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**SCIENTIFIC PROGRAMME**  
**Third International Conference on Zoology,  
Zoonoses and Epidemiology**  
**October 21 – 23, 2019, Hissar, Bulgaria**

**Monday, 21 October 2019**

**13.00 – 18.00** Arrival, registration, posters set up. SPA Hotel “Hissar”.

**EPIDEMIOLOGY**

(Maritsa hall)

**Session chairs:** Prof. Rumen Konstantinov, Dr. Nadezhda Vladimirova

**14.00 – 14.10** Communicable diseases in the human evolution. **William Monev**

**14.10 – 14.20** Epidemiological forecasting – biosocial nature and methodology. **Yordanka Stoilova**

**14.20 – 14.30** Contemporary aspects of the epidemiological surveillance of socially significant tick-borne infections (TBIs) in Varna region. **Rumen Konstantinov**

**14.30 – 14.40** Epidemiological aspects of anthrax in North-East Bulgaria. **Tsonko Paunov**

**14.40 – 15.00** Benefits for the community from pneumococcal immunization programs. **Magdalena Mircheva, GSK**

**15.00 – 15.10** Legionella infections in Bulgaria. **Iskra Tomova**

**15.10 – 15.20** Zoonotic potential of *Helicobacter* spp. **Irena Mladenova**

**15.20 – 15.40** Decontamination – principles and tendencies. Contemporary methods and tools in reprocessing of reusable medical devices. **Dragomir Ivanov, MTE**

**15.40 – 15.50** Basic principles and approved decontamination method against biological warfare agents. **Milena Nikolova**

**15.50 – 16.10** Coffee-break

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**EPIDEMIOLOGY**

(Maritsa hall)

**Session chairs:** Assos. Prof. Nina Gatcheva, Prof. Irena Mladenova

- 16.10 – 16.25** Implementation of Medical standard on prevention and control of nosocomial infections: Conclusions based on questionnaire surveys of BAPIC BulNoso, 2012 – 2018. **Nina Gatcheva**
- 16.25 – 16.40** The pressure of vaccines on microorganisms and their response. **Andrey Galev**
- 16.40 – 17.00** Influenza and influenza vaccination in cardiovascular diseases. **Nikolay Badzhinerov, Sanofi-Pasteur**
- 17.00 – 17.15** Measles in Europe and in Bulgaria during the 2-nd decade of 21 century. **Nadezhda Vladimirova**
- 17.15 – 17.35** Immunizations for preterm infants. **Petya Galabova, GSK**
- 17.35 – 17.50** A review of global good practices to improve communication between pediatricians and parents on the topic of vaccines. **Savina Stoitsova**
- 17.50 – 18.00** Vaccine-preventable diseases in HIV (+) persons. **Nikolay Vatev**
- 19.30** **Welcome cocktail** at the Lobby bar, SPA Hotel “Hissar”.

**Tuesday, 22 October 2019**

- 8.00 – 9.00** Registration
- 9.00 – 9.45** **Opening.** Maritsa hall in SPA Hotel “Hissar”
- 9.45 – 10.15** **Plenary lecture:** Public Health challenges. **Assoc. Prof. Dr. Angel Kunchev, MD**, Chief State Health Inspector, Ministry of Health
- 10.15 – 10.45** **Plenary lecture:** Satellite tracking of birds: science and practice. **MSc Stoycho Stoychev**, Conservation Director of the Bulgarian Society for the Protection of Birds /BirdLife in Bulgaria
- 10.45 – 11.00** **Coffee-break**

## GENETICS AND MOLECULAR TAXONOMY

(Hissar hall)

