

(2004/7/2 ;2003/3/2)

(69-1)

754

Entameoba

Salmonella sp.

. *Giardia lamblia* *Entameoba histolytica* *coli*

%17.3

(29-20)

%44.04

.(%15 %29)

%4

.%0.7

%20.9

(10-1)

%14

%20

%24.3

(%23.1 %39.6)

%8.1

.%2.7

Epidemiological Study of Diarrhoea in Al-Rashedia Village in Ninava in Iraq

Bushra H. Saeed Farah M. Gazal Hanan S. Nori

*Department of Basic Medical Science
College of Nursing
Mosul University*

ABSTRACT

The present study include a general survey of the reason of diarrhea of the patients visited the Health center of Al-Rashidia village. We have collected 754 samples from patients between 1-69 years old. The result prove that *Salmonella* sp. And kinds of parasites such as *Entamoeba coli* , *Entamoeba histolytica* and *Giardia lamblia* are the main reasons of diarrhea.

For *Salmonella* sp. the recorded percentage of infection is 44.04% whereas the highest percentage of infection among those whose is between 20-29 years is 17.3%. We should mentioned that the females are more exposed to infection than males (29% ♀, 15% ♂). This study showed that there is a direct relation between the infection and the months of the year. The highest percentage (4%) of infection in female is during September, whereas the lowest percentage (0.7%) of infection in male during February and July.

As for the parasites causing diarrhea the percentage of infection is (20.9%) for *E. coli*, (20%) for *E. histolytica* and (14%) for *G. lamblia* . We have also noted that the people between (1-10) years old are more exposed to infection and their percentage is (24%.3). The results indicated that the infection with males is higher than that of females (39.6% ♀, 23.1 ♂). Moreover, this study shows that there is a close relation between the infection and the month of the year. The highest percentage of infection in July is (8.1%) whereas the lowest on is (2.7%) in January.

Doyle et al.,)

Conway et)

(1997

Dehydration

(al.,1999

Rehydration

Bakheshwain et)

Salmonella

(al.,1999

R-Factor

(Finlay and Falkow.,1988)

(Gyr and Merier,1987)

.(Giannella et al.,1973)

(1985)

)

(1974

.(1985)

754

10

24 37

Lactose broth

Selenite

10

1

Tetrathionate brilliant green broth

10

broth

(Collee et al.,1996)

18

37

)

Loop

xylose- (XLD) Salmonella-Shigella agar (S.S.A.)

(Difco,Oxoid

24

Bismuth Sulfate agar (BSA)

Lysine Deoxycholate

37

48

S.S.A.

.(Harne et al.,1994) BSA

XLD

10
 Direct method 10%
 stick
 5
 100 10
 100X 40X 10X
 .(Senekji et al.,1939; Neimeister et al.,1995)

(Gyr and Merier , 1987)

(420) (334) (754)
 55.95% (234) 44.04% (185)
 %45.4 (Bakheshwain et al.,1999)
 (Behlau and Miller,1993 ; Deubbert and Peterson ,1985)
 %42 %40

2001

(Doyle et al.,1997)
 (Allen et al.,1999) *Salmonella emek*
 (Maeda,1996) *S.agona*

(Rahman et al.,1992)

(2001,)
 . (1)

:1

%		
15.6	29	<i>Salmonella typhimurium</i>
14.5	27	<i>Salmonella anatum</i>
13.5	25	<i>Salmonella emek</i>
12.9	24	<i>Sal typhimurium var. Copenhagen</i>
12.4	23	<i>Salmonella agona</i>
11.3	21	<i>Salmonella muenchen</i>
10.2	19	<i>Salmonella senftenberg</i>
9.18	17	<i>Salmonella derby</i>
100	185	

S.typhimurium

%15.6 29

Bacterimia

.(Jones et al.,1993)

25 *S.emek* %14.5 27 *S.anatum*

S.typhimurium var. %13.5

%12.4 23 *S.agona* %12.9 24 *copenhagen*

%11.3 21 *S.muenchen*

S.typhimurium

S.typhimurium .(Giocchio et al.,1994; Gyr and Merier, 1987)

Gyr and)

S.typhimurium

(Merier ,1987

.(Shetty et al.,1994)

(Schutz et al.,1998)

S.emek

(Cowden,1996) *S.anatum*

S.muenchen

S.typhimurium var. copenhagen

S.agona

S.typhimurium

(Cowden,1996)

