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**REPORTS**  
**The First Symposium of Zoonoses**  
**with international participation**  
**Sarajevo, April 22-23, 2005**



## **Conference report**

Mirsada Hukić, president of the Organizers Committee

On the 22<sup>nd</sup> and the 23<sup>rd</sup> of April 2005, the Microbiology - and the Society of Infectiology of Bosnia and Herzegovina and the Clinical Centre of the University of Sarajevo, Institute of Science and Development, organised under the auspices of the Academy of Sciences and Arts of Bosnia and Herzegovina, the First International Symposium on Zoonoses with emphasis on Hemorrhagic Fever with Renal syndrome (HFRS), Q-Fever and Brucellosis.

Participants from Slovenia, Croatia, Belgium, Finland, United States of America, Macedonia, Serbia and Montenegro, Kosovo and Bosnia-Herzegovina enjoyed two days of high-level scientific presentations and discussions. There were 77 Institutions as participants of the Symposium.

In the field of HFRS, participants presented data concerning the epizootical and epidemiological status of their respective regions and provided a unique total picture of the past and current situation.

Q-Fever and Brucellosis, both re-emerging infections of concern to the entire Balkans region and the respective Public Health systems, were discussed in detail and valuable suggestions and recommendations were brought forward for management, standardisation of sampling and detection and prevention.

The close collaboration between medical doctors of all relevant specialities (microbiology, nephrology, pathology, infectology, epidemiology, etc), veterinarians and scientists thus provided an excellent platform for establishing collaborations and exchange of knowledge. The new ideas concerning treatment, patient management, surveillance for zoonoses and early warning systems that "emerged" from this conference will, no doubt, have a positive impact on future public health efforts in the region.

Sponsored by Bosnalijek, Pharma Swiss, Diamedica and Sedan, this initiative to look over the borders, detect mutual problems and suggest common solutions, was more successful than could be expected and will hopefully become a tradition. In two years time, the Second International Symposium on Zoonoses will be held in Banja Luka.

## HTV

### **The main epidemiological characteristics of Hemorrhagic Fever with the renal syndrome in Republic of Serbia**

Samardžić Svetomir<sup>1</sup>, Nedić Lj<sup>2</sup>, Parlić M<sup>2</sup>, Božović Bojana<sup>3</sup>, Simović Tatjana<sup>4</sup>, Milić A<sup>1</sup>, Stevanović J<sup>1</sup>, Gligić Ana<sup>3</sup>

*1 Medical Faculty Priština - Kosovska Mitrovica; 2 Institute of Public Health of Republic of Serbia «Milan Jovanović Batut» Beograd; 3 Institute «Torlak» Beograd; 4 Institute of Public Health Kruševac*

### **Haemorrhagical Fever in Mačva District from 1997. to 2003.**

D. Marković<sup>1</sup>, N. Sofranić<sup>1</sup>, D. Radojičić<sup>1</sup>, S. Kuzmanović<sup>1</sup>, N. Đurić<sup>2</sup>, N. Mrđen<sup>2</sup>, D. Tadić<sup>2</sup>

*Iph "Vera Blagojevic" Sabac<sup>1</sup> ; Mc "Milenko Marin" Loznica<sup>2</sup>*

### **The management of surveillance of haemorrhagic fever with renal failure syndrome**

Goran Pavić<sup>1</sup>, Blasko Topalović<sup>2</sup>, Mirela Omerkić<sup>2</sup>

*Cantonal public health institute Orasje<sup>1</sup> ; Cantonal public health institute Tuzla<sup>2</sup>*

### **Ophthalmic disorders three years after the acute glaucomatous attack in patient with hemorrhagic fever with renal syndrome**

<sup>1</sup>Denis Marušić, <sup>2</sup>Iva Dekaris, <sup>2</sup>Damir Bosnar, <sup>1</sup>Josip Begovac, <sup>3</sup>

Alemka Markotić

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*<sup>2</sup>General Hospital “Sveti Duh” Zagreb, Croatia; <sup>3</sup>Institute of Immunology, Zagreb, Croatia*

