IJCRT.ORG

ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE **RESEARCH THOUGHTS (IJCRT)**

An International Open Access, Peer-reviewed, Refereed Journal

"THE EFFECTIVENESS OF PAMPHLET ON KNOWLEDGE REGARDING PNEUMONIA VACCINATION AMONG ELIGIBLE **COUPLES**"

AUTHOR: Ms Priyanka, Ph.D Scholar, Malwanchal University

Dr. Jitendra Chicholkar, Research Supervisor, Malwanchal University

ABSTRACT

Introduction: Vaccines are known as active immunizing agents. An ideal vaccine should be easy to produce in a well standardized preparation, be easy to administer, not produce disease in the recipient, induce permanent immunity, be free of toxic substances, and have minimal adverse effects.

Method: The research approach used for the study was one group pre-test post-test design. The subjects selected for the study were eligible couple in rural community areas of Balaghat. The sample consisted of 100 eligible couple. The study participants were selected by non-probability convenient sampling technique. With a sample of 10 eligible couple, pilot study was conducted. The reliability co-efficient were calculated to be 0.87. The findings revealed that knowledge scores of the eligible couple were in adequate before the administration of Pamphlet on pneumococcal vaccination. The Pamphlet helped them to update their knowledge on pneumococcal vaccination. The mean post-test knowledge of sample significantly increased after administration of Pamphlet. The data was analyzed by applying Descriptive and Inferential statistics. The results of the study indicated that the eligible couple do not have adequate knowledge on pneumococcal vaccination. This assessment project has helped the investigator to develop an Pamphlet to improve the knowledge on pneumococcal vaccination. The results have also shown that various demographic variable have significant association with respect to the knowledge of eligible couple regarding pneumococcal vaccination.

Keywords: pneumococcal vaccination; knowledge; eligible couple, rural areas.

INTRODUCTION

Vaccination is an effective means of prevention and contributes to reducing childhood mortality, particularly infant mortality due to vaccine preventable diseases. Most of the vaccines are the discoveries of this century. The expanded program of immunization was launched globally by the world health organization.

Pneumonia is the leading cause of mortality and a common cause of morbidity in children below five years of age. In the developing countries pneumonial one kills 3 million children every year. It is responsible for 19% of all deaths in children below five years of age.

NEED FOR THE STUDY:

Pneumococcal infections are a burning and challenging issues for nursing professionals to tackle with the problems. It is very essential that the eligible couple of under-five children must be taught regarding the benefits of vaccination that can help children to be protected from such infections as they are prone to get pneumonia from community or possibly after a cold or flu. Health care provider can teach parents about the color and labeling of the vaccine vial to protect the child from getting vaccines beyond the expiry date and wrong vaccine. Parents of under- five children should be informed that if the child has a community acquired pneumonia, pneumococcal vaccination can be taken to prevent development of serious life threatening complications. Eligible couple should be informed that the Pneumococcal vaccination is only a help to reduce the disease burden but still it's the individual responsibility to take care of children by providing right food and better management of indoor pollution etc. IJCR

STATEMENT OF THE PROBLEM

"A study to assess the effectiveness of Pamphlet regarding the knowledge on pneumococcal vaccination among eligible couple of selected rural community areas of Balaghat. M.P."

OBJECTIVESOFTHESTUDY

- To assess the pre-test knowledge score regarding the pneumococcal vaccination among eligible couple of selected rural community areas of Balaghat. M.P.
- To assess the posttest knowledge score regarding pneumococcal vaccination among eligible couple of selected rural community areas of Balaghat. M.P.
- To compare the pre-test and posttest knowledge score regarding pneumococcal vaccination among eligible couple of selected rural community areas of Balaghat. M.P.
- To find out association between pre-test knowledge score with selected demographic variables regarding knowledge on pneumococcal vaccination among eligible couple of under-five children.

RESEARCHHYPOTHESIS

H₁: There will be a significant difference between the mean pre-test score and post test score on knowledge regarding the pneumococcal vaccination among eligible couple at the level of p \leq 0.05.

H₂: There will be a significant association between the pre test score on knowledge regarding the pneumococcal vaccination among eligible couple with the selected demographic variables

RESEARCHMETHODOLOGY

RESEARCHAPPROACH

An Evaluative approach was used in the study and was considered more appropriate for this study.

