International Journal of Current Advanced Research

ISSN: O: 2319-6475, ISSN: P: 2319-6505, Impact Factor: 6.614 Available Online at www.journalijcar.org Volume 10; Issue 05 (A); May 2021; Page No.24307-24310 DOI: http://dx.doi.org/10.24327/ijcar.2021.24310.4820



Research Article

A STUDY TO EVALUATE THE EFFECTIVENESS OF VIDEO ASSISTED TEACHING ON KNOWLEDGE REGARDING PREVENTIVE AND CURATIVE HEALTH SERVICES FOR SELECTED HEALTH PROBLEMS USING IMNCI APPROACH AMONG CARE TAKERS OF DAY CARE CENTRES IN BANGALORE

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ARTICLE INFO

Article History:

Received 6th February, 2021 Received in revised form 15th March, 2021 Accepted 12th April, 2021 Published online 28th May, 2021

Key words:

Video assisted teaching, caretakers of day care centres, socio-demographic variables, knowledge, preventive and curative health services for selected health problems using IMNCI approach.

ABSTRACT

IMNCI is a systemic approach to child health which focuses on the whole child. It has been developed for the management of childhood illness, in an integrated manner which is responsible for main causes of morbidity and mortality. It includes assessment, classification and management of the major problems of a sick child under 5 years of age. Caretakers of day care centres therefore require having knowledge regarding this approach as it focuses on preventive and curative aspects of heath management and therefore help in reducing under 5 morbidity and mortality rates.

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INTRODUCTION

A child is a human being between the stages of birth and puberty. Children represent the future and ensuring their healthy growth and development ought to be a prime concern of all societies. Children are vulnerable to malnutrition and infectious diseases, many of which can be effectively prevented or treated.¹An estimated 43% of children under-5 years of age in low and middle income countries are at risk of not reaching developmental potential. 5.9 million Children under the age of 5 years died in 2015.². Acute respiratory infections contribute to major disease associated mortality and morbidity diarrhoeal disease is the second leading cause of death in children under five years old.³ WHO and UNICEF have addressed this challenge by developing a strategy called the Integrated Management of Childhood Illness (IMCI). The IMCI clinical guidelines target for under 5 children. The Indian version of IMCI has been renamed as IMNCI as it include the first 7 days of age in the program. This approach has been found effective to be applied upon children under five years old with health problems. Hence, the researcher is interested in conducting study based on IMNCI approach to develop better health management of under 5 children.

Objectives

- Assess the knowledge of caretakers of day-care centres regarding preventive and curative health services for selected health problems using IMNCI approach before administration of video assisted teaching.
- Assess the knowledge of caretakers of day-care centres regarding preventive and curative health services for selected health problems using IMNCI approach after administration of video assisted teaching.
- Evaluate the effectiveness of video assisted teaching regarding preventive and curative health services for selected health problems using IMNCI approach among caretakers of day-care centres by comparing the mean pre-test and post-test knowledge score.
- Find the association between the mean pre-test knowledge scores regarding preventive and curative health services for selected health problems using IMNCI approach among caretakers of day-care centres and their selected socio demographic variables.

REVIEW OF LITERATURE

Studies related on effectiveness on implementation of IMNCI strategy and general study on IMNCI

A cross sectional survey was conducted to evaluate pre-service training on Integrated Management of newborn and childhood illness training in Ethiopia. Data was collected using pre-tested questionnaires, focused group interviews with teachers and students, observations of students while managing sick children using IMNCI guidelines and reviews of paediatric course outlines and other teaching/learning materials.29 health professionals' training institutions were included in the survey. All students and instructors (100%) rated that IMNCI concept is very relevant or extremely relevant. The study concluded that the students overall performance in managing sick child as per IMNCI guidelines was above average.

Studies related to effectiveness of VAT

A study was conducted to evaluate the effectiveness of video assisted teaching on safety measures followed by employees working in the silica-based industry in Pondicherry, India. A total of 105 employees were selected from M/s ACE Glass Containers Ltd. using the convenience sampling technique. Pre-test was conducted using a self-administered Subsequent video-assisted teaching was questionnaire. conducted by the investigator after which post test was conducted. Video-assisted teaching program was found to be effective in improving the knowledge, attitude, and practice of the subjects. Periodical reorientation on safety measures are needed for all the employees as it is essential for promoting the well-being of employees working in any industry. Videoassisted teaching program was found to be effective in improving the knowledge, attitude, and practice of the subjects.

RESEARCH METHODOLOGY

Research Approach: qualitative approach

Research Design: pre experimental one group pre-test – post-test, design.