### **HFRS outbreak and Pumala virus in Croatia in 2002**

Lidija Cvetko<sup>1</sup>, Alemka Markotić<sup>1</sup>, Angelina Plyusnina<sup>2</sup>, Josip Margaletić<sup>3</sup>, Marica Miletić-Medved<sup>4</sup>, Nenad Turk<sup>5</sup>, Zoran Milas<sup>5</sup>, Tatjana Avšič-Županc<sup>6</sup>, Alexander Plyusnin<sup>2</sup>

*<sup>1</sup>Institute of Immunology, Zagreb, Croatia ; <sup>2</sup>Haartman Institute, University of Helsinki, Helsinki, Finland <sup>3</sup>Faculty of Forestry, University of Zagreb, Zagreb, Croatia*

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## **Influent of climatic factors on the outbreak of epidemic of hemorrhagic fever with renal syndrome**

Mirsada Hukić, Enis Osmančević, Denijal Tulumović, Šefkija Muzaferović  
*1. Institute of microbiology, immunology and parasitology, Clinical Centre of University Sarajevo; 2. Department of Geography, Faculty of Philosophy, University Sarajevo; 3. Clinic of Internal Diseases, Tuzla University Clinical Centre ;4. Department of biology, Faculty of Philosophy, University Sarajevo*

## **Hemorrhagic fever with renal syndrome in Požega Area (review on clinical and laboratory indicators of epidemic HFRS in 2002. at County Hospital Požega )**

D. Petković<sup>1</sup>, Z. Andrić<sup>1</sup>, P. Petrić<sup>2</sup>  
*Department of Infectious Diseases, County Hospital Požega<sup>1</sup>, Croatia  
Department of Dialysis, County Hospital Požega<sup>2</sup>, Croatia*

## **Genetic Analysis of Wild-Type and Human Strains of Hantaviruses Causing Hfrs in Slovenia**

Saksida Ana<sup>1</sup>, Puterle Ajda<sup>1</sup>, Duh Darja<sup>1</sup>, Trilar Tomi<sup>2</sup>, Petrovec Miroslav<sup>1</sup>, Avšič-Županc Tatjana<sup>1</sup>  
*<sup>1</sup>Institute of Microbiology and Immunology, Medical Faculty, Ljubljana  
<sup>2</sup>Slovenian Museum of Natural History*

## **Fatal Chronic Kidney Disease – Balkan Endemic Nephropthy and Hantaviruses**

Gligic Ana<sup>1</sup>, Kovacevic Z.2, Skataric V.2, Rabrenovic V.2, and Jovanovic D.2.  
*1. Institute of immunology and virology, Belgrade, Serbia and Montenegro,  
2. Clinic of nephrology, Military Medical Academy, Belgrade, Serbia and Montenegro.*

## **Early Activation Mechanisms in Lung Fibroblasts Infected with Hantaviruses**

<sup>1</sup>Cebalo, Ljiljana, <sup>1</sup>Markotic, Alemka, <sup>2</sup>Schmaljohn, Connie  
*<sup>1</sup>Institute of Immunology, Zagreb, Croatia; <sup>2</sup>U.S. Army Medical Research Institute of Infectious Diseases, Frederick, MD, USA*

## **Renal Pathohistological Findings in Hfrs Patiens in Biopsy and Autopsy Specimens - Experience From Balkan**

Dimitrijevic J.(1), Zaki S.(2), Micic S.(1), Radosavljevic R.(1), BrajuskoVIC G.(6), Cerovic S.(6), Bogdanovic R.(3), Kovacevic Z.(4), Skataric V.(4), Aleksic A.(4) and Gligic A.(5)



## **Hemorrhagic Fever with Renal Syndrome in Croatia - what are the news and what have we learned?**

Ilija Kuzman<sup>1</sup>, Ivan Petričević<sup>1</sup>, Alemka Markotić<sup>2</sup>

<sup>1</sup>University Hospital for Infectious Diseases, Zagreb, Croatia; <sup>2</sup>Institute of Immunology, Zagreb, Croatia

## **Hemorrhagic Fever with Renal Syndrome (Hfrs) in Kosova**

S. Ahmeti, M. Bajrami, I. Dedushaj, Sh. Dreshaj, Gj. Mulliqi, A. Nura, A. Vishaj

## **Puumala and Dobrava Viruses Inducement Hemorrhagic Fever with Renal Syndrome - Glomerular Filtration Rate Convalescents Nine to Ten Years after Acute Phase**

Denijal Tulumović<sup>1</sup>, Enisa Mešić<sup>1</sup>, Mirsada Hukić<sup>2</sup>

<sup>1</sup>Clinic of nephrology, urology, dialysis and kidneys transplantation, University Clinical Center Tuzla; <sup>2</sup>Department of Microbiology, University Clinical Center Sarajevo, Bosnia and Herzegovina.

