



# 47 DAYS OF PREVENTIVE MEDICINE

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# BOOK OF ABSTRACTS ЗБОРНИК РЕЗИМЕА



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6. DIJAGNOZA CITOMEGALOVIRUSNE INFEKCIJE U ŽENA GENERATIVNE DOBI U JUŽNO BAČKOM OKRUGU U PERIODU OD 2007. DO 2012.

**6. DIAGNOSIS OF CYTOMEGALOVIRUS INFECTION IN WOMEN OF GENERATIVE AGE OF SOUTH BACKA DISTRICT (VOJVODINA, SERBIA) IN THE PERIOD 2007-2012**

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**Objectives:** The objective of the study was to evaluate the frequency of cytomegalovirus (CMV) infections in women of generative age who underwent anti CMV IgG and IgM antibody screening during the period 2007 -2012

**Materials and methods:** Seven hundred and forty serum samples were collected over a 5 – year period from 740 women, 19 to 45 years of age, from South Backa District. For the detection of anti CMV IgM and IgG antibodies an enzyme – linked immunosorbent assay (ELISA) (Virion/Serion, Würzburg-Germany) was used. Commercial avidity test for IgG antibody (Euroimmun, Luebeck, Germany) was applied to test the samples that were IgM – positive at ELISA..

**Results:** In 87.8% (650/740) women past CMV exposure was detected (IgM negative, IgG positive), without any significant differences between age classes. In the period 2007-2012 there were 4 cases of suspected primary CMV infection with IgM and IgG ELISA positive. In all IgM positive cases IgG avidity level was high. High IgG avidity level exclude an infection contracted less than three months

**Conclusion:** The prevalence of anti CMV antibodies in women of generative age of South Backa District in the period 2007-2012 was high. Only 11.6% seronegative women have a risk to acquire primary CMV infection. The presence of specific CMV IgM is not sufficient to establish the diagnoses of primary CMV infection. Avidity IgG test aids in the diagnosis of primary CMV infection.

**Key words:** Cytomegalovirus, ELISA test, IgM, IgG, avidity test