**Session chair:** Prof. Dr. Teodora Staykova

**Session secretary:** Assist. Prof. Dr. Miroslav Antov

- 11.00 – 11.15** Molecular taxonomy study of genus *Alosa* (Clupeidae) in Black Sea based on variability in cytochrome b sequences. **Darinka Boyadzhieva-Doychinova**
- 11.15 – 11.30** Diagnostic markers for discrimination of the Bulgarian honey bee *Apis mellifera macedonica*, type *rodopica*, in accordance with its valuable ethological and productive qualities. **Evgeniya Ivanova**
- 11.30 – 11.45** New chromosomal form of mole rat in Bulgaria? Synaptonemal complex karyotype of *Nannospalax leucodon* (Rodentia) from the eastern area of Sofia. **Sergey Matveevsky**

## BIODIVERSITY, ECOLOGY AND CONSERVATION ZOOLOGY

(Hissar hall)

**Session chair:** Assoc. Prof. Dr. Tsenka Chassovnikarova

**Session secretary:** Chief Assist. Prof. Dr. Vesela Mitkovska

- 11.45 – 12.00** Some parasitological features of *Paradiplozoon bliccae* (Monogenea: Diplozoidae) infestation in *Pseudophoxinus burduricus* - an endemic fish species from Doğanbaba Creek, Turkey. **Özlem Özmen**
- 12.00 – 12.15** Pathological effects of *Eustrongylides excisus* in four teleost fish species of Eğirdir Lake, with a new host record. **Özlem Özmen**
- 12.15 – 12.30** Factors influencing the expansion of the Pine processionary moth (*Thaumetopoea pityocampa*) in Central Bulgaria. **Gergana Zaemdzhikova**
- 12.30 – 12.45** The flight of the Pine processionary moth (*Thaumetopoea pityocampa*) in the Valey of Mesta, Bulgaria. **Gergana Zaemdzhikova**

**12.45 – 13.00** Impact of egg parasitoids on Pine processionary moth (*Thaumetopoea pityocampa*) in a new habitat in Bulgaria.  
**Georgi Georgiev**

**13.00 – 13.15** DNA damage in sperm cells – biomarker for genotoxicity in striped field mouse (*Apodemus agrarius* Pallas, 1771) from rice fields. **Vesela Mitkovska**

## **ONE HEALTH**

(Maritsa hall)

**Session chairs:** Assoc. Prof. Angel Kunchev  
Prof. Dr. Todor Kantardzhiev

### **11.00 – 11.45 Review of new and current Public Health Programs in Republic of Bulgaria**

- National Program for control and treatment of rotavirus infections in Republic of Bulgaria (2017 – 2021).
- National Program for primary prophylaxis of cervical cancer (2017 – 2020).
- National Program for improving seasonal influenza vaccination (2019 – 2022).
- National Program for elimination of measles and rubella (2019 – 2022).
- Draft of National Program for control of viral hepatitis in Republic of Bulgaria (2019 – 2024).

### **11.45– 13.00 National Immunization Calendar – News, Challenges, Reporting and Control**

- National Immunization Calendar 2020 – changes, trends, experience - Implementation of NIC 2019.  
**Dr. Kremena Parmakova**, Ministry of Health
- Spread of pneumococcal serotypes in Bulgaria after the introduction of PCV10.  
**Prof. DSc Todor Kantardzhiev**,  
National Center of infectious and parasitic diseases
- Vaccinations – the point of view of the GP.  
**Assoc. Prof. Lyubomir Kirov**, National association of general practitioners in Bulgaria
- Epidemic management – the experience of a Regional Health Inspectorate.

**Dr. Bozhidara Kayrakova**, RHI Sofia Region

- Legal aspects of the Immunization Calendar implementation – lawyer's point of view.

**Maria Sharkova**, lawyer

- Vaccinations and anti-vaccine movement, attitude of the Bulgarians - joint study of Ministry of Health and University of Ruse “Angel Kanchev”.

**Assoc. Prof. Nikola Sabev**, University of Ruse

- MenB and Reverse vaccinology.