## **Crimean-Congo Hemorrhagic Fever (CCHF) in Kosova**

S. Ahmeti, S. Avdiu, Xh. Demiri, T. Doda, H. Ramadani, L. Ajazi, V. Krasniqi

## **Emerging and Reemerging Viral Zoonoses**

Avšič-Županc Tatjana

Inštitut za mikrobiologijo in imunologijo, Medicinska fakulteta, Ljubljana, Slovenija

## **Hantaviruses in Western Europe**

P. Heyman.

Research Laboratory for Vector-borne Diseases, Queen Astrid Military Hospital, Bruynstraat, B-1120 Brussels, Belgium

## **Diagnostic of Hemorrhagic Fever with Renal Syndrome**

Ivana Matijević, Ljiljana Cebalo, Alemka Markotić

Institute of Immunology, Zagreb, Croatia

## **Serological Evidence on Presence of Puumala Like and Belgrade/Dobrava Hantaviruses at the Haemorrhagic Fever With Renal Syndrome Suffering Patients on North- Western Bosnia**

Golubovic, S<sup>1</sup>, Gligic, A<sup>2</sup>, Bozovic, B<sup>3</sup>, Roganovic, T<sup>1</sup>, Surlan, S<sup>1</sup>, and Djuricic, B<sup>3</sup>

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## **Clinical and Epidemiologic Characteristics of Hemorrhagic Fever with Renal Syndrome**

Snježana Mehanić, Fikret Pinjo, Jasna Topalović, Vesna Hadžiosmanović, Akif Osmić, Meliha Hadžović

*Clinic for Infection disease, Clinical Center of University, Sarajevo*

## **Epizootology and Epidemiology Characteristics of Hfrs in Former Yugoslavia**

Gligic Ana<sup>1</sup>, Stojanovic R.<sup>2</sup>, Obradovic M.<sup>2</sup> and Samardzic S.<sup>3</sup>.

*1. Institute of immunology and virology, Belgrade, Serbia and Montenegro,*

*2. Institute of epidemiology, Military Medical Academia, Belgrade, Serbia and Montenegro; 3. Faculty of Medicine, Pristina-Kosovska Mitrovica.*

## **Mitochondrial Factors And Extracellular Matrix Molecules Are Responsible For Apoptosis Caused By Hantaviruses**

<sup>1</sup>Markotic, Alemka, <sup>1</sup>Cebalo, Ljiljana, <sup>2</sup>Schmaljohn, Connie

*<sup>1</sup>Institute of Immunology, Zagreb, Croatia*

*<sup>2</sup>U.S. Army Medical Research Institute of Infectious Diseases, Frederick, MD, USA*

## **Seroprevalence Of Antibodies To Hantaviruses In Patients From The Health Centre Tuzla**

Amela Cickusic<sup>1</sup>, Nedzada Irejiz<sup>1</sup>, Eldina Jahic<sup>1</sup>, Dzermal Kadusic<sup>1</sup>, Vesna Majher<sup>1</sup>, Adela Mehicic<sup>1</sup>, Azra Sahinbegovic<sup>1</sup>, Nermin Sehic<sup>1</sup>, Suzana Sarana<sup>2</sup>

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## **HTV posters**

### **Outbreak Of Hemorrhagic Fever With Renal Syndrome In Central Bosnia In 2002.**

E. Hadžić, L. Čalkić, N. Mujić, M. Hukić<sup>1</sup>, Admir Čalkić<sup>2</sup>

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*of Microbiology, University Clinical Center Tuzla<sup>1</sup>, Bosnalijek<sup>2</sup>, Bosnia and Herzegovina.*

### **Chronic Renal Failure As A Consequence Of Hemorrhagic Fever with Renal Syndrome ( Hfrs)**

Veselin Skataric, Z. Kovacevic, V. Rabrenovic, D. Jovanovic, K. Obrencevic, A. Gligic.

