



Snežana Tomanović, professor of research

Group for Medical Entomology, Centre of Excellence for Food- and Vector-borne Zoonoses

Institute for Medical Research, National institute of Republic of Serbia University of Belgrade















Group for Medical Entomology, Institute for Medical Research (GME IMR)

Over 75 years of research in the feeld of medical entomology
Over 40 years of tick research
App 15 years of citizen oriented services
Centre of excellence for food- and vector-borne diseases - 2009
Basic and applied research of ticks and tick-borne pathogens

- •Dr sci biol. Snežana Tomanović, biologist, professor of research
- •Dr sci biol. Darko Mihaljica, molecular biologist, senior research associate
- •Dr sci med. Ratko Sukara, DMV, research associate
- •Dr sci med. Gorana Veinović, pharmacist, senior research associate
- •Dr sci med. Valentina Ćirković, biologist, research associate
- •Kristina Jevremović, molecular biologist, PhD student











GME IMR - 15 years of citizen oriented services

General public - Entomological examination of material, Detection of Borrelia burgdorferi s.l. in

ticks

Medical doctors

Veterinarians

Pet owners

Students

Professionaly exposed persons

Services

Information

Contact with scientists

State of the art knowledge

Credibility

...

Questions

Observations

Information

Attitudes

Needs

Feedback

..













Ticks - associations

Outdoor activities = ticks

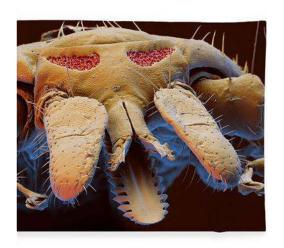


Tick attached to the body = go to the doctor (preferable emergency unit)

Infected tick = antibiotic

















Article

Knowledge, Attitudes, and Practices on Tick-Borne Encephalitis Virus and Tick-Borne Diseases within Professionally Tick-Exposed Persons, Health Care Workers, and General Population in Serbia: A Questionnaire-Based Study

Ana Vasić ¹, Jovana Bjekić ¹¹

, Gorana Veinović ¹, Darko Mihaljica ¹, Ratko Sukara ¹, Jasmina Poluga ^{2,3}, Saša R. Filipović ¹

and Snežana Tomanović ¹

**Tomanović ¹

**Tom

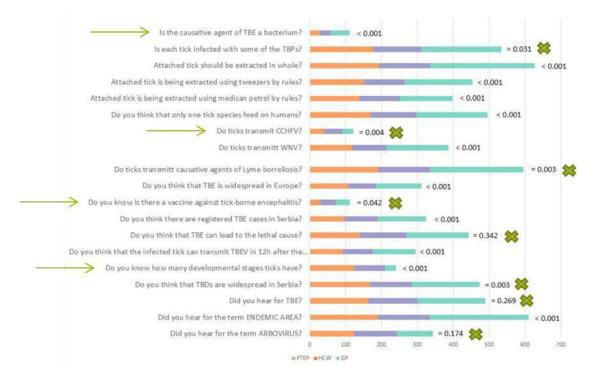




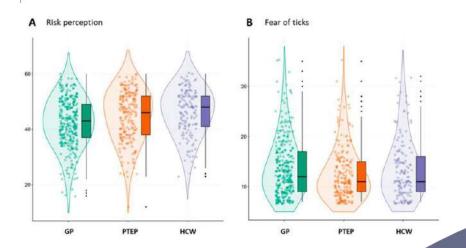


Table 1

Results of the tested parameters of the three groups of participants in terms of knowledge, attitudes, and practices in Serbia.

Group	Participants (No.)	Mean Age of Participants (Years (CI)/Minimum- Maximum)	Sex (Male/Female/Other)	Having Children under 18 Years	Having Dogs	Tick Bite during the Lifetime	TBDs	TBDs— Family Members
PTEPs	199	42.9 (30.3- 55.5)/20-74	101/97/1	72	97	146	8	14
HCWs	147	43.2 (30.6- 55.7)/19-75	59/88/0	66	79	82	6	12
GP	296	39.7 (28.4- 50.9)/18-76	80/215/1	129	108	165	3	24
Total	642	41.9/18-76	240/400/2	267	284	393	17	50

TBD-tick-borne diseases; PTEPs-professionally tick-exposed persons; HCWs-health care workers; GP-general population.