Research Variable: video assisted teaching

Demographic variables: Baseline characteristics of caretakers of day care centres such as age, gender, religion, educational status, working experience, previous knowledge on IMNCI, mode of receiving information related to IMNCI, previous knowledge on management of diarrhoea and ARI and mode of receiving information on diarrhoea and ARI management.

Setting of the study: Day care centres in selected areas of Bangalore (Mamre Play School, Kinderdale International School, Little Ville Play School, Bachpan Play School, Sofia Day care at Sofia Public School, Euro Kids, Admiral Pre-School, SarvarKidz at Bangalore.)

Sample: Care takers of day care centres who fulfill the inclusion criteria from selected day care centres of Bangalore.

Sample size: 60

Sampling technique: Purposive sampling technique

Tools: Structured questionnaires

Technique: Video

RESULTS

Section I: Frequency and percentage distribution of respondents according of demographic variables.

		Respondents			
Characteristics	Category	Number (n)	Percentage (%)		
	18 - 20 years	6	10.0		
Age	21-30 years	27	45.0		
	31 -40 years	22	36.7		
	>40 years	5	8.3		
Gender	Male	0	0.0		
	Female	60	100.0		
	Hindu	25	41.7		
Religion	Muslim	5	8.3		
	Chrisian	28	46.7		
	Others	2	3.3		
Educational status	Under	39	65.0		
	graduate	21	35.0		
	Graduate	0	0.0		
	Post graduate				
	<1 year	20	33.3		
Working experience	1-2 years	10	16.7		
	2-3 years	18	30.0		
	>3 years	12	20.0		
Previous knowledge	Yes	0	0.0		
on IMNC	No	60	100.0		
Previous knowledge	Yes	20	33.3		
on management of	No	40	66.7		
diarrhoea and ARI		40	00.7		
	Mass media				
Mode of receiving	Personal	6	10.0		
information on	reading	3	5.0		
diarrhoea & ARI	Relative &	36	60.0		
management	family	15	25.0		
	Health Care				

Section II: Findings related to overall and aspect wise pretest knowledge scores of care takers regarding knowledge on IMNCI

It is observed that majority of the samples 57(95.0%) had inadequate level of knowledge and 3(5.0%) had moderate level of knowledge and none of them had adequate level of knowledge.

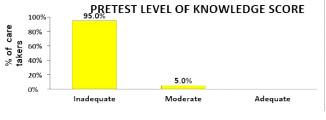


Figure 1 Graph Representing Distribution of Respondents on Pre-Test Knowledge Level of Knowledge on Imnci

Section III: Findings related to overall and aspect wise posttest knowledge scores of care takers regarding knowledge on IMNCI.

This shows the classification of care takers with regard to their post test knowledge level on IMNCI. It is observed that majority of the samples 47(78.3%) had adequate level of knowledge and 13(21.7%) had moderate level of knowledge. It is seen that and none of the sample were having inadequate level of knowledge on IMNCI.

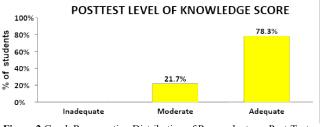
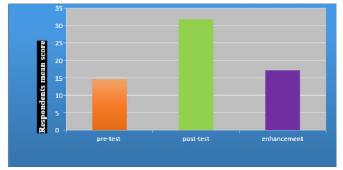
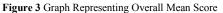


Figure 2 Graph Representing Distribution of Respondents on Post-Test Knowledge Level of Knowledge on Imnci

Section IV: Effectiveness of video assisted teaching on preventive and curative health services for selected health problems using IMNCI approach.

To evaluate the effectiveness of the video assisted teaching regarding preventive and curative health services for selected health problems using IMNCI approach among caretakers of day care centres a research hypothesis (H_1), was developed that is , there is a significant difference between pre-test and post-test level of knowledge. To test this hypothesis the level of significance was set at 0.05 level. The data depicted in the above table shows that the mean post-test knowledge scores were 31.80 and the mean pre-test knowledge score were 14.62. When a paired't' test was done, the obtained't' value 42.05 was found to be significant at 0.05 level. The obtained't' value 42.05 is found to be more than table value t (1.96 with 59df) at 0.05 level of significance. From this it is evident that there is a significant difference between the mean pre-test and post –test knowledge scores of caretakers of day care centres.





