The results

From the middle sector of the Dakahlia governorate in the lower Egypt, the students with chronic health conditions in $3^{\rm rd}$ and $6^{\rm th}$ grades in four primary school were documented during the academic year 2009-2010.

A full medical report of the child's condition was given . This Included a medical and developmental history and complete medical examination was done .

Our study comprised a total 221 cases with chronic health conditions, (from 1350 students who were the total students in our study) 96 (43.6%) were males and 125 (56.4%) were females. Their age was 9 - 12 years.

Consanguinity was positive in 61 cases (27.6%).

205 cases (94.5 %) had isolated chronic health conditions, 81 (39.3 %) were males And 124 (60.6 %) were females.

- * 63 cases had visual defects
- * 49 cases had speech disorders
- * 32 cases had rheumatic heart disease
- * 30 cases had auditory disorders
- * 12 cases had motor disabilities
- * 9 cases had bronchial asthma
- * 7 cases had bleeding tendency

* 3 cases had diabetes mellitus.

16 cases (7.2 %) had more than one chronic health conditions, 3 (18.7 %) males, and 13 (81.3 %) females .

- * 6 cases of them had visual and auditory disorder
- * 3 had visual and speech disorder
- * 2 cases had visual and motor disability
- * 2 cases had motor and speech disorder
- * 1 had rheumatic heart disease and visual defect
- * 1 had speech and auditory disorder
- * 1 had bronchial asthma and visual defect.

The total number of the visual defects = 63 (4.6 %) isolated visual defect and those presented as a part of more than one chronic health conditions were an additional 13 cases (0.9%). So the total visual defect equal 63 + 13 = 76 cases (5.6 %).

The total number of the speech disorders = 49 cases (4.3 %) isolated speech disorder and those presented as a part of more than one chronic health conditions were an additional 6 cases (0.4 %) = 55 cases (4.8 %).

The total number of the rheumatic heart disease = 32 (2.3 %) isolated rheumatic heart disease and those presented as a part of more than one chronic health conditions were an additional 1 cases (0.07 %) = 33 cases (2.4 %).

The total number of the auditory defects = 30 (2.2 %) isolated auditory defect and those presented as a part of more than one disabilities were an additional 7 cases (0.5 %) = 37 cases (2.7 %).

The total number of the motor disabilities= 12 (1.06 %) isolated motor disability and those presented as a part of more than one chronic health conditions were an additional 4 cases (0.2 %) = 16 cases (1.1 %).

The total number of the bronchial asthma = 9 (0.6 %) isolated bronchial asthma and those presented as a part of more than one chronic health conditions were an additional 1 case (0.07 %) = 10 cases (0.7%).

The total number of bleeding tendency = 7 cases (0.5%). The total number of the Diabetes mellitus (DM) = 3 (0.2%).

Table (1): distribution of the studied school children according to presence of the chronic health conditions.

Students	No	%
Normal	1129	83.6
Chronically diseased students	221	16.4
Total	1350	100.0

Figure (1):

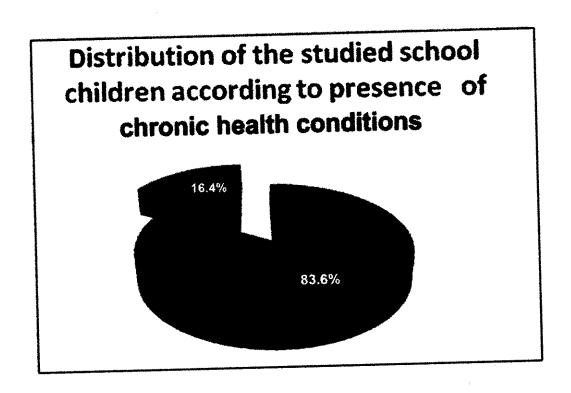


Table (1) illustrated to figure (1) shows that the prevalence of the chronic health conditions among school children was 16.4%.

Table (2): Distribution of the studied school children according to their type.