**Dr. Magdalina Mircheva** (GSK)

**13.00 – 14.00 Lunch, Restaurant SPA Hotel “Hissar”**

## **BIODIVERSITY, ECOLOGY AND CONSERVATION ZOOLOGY**

(Hissar hall)

**Session chair:** Assoc. Prof. Dr. Ivelin Mollov

**Session secretary:** Chief Assist. Prof. Dr. Peter Boyadzhiev

**14.00 – 14.15** Honey bee colony losses in Bulgaria during the period 2017 – 2019. **Iliyana Ilieva**

**14.15 – 14.30** The parasitoid complex associated with *Larinus sibiricus* Gyllenhal, 1835 (Coleoptera: Curculionidae) in Bulgaria. **Miroslav Antov**

**14.30 – 14.45** Atypical winter activity of fungus gnats (Diptera: Mycetophilidae) in critically endangered Mediterranean and sub-Mediterranean type habitats in Bulgaria. **Aneliya Pavlova**

**14.45 – 15.00** Fish diversity and distribution in the Ceyhan River Estuary (Adana-Turkey). **Deniz Innal**

**15.00 – 15.15** Seasonal changes in density and diversity of fishes in the Seyhan River Estuary (Mersin-Turkey). **Deniz Innal**

**15.15 – 15.30** Land-management subsidies for shrub removal are a major threat for herpetofauna in Bulgaria. **Georgi Popgeorgiev**

**15.30 – 15.45** Pilot line transect surveys of cetaceans in a Bulgarian MPA – BG0001007 Strandzha SCI. **Dimitar Popov**

**15.45 – 16.00 Coffee-break**

**16.00 – 18.00 Poster session, Trakiya hall in SPA Hotel “Hissar”**

**ONE HEALTH**

(Maritsa hall)

**Session chairs:** Assoc. Prof. Angel Kunchev  
Prof. Dr. Todor Kantardjiev

**14.00 – 14.50**

- Vector-borne zoonoses – current situation and future challenges to human and veterinary medicine.
- Vector-borne infectious diseases in humans in Bulgaria. **Prof. Iva Hristova**, National Center of Infectious and Parasitic diseases; **Assoc. Prof. Angel Kunchev**, MD, Ministry of Health, Republic of Bulgaria
- Current issues related to epizootic of African swine fever. **Prof. Georgi Georgiev**, Risk Assessment Center on Food Chain
- Role of different vectors for the outbreak of epidemics and epizootics in the country.

**14.50 – 15.45**

- Disinfections, disinsections, deratizations – new and established disinfectants and pest control substances, mode of action, in cooperation with local authorities and Bulgarian Food Safety Agency
- Principles of DDD activities in epidemiology. **Prof. William Monev**, National Expert Council of Surveillance and Control of Infection Diseases and Immunoprophylaxis, Ministry of Health
- Major mistakes in controlling mosquito populations in the country. **Assoc. Prof. Ognyan Mikov**, National Center of Infectious and Parasitic diseases
- DDD field activities – the experience of the health inspector in Sofia RHI. **Tsezarina Ilieva**, Sofia RHI

- BFSA's experience in organizing large-scale disinfestations in the country.

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**EPIDEMIOLOGY**

(Trakiya hall)