1980

. *S.typhimurium*

1995

%17.3

(29-20)

, (1)

(Conway etal.,1990)

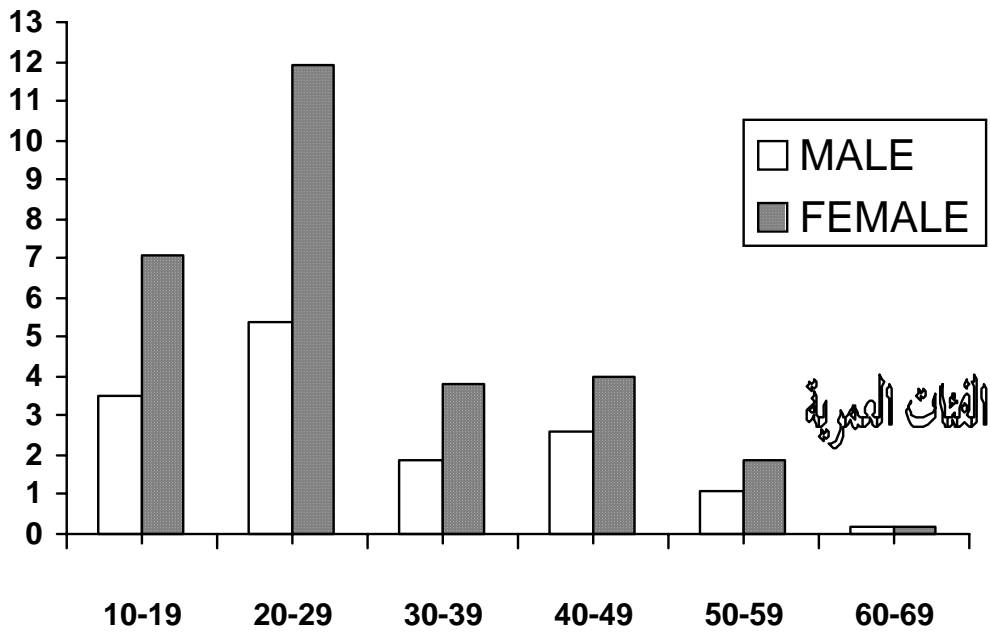
(1)

.(40-20)

(69-60)

(59-50)

النسبة المئوية %



:1

%29

122

(1) %15

63

Wiehand)

