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RESULTS

1) Results of Bacteriological Study of Throat Swabs:

(are shown in table 1)

From this table it is shown that :

- 1) Streptococcus pyogenes strains were isolated from 16 out of 60 throat swabs taken from apparently healthy individuals of different ages (5 - 50 years old) from Zifta Hospital representing, 26.66 % .

Table I

Bacteriological study of throat swabs

Cases		B - hemolytic Streptococcus isolated .	
Type of cases examined.	Total No.	No.	%
1) Apparently healthy cases.	60	16	26.66 %
2) Patients suffering from acute sore throat.	86	60	69.76 %
3) Rheumatic cases.	10	2	20 %

2) β - Hemolytic streptococci were isolated from 60 out of 86 cases of acute sore throat, representing 69.76%.

3) β - hemolytic streptococci were isolated from two cases only out of 10 cases (20 %). Most cases were children above 8 years.

II) A.S.O titre in sera of different cases :

(are shown in tables 2,3,4)

Table 2

A.S.O titre in appearently healthy individuals.

Age	No. of Cases	A.S.O in the first sample	A.S.O in <u>2nd</u> sample
above 15 y. 5-15 y. 5-15 y.	1) Streptococcal carriers.		
	a) 9 carriers	+ve	-ve
	b) 5 carriers	300 I.u.	200 I.u.
	c) 2 carriers	400 I.u.	300 I.u.
5-50 y.	2) Non streptococcal carriers.		
	(44)	-ve	-ve

+ve means a titre more than 200 I.u.

-ve means a titre less than 200 I.u.

From table 2 it is noticed that the anti-streptolysin O titre in streptococcal carriers was from 200 - 400 I.u. in the first sample and the titres fell slightly in the second sample while A.S.O titre in non streptococcal carriers was less than 200 I.u.

Table 3 A.S.O titre in patients suffering from acute streptococcal sore throat using latex test.

Total No. of cases	%	A.S.O titre in the first sample.	A.S.O titre in the second sample.
8	13.34 %	400 I.u.	300 I.u.
12	20 %	300 I.u.	200 I.u.
8	13.34 %	300 I.u.	300 I.u.
12	20 %	200 I.u.	200 I.u.
6	10 %	500 I.u.	300 I.u.
8	13.34 %	200 I.u.	-ve
6	10 %	300 I.u.	-ve

-ve agglutination means that A.S.O titre is less than 200 I.u. in the undiluted sera.

From table 3 it is noticed that the A.S.O titre was ranged from 200-500 I.u. in the first sample while in the second sample there is no or slight decrease in the titre.

Table 4. A.S.O titre in the sera of complicated cases with rheumatic heart.

Total No. of cases	A.S.O in the first sample	A.S.O in the second sample
1) Streptococcal carriers		
1	800 I.u.	800 I.u.
1	600 I.u.	800 I.u.
2) Non streptococcal carriers. (8)		
4	800 I.u.	600 I.u.
2	600 I.u.	500 I.u.
2	500 I.u.	500 I.u.

The Cases examined were suffering from quiescent carditis but with definite valvular lesions and compensated heart.

As shown from table 4 that the A.S.O in rheumatic

cases rised markedly. It is ranged from 500 - 800 I.u. in the first and the second samples but there is no decrease in the titre in the sera of streptococcal carriers.