



Seroprevalence Of Congenital Cytomegalovirus In Neonates

Thesis

Submitted for partial fulfillment of master degree in Pediatrics

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Abstract

Background: CMV is a leading cause of congenital infections worldwide, it is the commonest non genetic cause of childhood hearing loss in the post rubella era and a significant cause of neurodevelopmental delay.

The aim of the present study: was to detect seroprevalence of congenital CMV among newborns admitted in our NICU.

Subjects and methods: This study was performed in the NICUs of Fayoum university hospital and General hospital during the period from October 2018 to May 2019. A total number of 267 neonates were included in the study. All newborns were subjected to laboratory investigations including (CBC,ALT, AST, Serum bilirubin(total& direct), CMV IgM and CMV IgG), then CMV PCR was done to positive CMV IgM neonates.

Results: Our study included a total number of 267 neonates less than 3 weeks old. To search for the seroprevalence of CMV among our patients,CMV IgM & IgG were performed (at a mean age of 10.5 ± 9.5 days). CMV IgM was found positive in 3 patients(1.1%) and CMV IgG was positive in all cases (100%).To confirm our results, CMV PCR was performed for the three patients with positive CMV IgM, which showed that two of them (0.7%) had a positive PCR too.