

Evaluation of IgG And IgM Antibodies Level Against Cytomegalovirus (CMV) in Women in Reproductive Ages

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Background & Objectives: Cytomegalovirus (CMV) has a wideworld spread and its prevalence depends on economics, age and geographic factors. This virus with infection in pregnant women can lead to severe complications and even abortion. the aim of this paper was to evaluate IgG and IgM antibodies levels in women in reproductive ages and its association with our variants.

Methods: It is a cross-sectional study, questionnaire including some informations like; pregnancy number of pregnanies, age of marriage, abortion, blood transfusion history was filled. Serum samples from 100 women in reproductive ages collected and antibodies level was assessed with ELISA methods. Then assosiation with our variants was evaluated using statistical analyses tests T-Test, ANOVA and correlation.

Results: age average of studied women was 26 years old. 98% of them had positive Antibody level for IgG. Average IgG antibody level was about 35.84 Ru/ml. 2% had suspicious antibody level. And no negative was found. About IgM no positive or suspicious antibody level was detected. In our study no meaningful association was found between our variants and IgG antibody levels.

Conclusion: Accordings to antibody positivity in nearly all of our samples and high prevalence of this virus and also highly importance of this infection in reproductive aged women, it deserves more attention to increase sanitary situations in women and raises concerns about defected child bearings or even abortion.

Keywords: CMV; IgG; IgM; Reproductive Aged Women