RESULTS

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Table (1) gives the number and sex of study population in each school.

<u>School</u>	Male	<u>Female</u>	<u>Total</u>
El-Shaheed Salah Salem	121	237	358
Molhaket El-Moalemat	275	266	541
El-Imam Mohamed Abdou	366	319	685
El-Thaora	231	181	412
Bekera	244	157	40 1
Total	1237	1160	2397

It is revealed by this table that 1237 males and 1160 females were examined.

The coverage of females by schooling is slightly lower than that of males (Male : Female = 1.066 : 1).

Table (2) shows the prevalence of cases by schools.

School	No. of cases	% of total
El-Shaheed Salah Salem	1	0.28
Molhaket El-Moalemat	2	0.37
El-Imam Mohamed Abdou	4	0.58
El-Thaora	1	0.24
Bekera	3	0.75
Total	11	0.46

The prevalence varies from 0.24 % in El-Thaora to 0.75 % in Bekera.

Our eleven cases with rheumatic heart disease were divided into 2 groups:

Group I : cases with rheumatic activity (active cases).

Group II: cases without rheumatic activity (quiescent cases).

Table (3) shows the clinical data of quiescent cases.

No. Age in	Sex	Cardiac lesion	History	History of		
NO.	years	Dex.	Cardiac lesion	arthritis	Chorea	
(1)	7	Female	M.S.	-	-	
(2)	8	Female	M.S. + pulm. hypertension.	+	-	
(3)	8	Male	D.M. + pulm. hypertension.	-	-	
(4)	10	Female	D.M.	+	-	
(5)	12	Female	M.R.		+	
(7)	8	Male	A.R.	+	_	
(8)	12	Male	D.M. + pulm. hypertension.	+	~	
(9)	9	Male	M.R.	+	-	
(11)	11	Female	D.M.	+	_	

Table (4) shows the clinical data of active cases.

No.	Age in years	Sex	Cardiac lesion	Arthritis	Chorea
6	: 8	Female	D.M. + pulm. hypertension.	+	-
10	10	Female	M.S. + pulm. hypertension.	+	_

From tables (3) and (4), it is clear that:

- 2 cases (18.8 %) out of the total 11 cases denied any history of the first attack of rheumatic fever.
- 6 cases of the quiescent group gave history of arthritis and 1 case of chorea.

The 2 active cases were presenting by carditis and arthritis. The mitral valve was involved in 10 cases (90.91 %) and the aortic valve in a single case (9.09 %).

Table (5) shows the prevalence of cases per sex.

Sex	No. of cases	Total No. examined	<b>%</b>
Male	4	1237	0.32
Female	7	1160	0.60
Total	11	2397	0.46

There is a significant prevalence of rheumatic heart disease among females than males (Female : Male = 1.75 : 1).

Table (7) shows R.B.C's count, Hb %, A.S.O. titre, E.S.R. and C.R.P. in quiescent cases.

Case no. R.B.C's/c.		нь % A.S.O.		E.S.R.		CDD
tabe no. II.b.	R.D.O By C. High	110 0	Tu/ml.	1st hour	2nd hour	C.R.P.
(1)	4,680,000	85	190	7	14	_
(2)	4,540,000	82	200	6	18	
(3)	3,750,000	75	175	12	25	_
(4)	4,300,000	75	220	9	16	
(5)	4,140,000	75	160	8	15	-
(7)	4,800,000	89	190	7	13	
(8)	4,590,000	88	210	9	12	-
(9)	4,310,000	80	160	8	12	-
(11)	3,900,000	75	180	9	14	-
Mean	4,334,444	80.44	187.22	8.33	15.44	-
S.D.		5.83	20.78	1.73	4.07	_

In the quiescent cases, there was no anaemia mean R.B.C's count (4,334,444/c.mm.) and mean Hb % (80.4%).

There is a normalization of E.S.R. mean in the 1  $^{\rm st}$  and 2  $^{\rm nd}$  hour (8.33/15.44).

The C.R.P. is negative in all cases.

