## RESULTS

We examined 8878 pupils in Quisna Town, from 20 schools in primary and preparatory Stages, out of them 35 pupils had rheumatic heart diseases and some cases with rheumatic activity. The prevalence of rheumatic fever and rheumatic heart disease has been found about 3.9 per thousand among school children aged 5 - 15 years (table - 1).

The number of examined pupils in primary stage were 5406 at 14 schools, out of them 18 pupils had rheumatic heart disease. The prevalance of rheumatic diseases was about 0.33 per cent, while the number of examined pupils in the preparatory stage were 3472 at 6 schools, out of them 17 pupils had rheumatic heart disease. The prevalance of rheumatic heart disease has been found to be about 0.48 per

cent. There was no significant difference between primary and preparatory stages as regard to rheumatic disease cases among school children aged (5 - 15) years (table 2.).

Fifty one per cent of the rheumatic heart disease cases were knowing the onset of rheumatic fever at the first attack. The majority of cases had the onset of rheumatic fever at the age of 7 - 12 years (table 3).

The number of examined males were, 4594, out of them 20 pupils had rheumatic heart disease, the prevalence of rheumatic heart disease in males among school children was 57.1 per cent, while the number of examined females were 4284, out of them 15 pupils had rheumatic heart disease. The prevalence of rheumatic heart disease was 42.9% in females among school children aged 5 - 15 years. There was no significant sex difference between males

and females as regard to the number of rheumatic heart disease cases prevalance among school children (Table 4).

The number of active rheumatic hearts was four cases. The prevalence of rheumatic activity was 11.4 per cent, while the number of quiescent rheumatic heart was 31 cases. The prevalence was 88.6 per cent. (Table 5).

The majority of cases of rheumatic activity showed arthritis and carditis, (3 cases), while rheumatic chorea presented in one case only, with incidence of 25 per cent of active cases. Erythema marginatum and subcutaneous nodules were very rare. E.S.R. was elevated in all cases of arthritis and most cases of carditis. Carditis with low E.S.R. was present with congestive heart failure. A.S.O. was elevated in all cases of arthritis and carditis above 250 Tu units. C - reactive protein was positive in all cases of carditis and arthritis.

In the case of rheumatic chorea, there was no arthritis, no carditis, no subcutaneous nodules and no erythema marginatum; The E.S.R. was not elevated, C - reactive protein was negative, A.S.O. titer was not elevated (table 6).

The mitral valve was affected in the majority of cases, 95.4 per cent, while the tricusped valve was rarely affected. The aortic valve was affected in only one case (2.8 per cent). There were 15 cases having pulmonary hypertension with mitral valve affection (table 7).

The total number of cardiac cases among school children aged (5 -15 years) was 47 cases, of them were having rheumatic heart disease.

The incidence of rheumatic heart disease cases was, thus, 74.4 per cent in relation to all cardiac cases (table 8).

Total No. of Pupils	No. of Rheumatic cases	Percentage			
8878	3 5	0.39%,			

Table (1): The prevalance of rheumatic fever (R.F.) and rheumatic heart disease (R.H.D.) among school children.

School stage	No. of Schools	No. of pupils	No. of R.H.D.cases	Percentage %,
Primary Stage	14	5406	18	0.33 %
Preparatory Stage:	6	3472	17	0.48 %

Table (2): The prevalance of rheumatic heart disease cases among primary and preparatory school children.

$$x^2$$
 1.32 P > 0.05

Age in Years	6 - 7	7 - 8	8 - 9	9 -10	10-11	11-12	12-13	13-14	14-15
No.of R.H.D. Cagog	1	3	2	4	5	3	5	6	6
No.of C.H.D. cases	1	1	7	_		<u></u>		1	< <b>2</b> *
Total No.of cardi- ac cases.	2	4	9	4	5	3	5	7	8

Table (3): The age of discovered cases at the time of examination.

$$\frac{X_2}{P} > \frac{19.7}{0.05}$$

Sex	No. of pupils	No. of R.H.D.cases	Percentage
Male	4594	2 0	57.1%
Female	4284	1 5	42.9%
Total	8878	3 5	100 %

Table (4): The prevalance of R.H.D.cases in relation to sex.

 $x^2 : 0.41$ P > 0.05

	No. of cases.	Percentage(%)
Active cases	4	11.4%
Quiescent cases	3 1	88.6%
Total	3 5	100 %

Table (5): The prevalance of active and quiescent rheumatic heart cases among school children.

10	15	14	ω	Age	
+0	9	9	+0	Sex	
	+	+	+	Arthritis	
,	+	+	+	Carditis	Ma j
Rheu- matic Chorea		•	ı	Chorea	or manif
<b>I</b>	•	ı	•	Erythema marginatum	Major manifestations
1	. 1	1	_	Subcutaneous nodules	
ı	350	400	350	A.S.O.	
-ve	+	+	+	C.R.P.	Laborat
10	60	60	45	lst.hour	Laboratory manifestations
17	110	110	90	E.S.R.	stations

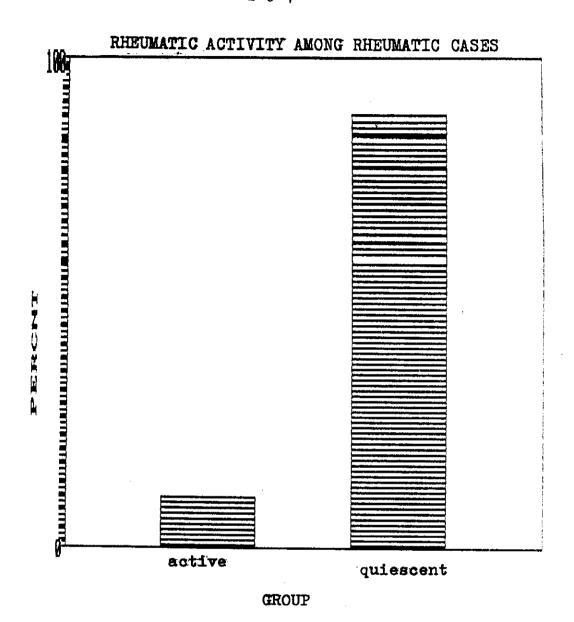
Table (6): The major and minor manifestations of rheumatic fever on the studied cases.

Valve	No. of Cases	Percentage (%)
Mitral	3 3	95.4%
Aortic	1	2.8%
Tricuspid		
Pulmonary Hypertension	1 5	42.6%

Table (7): The valves affected by R.F. & R.H.D.

Total No. of Cardiac Cases	No. of R.H.D. Cases	Percentage (%)
4 7	3-5	74.4 %

Table (8): Rheumatic heart cases in relation to all cardiac cases.



## PERCENT OF RH. & CONG. HEART IN STUDY CASES