Students	No	%
Normal	1129	83.6
Visual	63	4.6
Speech	49	3.6
Rheumatic heart disease	32	2.3
Auditory	30	2.2
Bronchial asthma	9	0.6
Motor	12	1.18
Diabetes mellitus	3	0.2
Bleeding tendency (hemophilia)	7	0.5
More than one	16	1.2
Total	1350	100.0

Table (2) shows that the prevalence of chronic health conditions among school children was 4.6 % visual, 3.6 % speech, 2.3% rheumatic heart disease, 2.2 % auditory, 1 % motor, 0.6 % bronchial asthma,0.5 % bleeding tendency, 0.2 % endocrinal, 1.2 % more than one.

Table (3): Sex distribution of the chronically diseased school children.

Sex	No	%
Male	96	43.7
Female	125	56.3
Total	221	100.0

Figure (3):

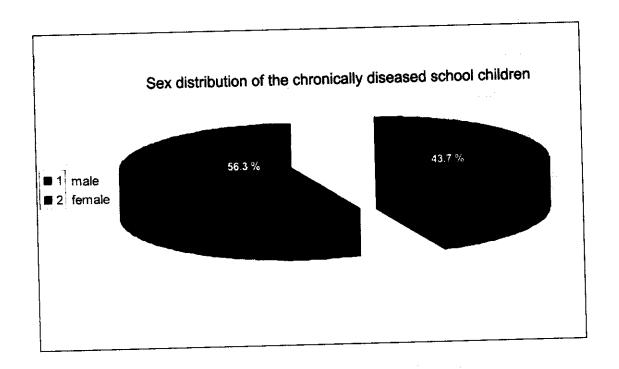


Table (3) illustrated to figure (3) shows that the prevalence of the chronic health conditions among male was 43.7%, and among female was 56.3%.

Table (4): Prevalence of single & more than one chronic health conditions.

Туре	No	%
Single	205	92.8
More than one	16	7.2
Total	221	100

Figure (4):

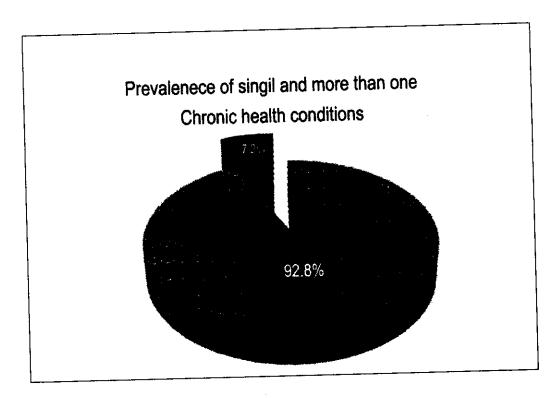


Table (4) illustrated to figure (4) shows that the prevalence of the chronic health conditions among school children was 92.8 % single and 7.2 % more than one.

Table (6): distribution of the Mothers of the chronically diseased school children according to their education.

Aother education	Chronically diseased school children		
Mother education	No	%	
Illiterate	81	36.6	
Read & write	49	22.2	
	55	24.8	
Secondary school	35	15.7	
High	33	0.6	
Post graduate	1		
Total	221	100.0	

Figure (6):

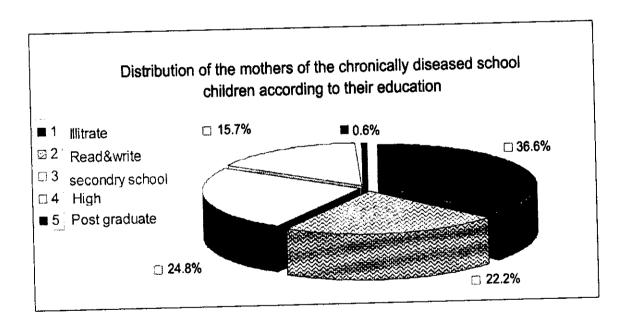


Table (6) illustrated to figure (6) shows that the incidence of different types of the mother's education of the chronically diseased school children was 36.6 % illiterate, 22.2 % read & write, 24.8 % secondary, 15.7 % high, 0.6 % post graduate.

Table (7): The incidence of the consanguinity in the families of the chronically diseased school children.

