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Journ	al of Po	IGINAL RESEARCH PAPER	Paediatrics					
Lepus Par	KNC AMO CHI HEL	DWLEDGE, ATTITUDE AND PRACTICE (KAP) DNG PARENTS OF 3-15-YEAR-OLD LDREN ON SOIL-TRANSMITTED MINTHIASIS (STH) AND ITS PREVENTION	KEY WORDS: soil- transmitted helminthiasis, knowledge, attitude, practice					
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In an pr a G M in Kr GC A S I S I S I S I S I S I S I S I S I S	troduction: Soil-tra temia and under-nu nual deworming the actices are suboptin questionnaire and to tethods: A school-ba the Kanyakumari d elminthic infection, a nowledge considere bod (>5/6), poor (<5, d their knowledge, a	nsmitted helminthiasis (STH) are known to have detrimental trition. To control STH, the Government of India has launcher rough Anemia Mukt Bharat in children and adolescents. How hal in the community. Objective: To assess the KAP among parts of determine its association with socio-demographic factors of ased study from May 2022 to August 2022 included 118 parents istrict. A pre-structured validated questionnaire was used to attitude, and practices to prevent STH among the parents and d adequate (>7/14), inadequate (<7/14); attitude - positive (> %6). Data was analysed and association was noted between pare ttitude & practice. Result: 74 (62.5%) parents of 3-15-year-old	l effects on child's growth causing d national deworming day and bi- wever, the awareness, attitude and ents of 3-15-year-old children using f parents of 3-15-year-old children. s of 3-15-year-old children residing b assess the knowledge regarding d their socio-demographic factors. 4/8), negative (<4/8) and practice - ents socio-demographic characters l children had adequate knowledge					

and 109 (92.5%) had good practices whereas 102 (86.5%) had a negative attitude. Mother's age, education, occupation was statistically significant with the knowledge of STH and its prevention (p<0.05) and father's age, education, occupation and socio-economic status was statistically significant with the KAP of STH and its prevention among parents of 3-15-year-old children (p<0.05). Conclusion: Knowledge and practice domains were adequate/good among the parents but majority had a negative attitude regarding STH and its prevalence. Among the socio-demographic factors, mother's characteristics were associated mainly with knowledge and the father's with KAP. These observations are key factors in hindering the reduction of prevalence of STH, despite the existing national programmes. Hence, utilisation of more receptive social media and direct interaction with parents of target population by teachers and primary health care are recommended.

INTRODUCTION:

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Soil-transmitted helminthiasis (STH) are known to have detrimental effects on children's physical growth and wellbeing and can cause anemia and under-nutrition. Despite various existing programmes to prevent STH, there are lacunae in the effective coverage of these programmes (1) and no substantial reduction in the STH (2). Also, there is an alarming increase in the prevalence of anemia in children in TamilNadu from 50.7%(NFHS-4) to 57.4%(NFHS-5) (3). To enable effective STH control measures, awareness to both the disease, and its prevention are critical. However, little is known of the awareness, attitude and practices of parents/caregivers of children on deworming for STH infections in our setting.

METHODS:

A descriptive cross-sectional study was conducted among the parents of 3-15-year-old children residing in the Kanyakumari district. Based on the index study (4), the sample size was calculated to be 118. A purposive sampling technique was applied. Inclusion criteria: Being a 3-15-year-old child's father or mother dwelling in the pre-determined area. Exclusion criteria: Parents of 3-15-year-old children who did not give consent. Data were collected from May 2022 to August 2022.

DATA-COLLECTIONTOOL:

A pre-structured questionnaire containing preface, informed

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consent and questions including multiple choice questions, semi-open and open-ended questions was designed in English, translated to local language (Tamil and Malayalam), validated by experts from other departments- paediatrics, community medicine and general medicine and piloted on 20 parents of SAC attending the OPD in the investigator's presence. Few fallacies were noticed, necessary changes made and the modified questionnaire was retested and ensured whether easy to comprehend until no further queries had to be addressed.

Section 1-Preface, Consent, Demographic details - including age, gender, educational qualifications, occupation of parents and monthly family income, housing conditions, sanitation & hvgiene.

Section 2 - Questions aimed to assess the knowledge regarding helminthic infection, attitude and practices to prevent infection and its ill effects.

Data collection was by approaching parents at a private school in the locality during the school PTA meet. All information concerning the purpose and objective of the study explained and brief details on how to fill the questionnaire was given. Those who agreed to participate were requested to sign the informed consent form and fill the questionnaire at their leisure and return the filled forms to the teacher by the next working day. The contact number of the

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principal investigator was enclosed in each questionnaire to address any queries.