RESEARCH DESIGN

In the present study "one group pre-test, post-test design" was selected which is a pre experimental design to measure the effectiveness of pamphlet regarding pneumococcal vaccination among eligible couple of under five children.

VARIABLES UNDER STUDY

1. DEPENDENTVARIABLE:

In this study, knowledge of eligible couple regarding pneumococcal vaccination is the dependent variable.

2. INDEPENDENTVARIABLE:

In this study independent variable is Pamphlet regarding pneumococcal vaccination

3. DEMOGRAPHICVARIABLES:

Age, religion, Educational status of mother, occupation of mother, monthly family income, type of family and previous knowledge regarding pneumococcal vaccination.

SETTING OF THE STUDY

Based on the investigator's familiarity with the setting sand availability of the samples, present study was conducted at selected rural areas of Balaghat..

SAMPLE

In this study, the sample size consists of 100 eligible couple from selected rural areas of Balaghat., who satisfied the inclusion criteria.

SAMPLE SIZE

A sample of 100 eligible couple in selected rural areas of Balaghat..

SAMPLING TECHNIQUE

In the present study non-probability convenient sampling technique was adopted to select the sample.

SAMPLING CRITERIA

Inclusion Criteria

- The eligible couple of present during the data collection period.
- Eligible couple of who are willing to participate.
- Eligible couple who can understand Hindi & English.

Exclusion Criteria

- Eligible couple who are not present at the time of study
- Eligible couple of who are not willing to participate

RESULTS

- Section I:Description of sample characteristics
- Section II: Assessment of knowledge
- Section III: Evaluating effectiveness of Pamphlet
- SectionIV: Association of Pre-test knowledge score with selected demographic variables.



SECTION-I

DEMOGRAPHIC PROFILE OF ELIGIBLE COUPLE

Distribution of samples by their age

N=100

1.Age in years	Frequency	Percentage
a.20-25 years	18	18
b.26-30 years	60	60
c.Above30years	22	22
Total	100	100

Distribution of samples by their Religion

N=100

	2.Religion	Freq	uency	Perce	ntage
	a.Hindu		66	6	6
	b.Muslim		22	2:	2
CA	c.Christian		12	14	2
Ψ.	d.Others		00	0	0
	Total	1	.00	10	00

Distribution of samples according to their Education

N=100

3.Education of Mother	Frequency	Percentage
a.PrimarySchool	12	12
b.SecondarySchool	50	50
c.Pre-universityeducation	26	26
d.Graduation&above	12	12
Total	100	100

Distribution of samples according to mother's occupation

N=100

4.Occupation of Mother	Frequency	Percentage
a.Housewife	34	34
b.Employee(Govt/Private)	26	26
c.Business	22	22
d.Dailywages	18	18
Total	100	100

Distribution of samples according to family monthly income.

N=100

5.FamilyMonthlyIncome	Frequency	Percentage
a.LessthanRs.10,000	38	38
b.Rs <mark>.10,001</mark> -20000	26	26
c.Rs. <mark>20,001</mark> -30,000	20	20
d.Rs.3 <mark>0,001 and above</mark>	16	16
Total	100	100

Distribution of subjects by type of family

N=100

6.Typeof Family	Frequency	Percentage
a.Nuclear	44	44
b.Joint	56	56
Total	100	100

Distribution of subjects by their previous knowledge regarding pneumococcal vaccination

N=100

7.PreviousKnowledge	Frequency	Percentage
a.Yes	06	06
b.No	94	94
Total	100	100

Distribution of samples according to source of information.

N=100

8.Source of information	Frequency	Percentage
a.Family members	06	06
b.Friends	26	26
c.Television	36	36
d.Newspaper	32	32
Total	100	100

SECTION-II

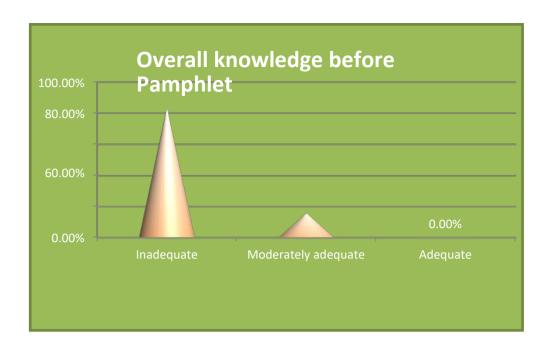
ASSESSMENT OF KNOWLEDGE ON PNEUMOCOCCAL VACCINATIONAMONG ELIGIBLE COUPLE OFUNDER FIVECHILDRENBEFOREPAMPHLET

