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RESEARCH ARTICLE

EFFICACY OF SELF INSTRUCTIONAL MODULE (SIM) ON KNOWLEDGE OF MOTHERS REGARDING PREVENTION OF WORM INFESTATION AMONG SCHOOL CHILDREN.

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Key words:-

Infestation, School Children, Helminthes.

Abstract

Background: Invasion of humans by worms, or worm Infestation is a worldwide public health problem. One third of the world's population is infected with one or more species of intestinal helminthes. Aim: Primary objective of the study was to assess the efficacy of Self Instructional Module (SIM) on knowledge of mothers regarding prevention of worm infestation among school children aged 6-12 yr, at Panthal, District Reasi, J & K. Secondary objective was to find the association between pre-test knowledge score of mothers with their selected demographic variables. Methods: A quantitative research approach was used and data was collected from 50 mothers with purposive sampling technique. Self instructional module was prepared and structured questionnaire was used to collect the data from the selected samples. **Result**: The Mean \pm SD pre-test score (9.02 \pm 3.298) of knowledge of mothers was lesser than the Mean ±SD post-test score (15.92± 4.134). The calculated 'z' value of 9.23 was found to be statistically significant at 0.05 level of significance. Conclusion: SIM was found to be very effective to improve knowledge of mothers regarding worm infestation in school children. It was inferred from the study that only mother's age, education and latrine facility in the house were associated with the knowledge of mothers.

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Introduction:-

Childhood holds a very important place in the life of every human being. Children are tomorrow's citizens. Worm infestation is a major public health problem in children of developing countries because of poor socio-economic conditions and lack of good hygienic livings.

Two billion people worldwide and 400 million school-age children are affected by parasitic worms. 300 million of those infected suffer severe illness, and over 150,000 die annually. WHO recommends annual treatment in areas where prevalence rate of soil-transmitted helminthiases is between 20% and 50%, and, a bi-annual treatment in areas with prevalence rates of over 50.

Worm infestation is the infection of intestinal tract with any of several species of helminthes or parasitic worms, including Ascaris (Round worm), Entrobius (Pin worm), Trichinella spiralis and various species of Cestodes (Tape

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worm). Round worm enter the body through contaminated food and drinking water, the tape worm on the other hand through raw or uncooked meat and also through the faecal matter. Hookworm enters the body through when one walks with bare foot on an infected land. Worms infestation is one of the major causes of childhood malnutrition, anaemia, stunted physical and mental growth, psycho-social problems. It also causes recurrent gastrointestinal and upper respiratory tract infection contributing to high morbidity and mortality in children. The World Health Organization estimates that over one billion of the world's population is chronically infested with soil transmitted helminthes. Worm infestation remains one of the main problems of child development.

Material And Methods:-

A quantitative research approach was used to assess the efficacy of Self Instructional Module (SIM) on knowledge of mothers regarding prevention of worm infestation among school children aged 6-12 yrs. The research design adopted for the study was Non-experimental research design. The target population for the study was mothers of school going children at Village Panthal, Jammu & Kashmir. 50 mothers of school going children were selected with purposive sampling technique for the present study. A self instructional module was prepared and structured questionnaire was used to collect the data from the selected samples. Tool consisted of two parts including selected demographic variables of mothers and 25 questions to assess knowledge of mothers regarding prevention of worm infestation in school children. For each correct answer score '1' was given and for the wrong answer score was '0'.

S. No.	Level of knowledge	Score
1.	Adequate	21-25
2.	Moderate	8-20
3.	Inadequate	0-7

Analysis was done by using descriptive measures (frequency and percentage, Mean and Standard deviation) and inferential statistics by Chi-square. 'z'-value was calculated to determine the difference in pre test and post test knowledge score of mothers.

Result:Demographic variable description

Table 1:-Frequency and percentage distribution of mothers according to demographic variables.