OPERATIONAL DEFINITIONS:

Knowledge: Information/familiarity or comprehension that the target population has about STH and its preventive aspects

Attitude:

Attitude is the way of thinking or opinion on STH infections and its preventive measures.

Practice:

Ways in which people demonstrate their knowledge and attitudes through their actions like sanitation & hygiene practices Modified Kuppusamy Scale 2021 was used for assessing the socio-economic status. Section - Knowledge consisted of 14, attitude 8, and practice 6 questions. For each correct response, a score of "1" and "0" score for each wrong or don't know response. Knowledge score was arbitrarily classified as adequate (>7/14) and inadequate knowledge (<7/14), attitude into positive (>4/8) and negative attitude (<4/8) and practice as good (>5/6) and poor practices (<5/6) (4).

Statistical Analysis:

To ensure the quality of the data, completed questionnaires were manually checked before tabulation in Microsoft Excel 2019, analyzed using Statistical Software (SPSS) version 20.0. Descriptive statistics (frequencies, percentages, etc.) and cross-tabulations and chi-square tests were performed to determine significant relationships between categorical dependent and independent variables.

Ethical Considerations:

All procedures were performed in accordance with the Institutional Research Ethics and formal ethical approval was granted.

RESULTS:

Table 1 – Questionnaire to assess KAP among parents	n	%						
Knowledge								
Are you familiar with STH? Yes No	82 36	69.5 30.5						
How did you know about STH? Hospital/Health Centre Family and friends TV/Radio Classes/Lectures Social Media (Facebook, Watsapp, Youtube, Instagram) Others	43 5 0 16 32 0	36.5 4 0 13.5 27 0						
How does this infection spread? Improper handwashing Undercooked food Unhygienic water Contaminated food Barefoot walking Ingesting infected meat Food contaminated by flies Others	104 96 87 101 89 80 90 0	88 81.5 73.5 85.5 75.5 68 76 0						
What are the clinical symptoms of STH? Abdominal pain Loose stools Perianal itching Retarded growth Anemia Persistent cough Eosinophilia	101 105 75 75 64 45 34	85.5 89 63.5 64 54 38 29						

