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"A STUDY TO ASSESS THE EFFECTIVENESS OF VEDIO ASSISTED TEACHING MODULE REGARDING KNOWLEDGE AN OSTEOPOROSIS AND ITS PREVENTION AMONG PATIENTS WHO ARE ATTENDING OPD AT ADICHUNCHANAGIRI HOSPITAL AND RESEARCH CENTRE, B G NAGARA."

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ABSTRACT

The human body is rather like a highly technical and sophisticated machine. It operates as a single entity, but is made up of a number of systems that works inter- dependently. The skeletal system (bones and joints) works interdependently with the skeletal muscle system and provides basic functions that are essential to life such as it protects the brain and internal organs, maintains upright posture, blood cell formation, mineral homeostasis, stores fat and minerals. Inappropriate functioning of the metabolic processes results in disorders manifested by changes in both physical and chemical structure of the bone. Bone mass changes in a person's life time can be categorized into three phases - Growth, Consolidation and Involution. Peak bone mass is accumulated in the growth phase, about 90% of ultimate bone mass is deposited in the space this is followed by consolidation which lasts for 15 years. The involution starts between ages 35-40 years in both sexes, with acceleration of bone loss within a decade after menopause in women. The prevalence of osteoporosis and low bone mass is expected to increase worldwide with increased aging of the population. Across the globe, the number of individuals aged 50 years and greater is expected to increase nearly fivefold by the year 2050, from 323 million to 1.55 billion. **Methods**; An experimental study was conducted among 60 post-operative patients who were selected by us Non probability convenient sampling technique was adopted to select the samples. Video assisted teaching in Adichunchanagiri hospital & research centre B.G Nagara. The study setting is selected because of availability of the samples, feasibility of conducting study and geographical proximity. The data collected was analyzed and interpreted based on descriptive and inferential statistics. Results; The Overall pretest, post-test, and enhancement knowledge scores regarding an osteoporosis and its prevention among patients who are attending OPD .pre-test score 12.37 and post test score is 17.50. The paired't' test is 9.74 was carried out and it was found significant at 0.05 level, research hypothesis H1 was accepted. It evidence that is regarding an osteoporosis and its prevention among patients who are attending OPD video assisted teaching was significantly effective on improving the knowledge.

INTRODUCTION

Osteoporosis common bone problem both men and women across the world. Osteoporosis and its rate of fracture are much higher in Postmenopausal Women's than in men. According National Osteoporosis foundation estimates there are 9.1 million women with Osteoporosis and an additional 26 million with low bone mass, which exceeds the estimated 2.8 million men with Osteoporosis and 14.4 million men with low bone mass.

In Asia it is projected that more than about 50% of all osteoporotic hip fracture can occur in Asia by the year 2050, osteoporosis is greatly under diagnosed and under treated in Asia.

The study among India men and women aged 30-60 years from low-income groups. BMD at all the skeletal sites were much lower than values reported form developed Countries. With a high prevalence of osteopenia 52% and osteoporosis 29% though to be due to inadequate nutrition.

OBJECTIVES OF THE STUDY

- 1. To assess the level of knowledge regarding osteoporosis and its prevention among patients who are attending OPD in terms of pretest score.
- 2. To develop and implement the video assisted teaching module regarding osteoporosis and its prevention among patients who are attending OPD.
- 3. To evaluate the effectiveness video assisted teaching module regarding osteoporosis and its prevention in term of post test score.
- 4. To find out the association between pre test knowledge score with selected demographic variables of client who are attending OPD.

METHOD

RESEARCH APPROACH

An experimental research approach was used in this study

RESEARCH DESIGN

Pre experimental study design with single group pre-test and post-test.

RESEARCH SETTING

Adichunchanagiri Hospital and Research centre Nagara.

POPULATION

The patients who are attending OPD.

SAMPLE

Adult women patients who are above age group of 40 years at Adichunchanagiri Hospital and Research centre Nagara.

SAMPLING SIZE; 60 patients

SAMPLING TECHNIQUE

Non probability convenient sampling technique

INCLUSION CRITERIA

- Clients among patients who are attending OPD with osteoporosis.
- Client under age group of 35-70 year.
- Client who are willing to participate in the study.

EXCLUSION CRITERIA

- Client who are critically ill and unconscious.
- Client with severe osteoporosis.
- Client who are not willing to participate.

SELECTION AND DEVELOPMENT OF RESEARCH TOOL

Knowledge of Preventive Modalities of Osteoporosis assessment checklist was selected for the study and was used to assess the knowledge of preventive modalities of Osteoporosis.