**Session chairs:** Prof. Yordanka Stoilova, Assoc. prof. Milena Karcheva

- 14.00 – 14.10** Chemical agents suitable for treatment of incubators. Disinfection of incubators - multicentre questionnaire study, 2019. **Milena Nikolova**
- 14.10 – 14.20** Efficacy and toxicological profile of repellents with IR3535 and DEET. **Sofia Bukovska**
- 14.20 – 14.40** Cleaning and disinfection in healthcare facilities – key aspect in the combat with healthcare-associated infections. **Mitko Sterev (BioKomTrendafilov)**
- 14.40 – 14.50** Epidemiological assessment – a basic element of medical support planning of military operations. **Rostislav Kostadinov**
- 14.50 – 15.20** Evidence – based medicine in support of immunoprophylaxis. **Ani Kevorkyan (MSD)**
- 15.20 – 15.30** Study of infectivity with *Borrelia burgdorferi* s.l among *Ixodes ricinus* population in Pleven region, Bulgaria. **Alexander Blazhev**
- 15.30 – 15.40** Research of the wild pigs infected with the parasite *Trichinella* in the Blagoevgrad district for the period from 01.01.2018. to 01.01.2019. **Andrey Galev**
- 15.40 – 15.50** Epidemiological evaluation of *L. monocytogenes* circulation. **Svetla Staneva**
- 15.45 – 16.00** **Coffee-break**
- 16.00 – 18.00** **Poster session**, Trakiya hall in SPA Hotel “Hissar”

**ONE HEALTH**

(Maritsa hall)

- 16.00 – 17.00** Closed meeting with the directors of Regional Health Inspections.
- 19.30** **Conference dinner**, Restaurant “Prestige” in SPA Hotel “Hissar”



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**Wednesday, 23 October 2019**

- 9.00 – 11.00 Round table** – discussion on current problems in the prevention and control of infectious diseases. **Maritsa hall**
- 9.30 – 11.00 Presentations of sponsors** – presentations of vaccines, medicines and disinfectants used in practice. **Trakiya hall**
- 11.00 – 11.30 Closing the conference. Maritsa hall**
- 11.30 – 12.00** General Assembly of Bulgarian Scientific Society of Epidemiology of infectious and noninfectious diseases. **Maritsa hall**
- 12.00 Lunch, Restaurant SPA Hotel “Hissar”**
- 13.00 Departure**

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**POSTER SESSION**

(Maritsa hall)

**ZOOLOGY AND ZOOSES (P1 – P46)**

**Poster panel:** Scientific committee of International Conference  
on Zoology and Zoonoses

- P1** New and additional records of earthworms (Annelida: Clitellata) from Kopaonik Mountain: First finding of *Allolobophora treskavicensis* (Mršić, 1991) in Serbia. Filip Popović, Mirjana Stojanović, Tanja Trakić, Jovana Sekulić, Slobodanka Sekulić, **Ralitsa Tsekova**
- P2** Effects of a modern biorational insecticide spinosad on earthworm, *Eisenia fetida* (Savigny 1826). Jovana Sekulić, Mirjana Stojanović, Tanja Trakić, Filip Popović, **Ralitsa Tsekova**
- P3** The first detection of *Toxoplasma gondii* in rivers in Serbia. Vladimir Ćirković, Aleksandra Uzelac, Ivana Klun, **Dragana Miličić**, Olgica Djurković-Djaković
- P4** Morphological variability of *Lepidurus apus* (Linnaeus, 1758) (Notostraca, Crustacea) from Bosnia and Herzegovina. **Dragana Miličić**, Đorđe Janković, Goran Šukalo, Dejan Dmitrović, Srećko Čolić, Ivana Šaganović, Bojan Ilić, Luka Lučić, Sofija Pavković-Lučić, Vukica Vujić
- P5** Where to swim, where to eat? Laboratory report on behaviour of the ostracod *Heterocypris incongruens*. **Tatjana Savić**, Branka Petković, Sofija Pavković-Lučić, Dragana Miličić
- P6** Influence of sex ratio and wing morphology on mating success in *Drosophila melanogaster*: lessons from female and multiple choice experiments. **Sofija Pavković-Lučić**, Jelena Trajković, Dragana Miličić and Tatjana Savić
- P7** Isoenzyme polymorphism in populations of ants of the species *Messor structor* and *Messor barbarous* as an approach for their

