

(2008/2/18 2007/5/7 )

600

10

% 64.16

*Giardia lamblia*

% 36.10

*Entamoeba histolytica*

*Hymenolypis nana*

% 40.26

.% 3.89

*Enterobius vermicularis*

%19.74

2-1

## Study on Intestinal Parasites as a Causative of Diarrhea and Some Effectors on Them in Children of Neinavah Governorate

Zohair I. Ftohe

Sagida S. Al -Zako

Najwa Mahfoth

Department of Biology

Department of Basic Nursing Sciences

College of Science

College of Nursing

Mosul University

Mosul University

### ABSTRACT

The present study surveyed the intestinal parasites which cause diarrhea in 600 children consulting Ibin-al\_Ather hospital in Neinavah governorate for a period of 10 months using both direct smear and concentration technique for examining stool. The

total percentage of infection was 64.16% among those referred to the laboratory for stool examination. Four species of parasites were recorded: two species of protozoa, namely: *Entamoeba histolytica* 36.10% and *Giardia lamblia* 40.26% and two species of worms namely *Hymenolepis nana* 19.74% and *Enterobius vermicularis* 3.89%. Also the study extended to reveal the factors that affect the percentage of infection and symptoms associated with diarrhea.

The highest percentage of infection was in the age 1-2 years and the males had higher infection rate than females and children coming from rural regions more than those coming from urban region.

## Diarrhea

.(Caccio et al., 2003)

(Al-Dulaimi, 1996)

%70 (1995) Bhat Jonnalagadda .(Caccio et al., 2003)

(6) (1967) AL-Dabbagh

(1990) AL-Ghadanphary

(1994) Ibrahim

AL-Taee

1400 %61.5 (1996)

5

(1997) Ali Al-Sadoon

%61.6

.....

(1997) ) .%41.5

(1998) Mahdi %3.6 %33.5 %34.3

%20.3

(1999) AL-Mallah

(2000) AL-Ani

(2001 ) %84

(2007)

9-5

10

600 2006 2005

5 )

.( 72-49 48-25 24-13 12-7 6)

.( )

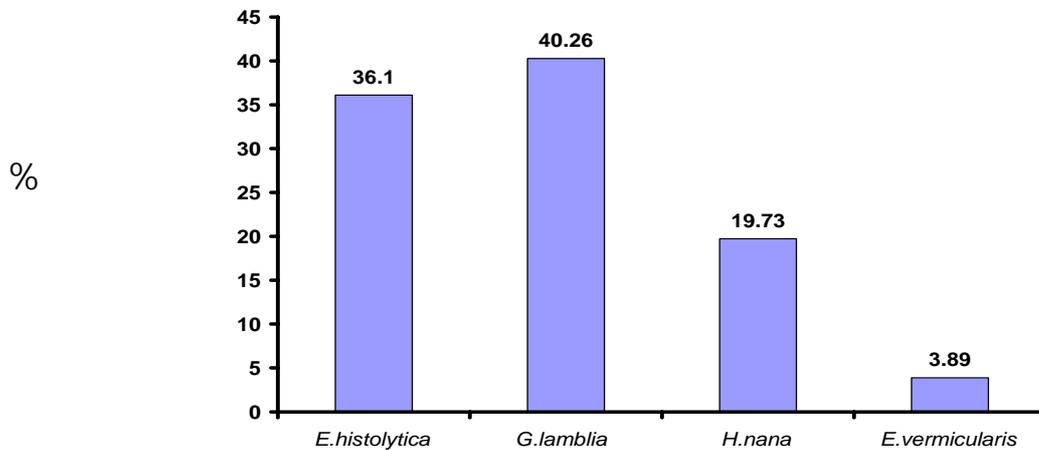
600

%64.16 385

%40.26 155 *Entamoeba histolytica* %36.10 139

) *.Giardia lamblia*

( ) %19.73 76 *Hymenolepis nana* ( ) 15 *Enterobius vermicularis* .(1 ) %3.89 (



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%64.16  
 %62.74 (1989) Farag Molan  
 %61.5 (1996) AL-Tae  
 %61.6 (1997) Ali AL-Sadoon  
 %22.5  
 . (Celik et al ., 2006)

(1997)  
 %34.2 (1998) %41.5 (1998) Mahdi  
 %20.3

(1)  
 .%36.1 %40.26

.....

(2001)	(2000)	(1994) Shehab	Mahdi
	(1997)		
(1998)	Mahdi	(1999) AL-Mallah	
		(1)	
%20.3	(1976) AL-Hanoon		%19.74
	(1998) Al-Daody		
		.%15.7	
	%3.89		
	(1990 )		
%0.26	(1986) AL-Issa		
	%21.5		
	(1994) Ibrahim		
	%61.21	%2.28	18-1
		(1)	
		%22.3 %22.6 %22.1	4,3,2
	6-4	.%20.5	
			.%12.5

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%		%		%		%		%			
%0.0	0.0	%0.0	0.0	%20.5	31	% 34.5	48	%20.5	79	6	1
%13.4	2	%0.0	0.0	%26.4	41	%30.2	42	%22.1	85	12-7	2
%26.6	4	%17.1	13	%28.4	4	%18.7	26	%22.6	87	24-13	3
%40.0	6	%43.4	33	%17.5	27	%14.4	20	%22.3	86	48-25	4
%20.0	3	%39.5	30	%7.7	12	%2.2	3	%12.5	48	72-49	5
%100	15	%100	76	%100	155	%100	139	%100	385		

(2)

(1998)

Mahdi

(3 )

.....