SlNo	Kno <mark>wledge</mark>	Max	pos	sible	Mean	SD	MeanScore
4		S	cor	e			%
1.	Pneumococcal vaccination						
			25		11.5	1.47	46%

The summary of statistical outcomes of analysis, the mean knowledge regarding pneumococcal vaccination among eligible couple of under five children was 11.5 and SD 1.47 before Pamphlet. The mean score percentage was computed and it was found to be 46%. From the results it was found that the sample subjects were having inadequate knowledge regarding pneumococcal vaccination.

OVERALL KNOWLEDGE OF ELIGIBLE COUPLE REGARDING PNEUMOCOCCAL VACCINATION BEFORE THE ADMINISTRATION OF PAMPHLET

Sl.No	Overalllevelof	Frequency	%
	Knowledge		
1	Inadequate	84	84%
2	Moderatelyadequate	16	16%
3	Adequate	-	-

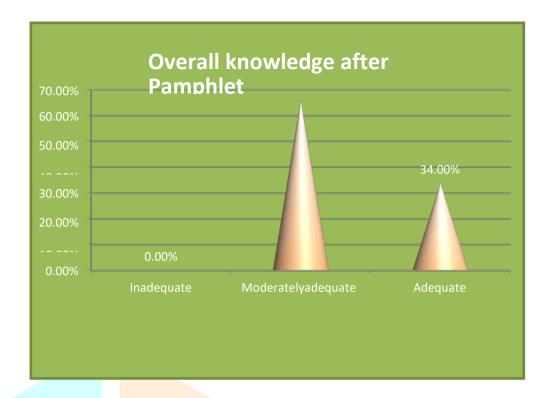


ASSESSMENT OF KNOWLEDGE REGARDING PNEUMOCOCCAL VACCINATION ELIGIBLE COUPLE AFTER PAMPHLET

ď	Sl.	Knowle <mark>dge</mark>	Max <mark>.possibl</mark> e	Mean	SD	MeanScore
	No.		Score		-	
		Pneumoc <mark>occal</mark>				
	1	Vaccination	25	21.5	1.23	86%

OVERALL KNOWLEDGE REGARDING PNEUMOCOCCAL VACCINATION AMONG ELIGIBLE COUPLE AFTER PAMPHLET

SlNo	Overall level of knowledge	Frequency	%
1	Inadequate	1	1
2	Moderately adequate.	66	66%
3	Adequate	34	34%



SECTION-III

EVALUATING THE EFFECTIVENESS OF PAMPHLET BY COMPARING THE PRE-TEST AND POST-TEST KNOWLEDGE SCORE

Parameter	Mean	S.D	Mean%	t-value	Result
Pre-test	11.5	1.47	46%	21.56*	SigP<0.05
Post-test	21.5	1.23	86%		
Improvement	10.00	0.24	40%		

The mean score is increased in the post test. The mean in the posttest is 21.5 where as the mean in the pre-test is 11.5. The variation is decreased in post-test when compared to pre-test. SD in the post-test is 1.23 and in the pre-test is 1.47. The mean improvement is 10.00. Though it was seen that the post-test knowledge score was more than the pre-test knowledge score, it is essential to put it under statistical significance. So suitably the paired 't'-test was chosen and worked out. The calculated t-value is 21.56 which are highly significant.



SECTION-IV

ASSOCIATION BETWEEN THE DEMOGRAPHIC VARIABLES AND PRE-TEST KNOWLEDGE AMONG ELIGIBLE COUPLE REGARDING PNEUMOCOCCAL VACCINATION