- discrimination. **Ivan Stoyanov**, Teodora Staykova, Penka Vasileva, Teodora Popova, Evgeniya Ivanova
- P8 Hygienic behaviour and fat body development in worker bees (*Apis mellifera* L.). **Svilen Lazarov**, Ivanka Zhelyazkova
- P9 Hygienic behaviour of local honey bee (*Apis mellifera* L.) and differences in the dimensions of chitin body parts of worker bees. **Svilen Lazarov**, Ivanka Zhelyazkova
- P10 Ontogenetic and caste differentiation in the expression of water-soluble proteins and some isozymes in termites of the species *Reticulitermes lucifugus* (Rossi, 1792) (Isoptera: Rhinotermitidae). Evgeniya Ivanova, Ivan Vulchev, Teodora Staykova, Teodora Popova, **Penka Vasileva**, Ivan Stoyanov, Miroslav Antov
- P11 Isoenzyme polymorphism of silkworm (*Bombyx mori* L.) breeds from germplasm resources of Bulgaria. **Teodora Staykova**, Panomir Tzenov, Yolanda Vasileva, Nikoleta Takova, Evgenya Ivanova, Ivan Stoyanov, Penka Vasileva, Teodora Popova, Miroslav Antov
- P12 New parasitoids of *Leucoptera sinuella* (Reutti) (Lepidoptera: Lyonetiidae) in Bulgaria. Maria Dobрева, Pencho Dermendzhiev, Nikola Kavardzhikov, Rumen Nachev, Peter Boyadzhiev, **Georgi Georgiev**
- P13 Entomopathogenic fungi (Ascomycota, Hypocreales) as natural antagonists of the pine processionary moth, *Thaumetopoea pityocampa*, in Bulgaria. Marek Barta, Miriam Kádasi Horáková, **Margarita Georgieva**, Plamen Mirchev, Gergana Zaemdzhikova, Daniela Pilarska, Danail Takov, Milcho Todorov, Zdravko Hubenov, Plamen Pilarski, Georgi Georgiev
- P14 *Sypastospora parasitica*, a parasite of entomopathogenic fungi *Beauveria pseudobassiana* and *B. varroae* on *Thaumetopoea pityocampa* - a new tritrophic associations in Bulgaria. **Margarita Georgieva**, Plamen Mirchev, Georgi Georgiev
- P15 Sensitivity to climate change of selected zooplankton species. **Kremena Stefanova**, Valentina Doncheva, Nadejda Valcheva, Elitsa Stefanova, Snejana Moncheva, Nataliya Slabakova, Violeta Slabakova

- P16 Zooplankton traits vs. environmental conditions within intra-decadal scale assessment in Lake Ohrid (North Macedonia, SE Europe). **Orhideja Tasevska**, Maria Špoljar, Dafina Gušeska, Goce Kostoski, Elizabeta Veljanoska Sarafiloska, Suzana Patcheva
- P17 Modelling factor – Macrophyte communities for macrozoobenthos in Lake Prespa, Republic of North Macedonia. **Biljana Budzakoska Gjoreska**, Sasho Trajanovski, Sonja Trajanovska, Marina Talevska
- P18 Diversity of macrozoobenthos in different type of Charophyta mono species communities in Lake Ohrid. **Sonja Trajanovska**, Marina Talevska, Biljana Budzakoska-Gjoreska, Saso Trajanovski
- P19 Physical-chemical and biological indicators in function of the Lake Ohrid trophic state assessment. **Elizabeta Veljanoska-Sarafiloska**, Orhideja Tasevska, Lence Lokoska, Suzana Patcheva, Jovica Leshoski
- P20 Histochemical and biochemical alterations in Zebra mussel, *Dreissena polymorpha* (Pallas, 1771) after Cd and PAHs chronic exposure. **Stela Stoyanova**, Vesela Yancheva, Iliana Velcheva, Iliana Iliev, Tonka Vasileva, Veselin Bivolarski, Elenka Georgieva
- P21 Cd and PAHs exposure changes the condition index and soft tissue wet ratio in *Dreissena polymorpha* (Pallas, 1771): a statistical perspective. **Vesela Yancheva**, Stela Stoyanova, Ivelin Mollov, Elenka Georgieva, Iliana Velcheva
- P22 Comparative analysis of the oxidative stress in Bulgarian Black sea bivalves and their bioindicator potential. Lachezar Yakimov, Elina Tsvetanova, Almira Georgieva, Galina Nenkova, Nesho Chipev, **Albena Alexandrova**
- P23 Evaluation of the impact of *Rapana* fisheries with beam trawl on juvenile stages of turbot in Western Black Sea. Elitsa Petrova, Vesselina Mihneva, **Feriha Tserkova**, Stoyko Stoykov, Stanimir Valchev, Philip Penchev
- P24 Contribution to parasite fauna of Prespa roach *Rutilus prespensis* (Karaman, 1924) (Pisces: Cyprinidae) in Lake Prespa, North