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T					T					
	%		%			%		%		
139	%53.95	75	%46.04	64	139	%58.90	82	%41	57	<i>E.histolytica</i>
155	%54.19	84	%45.60	71	155	%63.74	105	%32.26	50	<i>Giardia lamblia</i>
76	%57.89	44	%42.10	32	76	%68.42	52	%31.57	24	<i>H.nana</i>
15	%46.67	7	%53.33	8	15	%53.33	8	%46.67	7	<i>E.vermiculars</i>
385	%54.54	210	%45.45	175	385	%64.15	247	%35.84	138	Total

(3)

%34.5 ( 6)

6-4

%2.2

T	72 - 49		48 - 25		24 - 13		12 - 7		6			
	%		%		%		%		%			
5	%0.0	0	%3.6	5	%7.9	11	%14.4	20	%15.1	21		
82	%2.2	3	%10.8	15	%10.8	15	%15.8	22	%19.4	27		
64	%0.0	0	%5.8	8	%7.2	10	%14.4	20	%18.7	26		
75	%2.2	3	%8.6	12	%11.6	16	%15.8	22	%15.8	22		
77	%2.2	3	%9.4	13	%12.9	18	%17	24	%13.7	19		
62	%0.0	0	%5.0	7	%5.8	8	%12.4	18	%20.9	29		

24-13

(4)

%20

%26.4

12-7

%28.4

%7.7

72-49

%17.5

48-25

(5)

72-49

%43.4

48-25

%17.1 %39.5

24-13

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T	72 - 49		48 - 25		24 - 13		12 - 7		6			
	%		%		%		%		%			
50	%1.9	3	%6.5	10	%7.1	11	%7.7	12	%9.0	14		
105	%5.8	9	%11.0	17	%21.3	33	%18.7	29	%11.0	17		
71	%3.2	5	%4.6	7	%15.5	24	%12.3	19	%10.3	16		
84	%4.5	7	%12.9	20	%12.9	20	%14.1	22	%9.7	15		
98	%4.5	7	%9.7	15	%19.4	30	%17.4	27	%12.3	19		
57	%3.2	5	%7.8	12	%9.0	14	%9.0	17	%7.7	12		

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T	72 - 49		48 - 25		24 - 13		12 - 7		6			
	%		%		%		%		%			
31	%11.9	9	%17.1	13	%2.6	2	%0.0	0	%0.0	0		
45	%27.6	21	%26.3	20	%17.5	11	%0.0	0	%0.0	0		
32	%17.1	13	%17.1	13	%7.9	6	%0.0	0	%0.0	0		
44	%22.7	17	%26.3	20	%9.2	7	%0.0	0	%0.0	0		
48	%23.7	78	%26.3	20	%13.1	10	%0.0	0	%0.0	0		
28	%15.8	12	%7.1	13	%4.0	3	%0.0	0	%0.0	0		

48-25

(6)

72-49

24-13

%40.0

%13.4 %20.0 %26.6

12-7

6

T	72 - 49		48 - 25		24 - 13		12 - 7		6			
	%		%		%		%		%			
7	%6.7	1	%20.6	3	%13.3	2	%6.7	1	%0.0	0		
8	%13.3	2	%20.0	3	%13.3	2	%6.7	1	%0.0	0		
8	%6.7	1	%13.3	2	%20.0	3	%13.4	2	%0.0	0		
7	%13.3	2	%26.7	7	%6.6	1	%0.0	0	%0.0	0		
9	%13.3	2	%26.7	4	%20.0	3	%0.0	0	%0.0	0		
6	%6.7	1	%13.3	2	%6.6	1	%13.4	2	%0.0	0		

6

( )

(1997) Rissan

(1997) Ali AL-Sadoon

(2001)

(1998)

Mahdi

(2)

%11.6 %8.6 %2.2

%15.8

%14.46 %7.2 %5.8 %0.0

6

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(2)

(1976) Al-Hanoon

%4.5 %12.9

%3.2 %4.6

6

(5 2)

12

%22.4 %26.3 %9.2

%17.1 %17.1 %7.9

(1990 )

7

(6 2)

%20.0 %13.4

2-1 .%6.6

%13.3 %26.7

%67.0 %13.3

(2001)

Nitazoxanide

.(Bailey and Erramouspe , 2004)

.1997

;

;

.24-18 : (3)8

.1998

.55-1

.2000

.80-1

.2001

. 60-1

.1997

.56-1

( )

.1990

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.2007

.( ) .

.2001

.129-1

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