	Median	<mark>Tota</mark> lFreque				
Below	andabov	ncy(100)	Chisqua	Df	Pvalue(0.	Inference
Median	e		re	05)		
					3	
02	00	02		7		
58	16	74	8. <mark>799</mark>	2	5.99	S
10	14	24				
3					/.0	10
36	30	66			12	
12	10	22				
08	04	12	3.921	3	7.82	NS
00	00	00				
08	04	12				
18	22	40				
16	20	36	8.799 3		7.82	S
04	08	12				
08	06	14				
18	02	20				
	02 58 10 36 12 08 00 08 18 16 04	Below Median andabov e 02 00 58 16 10 14 36 30 12 10 08 04 00 00 08 04 18 22 16 20 04 08 08 06	Below Median andabov e ncy(100) 02 00 02 58 16 74 10 14 24 36 30 66 12 10 22 08 04 12 00 00 00 08 04 12 18 22 40 16 20 36 04 08 12 08 06 14	Median e re 02 00 02 58 16 74 8.799 10 14 24 8.799 36 30 66 66 12 10 22 3.921 08 04 12 3.921 08 04 12 8.799 16 20 36 8.799 04 08 12 08 06 14	Below Median andabov e ncy(100) Chisqua re Df 02 00 02 8.799 2 58 16 74 8.799 2 10 14 24 3.799 2 36 30 66 3.921 3 12 10 22 3.921 3 08 04 12 3.921 3 16 20 36 8.799 3 04 08 12 8.799 3	Below Median andabov e ncy(100) Chisqua re Df Pvalue(0.05) 02 00 02 8.799 2 5.99 10 14 24 8.799 2 5.99 36 30 66 7 7.82

ate)				4.315	3	7.82	NS
c.Business	14	18	46				
d.Dailywager	20	00	20				



			1			1	
5.FamilyMonthlyIncome							
a.LessthanRs.10,000	12	10	22				
b.Rs.10,001-20,000	14	16	30	6.159	3	7.82	NS
c.Rs.20,001-30,000	12	14	26				
d.Rs.30,001 and above	14	08	22				
6.Typeof Family							
a.Nuclear	24	22	46	4.159 1	3.84	S	
b.Joint	26	28	54				
7.Previousknowledge							
a.Yes	18	28	46	8.63	1	3.84	S
b.No	16	38	54	0.03	1	3.01	٥
8. Sourceof information							
a.Familymembers	08	14	22				
b.Friends	16	14	30	9.31	3	7.82	S
c.Television	12	14	26				

Summary: According to the hypothesis of the study, the investigator found that there is significant association between pre-test knowledge score and selected demographic variables hence hypothesis is accepted.

BIBLIOGRAPHY

- Op, Ghai; Vinod k paul, 7th edition "Essential Pediatrics": CBS publishers; 2009Pp 175 76.
- Adele Pillitteri, 6th edition "Textbook of maternal and child health nursing": 2006Pp 992 93.
- 3. J.ViswanathanA.B.Desai,3rdedition"Achaarstextbookofpediatrics":OrientLongmanPrivateLtd.; 2000 Pp - 8 - 9
- Ghai, 6th edition "Ghai's essential pediatrics": CBSP ublishers and Distributers; 2007. Pp 198 99
- Thompson et al: "Mosby's Clinical Nursing": Mosby publications; 4th edition; Pp –1081
- Andree Hest et al; "Efficacy of 7-valent Pneumococcal Vaccine among Children of AgeGroup 3-36 months": 2000; U.S.A
- Nasopharyngeal 7. Coles CL al; "Pneumococcal colonization in young South Indianinfants"; pediatricsInfectiousJournal 2011; page no:289-295
- 8. CherianThomas; "Initiativeofvaccineresearch; Immunization; vaccinesandBiologicals"; WHO20; Avenueappia; Switzerland
- HealthyTurkish 9. ErcanTEetal; "ToEvaluatetheEffectivenessofPneumococcalConjugateVaccinein Children";2011; Turkey
- 10. FelicityTCuttsetal; "EfficacyofNine-valentPCVAgainstPneumoniaandInvasivePneumococcalDiseases inGambia";2005; Gambia
- 11. FrenckRJr; "ImmunogenicityandSafetyof13-valentPneumococcalConjugateVaccineAmongUnderfiveChildren";2011; U.S.A
- 12. Global Health Observatory; "Causes of Child Mortality for The Year 2008"; WHO2011
- 13. HopeLJohnsonetal: "SystematicEvaluationofSerotypesCausingInvasivePneumococcalDiseasesamongchildre nunder-five:ThePneumococcalGlobalSerotypeProject"; PLoS Medicine;2010