Normal school children		Chronically C	dren
No	%	No	%
110		61	27.6
149	13.2	01	
		160	72.4
980	86.8	100	,211
			100.0
1129	100.0	221	100.0
	No 149 980	No % 149 13.2 980 86.8	No % No 149 13.2 61 980 86.8 160

Figure (7):

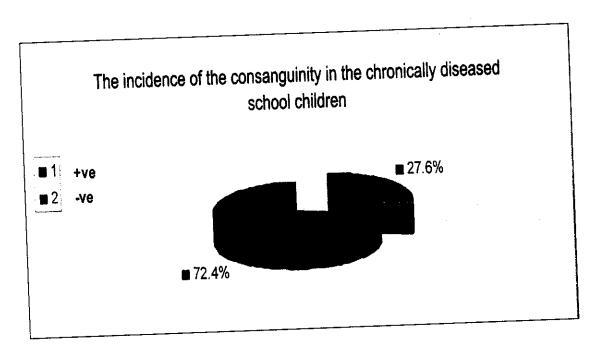


Table (7) illustrated to figure (7) shows that the prevalence of +ve consanguinity in the families of the chronically diseased school children was 27.6 %.

Table (8): The attitude of the chronically diseased school children towards their schools.

Attitude to the	Normal sch	ool children	Chronically c	liseased school Idren
school	No	%	No	%
	No		198	89.9
Love	1053	93.3	170	
<u>i</u>			23	10.1
Hate	76	6.7	23	
		4000	221	100.0
Total	1129	100.0	221	

Figure (8):

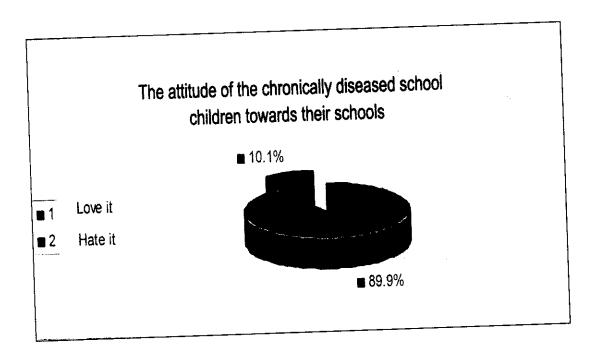


Table (8) illustrated to figure (8) shows that the attitude of the chronically diseased school children towards their school was 89.9% love it. 10.1% hate it.

Table (9): scholastic achievement of the studied school children.

Grade	Normal			nically d children	Total	
	No	%	No	%	No	%
		38.4	73	33.1	507	37.4
Excellent	434		43	19.6	363	64.4
Very good	320	28.3		14.0	207	15.3
Good	176	15.7	31		157	11.6
Passed (accepted)	109	9.7	48	21.8		8.7
	90	8.0	26	11.8	116	
Failed Total	1129	100.0	221	100.0	1350	100.0

$$X = 35.15$$

p<0.001

Figure (9-a):

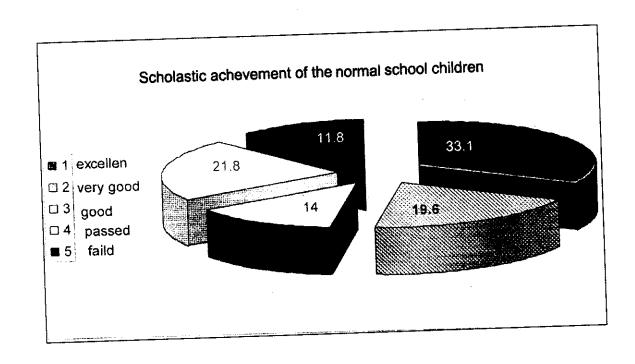


Figure (9-b):

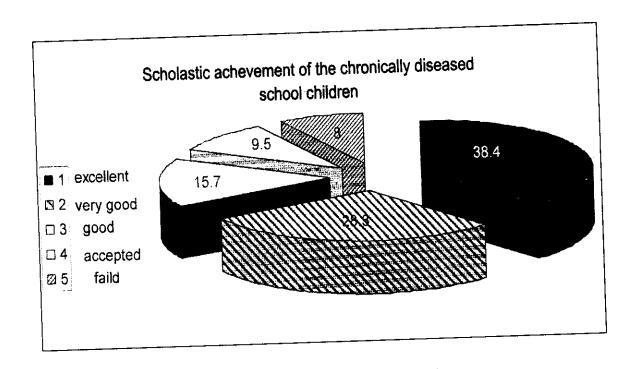


Table (9) illustrated to figure (9-a) and figure (9-b) shows that the scholastic achievement of the chronically diseased school children was 33.1 % excellent, 19.1 % very good, 14.0 % good, 21.8 % accepted, 11.8 % failed .