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Macedonia. **Stojmir Stojanovski**, Dijana Blazhekovikj-Dimovska, Stoe Smiljkov

- P25** Length-weight relationships for 5 cyprinid fish species from Lake Ohrid. **Blagoja Trajchevski**, Trajche Talevski
- P26** Ecosystem pressure and impact on fish population in Channel Studencista (Lake Ohrid). **LidijaVelkova-Jordanoska**, Blagoja Trajcevski
- P27** Insights into the genetic structure of the genus *Chondrostoma* (Pisces, Cyprinidae) across the central part of Balkan Peninsula. **LidijaVelkova-Jordanoska**
- P28** Researches on reed belt from Lake Prespa as habitat and spawning ground for cyprinid fishes. **Marina Talevska**, and Trajce Talevski
- P29** The impact of alien fish species on native fish population from Lake Dojran and Lake Tikvesh (Aegean catchment area). **Trajce Talevski**, Dragana Milosevic, Marina Talevska, Blagoja Trajceski, Aleksandra Lesoska, Elena Pejovski
- P30** Long-term changes of the ichthyofauna in the Iskar River, Danube basin. **Luchezar Pehlivanov**, Apostolos Apostolou, Stefan Kazakov, Boris Velkov
- P31** Feeding Ecology of the Green Toad (*Bufo viridis* complex) in Urban Environment. Part 1. Trophic spectrum and niche. **Ivelin A. Mollov**, Anelia M. Stojanova, Peter S. Boyadzhiev
- P32** Feeding Ecology of the Green Toad (*Bufo viridis* complex) in Urban Environment. Part 2. Prey Availability and Electivity. **Ivelin A. Mollov**, Anelia M. Stojanova, Peter S. Boyadzhiev
- P33** Pingers as cetacean bycatch mitigation measure in Bulgarian turbot fishery. **Dimitar Popov**, Galina Meshkova, Polina Hristova, Gradimir Gradev, Marina Panayotova, Hristo Dimitrov
- P34** Hematology data of striped mouse (*Apodemus agrarius*) from Southeastern Bulgaria (Strandzha Mountain): indicators for environmental status. **Hristo Dimitrov**, Angel Kunchev, Georgi Markov

