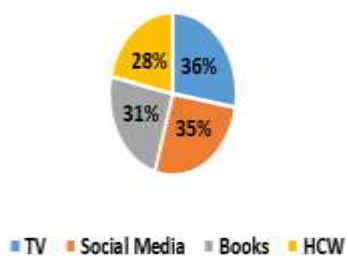


Figure 8: Income



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