*Military Medical academy, Nephrology Clinic, Virusology Institute Torlak*

**Hemorrhagic Fever With Renal Syndrome During Pregnancy  
Resenatation Of Two Patients**

Milovan Živković, Svetlana Balać  
*General Hospital Berane*

**Haemorrhagic fever with nephrotic syndrome (Nephroso Nephritis) in  
the municipality of Konjic form 1984 to 2004 - the extract**

Armina Lazarević, Amira Alajbegović-Dzumhur  
*Opća Bolnica Konjic*

**Importance Of Ultrasonography In Diagnostic Of Hemorrhagic  
Fever With Renal Syndrome**

Jasna Topalović, Snježana Mehanić, Vesna Hadžiosmanović, Nermina  
Bajramović, Meliha Hadžović  
*Clinic for Infection diseases, Clinical Center of University, Sarajevo*

**The Clinical Characteristics Hemorrhage Fever With The Kidney  
Sindrom In Epidemic 2002 Year.**

Jahić R., Ahmetagić S., Šabović S., Delalić L., Mešanović J.  
*JZU University Clinic Center Tuzla ,The Clinic for Infection Diseases*



**3 Q fever**

**Epidemiologic Characteristics Of Q Fever In Croatia**

1.Ropac Darko, 2.Mulić Rosanda, 3.Ira Gjenero-Margan, 4.Mladen  
Smoljanović, 5.Oskar Lučev,

*1. Institute of Public Health, Split-Dalmatia County, Split; 2. Institute of Naval  
Medicine, Croatian Navy, Split, Croatia; 3 Croatian Institute of public Health, Zagreb;  
4. Institute of Public Health, Split-Dalmatia County, Split; 5. Primary Health Care,  
Zagreb*

**Q- Fever In Serbia**

Radovan Čekanac, Novica Stajković  
*Institute of Epidemiology, Military Medecine Academy, Belgrade*

**Q Fever In Animals In The Regions Around The River Drina**

Đuričić Bosiljka<sup>1</sup>, Laušević D.<sup>2</sup>, Radovanović D.<sup>3</sup>, Mitrović Novalina<sup>4</sup>,  
Marković D.<sup>5</sup>

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3) Veterinary Inspection, Serbian Ministry of agriculture, forestry and waterpower  
4) Srpska Republic Ministry of agriculture, forestry and waterpower  
5) Institute for public health, Sabac, Serbia*

### **Laboratory diagnosis of Q fever**

Mensura Šeremet<sup>1</sup>, Mirsada Hukić<sup>1</sup>, Nesina Avdagić,<sup>2</sup> Zvonka Knežević<sup>1</sup>

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*Clinical Center University of Sarajevo*

<sup>2</sup> *Medical faculty University of Sarajevo*

### **Q Fever At Cattle-Breeding Farm Prača**

Vesna Hadžiosmanović, Snježana Mehanić, Jasna Toplović

Merdina Ferhatović, Meliha Hadžović

*Clinic for Infectious Diseases, Clinical Center of University, Sarajevo*

### **Q-fever (Coxiella burnetii) investigations in dairy cows**

Branka Vidic, Ružica Ašanin, S. Bobos, D. Bugarski

*Scientific Veterinary Institute "Novi Sad"*

### **Nomadic Grazing Of Sheep And Widespread Epidemic Of Q Fever In Republic Of Srpska**

Jelena Maric, Violeta Santrac, M. Saric, B. Bjelajac, S. Golubovic, Z. Djeric, D. Kubelka

*Veterinary Institute of RS "Dr Vaso Butozan" Banjaluka: Faculty of Medicine, Banjaluka; Ministry of Agriculture, Forestry and Waterpower Engineering of RS, Bijeljina*

### **Q Fever In Human And Veterinary Pathology In Montenegro**

B. Andric<sup>1</sup>, D. Lausevic<sup>2</sup>, B. Lako<sup>3</sup>, N. Vucinic<sup>1</sup>, B. Dupanovic<sup>1</sup>, D. Terzic<sup>1</sup>, N. Draskovic<sup>1</sup>

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### **Q fever poster**

#### **Q-fever in Croatia**

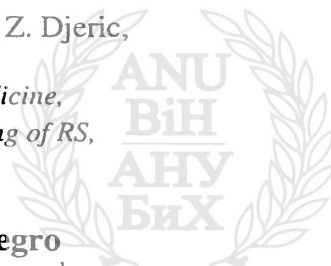
Ivan Puljiz, Ilija Kuzman, Oktavija Đaković-Rode