A.S.O. ranges between 160 and 220 tu. with a mean of  $187.22 \pm 20.78$ .

Table (8) shows the hematological data of active and quiescent cases.

	Acti <b>v</b> e	Quiescent
Mean R.B.C's/c.mm	3,065,000	4,334,444
Mean Hb %	62 %	80.44 %
Mean value of E.S.R. 1st/2nd hour	31/64.5	8.33/15.44

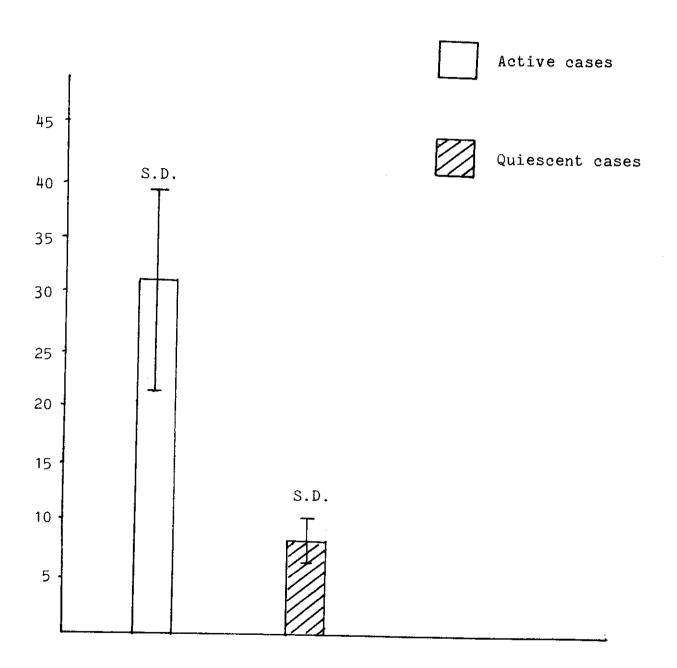


Figure (1) shows comparison between the mean value of E.S.R. in the  $1^{\rm st}$  hour in active and quiescent cases.

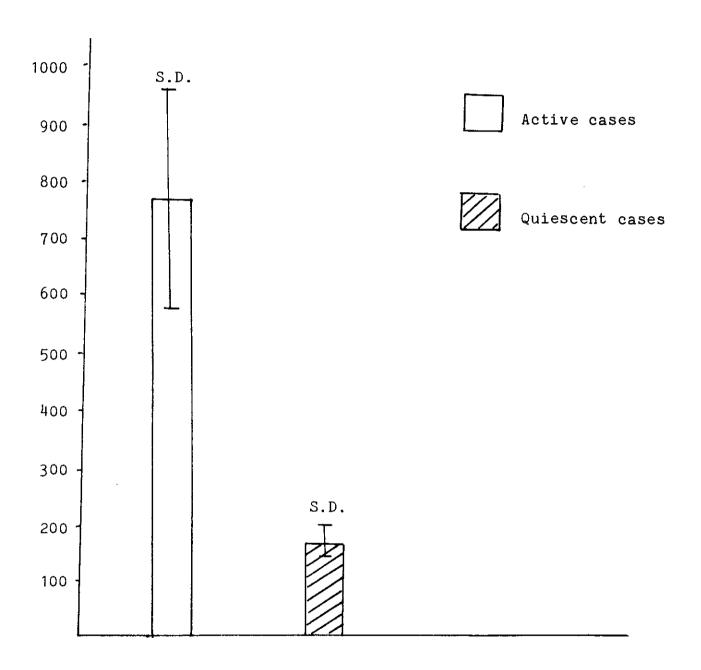


Figure (2) shows comparison between the mean value of A.S.O. in active and quiescent cases.

Table (9) shows determination of blood groups of our patients.

Blood group	No. of patients	%
Α	5	45.46
В	-	-
AB	2	18.18
0	4	36.36

The relative incidence of rheumatic heart disease in persons with group A compared with group 0 is 1.25 : 1.