Do all need investigations before		
starting treatment?	01	10
Ies	21	18
No Den't Imerry	10	14 o
	10	0
Are you familiar with periodic		
deworming?		
Yes	88	74.5
No	30	25.5
How did you know about periodic		
deworming?		
Hospital/Health Centre	70	59
Family and friends	5	4
TV/Radio	0	0
Classes/Lectures	17	14
Social Media (Facebook, Watsapp,		
Youtube, Instagram)	37	31
Others	0	0
Is there a national programme for		
deworming?		
Yes	80	68
No	38	32
What are the drugs used for		
deworming?		
Albendazole	110	93
Mebendazole	5	4
Pyrantel pamoate	0	0
Others (tonics, antibiotics)	30	25
Don't know	8	6.8
	-	
What are the available preparations of		
deworming medicines?		
Syrup	34	29
Tablet	17	14.5
Both	67	56.5
Both Attitude	67	56.5
Both Attitude Is STH a seasonal issue?	67	56.5
Both Attitude Is STH a seasonal issue? Yes	40	34
Both Attitude Is STH a seasonal issue? Yes No	67 40 78	34 66
Both Attitude Is STH a seasonal issue? Yes No	40 78	34 66
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing	40 78	34 66 96 5
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking	67 40 78 114	56.5 34 66 96.5 93.2
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks	40 78 114 110	56.5 34 66 96.5 93.2
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal	40 78 114 110 80	56.5 34 66 96.5 93.2 68
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil	40 78 114 110 80 50	56.5 34 66 96.5 93.2 68 41
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails	40 78 114 110 80 50 52	56.5 34 66 96.5 93.2 68 41 44
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails Proper waste disposal	40 78 114 110 80 50 52 81	56.5 34 66 96.5 93.2 68 41 44 69
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails Proper waste disposal	40 78 114 110 80 50 52 81	56.5 34 66 96.5 93.2 68 41 44 69
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails Proper waste disposal Why is periodic deworming of children	40 78 114 110 80 50 52 81	56.5 34 66 96.5 93.2 68 41 44 69
Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails Proper waste disposal Why is periodic deworming of children difficult?	40 78 114 110 80 50 52 81	56.5 34 66 96.5 93.2 68 41 44 69
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Both Attitude Is STH a seasonal issue? Yes No What are the measures to prevent STH? Proper handwashing Barefoot walking Hand hygiene of the person who cooks meal Habit of playing with soil Unclean or untrimmed nails Proper waste disposal Why is periodic deworming of children difficult? Expensive Difficulty in procuring the drug	40 78 114 110 80 50 52 81 222 21	56.5 34 66 96.5 93.2 68 41 44 69 19 18
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	Which is the best treatment							
	medication?	00						
	Drugs given from school	36		30				
	Doctor prescribed drug	65	21 55					
	Indigenous medicine	3.5						
	Δ <i>σ</i> roo		C++	ongl	Digo	Noit	Stro	
	Agree		SU V	ongi	orree	her	na	
			dis	agre	9100	agr	ly	
			е	5		ee	agr	
					or	ee		
					disa			
						gre		
	Is STH a serious health infec	tion in	5(4)		0(0)	34	10(
	children?		0(.,	0(0)	(30)	8.5)	
	Worms are part of natural flo	ora in	22		16(1	39(0(0)	
	the intestines		(18	3.5)	3.5)	33)		
	Deworming might adversely	y affect	30	(25)	12(1	48(0(0)	
	the symbiosis of the natural				0)	41)		
	Intestinal flora	2	0/0))	0(0)	291	18(
	children	-		"	0(0)	24)	16)	
	Deworming makes children	sick	38	(32)	17(1	24(0(0)	
	and should not be encourag	ſed			4)	20)		
	Deworming helps to preven	t	5(4	l)	12(1	30(0(0)	
	malnutrition in preschool ch	uldren			0)	25)		
	Deworming helps to preven	t	5(4	ł)	16(1	30(10(
	growth retardation in presch	nool			3.5)	25.	8.5)	
	Children	o in	5(/		21/2	5) 24(0(0)	
	preschool children	a III	5(4	•)	6)	24(20)	0(0)	
	Practice				•)			
	Does everyone at home practice	ctice?						
	Follow proper handwashing		11	3	100			
	Washing fruits and vegetabl							
	before cooking or consump	110	0	93.2				
	Covering food utensils using	g lids to	11	1	96.6			
	Prefer open air defecation	118	3	100				
	Using chappal/slippers		11	4	96.6			
	At what age did you start							
	deworming your child?				70			
	Less than 2 years More than 2 years	32		13 27				
	When were your shild down	m o d						
	last?	mea						
	<6 months back		27		23			
	>6 months	73		62				
	Not done		18		15			
	Where did you obtain the la	st						
	deworming treatment?							
	GH/PHC		62		52.5			
	During vaccination visits		4		3			
	As per doctor's advice on O	0		0				
	basis/admission for other il	25		21				
	Over the counter from hear	ру	16		13.5			
	I have never dewormed my	18		15				
	Do adults in your home dew	orm						
	simultaneously when kids a	re						
	dewormed?				04 -			
	res		41		34.5 62.5			
	110		11		04.0			
	Were any siblings diagnose	d with						
	helminthiasis and treated?							
	Yes		4	1	3			

Among 118 participants, M:F ratio was 1.18. The mean age of their children was 5.8 years. Mean age of fathers was 38 years and mean age of mothers was 33 years. Almost all parents had at least primary school education (Table 2).

17 (14.5%) belonged to upper-middle class, 43 (36.5%) lower-middle and 58 (49%) upper-lower class. The source of drinking water was well water in 65 (55%), corporation/municipal tap water in 48 (41%) and community well in 5 (41%). Sanitary latrine was available for 114 (96.6%). Solid waste disposal was mainly through municipal corporation scavengers 81 (68.5%), followed by burning 33 (28%) and composting 4 (3.5%).

43 (36.5%) knew about STH and 70 (59%) knew about periodic deworming through doctors at hospital/health centre, followed by 32 (27%) about STH and 37 (31%) about deworming through social media (facebook, whatsapp, youtube, instagram, etc) and TV/Radio was not a source for any of them. (Table 1).

38 (32%) did not know that a national programme for deworming existed. Only 25 (21%) rightly knew that children need to be dewormed every 6-monthly. 74 (62.5%) parents of 3-15-year-old children had adequate knowledge compared to 44 (37.5%) had inadequate knowledge.

40 (34%) had an attitude that STH is a seasonal issue and 16 (13.5%) felt it was a factor affecting the effectiveness of deworming. 41 (35%) thought worms are a normal part of flora and 29 (24%) thought that deworming will adversely affect the symbiosis of the natural intestinal flora. 65 (55%) thought that home remedies are the best treatment for worm infestation.