*Clinic of Infectious diseases «Dr. Fran Mihaljević» Zagreb, Croatia*

#### **Cross Reactivity During The Serotesting Of Blood Samples Upon Brucellosis And Q-Fever**

Tarik Bajrović

*Veterinary Faculty, University of Sarajevo*



## **Q-fever: case report**

Emir Halilbasic, Edita Sijercic

*JZU UKC Tuzla, Clinic for nephrology, urology, dialysis, and kidney transplantation*

## **Seroprevalence Specific Antibody To Rickettsia In Humans Sera From Different Locality In Serbia**

Samardzic S.1, Dasch G.2, Djuricic B.3, Lako B.4, Ristanovic E4, Bozovic B.5, Vukov B.6, Simovic T.7, Milic A.1, Eminovic M.8, Stajkovic N.4, ekanac R.34 and Gligic A.5.

*1. Medical Faculty Pristina-Kosovska Mitrovica, Serbia, 2. CDC, Atlanta USA, 3. Faculty of Veterinary Medicine, Belgrade, 4. Military Medical Academy, Belgrade, 5. Institute of immunology and virology, Belgrade, 6. Center for health care, Zrenjanin, Serbia, 7. Institute for health care Krusevac, 8. Center for health care Tutin, Serbia.*

## **Chronic Fatigue Syndrome after Q Fever a Case Report**

D Ledina, I Milas, I Ivic, B Lukšić, A Srzić

*Department for infectious diseases, Split University Hospital, Split;*

## **Q- Fever In Belgrade**

Ljubic Bozidar, Radmila Dmitrovic, Snezana Radivojevic, Slobodan Stanojevic

*Institute of Public Health of Belgrade*

*Serbian Institute for Veterinary Medicine, Belgrade*



## **Q – fever – clinical course of disease Case review**

Horozić M., Ahmetagić S., Mešanović J., Delalić L.

*UKC TUZLA Clinic of Infectious diseases*

## **Brucellosis**

### **Monitoring Possibilities Of Brucellosis By**

#### **Elisa Testing Of Milk**

Bradarić Abida<sup>1</sup>, Kapetanović Osman.<sup>1</sup>, Zahirović Lejla<sup>2</sup>

*Health ministry of Canton Sarajevo – sanitary inspection<sup>1</sup>*

*Cantonal veterinary station Sarajevo<sup>2</sup>*

### **Efficiency Of Veterinary –Sanitary Measures For Ruminant Brucellosis Control**

Mitrovic N., Nedic D., Kubelka D., Marković T.

*Veterinary Institute of Bijeljina*

## **Seroprevalence of Brucellosis In Ruminants In Republic Of Srpska From 2001 To 2004**

Jelena Maric, Novalina Mitrovic, Violeta Santrac, M. Saric, D. Despotovic, D. Nedic, D. Kubelka; *Veterinary Institute of Republic Srpska "Dr. Vaso Butozan" Banjaluka; Ministry of Agriculture, Forestry and Waterpower Engineering, Bijeljina; Veterinary Institute of Bijeljina*

## **Dynamic of Specific Antibodies Titers in Patients with Brucellosis**

Nurkić M<sup>1</sup>, Delibegović Z<sup>1</sup>, Kikanović H<sup>1</sup>, Numanović F<sup>1</sup>, Tihic N<sup>1</sup>, Imamović A<sup>1</sup>, Nurkić J<sup>1</sup>, Džafić F<sup>1</sup>, Sabitović D<sup>1</sup>, Hadžihafizbegović S<sup>1</sup>, Mešanović J<sup>2</sup>,  
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*2. Clinic for Infectious diseases of University clinical center Tuzla.*

## **Current Zoonoses Brucellosis and Q-fever – Epidemiological aspects of hospitalized patients at the Clinic for Infectious Diseases**

Drnda A, Pinjo F, Osmić A, Ferhatović M, Jusufi I, Gazibera B.  
*Clinic for Infectious Diseases, KCU Sarajevo*

## **Investigation Of Sensitivity And Specificity Of Some Serological Methods In Brucellosis Diagnostics**

Asanin Ruzica, Vidic Branka, Grgic Z., Matovic K. And Nisavic J.