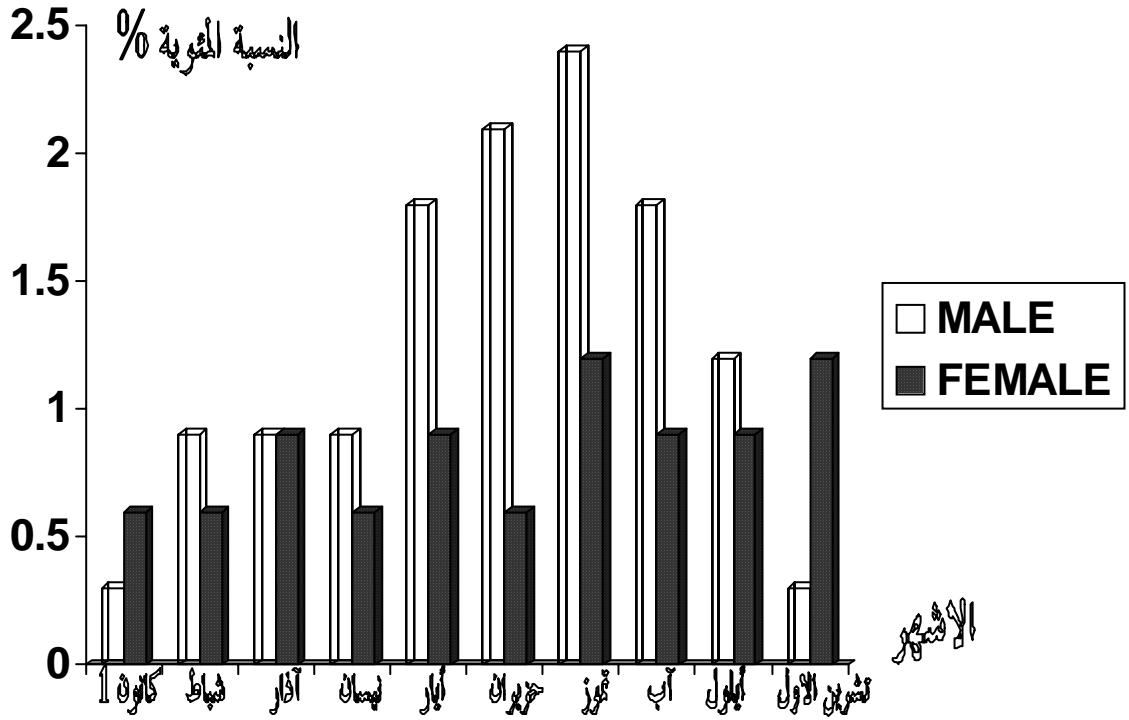
(et al.,1992

%4

(2) %0.7

(Al-Haidari et al., 2000)

(Stephen et al.,1985)



: 2

(2)

(%20.9)

Entamoeba coli

(%20)

Entameoba histolytica

(%14)

Giardia lamblia

1992

Mukhlis and Al-Hanoon,1980 ; Senekji et al.,1939 Kadhim,1986)

Ozcelik et al.,

(2001

1998

.(2000

1995)

Niazi et al.,)

.(1976

(334)

: 2

%		
20.9	70	<i>Entameoba coli</i>
20	67	<i>Entameoba histolytica</i>
14	47	<i>Giardia lamblia</i>

(%20)

Al-Mallah , 1999 1992

Al-Hanoon and Hayatee , 1980)

(2001

.(Niazi et al., 1976)

%20

(%14)

Risan , 1998 ;)

(Arif , 1996 ; Chai et al.,1982)

(Mangali et al., 1993

.(Lopes , 1982)

(3)

(%24.3)

(10-1)

(%0.9)

(60-51)

(%4.8)

(10-1)

%(5.7,8.7)

(20-11)

(10-1)

Al-hanoon,1976)

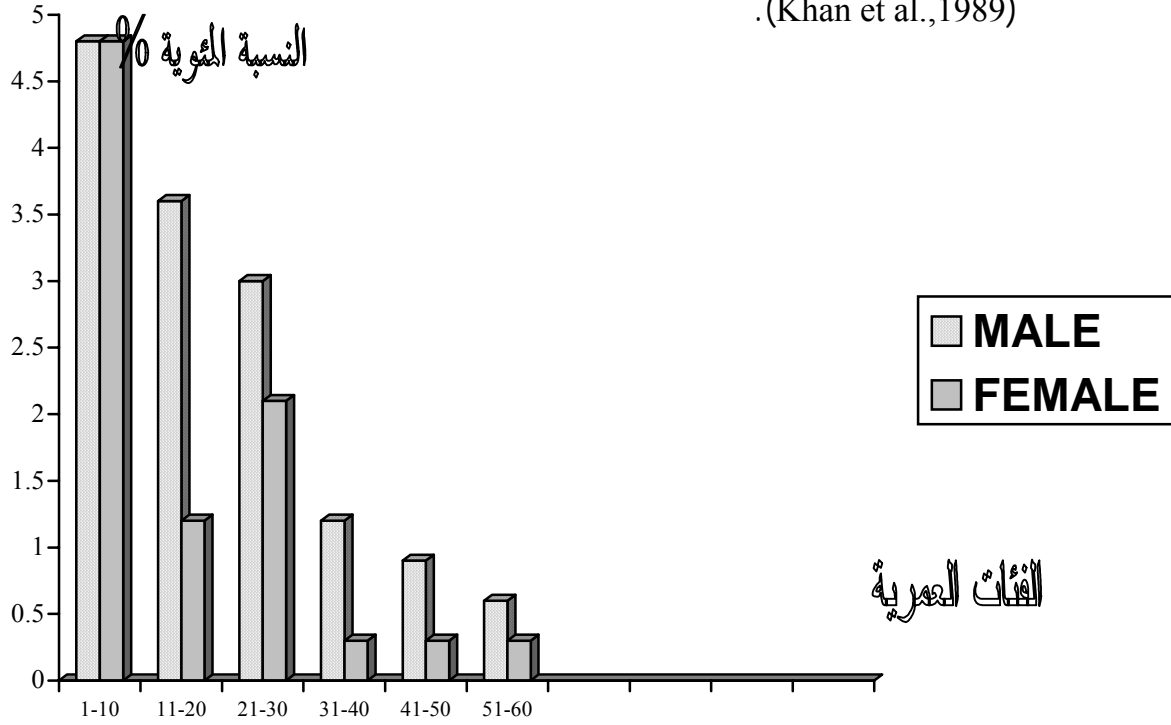
%(3.6,6.9)