Classification of respondents on knowledge level on preventive and curative health services for selected health problems using IMNCI approach

The data depicted shows the classification of respondents on knowledge level based on pre-test score 95.0% (57 out of 60) samples had inadequate knowledge, 5.0% (3 out of 60) samples had moderate knowledge and none of the respondents had adequate knowledge. The post test knowledge scores showed that majority of the samples 78.3% (47 out of 60) samples had adequate knowledge, followed by 21.7% (13 out of 60) samples had moderate knowledge and none of the respondents had inadequate knowledge

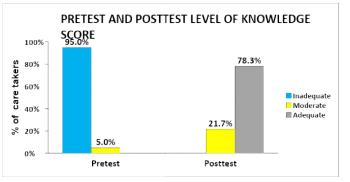


Figure 4 Claasification Of Respondents Knowledge Level On Preventive And Curative Health Services For Selected Health Problems Using Imnci Approac

Section V: This section deals with association of Pre test knowledge score of care takers regarding preventive and curative health services for selected health problems using IMNCI approach and their selected socio-demographic variables.

Table 2 Association between Demographic variables and Pre

 test Knowledge level of care takers regarding preventive and

 curative health services for selected health problems using

IMNCI approach and their selected socio-demographic variables.

n=60

Demographic Variables	Category		Knowledge Level			χ² Value	P Value	
		Sample	Inadequate		Moderate			
		-	n	%	n	%	•	
Age (years)	18 - 20	6	6	100.0	0	0.0	0.91 NS	
	21-30	27	25	92.6	2	7.4		P>0.05 (7.815)
	31 -40	22	21	95.5	1	4.5		
	>40	5	5	100.0	0	0.0		
Gender	Male	0	0	0.0	0	0.0	0.00	P>0.05
	Female	60	57	95.0	3	5.0	NS	(3.841)
	Hindu	25	25	100.0	0	0.0		
Religion	Muslim	5	5	100.0	0	0.0	3.60 NS	P>0.05 (7.815)
	Christian	28	25	89.3	3	10.7		
	Others	2	2	100.0	0	0.0		
Educational status	Under graduate	39	37	94.9	2	5.1	0.01 NS	P>0.05 (5.991)
	Graduate	21	20	95.2	1	4.8		
	Post graduate	0	0	0.0	0	0.0		((,,,,,))
	< 1 year	20	100.0	0	0.0	0		
Working	1 -2 years	10	100.0	0	0.0	0	7.36 NS	P>0.05 (7.815)
experience	2 -3 years	18	83.3	3	16.7	0		
	> 3 years	12	100.0	0	0.0	0		
Previous knowledge on IMNCI	Yes	0	0.0%	0	0.0	0	0.00 NS	P>0.05
	No	60	95.0	3	5.0	0		(3.841)
Previous	Yes	20	100.0	0	0.0	0		
knowledge on management of diarrhoea and ARI	No	40	92.5	3	7.5	0	1.57 NS	P>0.05 (3.841)
	Mass media	2	50.0	1	50.0	0		
Mode of receiving information on diarrhoea management	Personal reading	1	100.0	0	0.0	0	3.00 NS	P>0.05 (7.815)
	Relative and family	12	83.3	2	16.7	0		
	Health care	5	100.0	0	0.0	0		

* Significant at 5% Level,

NS : Non-significant

CONCLUSION

The study was conducted to evaluate the effectiveness of video assisted teaching on knowledge regarding preventive and curative health services for selected health problems using IMNCI approach among caretakers of day care centres in Bangalore. In the present study, 60 care takers were selected by using purposive sampling technique. The study findings reveal that, in pre test knowledge, 95.0% had inadequate knowledge and remaining 5.0% had moderate knowledge. In post test knowledge, 21.7% had moderate knowledge and remaining 78.3% had adequate knowledge. This shows the effectiveness of the effectiveness of video assisted teaching on knowledge regarding preventive and curative health services for selected health problems using IMNCI approach. The video assisted teaching was effective in increasing the knowledge of caretakers in all the aspects of objectives. There was no significant impact between the gain in knowledge scores with selected demographic variables. The study paved the path to gain the knowledge and information among caretakers of day care centres on knowledge regarding preventive and curative health services for selected health problems using IMNCI approach.

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How to cite this article:

Ellina Khuraijam and Jacqulin Jeneta B.J (2021) 'A Study To Evaluate The Effectiveness of Video Assisted Teaching on Knowledge Regarding Preventive And Curative Health Services For Selected Health Problems Using IMNCI Approach Among Care Takers of Day Care Centres In Bangalore', *International Journal of Current Advanced Research*, 10(05), pp. 24307-24310. DOI: http://dx.doi.org/10.24327/ijcar.2021.24310.4820