Table (10, 11): Analysis of variance

Descriptive

- T	Moon	Std deviation	minimum	Maximum
				198.00
1129				159.00
63	105.3197			149.00
30	76.0667			
32	131.6875	22.0431		157.00
		29.9722	51.00	169.00
		26.7628	90.00	160.00
			57.00	155.00
				143.00
3				53.00
16				168.00
7	124.0254			
1350	181,7900	31.7682	30.00	198.00
	30 32 49 9 12 3 16 7	1129 121.2484 63 105.3197 30 76.0667 32 131.6875 49 124.0254 9 121.3333 12 126.2500 3 132.0000 16 52.0435 7 124.0254	1129 121.2484 30.2720 63 105.3197 27.2360 30 76.0667 28.0679 32 131.6875 22.0431 49 124.0254 29.9722 9 121.3333 26.7628 12 126.2500 31.6059 3 132.0000 15.5563 16 52.0435 .7057 7 124.0254 28.0679	N Mean Std. 30.3720 30.00 1129 121.2484 30.2720 30.00 63 105.3197 27.2360 50.00 30 76.0667 28.0679 40.00 32 131.6875 22.0431 84.00 49 124.0254 29.9722 51.00 9 121.3333 26.7628 90.00 12 126.2500 31.6059 57.00 3 132.0000 15.5563 121.00 16 52.0435 .7057 51.00 7 124.0254 28.0679 92.00 30.00 30.00 30.00

F = 23.206

P < 0.01

Multiple Comparisons

Dependent variable: Final Score

LSD	Mean	Std.	P	95%Confidence Interval	
(I) VAR00003 (J) VAR00003	difference	Error	1	Lower Bound	Upper Bound
· ·	15.9288*	3.8979	,000	8.2821	23.5755
Visual disorder	· · · · · · · · · · · · · · · · · · ·	5.4849	.000	34.4219	55.9417
Hearing defect	45.1818*		.050	-20.8663	-1.1790E-02
Rheumatic heart disease	-10.4391*	5.3153	.483	-10.5456	4.9917
Speech defect	-2.7770	3.9601	.483	-19.5497	19.3799
Br. Asthma	-8.4894E-2	9.9222		-21.8809	11.8778
Motor disability	-5.0016	8.6043	.561		30.4113
D.M.	-10.7516	20.9829	.608	-51.9145	81.4562
More than one	69.2050*	6.2451	.000	56.9537	01.4302

Figure (10):

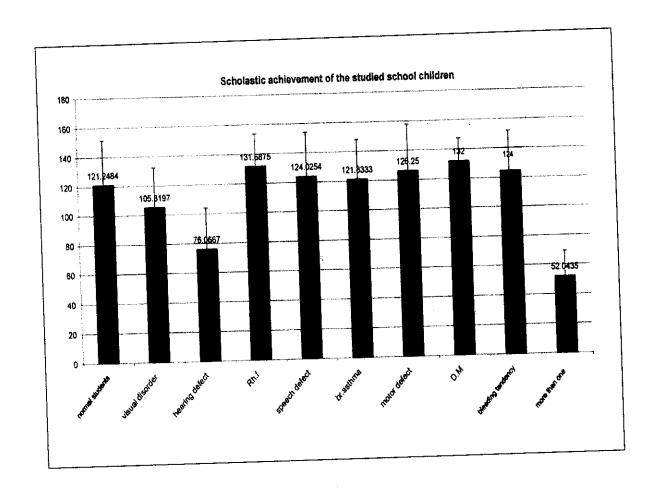


Table (10, 11) illustrated to figure (10) shows the difference in the scholastic achievement of the studied school children.