Lopo et al , 1998 1997

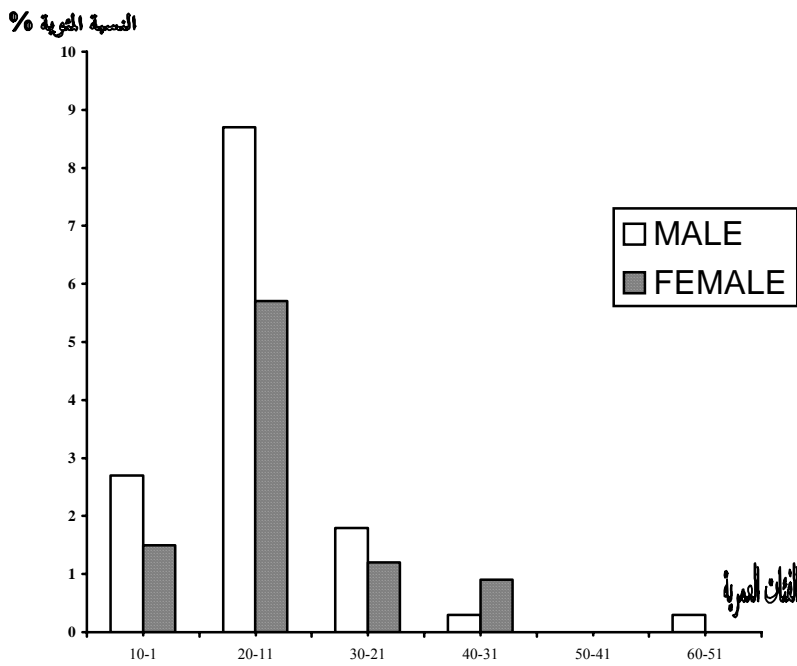
Dorea et al , 1996 1994

(1998

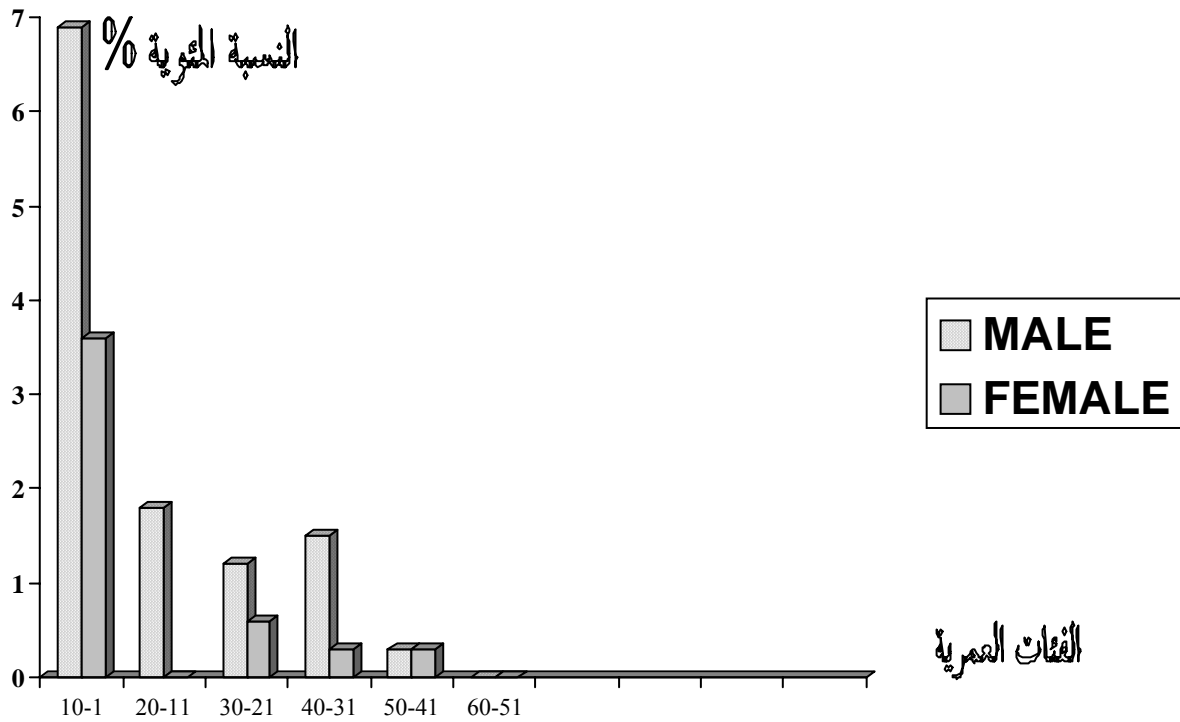
(Khan et al.,1989)