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DESCRIPTION OF THE TOOL

The tool for data collection is structured in two sections

Section I: It consisted of 10 items seeking informing about Age, sex religion, marital status, education, occupation, and type of family, previous knowledge on osteoporosis, dietary habits, and family history of osteoporosis.

Section II: It consisted of 32 knowledge items which include anatomy of bone, general knowledge regarding osteoporosis, causes of osteoporosis, signs and symptoms of osteoporosis, diagnosis and treatment, management and preventive modalities of osteoporosis.

RESULTS AND FINDINGS

The study result shows pre-test, post-test, and enhancement knowledge scores regarding an osteoporosis and its prevention among patients who are attending OPD. pre-test score 12.37 and post test score is 17.50. The paired't' test is 9.74 was carried out and it was found significant at 0.05 level, research hypothesis H1 was accepted. Its evidence that is regarding an osteoporosis and its prevention among patients who are attending OPD video assisted teaching was significantly effective on improving the knowledge.

TABLE-1: Classification of study participants by socio-demographic Variables. N=60

SL. NO	SOCIO DEMOGRAPHIC VARIABLES	CATEGORIES	FREQUENCY	PERCENTAGE OF FREQUENCY
		25	0	0.0%
		30-35	11	18.3%
1	Age in years	40-45	18	30.0%
		50-65	31	51.7%
		Male	28	46.7%
2	Gender	Female	32	53.3%
		Hindu	29	48.3%
3	Religion	Muslim	19	31.7%
		Christian	12	20.0%
7/		Married	38	63.3%
	Marital status	Unmarried	3	5.0%
4	Marital status	Divorced	5	8.3%
		Widowed	14	23.3%
	Educational status	Non formal education	29	48.3%
		Primary education	9	15.0%
5		Secondary education	9	15.0%
		PUC and Degree	13	21.7%
		Cooli	13	21.7%
6	Occupation	Agriculture	31	51.7%
U	Occupation	Private workers	10	16.7%
		Professional	6	10.0%
		Nuclear	39	65.0%
7	Type of family	Single parent	6	10.0%
		Joint family	15	25.0%
	Any previous	Physician	20	33.3%
	information acquired	Any health personnel	18	30.0%
8	regarding	News paper	12	20.0%
	osteoporosis	Television	10	16.7%
		Vegetarian	15	25.0%
	Dietary habits	Non vegetarian	18	30.0%
9	•	Mixed	27	45.0%
	Presence of family	Yes	19	31.7%
10	history of osteoporosis	No	41	68.3%

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TABLE-2: Pre-test level of knowledge regarding osteoporosis and its prevention among patients. (N=60)

LEVEL KNOWLEDGE	OF	PERCENTAGE OF KNOWLEDGE	NO. OF STUDY PARTICIPANTS.	PERCENTAGE OF FREQUENCY
		SCORES		_
INADEQUATE		≤50%	57	95.0%
MODERATE		50-75%	3	5.0%
ADEQUATE		>75%	0	0.0%
Total			60	100.0

TABLE-3: Post-test level of knowledge regarding an osteoporosis and its prevention among patients. (N=60)

LEVEL OF KNOWLEDGE	PERCENTAGE OF KNOWLEDGE SCORES	NO. OF STUDY PARTICIPANTS.	PERCENTAGE OF FREQUENCY
INADEQUATE	≤50%	14	23.3%
MODERATE	50-75%	46	76.7%
ADEQUATE	>75%	0	0.0%
Total		60	100.0

Table 4: COMPARISON BETWEEN PRE-TEST AND POST-TEST LEVEL OF KNOWLEDGE REGARDING OSTEOPOROSIS AND ITS PREVENTION AMONG PATIENTS.(N=60)

LEVEL OF	PERCENTAGE	No. of study p	oarticipants.	Percentage of frequency		
KNOWLEDGE	OF	PRE TEST	POST TEST	PRE TEST	POST	
	KNOWLEDGE				TEST	
	SCORES					
INADEQUATE	≤50 <mark>%</mark>	57	14	95.0%	23.3%	
MODERATE	50- <mark>75%</mark>	3	46	5.0%	76.7%	
ADEQUATE	>75 <mark>%</mark>	0	0	0.0%	0.0%	
Total		60	60	100.0	100.0	

Table 5: association between pre-test level of knowledge of study participants and their socio-demographic variables. (N=60)