## **Distribution Of Brucellosis In Serbia**

Radovan Čekanac, Novica Stajković  
*Institut of Epidemology, Medical Military Academy, Belgrade*

## **Clinical and lab characteristics of brucellosis in Tuzla Canton**

Poljakovic A1, Zahirovic M1, Ahmetagić S1, Horozic M1, Piljic D1, Stojic V1, Petrovic J1, Sinanovic A1.  
*1 Clinic for infection Disease UKC Tuzla*

## **Human brucellosis in Croatia and at the University Hospital for Infectious Diseases «Dr. Fran Mihaljević» in Zagreb**

Balen Topić M, Beus A, Cvetnić Ž, Skuhala T, Desnica B.

## **Bottom of Form Human brucellosis: an overview**

I. Curic, I. Kuzman, M. Ostojic, S. Puvacic, S. Curic, B. Vidovic  
*Clinical Hospital Mostar Department for infectious diseases*



## **Microbiological diagnosis of brucellosis: modern approaches and Serbian experiences**

Ristanovic Elizabeta, Lako Branislav,  
*Institute for Microbiology, Military Medical Academy, Belgrade, Serbia and Montenegro*

## **Zoonosis In Infectious Practica**

Dautović-Krkić S. Lukovac E. Mostarac N. Hadžović M. Gazibera B. and Muratović P.  
*Clinic for Infectious Diseases, Clinical and University Center of Sarajevo, B&H*

## **Presentation, Diagnosis And Treatment Of Acute Brucella Meningitis (a case report)**

\*Dragan Mikić, \*Milomir Đokić, °Branislav Lako, \*Milomir Milanović  
*\*Clinic for infectious and tropical diseases and °Institute of microbiology and parasitology. Military Medical Academy. Belgrade, Serbia and Montenegro.*

## **Clinical And Epidemiological Characteristics Of Brucellosis In Patients Treated During The 2002-2004 Period**

Snježana Mehanić, Fikret Pinjo, Vesna Hadžiosmanović, Jasna Topalović, Merdina Ferhatović, Meliha Hadžović  
*Clinic for Infectious Diseases, Clinical Center of University, Sarajevo*

## **Brucellosis Foci Never Before Detected In The Area Of Belgrade**

Ljubic Bozidar, Radmila Dmitrovic, Vera Babic- Dunjic, Tijana Relic, Snezana Radivojevic, Slobodan Stanojevic, Dragica Vojinovic, Jadranka Zutic  
*Institute of Public Health of Belgrade, Serbian Institute for Veterinary Medicine, Belgrade*

## **Brucellosis In The Republic Of Macedonia-Clinical Experiences**

Bosilkovski M, Krteva Lj, Caparoska S, Dimzova m, Sopova Z.  
*Klinika za infektivni bolesti i febrilni sastojbi Skopje, R. Makedonija*

## **Brucella Melitensis Biotip 3 – Description Of An Epidemic**

Violeta Santrač, Jelena Marić, Sonja Nikolić, Sonja Radojičić, D. Sando, D.Kubelka  
*Veterinary Institute of Republic of Srpska «Dr. Vaso Butozan» Banjaluka*

## **Brucellosis in the municipality of Konjic - the extract**

1.A. Lazarević, 2.N. Derviškadić, 1. A. Alajbegovic-Dzumhur 1. *Opća Bolnica Konjic*; 2. *RMC Mostar*

## **Brucellosis in Herzegovina**

Obradović Zarema <sup>1</sup>, Derviškadić Nazif <sup>2</sup>

1. *Public Health Institute, Mostar*

2. *Department of infectious diseases of RMC "Dr.Safet Mujić" in Mostar*

## **Brucellosis – posters**

### **Spondylodiscitis as a rare manifestation of brucellosis**

Vesna Turkulov, Nadežda Madle-Samardžija, Grozdana Čanak, Radoslava

Doder, Jovan Vukadinov, Siniša Sević

*Clinic for Infectious Diseases, Clinical centre Novi Sad*

### **Brucellosis- case report**

Zahirovic M1, Poljakovic A1, Horozic M1, Hadzic E2, Piljic D1, Stojic V1, Petrovic J1, Sinanovic A1.

