



48

Days of Preventive Medicine International Congress

48. Дани превентивне медицине - Међународни конгрес

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Медицински факултет у Нишу, Универзитет у Нишу

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48

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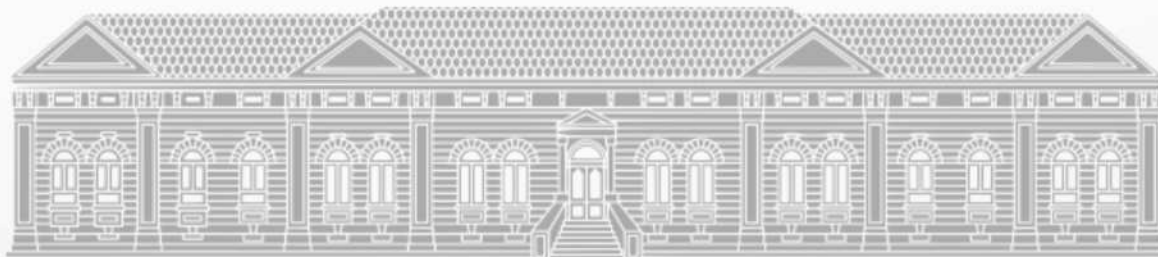
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POSTER PRESENTATIONS**1. SEROPREVALENCE OF WEST NILE VIRUS AND TICK-BORNE ENCEPHALITIS VIRUS IN SOUTH BACKA DISTRICT AND NISAVA DISTRICT**

Ivana Hrnjakovic Cvjetkovic^{1,2}, Patić A¹, Nikolic N¹, Radovanov J¹, Kovačević G¹ Jovanovic Galovic A¹, Cvjetkovic D*², Stefan Mikic, S*² Petric D³, Petrovic T⁴, Milošević V^{1,2}

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Tick-borne encephalitis virus (TBEV) and West Nile virus (WNV) are ARBO viruses, family *Flaviviridae*.

Objectives was to determine the seroprevalence of WNV and TBEV in human sera in Nisava and South Backa District.

Materials and method: a serologic survey was conducted in June 2012. 80 healthy humans from Nisava district and 101 humans from South Backa district were included to the study. All the sera were tested for WNV immunoglobulin G(IgG) and for TBEV immunoglobulin G(IgG) by enzyme-linked immunosorbent assay (ELISA) (Euroimmun, Germani).

Results: In Nisava district no TBEV IgG positivity was detected. WNV IgG positivity in Nisava district was 2.5%(2/80). In South Backa district IgG antibodies against TBEV were detected in 7.9%(8/101) and IgG antibodies against WNV were detected against WNV 9.9%(10/101).

Conclusion: This study demonstrates the existence of WNV and TBEV in South Backa District. Results for Nisava District suggest circulation of WNV among humans in that part of Serbia, but not of TBEV.

Key Words: Seroprevalence, WNV, TBEV

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