17 (14.5%) of them believed that deworming medications were only available in tablet formulation. The difficulty in following periodic deworming was majorly attributed to the difficulty in swallowing the tablet by 58 (49%), whereas 22 (19%) thought it was expensive. 16 (13.5%) parents had positive attitude and 102 (86.5%) had negative attitude.

109 (92.5%) had good practice whereas 9 (7.5%) had poor practices. 18 (15%) have never dewormed their children. Only 41 (34,5%) of families had the habit of all adults in the family deworming simultaneously along with their children.

Mother's age, education, occupation was statistically significant to the knowledge of STH and its prevention among parents of 3-15-year-old children (p<0.05). Father's age, education, occupation and socio-economic status was statistically significant to the KAP on STH and its prevention among parents of 3-15-year-old children (p<0.05) (Table 2).

DISCUSSION:

Though, many studies (5,6) correlate the high prevalence rate of the parasitic infection to poor knowledge on STH. In our study, attitude was the most affected compared to knowledge and practice.

Most knew about STH and deworming. Only 25 (21%) rightly knew that children need to be dewormed every 6-monthly. Notably none of them became aware through TV/radio. There is a changing trend in media use, most spend more time on social media. It is also noteworthy that most parents had at least primary education i.e., none were illiterate.

Hence, increasing awareness through social media by utilising the GOI health care apps – "Aarogya Setu" in smartphones and by increasing person-to-person interaction by involving anganwadi/school teachers and ASHA workers to reinforce parents about the STH and its prevention will be an effective way to intensify the awareness on STH.

Table 2 - Basic socio	-den	nograpł	uic data of p	articipants, th	eir knowl	edge, attitı	ıde and pra	ctice of S	STH and it	s preven	tion and
p value											
	n	%	Knowledg	e	р	Attitude		р	Practice		p
			Adequate	Inadequate		Positive	Negative		Good	Poor	
Father's Age					0.029*			0.001*			0.007*
26-30	20	17	12	8		0	20		20	0	
31-35	27	23	22	5		4	23		22	5	
36-40	31	26	18	13		12	19		31	0	
41-45	19	16	14	5		0	19		19	0	
46-50	21	18	8	13		0	21		17	4	
Father's Education					0.009*			0.001*			0.021*
Primary school	28	24	24	4		0	28		28	0	
Middle school	18	15	9	9		4	14		18	0	
High school	34	29	21	13		4	30		29	5	
Diploma	21	18	8	13		8	13		17	4	
Graduate	17	14	12	5		0	17		17	0	
Profession	0	0	0	0		0	0		0	0	
Father's Occupation					0.011*			0.001*			0.001*
Unemployed	0	0	0	0		0	0		0	0	
Unskilled	76	64.5	45	31		4	72		72	4	
Semi-skilled	12	10	8	4		8	4		12	0	
Skilled	4	3.5	0	4		0	4		4	0	
Clerks	4	3.5	4	0		4	0		4	0	
Technicians	17	14.5	12	5		0	17		17	0	
Professionals	5	4	5	0		0	5		0	5	
Mothor's Ago					0 200			0.002*			0.002*
26 30	16	125	8	8	0.000	0	15	0.002	16	0	0.002
21.25	20	13.5	16	4		0	10		20	0	
26.40	20	22	24	14		0	24		20	5	
41 45	20	24	10	10		4	24		20	0	
41-45	16	125	10	8		4 0	16		12	1	
Matharia Taluastian	10	10.0	0	0	0.001*		10	0.000	10	-	0.040
Mother's Education	1.0	1.0	10		0.001^		1.0	0.396	1.0		0.048
Primary school	15	13	15	0		0	15		15	0	
Wilddle school	21	23	9	18		4	23		21	0	
High school	24	20	12	12		4	20		20	4	
Diploma	16	14	12	4		4	12		16	0	
Graduate	51	20	20	5		4	6		20	5	
Profession	5	4	0	5		0	5		5	0	
Mother's					0.001*			0.325			0.414
Occupation	~		1.5								
Unemployed	84	171	45	39		12	72		75	9	
Unskilled	0	0	0	0		0	0		0	0	
Semi-skilled	5	4	5	0		0	5		5	0	
Skilled	8	1	8	8		0	8		8	0	
Clerks	5	4	0	5		0	5		5	0	
Technicians	0	0	0	0		0	0		0	0	
Professionals	16	14	16	0	0.001/#	4	12	0.001.4	16	0	0.001.4
Socio-economic					0.001*			0.001*			0.001*
CidSS Uppor (I)	0		0	0			0			0	
Upper (I)	17		17				17		10		
opper-initiatie (II)	11	14.0	16	07		10	21		20	3	
Lower-Ivildale (III)	43	30.5	10	17		14	51		59	4	
upper-lower (IV)	20	49	41	11		4	04		58		
	0	0	U	U		0	0	1	U	U	

Despite good practice and knowledge, there is no substantial reduction in STH. Some usually correlate it with poverty, poor environmental and personal hygiene, and insufficient health services (7). In our study, majority had proper waste disposal methods, sanitary latrine facility and good personal hygiene. But most used was well water, which does not undergo any filtration, purification and disinfection which could be a factor for high prevalence (8,9,10).