E. coli : 3



E. histolytica : 3



G. lamblia : (3)

: 3

(4)

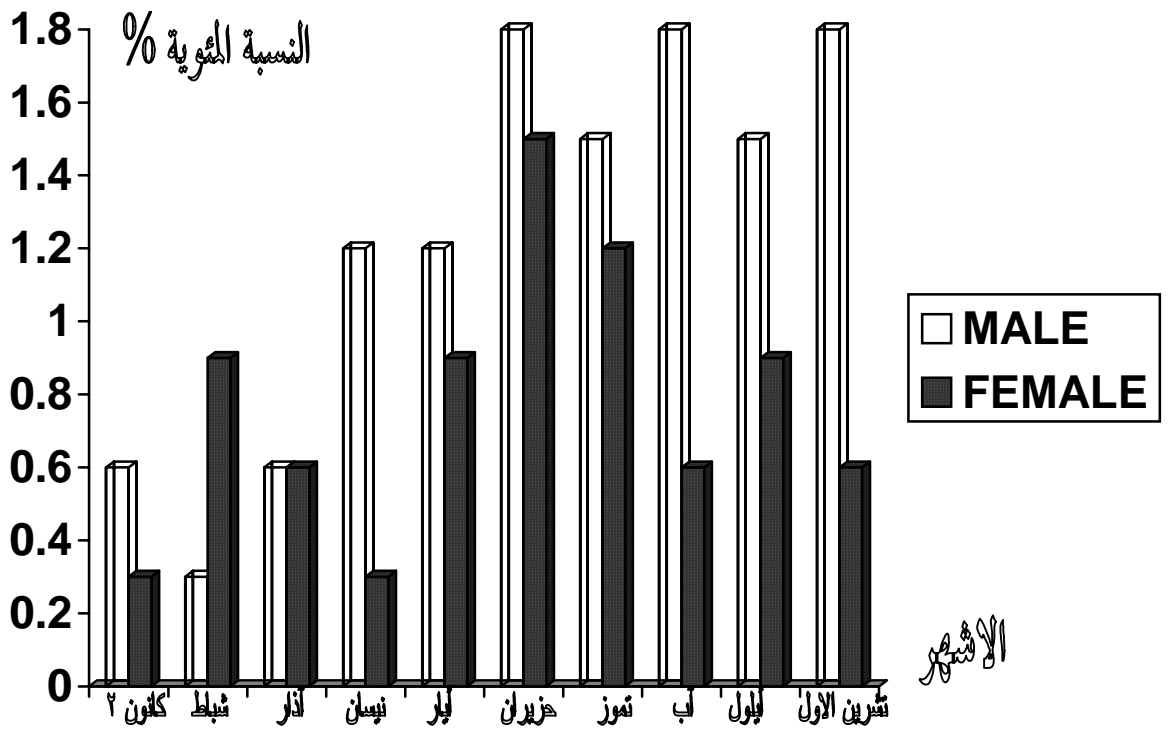
%(2.7,5.4)

%(1.2,1.5)