Anthropophilic tick species - our experience



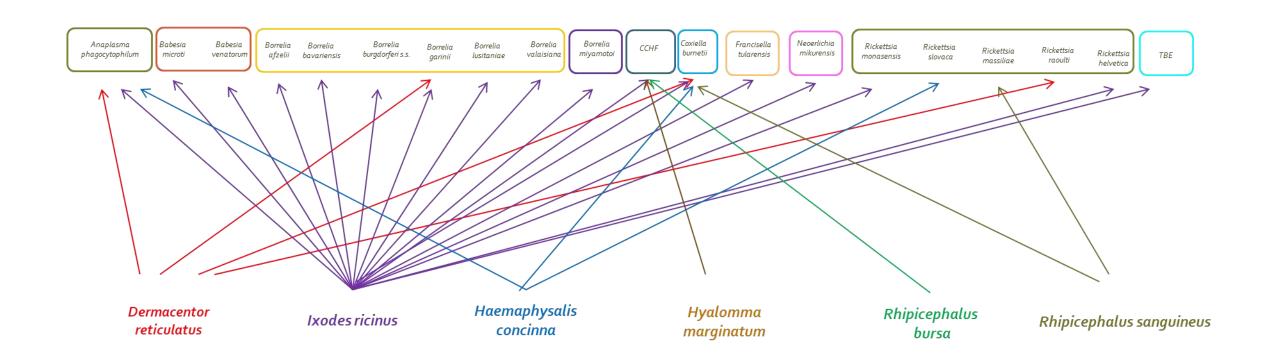








Ticks – pathogens interactions – Serbian interplay





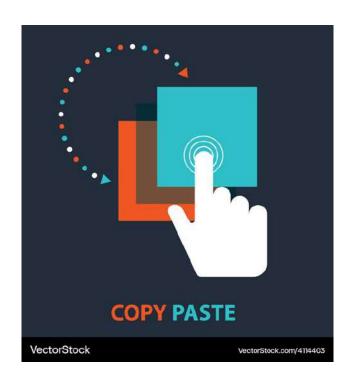






No copy – paste solutions → locally tailored prevention, control, diagnostic and therapeutic approaches are essential

Well founded diagnosis, treatment, and effective prevention of TBDs rely on knowledge of pathogens' presence, genetic variability and virulence in a particular area





















Tailoring management of tick-borne diseases based on diversity of ticks and tick-borne, pathogens (TalkToTick)

PROJECT ID

Sub-program: Biomedicine

Budget: app 280000 euro

Duration: 3.1.2024. - 3.1.2027

Participating Scientific and Research Organization (SRO):

Leading SRO - Institute for Medical Research, National Institute of Republic of Serbia, University of Belgrade, Serbia (IMI)– 5 participants, PI, 3 WP leaders

Principal Investigator (PI) (Name and contact details): Dr. Snežana Tomanović, snezanat@imi.bg.ac.rs

Partner organizations on the project.

Faculty of Medicine, University of Belgrade (MFUB) – 2 participants, 1 WP leader

Faculty of Medicine, Military Medical Academy, University of Defense (MFVMAUO) – 1 participant

Faculty of Biology, University of Belgrade (FBUB) – 1 participant

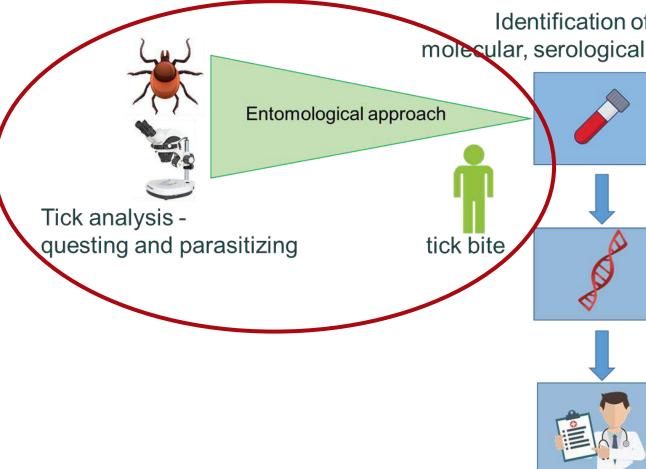
Faculty of Philosophy, University of Belgrade (UBFZF) – 1 participant