Sl. No	Demographic Variables	Categories	Pre Test Level Below median	Above median	Calculated χ² Value	Df
		25	0	0	MU.	
		30-35	4	7	3.93	_
1	Age in years	40-45	13	5	(NS)	2
		50-65	20	11		
_		Male	15	13	1.45	
2	Gender	Female	22	10	(NS)	1
3 Religion		Hindu	15	14		2
	Religion	Muslim	14	5	2.50	
	Christian	8	4	(NS)		
		Married	3	0		
		Unmarried	21	17	3.09	3
4	Marital status	Divorced	3	2	(NS)	
		Widowed	10	4		
		Non formal education	19	10		
	Educational	Primary education	7	2	2.63	2
5	status	Secondary education	4	5	(NS)	3
		PUC and Degree	7	6		
6	Occupation	Cooli	5	8	4.55	3
		Agriculture	20	11	(NS)	
		Private workers	8	2		

		Professional	4	2		
7	Type of family	Nuclear	26	13	1.19	2
		Single parent	3	3	(NS)	
		Joint family	8	7		
	acquired	Physician	11	9	2.20	3
8		-	13	5	(NS)	
	regarding osteoporosis	News paper	6	6		
		Television	7	3]	
9	Dietary habits	Vegetarian	11	4	5.98 (S)	2
		Non vegetarian	7	11		
		Mixed	19	8		
10	Presence of	Yes	10	9	0.96	1
	family history of osteoporosis	family history of osteoporosis No		14	(NS)	

Table 6: association between post-test level of knowledge of study participants and their socio-demographic variables. (N=60)

Sl.	Demographic	Categories	Pre Test Knowl	ledge Level	Calculated χ ²	Df
No	Variables		Below median	Above median	Value	
		25	0	0		
		30-35	8	3	2.27	_
1	Age in years	40-45	0-45 8 10		(NS)	2
		50-65	16	-15))	
2	Gender	Male	16	12	0.30	1
L	Gender	Female	16	16	(NS)	1
		Hindu	17	12	0.65	
3	Religion	Muslim	9	10	(NS)	2
		Christian	6	6	(115)	
		Married	2	1	3	
	Marital status	Unmarried	22	16	1.50	3
4	Marital Status	Divorced	2	3	(NS)	
		Widowed	6	8		
		Non formal education	15 6	3		
	Educational status	Primary education	4	5	0.96	3
5		Secondary education	7	6	(NS)	3
		PUC and Degree	,			
		Cooli	10	3		
6	Occupation	Agriculture	16	15	5.15	3
· ·	Occupation	Private workers	3	7	(NS)	
		Professional	3	3		
_	T. 66 11	Nuclear	21	18	0.03	_
7	Type of family	Single parent	8	3	(NS)	2
		Joint family	11	7		
	Any previous	Physician		-		
	information acquired	Any health personnel	9	9	4.88	3
8	regarding	News paper	4	8	(NS)	
	osteoporosis	Television	8 2			
		Vegetarian	8	7		
	Dietary habits	Non vegetarian	12	6	2.14	2
9		Mixed	12	15	(NS)	
	Presence of	Yes	11	8	0.22	
10	family history of osteoporosis	No	21	20	0.23 (NS)	1

Table-7: mean, mean%, sd and cv of overall pre-test, post-test and enhancement knowledge scores regarding osteoporosis and its prevention among patients. (N=60).

	Mini mum	Maxi mum	Rang e	Mean	mean %	Std. Deviation	co- efficient of variance	Paired t Test Value
Pretest	5.00	18.00	13.00	12.57	39.28	2.88	22.91	
Post test	12.00	24.00	12.00	18.70	58.44	2.36	12.62	11.89 (S)
Enhancement	0.00	14.00	14.00	6.13	19.16	3.99	65.09	

(S)=SIGNIFICANT AT 0.05 LEVEL

t(0.05, 59 df) = 2.00

DISCUSSION

Video assisted teaching programme was effective in bringing enhancement of Knowledge of preventive modalities in OPD Patients at Adichunchanagiri Hospital.

RECOMMENDATIONS

O 41	1 1	f findings of	1	- 1 41	C 11			4	1 1	l .1
On the	pasis of	r rindings of i	ne sti	idy the	TOHOW	ing rec	commenda	ations	nave i	neen made:
On the	Cubib Ci	i illianigo or	TIC Ste	act y clic	10110 **	1115 100	Cililitation	ations.	iiu i c i	occii iliaac.

- ☐ A similar study can be replicated on a large sample to generalize the findings.
- ☐ A similar study can be conducted among the health professionals
- ☐ Study can be conducted in community health centers and primary health centers.
- ☐ Comparative study can be conducted between effectiveness of an osteoporosis and its preventive measures.

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