Demographic va	N	%	
	<25 yrs	2	4
Age of mother	26-30 yrs	18	36
	31-35 yrs	16	32
	>35 yrs	14	28
Education of mother	Illiterate	5	10
	Primary	17	34
	Matriculate	19	38
	Graduate	9	18
Occupation of mother	Private job	3	6
	Govt. job	7	14
	Self working	14	28
	Housewife	26	52
Number of school children in	1	7	14
the family	2	16	32
	3	18	36
	>3	9	18
Dietary pattern	Vegetarian	28	56
	Non- Vegetarian	22	44
Latrine facility	Indoor	34	68
	Outdoor	16	32
Pet animal in house	Yes	22	44
	No	26	52

Comparison Of Mean, Pre Test And Post Test Knowledge Scores Of Mothers

Table 2:-Comparison of mean, pre and post test scores

Knowledge	Mean	SD	SE	'Z'	Inference	
Scores				Calculated Value	Table Value	
Pre Test	9.02	3.298				
Post Test	15.92	4.134	0.747	9.23	2.0	S*

*Significant at p-value < 0.05

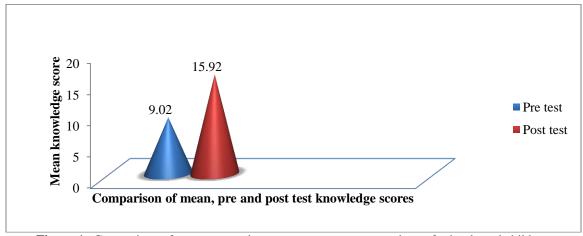


Figure 1:-Comparison of mean, pre and post test scores among mothers of school aged children

The data presented in the table no. 2 and figure no. 1 depicts that the Mean \pm SD pre-test score (9.02 \pm 3.298) of knowledge of mothers was lesser than the Mean \pm SD post-test score (15.92 \pm 4.134). The calculated 'z' value of 9.23 was found to be statistically significant at 0.05 level of significance. Therefore it can be interpreted that there was significant difference between pre test and post test knowledge score of mothers regarding prevention of worm infestation among school children aged 6-12 years.

Association Between Demographic Variables And Knowledge of Mothers

Table 3:-Association between selected demographic variables and knowledge of mothers

Demographic variables		Level of knowledge			df	Table	Chi	Inference
		Adequate	Moderate	Inadequate		value	calculated	
							value	
	<25 yrs	0	0	2	6	12.59	21.854	S*
Age of	26-30 yrs	0	1	17				
mother	31-35 yrs	2	7	7				
	>35 yrs	0	10	4				
Education of	Illiterate	0	5	0	6	12.59	16.436	S*
mother	Primary	2	7	8				
	Matriculate	0	4	15				
	Graduate	0	2	7				
Occupation	Private job	0	1	2	6	12.59	7.433	NS
of mother	Govt. job	1	1	5				
	Self	1	3	10				
	working							
	Housewife	0	13	13				
Number of	1	0	3	4	6	12.59	8.257	NS
school	2	0	4	12				
children in	3	2	5	11				
the family	>3	0	6	3				
Dietary	Vegetarian	2	10	16	2	5.99	5.115	NS

pattern	Non-	0	8	14				
	Vegetarian							
Latrine	Indoor	2	16	16	2	5.99	6.605	S*
facility	Outdoor	0	2	14				
Pet animal	Yes	1	7	14	2	5.99	0.470	NS
in house	No	1	11	16				

(P=0.05) NS-Non Significance, df-degree of freedom, S*-Significance

Table no.3 depicts that at 5% level of significance, selected demographic variables i.e., age of the mother, education of the mother and latrine facility in the house, were found significantly associated with the knowledge of mothers regarding prevention of worm infestation among school children aged 6-12 years.

Discussion:-

The data collected were grouped and analyzed by using descriptive and inferential statistical methods. Tables and figures were used to explain the demographic variables and knowledge of mothers of school children aged 6-12 years. Result revealed that majority of mothers were in the age group of 26-30 years (36%) and were matriculate (38%) in education. 52% of mothers were housewife and 36% were having 3 school children in the family. Majority of mothers were vegetarian (56%) and had indoor latrine facility (68%) in the house. 52% of mothers were not having any pet animal in the house.

The Mean \pm SD pre-test score (9.02 \pm 3.298) of knowledge of mothers was lesser than the Mean \pm SD post-test score (15.92 \pm 4.134). The calculated 'z' value of 9.23 was found to be statistically significant at 0.05 level of significance. Therefore it can be interpreted that there was significant difference between pre test and post test knowledge score of mothers regarding prevention of worm infestation among school children aged 6-12 years. It was found that there was statistically significant association between the pre test knowledge scores and demographic variables of mother's i.e., Age, Education and Latrine facility in the house.

Conclusion:-

The major conclusion of the study drawn on the basis of the findings of the study was that there was significant difference between pre test and post test knowledge scores of mothers. It is concluded that SIM was found to be very effective to improve knowledge of mothers regarding prevention of worm infestation in school children. It was inferred that only mother's age, education and latrine facility in the house were associated with the knowledge of mothers.

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