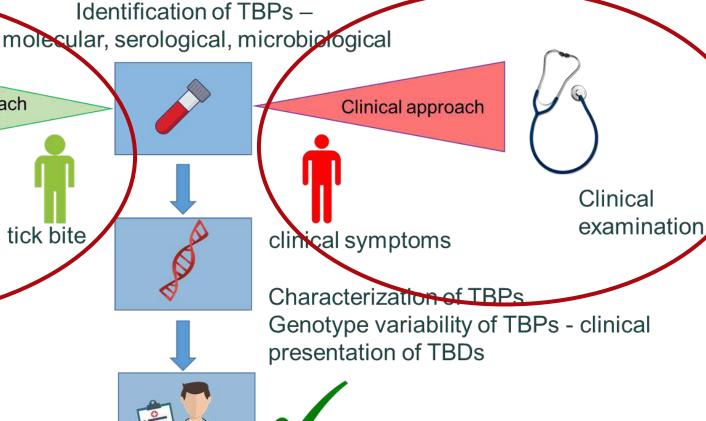












Development of adequate

detection and treatment

protocols











WP₁

Ecology and
epidemiology of
questing and
parasitizing ticks and
ick-borne pathogens

Dr. Ratko Sukara



WP₂

Etiological agents and clinical manifestations of tick-borne diseases in humans

Dr. Dušan Škiljević



WP₃

Development of detection protocols and methods correspondent to the local enzootic and epidemiological situation

Dr. Darko Mihaljica



WP₄

Dissemination and communication

Dr. Gorana Veinović

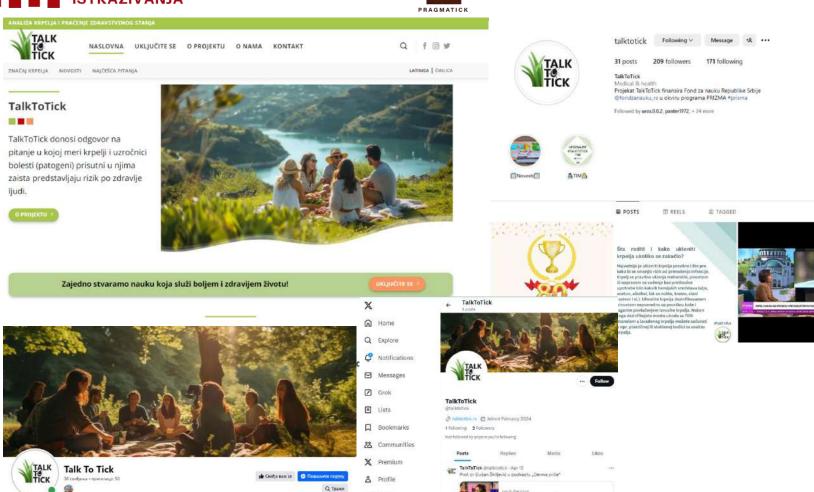


Razvoj pristupa upravljanja bolestima prenošenih krpeljima











Dr. Kaja Damnjanović – psychologist Professor at Faculty of phylosophy UB

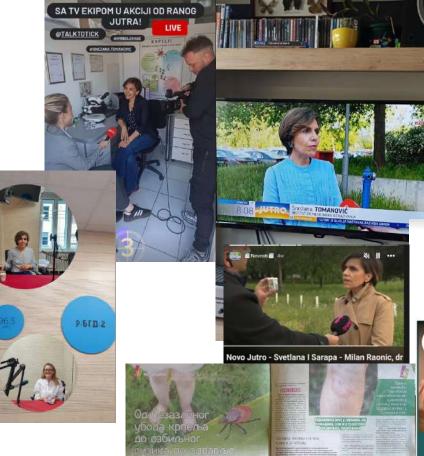






TalkToTick na Beograd 202







Gostovanje prof. dr Dušana Škiljevića u podkastu "Derma priče". O krpeljima, potencijalnim rizicima od njihovog boda, o prevenciji kao i projektu TalkToTick.



O projektu Talk To Lick danas u Pelitici

крпеља POLITIKA.RS

На Институт за медицинска истраживања у Булевару ослобођења може се донети извађени крпељ да би се утврдило да ли је заражен. – Испитивање се односи на десет различитих узрочника болести које преносе ови паразитиФото























II medical appointment



Up to 10 days



7 days



App 6 weeks from tick bite



Borrelia burgdorferi s.l.

Borrelia miyamotoi

Anaplasma phagocytophilum

Rickettsia sp.

Neoehrlichia mikurensis

Babesia sp.

Ehrlichia canis

TBE

CCHF

Francisella tularenis

I medical appointment

(tick analysis results)

III medical appointment









Training school for medical doctors, Beograde, June 19th 2024.









THANK YOU!

This research was supported by the Science Fund of the Republic of Serbia, #GRANT No 7339, Tailoring management of tick-borne diseases based on diversity of ticks and tick-borne pathogens (TalkToTick)



