RESULTS

Table (1) presents the concentration of immunoglobulins G, M and A (g/L) in patient's serum and CSF before treatment and in patient's serum after treatment with age ranged from 1.5 - 18 years.

Table (2) presents the concentration of immunoglobulins G, M, A (g/L) in serum and cerebro-spinal fluid of control subjects, with age ranged from 1.5 - 15 years.

Table (3) presents the levels of immunoglobulins G, M and A in patient's serum before treatment (at first day of hospitalization), after treatment and serum of control subjects.

At the beginning of the disease the serum IgG level was significantly lower than the control subjects (P = .0025), and no differences in IgA, IgM levels. After treatment the serum IgG was significantly increased and reached the control value. IgM, and IgA were significantly increased (P = .0001, .004 respectively) and exceeded the control values.

Table (4) presents the levels of immunoglboulins G, M and A in patient's serum before, after treatment and control's serum, with age under 2 years.

was significantly lowr than that of the control subjects (P = .00028) IgM and IgA levels were the same as control subjects.

After treatment the immunoglobulin IgG was significantly increased (P = .0005) but not reach the control value.

Table (5) presents the levels of immunogobulins G, M and A in patient's serum before and after treatment and control's serum with age ranged 2-12 years.

At the beginning of the disease the level of IgG was significantly lower than that of the control subjects (P = .0036), and no differences between IgA, IgM levels, and the control values.

After treatment the mean levels of IgG, IgM and IgA were significantly increased and exceeded the control valeus (P = .0012, .0001 and .0008 , respectively).

Table (6) presents the levels of immunoglobulins G, A and A in patient's serum before and after treatment and serum of control subjects; aged over 12 years.

Before treatment the levels of patient's serum IgG was non significant lower than the control subjects; IgM and IgA were the same as the control valeus.

After treatment the levels of IgG, IgM and IgA were significantly increased and exceeded the control values. (P = .0002, .0001 and .0008 respectively).

Table (7) presents the ratio between the immunoglobulins G, M and A in patient's serum before treatment according to the age.

The level of IgG was 2.2 times higher for age over 12 years than under 2 years.IgA level was 2.5 times higher for age group over 12 than under 2 years.

Table (8) presents the ratio between patient's serum immunoglonbulins G, M and A after treatment according to the age.

The level of IgG was 2.8 times higher for age above 12 years than below 2 years. IgA level was 4 times higher for age over 12 than under 2 years. IgM level was 3.4 times higher for age group over 12 than under 2 years.

The levels of immunoglobulins, G, M and A were 2, 2.3 and 2.2 times respectively for age group ranged from 2-12 years than under 2 years.

Figure (1) presents the correlation between the concentration of patient's serum IgG, IgM and IgA before tratment and age.

Figure (2) presents the correlation between the concentration of patient's serum IgG, IgM and IgA after treatment and age.

Figure (3) presents the correlation between protein and immunoglobulin IgG concentration (g/L) in patient's CSF before treatment.