Some misconceptions that home remedies are the best effective treatment, syrup formulations are not available and belief that worms are part of normal flora & deworming causes disruption of this flora were all factors hindering the reduction of STH prevalence and reflected the negative attitude of parents of 3-15-year-old children. This suggests the need to create awareness and refine the attitude of parents in order to break the vicious cycle.

But parents are less receptive during consultations for illness, since their primary concern would be ailment. Hence, emphasise about deworming at immunisation/wellness clinics in order to improve their attitude. In fact, the deworming drugs are available free of cost, easy-to-access.

In order to tackle STH, a major public health problem, the Government of India has taken up multiple initiatives -National deworming day (since 2015) and Anemia Mukt Bharat (since 2018) as part of the National Iron Plus Initiative (NIPI) Program, which mandates bi-annual deworming in children and adolescents. In fact, Ahamed et al (11) in 2020 analysed that none of 1150 participants were aware of National Deworming Day in India similar to our study which indicates the lack of reach among the parents of the target population. To ensure whether every child got the deworming dose and IFA tablets, proper documentation in the Mother and

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Child Protection (MCP) Card - health card should be made mandatory.

CONCLUSION:

Among the socio-demographic factors, mother's characteristics were associated mainly with knowledge and the father's with knowledge, attitude and practice and the negative attitude of parents towards prevention of STH hinders the effectiveness of existing national programmes targeting to reduce the prevalence of STH. Utilisation of a more receptive media like social media - GOI's health care apps and direct interaction with the parents of the target population by anganwadi/school teachers and primary health care should be encouraged to create an attitude change.

Limitations:

- Sample size inadequate for generalisation
- Single centered study

REFERENCES:

- Montresor A, Mupfasoni D, Mikhailov A, Mwinzi P, Lucianez A, Jamsheed M, et al. (2020) The global progress of soil-transmitted helminthiases control in 2020 and World Health Organization targets for 2030. PLoS Negl Trop Dis 14(8):e0008505.
- Press Information Bureau Government of India. Ministry of Health and Family Welfare: Evidence-based impact of National Deworming Day in India. Accessed on May 01,2022.
- International Institute of Population Sciences (IIPS) and ICF.2021. National Family Health Survey (NFHS-5), India, 2019-2021: TamilNadu.
- Mohd R, Malik I (2017) Sanitation and Hygiene Knowledge, Attitude and Practices in Urban Setting of Bangalore: A Cross-Sectional Study. J Community Med Health Educ 7:540.
- Dhanuraja Y, Vijayakarthikeyan M, Krishnakumar J. Assessment of deworming practice among mothers of under five children in Kancheepuram district. Int J Community Med Public Health 2018;5:2580-4.
- Sujan MSH, Islam MS, Naher S, Banik R and Gozal D (2020) Predictors Associated With Knowledge and Practice of Helminthic Infection Prevention Among Rural School-Aged Children's Parents in Bangladesh: A Cross-Sectional Study.Front.Public Health 8:484
- Mukutmoni M, Khanum H. Prevalence and risk factors of intestinal Helminthiasis among the children of Begun Bari slum, Tejgaon, Dhaka. Bangladesh JZool. (2018) 45:123–9.
- World Health Organization. Soil-Transmitted Helminth Infections. (2020). Retrieved from: https://www.who.int/news-room/fact-sheets/detail/ soiltransmitted-helminth-infections (accessed May 01,2022)
- de Silva NR, Brooker S, Hotez PJ, Montresor A, Engels D, Savioli L. Soiltransmitted helminth infections: updating the global picture. Trends Parasitol. 2003; 19(12):547–51.
- Parija SC, Chidambaram M, Mandal J. Epidemiology and clinical features of soil-transmitted helminths. Trop Parasitol 2017;7:81-85.
- Ahmad I, Rather AA, Rashid B, Bhat IUA, Ilyas M, Hassan Y. Deworming rates and lack of awareness of the National Deworming Day in the endemic region of Kashmir: an opportunity to improve public health using immunization program infrastructure. JPublic Health Policy. 2019 Sep;40(3):367-376.