1 *Clinic for Infection Diseases*; 2 *Clinic for Internal Diseases*

### **Brucellosis as a protracted febrile illness- case report**

T. Skuhala, A. Beus, B. Desnica, M. Balen Topić

*Clinic for Infectious diseases «Dr. Fran Mihaljević» Zagreb, Croatia*

## **Zoonose – posters**

### **Zoonoses: The vet - profession of a high risk**

R.Velić

*Department of epizootiology, Veterinary faculty, University of Sarajevo*

### **Farmyard manure as transmitter of zoonoses**

Zarema Obradović<sup>1</sup>, Taib Šarić<sup>2</sup>

1. *Public Health Institute Mostar*; 2. *Faculty for agriculture Sarajevo*

### **Zoonoses In The Postwar B&H**

#### **Important Common-Health Problem**

E. Bektaš, Z. Smajlagić

*Javna ustanova «Dom zdravlja sa poliklinikom» VISOKO*

### **Zoonotic agents as biological weapons**

Ristanovic Elizabeta, Lako Branislav

*Institute for Microbiology, Military Medical Academy, Belgrade, Serbia and Montenegro*



## **Soluble Fas And Transforming Growth Factor Beta-2 In Acute Viral And Bacterial Zoonoses Infections**

<sup>1</sup>Mateja Janković, <sup>1</sup>Alemka Markotić, <sup>1</sup>Ljiljana Cebalo, <sup>2</sup>Oktavija Đaković Rode, <sup>2</sup>Ivan Puljiz, <sup>3</sup>Danica Ramljak,  
<sup>1</sup>*Institute of Immunology, Zagreb, Croatia*, <sup>2</sup>*University Clinic for Infectious Diseases, Zagreb, Croatia*, <sup>3</sup>*National Cancer Institute at Frederick, Frederick, MD; USA*.

## **Zoonosis In Tuzla Canton – Always A Current Problem**

Ahmetagić S<sup>1</sup>, Topalović B<sup>2</sup>, Mešanović J<sup>1</sup>, Šabović S<sup>1</sup>, Pavić G<sup>3</sup>.

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## **Viral And Bacterial Zoonosis In Forestry Workers**

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## **Small Rodents And The Forest Ecosystem In Croatia**

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## **Conclusions**

1. Zoonosis are still actual problem in Bosnia and Herzegovina, as well in South-east countries in Europe, important for human and veterinary medicine, as well for the edonomy and biosafety of the countries.
2. There were noticed different aproach to the prevention, diagnostics and therapy of zoonoses.
3. For the resolution of these problems it is recommended close cooperation of scientists and workers – investigators from human as well veterinary medicine and the govermental institutions ( including all levels protection).
4. It is recommended creation of a Permanent body for zoonoses in B&H, with the representatives of human and veterinary medicine, organized by the sectors of different diseases ( hemorrhagic fever, brucellosis, Q-faver, rabies, trichinellosis and so far ( under the experts principe)

5. The main goal of this body for zoonoses in B&H is to bring the protocols and the procedures for diagnostics, therapy and prevention of zoonoses and to create the laboratories which will work on all the territory on B&H.
6. It is a need to organize the referent centres for zoonoses and equip the laboratories with biosafety levels 3.
7. To carry out a registration of the farms and to mark all animals due to control the moving of animals.
8. To promote a work of veterinary, sanitary and public health inspection.
9. The institutions and individuals from veterinary and human medicine should be included in continuing education of population.
10. It is necessary to include in the Mediterranean program of zoonoses.
11. To apply the international standards in the control of zoonoses in a people as well in animals (monitoring)
12. To create a regular and extraordinary system of reporting about zoonoses between the competent services in human and veterinary medicine, as well with the new dewerb on zoonosis in neighboring countries.
13. To make the maps with the regions in which zoonoses are existing.
14. It is necessary to advance the scientific-research work in area of zoonoses. A specially attention should be direct to the isolation and identification the news or the old changed of pathogens which presumably circulating on the region of B&H. To study a existence – persistence of sequelae after the past diseases of hemorrhagic fever with the kidney syndrome. To promote and develop diagnostic procedures of zoonoses to be efficient in practice.
15. To organize symposiums every second year and congress of zoonoses every fourth year.