Study on Seroprepidemiology of Cytomegalovirus in Adult Population of Alborz province Of Iran

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Background: Cytomegalovirus (CMV) is a kind of herpesviruses. It is one of the most common causes of congenital and prenatal infections. CMV infection of pregnant women, especially in the first trimester may lead to congenital abnormalities in the newborns. The prevalence of CMV infection in developed countries is about 40% and in developing countries may be 100%. Because there is no information related to the seroepidemiology of this infection in different city of Alborz province, this study was done. This seroprevalence study belongs to serum collected adult people who refferd to the health care centers of Alborz province-IRAN in 2011-2014 for different purpose. Materials and methods: This cross-sectional study was done in 2001 serum sample collected different health care center and Medical laboratory diagnostic in 5 city of alborze province during 3 last years. Demografic data were collected by a questionaire. About 3 ml of blood/serum was took each patient. Serum samples were aliquoted and froze at -20°C until analysed. The presence of anti-CMV Specific antibodies was assessed by enzyme immunoassays and PCR. Data were analysed by fisher,s exact test and x2 test using SPSS software version 11.5. Findings: Mean age of cases was 22-30 years and varied between, years. CMV IgG was found in 1813 cases (91%) out of 2001 cases. 188 people (9%) of the cases were negative regarding to CMV-IgG. There were a significant relationship between the age, sex, education, level of Ab change titre to sex, and the positive result of the test (CMV-IgG). Conclussion: As in other developing countries, the prevalence rate of CMV infection in adult pepple in Alborz province is high. Since the infection is prtevalent and the potential abnormalities associated with it, it is highly recommended to expand preventive measures and inform population at risk "patient in case of transplant, immunocompriesed, under schol children" how to prevent the infection and it is associated consequences.

Keywords : Cytomegalovirus, Seroepidemiology Enzyme immunoassays, Alborz

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