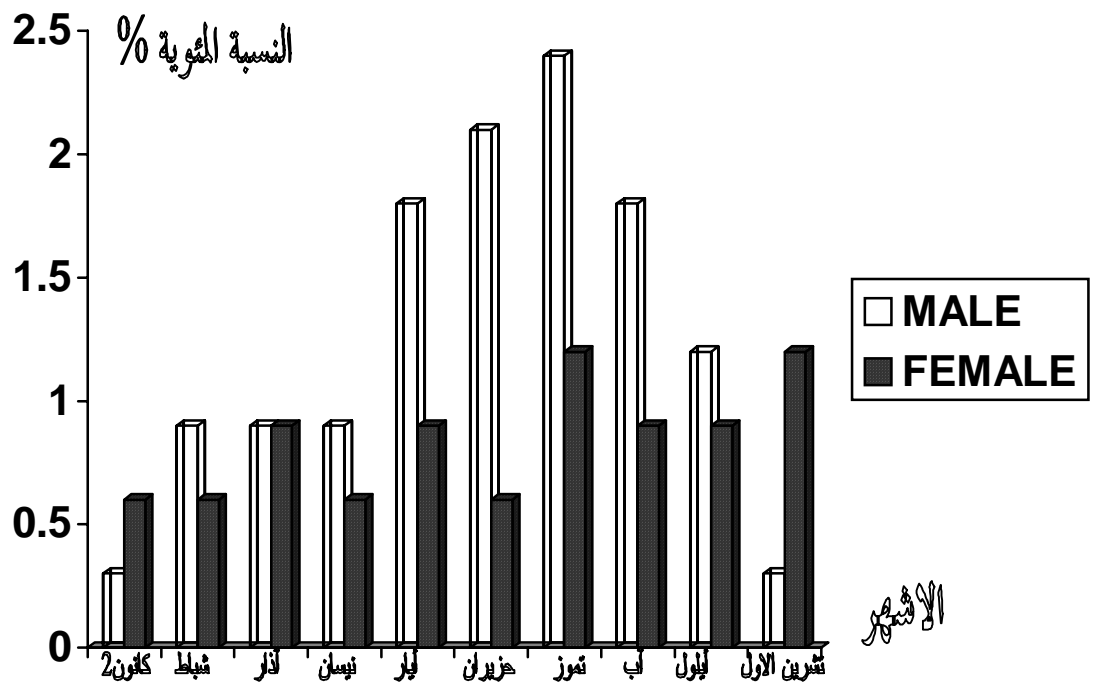
(Al-Dulaimi,1996)

(Abdel-Hafez et al.,1986)

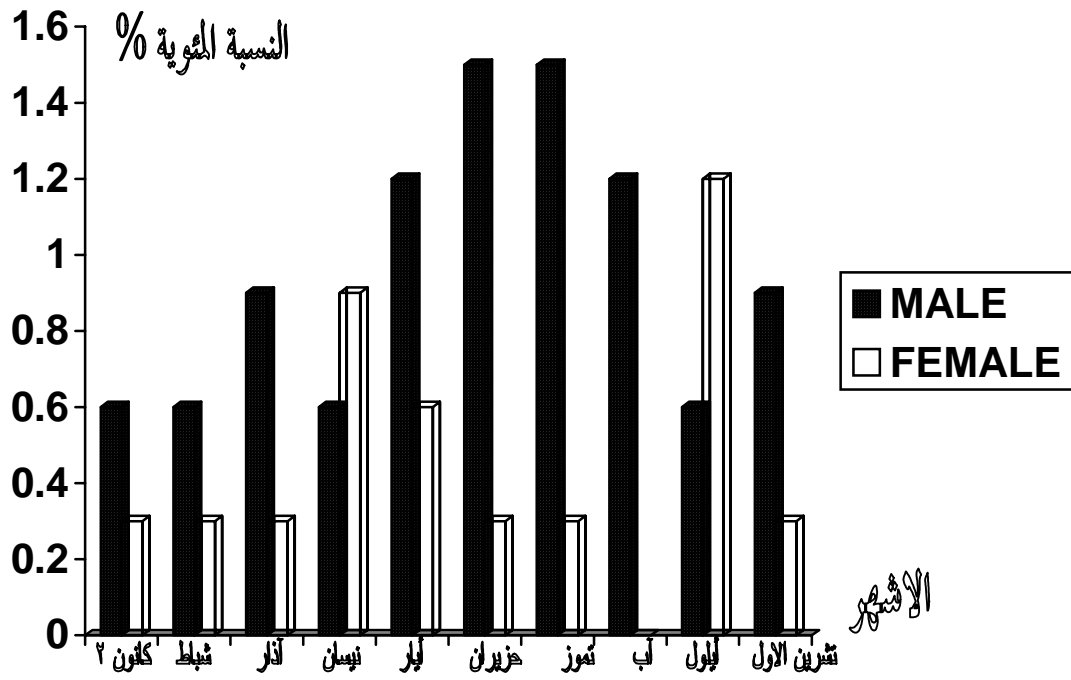
.(Wright,1980)



E. coli : 4



I. lamblia : - 4



. *G. lamblia* : - 4

: 4

.1994

()

. 217-262

.1998

.117-1

.2001

.60-1

.1998

.68-1

.1992

.80-1

- .1985
- .1985
- .516-1
- .1997
- .56-1 ()
- .1874
- 1986
- .2001
- .2001

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