

RESULTS

25 child out of 40 (62.5%) mentally retarded children, their ages ranged between 3 months to 12 years old had CMV complement fixing antibodies titers greater than 8, while 8 children out of 20 (40%) normal control were seropositive, as shown in table (3).

Table (3) : Incidence of CMV complement fixing antibody in children

	Total number	Number positive	%
Mentally retarded children	40	25	62.5
Normal children	20	8	40

1. Incidence of CMV complement fixing antibodies according to age :

Table 4 shows that the incidence of CMV complement fixing antibodies increase as age increase in both mentally retarded and normal children .

Table (4) : CMV complement fixing antibodies in mentally retarded and normal children at different ages

Patient group	Age range	Total number	Positive number	%
Mentally retarded children	3 mo-1 year	8	4	50
	1 year-5 years	23	14	60.9
	5years-12years	9	7	77.7
Control children with normal intelligence	3 mo-1 year	5	1	20
	1 year-5 year	11	5	45.5
	5years-12years	4	2	50

2. Incidence of CMV complement fixing antibodies in cases with and without microcephaly* :

5 of 6 (82.2%) mentally retarded microcephalic children were seropositive, and 20 of 34 (58.8%) mentally retarded children with normal head circumference were seropositive as shown in table (5).

Table (5) : Incidence of CMV complement fixing antibodies
in microcephalic and normocephalic mentally
retarded children.

Mentally retarded children (3mo-12 yrs)	Total number	Positive number	%
Microcephalic group	6	5	82.2
Normocephalic group	34	20	58.8

* child had head circumference less than two standard deviations below the mean was considered microcephalic.

3. Incidence of CMV complement fixing antibody in cases
with and without high arched palate :

8 of 17 (47%) mentally retarded children with high arched palate were seropositive, and 17 of 23 (73.9%) mentally retarded children without high arched palate were seropositive as shown in table (6) .

Table (6) : Incidence of CMV complement fixing antibody
in cases with and without high arched palate

	Total number	Number positive	%
Cases with high arched palate	17	8	47
Cases with out high arched palate	23	17	73.9

4. Incidence of CMV complement fixing antibodies in cases
of breast feeding and artificial feeding :

19 of 26 (73 %) mentally retarded breast feeding children were seropositive, while 6 of 14 (43%) mentally retarded non breast feeding children were seropositive, as shown in table (7).

Table (7) : Incidence according to type of feeding

	Total number	Number positive	%
Breast feeding	26	19	73
Artificial feeding	14	6	43

This table shows that the incidence of CMV complement fixing antibodies is higher in breast feeding children (73%) than in non breast feeding children (43%).

5. Incidence of CMV complement fixing antibodies in cases with and without associated congenital anomalies*:

Serologically 8 of 12 (66.6%) mentally retarded children with associated congenital anomalies were seropositive, and 12 of 28 (43%) mentally retarded children without congenital anomalies were seropositive as shown in table (8).

Table (8) : A seropositive rate in cases with and without congenital anomalies

	Total number	Number positive	%
Cases with cong. anom.	12	8	66.6
Cases without cong. anom.	28	12	43

* Congenital anomalies such as, craniostenosis (in 2 cases); Deformity of the right thumb (in one case); ptosis in the right eye lid (in one case); polydactely (in one case); deformity of the upper and lower limbs (in 2 cases);

low set ear (in 3 cases); deformity of the skull (in one case) short fingers, simian crease, short neck and low set ear on the left side (in one case).

6. Incidence of CMV complement-fixing antibodies in cases associated with blindness :

2 of 2 (100 %) mentally retarded children with blindness were seropositive .

7. Incidence of CMV complement fixing antibodies in males and females : were nearly equal, we found 16 of 26 (61.5%) mentally retarded males were seropositive, and 9 of 14 (64.3%) mentally retarded females were seropositive as shown in table (9).

Table (9) : Incidence of CMV complement fixing antibodies according to sex.

	Total number	Number positive	%
Mentally retarded males	26	16	61.5
Mentally retarded females	14	9	64.3