- P35** Strategies in open field behaviour and new object exploration in eastern broad-toothed field mouse, *Apodemus mystacinus* and yellow-necked mouse, *Apodemus flavicollis*. Krastio Dimitrov, **Daniela Simeonovska-Nikolova**, Veselina Sidova, Venislava Racheva
- P36** Species diversity and population structure of small mammalian communities depending on habitat heterogeneity in Lozenska Planina Mountain, Bulgaria. Roumiana Metcheva, **Mihaela Beltcheva**, Iliana Aleksieva, J. Antonio Heredia-Rojas
- P37** Evidence of radioprotective effect of Resveratrol against extremely low frequency electromagnetic fields clastogenic effect. J. Antonio Heredia-Rojas, **Mihaela Beltcheva**, Roumiana Metcheva, Abraham O. Rodríguez-De la Fuente, Omar Heredia-Rodríguez
- P38** Natural and induced UV irradiation effects on some morpho-physiological and genetic characteristics of albino mice. **Michaela Beltcheva**, Roumiana Metcheva, Margarita Topashka-Ancheva, Nikolay Tyutyundzhiev, Iliana Aleksieva, Peter Ostoich, Christo Angelov, J. Antonio Heredia Rojas
- P39** Comparative analysis of age changes in the growth of lower canine teeth of wild boar (*Sus scrofa*) males in Bulgaria. **Damyán Damyánov**
- P40** Red deer (*Cervus elaphus* L.) as a biomonitor for contemporary heavy metal pollution of the environment in forest mountain regions in Bulgaria. **Georgi Markov**, Atidzhe Ahmed, Chavdar Zhelev
- P41** Epigenetic variation and distinctness of red fox (*Vulpes vulpes*) populations in its European range. **Georgi Markov**, Milena Gospodinova
- P42** The relationship between the fertility potential quality and leukocyte concentration in the sperm as a potential indicator for the mutagenic effect of infections. **Spas Dzhoglov**, Vesela Mitkovska, Evgeniya Ivanova

- P43 Monitoring of micronucleus frequency in rodents with blood Parasites. **Vesela Mitkovska**, Hristo Dimitrov, Angel Kunchev, Tsenka Chassovnikarova
- P44 Various industries influence the rodent pest control in urban areas. **Eliza Koteva**, Hristo Dimitrov, Vesela Mitkovska, Tsenka Chassovnikarova
- P45 Compensatory increase of the reproductive capacity of red fox (*Vulpes vulpes*) in sympatric coexistence with the golden jackal (*Canis aureus*). **Abena Vlaseva**, Tsenka Chassovnikarova, Vesela Mitkovska, Hristo Dimitrov
- P46 General evaluation of the impact of invasive fish species on native freshwater fish fauna in Turkey. **Saniye Cevher Özeren**

### EPIDEMIOLOGY (P47 – P60)

**Session chairs: Assoc.prof. Ts.Paunov, Assoc.prof.A.Kevorkyan**

- P47 Seroprevalence of Parvovirus B19 IgG antibodies among pregnant women. **Milena Karcheva**, Anton Petrov, Alexander Blazhev
- P48 Seroepidemiological survey of Parvovirus B19 IgG in childbearing age women. **T. Petkova**, S. Pachkova, Tz. Doichinova
- P49 Status and development of the anti-epidemic control system in the region of Varna. **Eliyana Ivanova**, Rumens Konstantinov
- P50 Investigating the attitudes of parents to vaccines and immunizations. **Tsvetanka Mincheva**, Svetla Angelova, Jordanka Mitova, Victoria Doycheva, B. Velinova

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- P51** Study of hygienic disinfection of hands of staff and students in dental practice. **V. Stoeva**, A. Petrova, H. Batselova, D. Ivanov, B. Tilov
- P52** Control of Legionella spp. in dental practice in England and Bulgaria. **V. Stoeva**, S. Ilieva, I. Tomova, A. Atanasovski, A. Kevorkyan, Y. Stoilova
- P53** Varicella Outbreak in a Daycare in Plovdiv (2019). **H. Batselova**, N. Vatev, A. Galev
- P52** Surveillance of Ventilator-associated pneumonia in neonatal intensive care unit. **V. Rangelova**, A. Kevorkyan, M. Krasteva, Y. Kalchev
- P54** Vaccination with combined Hepatitis A and Hepatitis B vaccine in autoimmune diseases- report of two cases. **A. Kevorkyan**, Y. Stoilova
- P55** The main epidemiological paradigm in the context of viral hepatitis C: Comorbidity and co-infections. K.Terzieva, **M. Nikolova**, I. Popivanov, T. Doichinova, D. Shalamanov
- P55** The role serological screening for determining of HBsAg among hospitalized and ambulatory patients. **A. Gotseva**
- P56** Diagnosis and Treatment of Bisphosphonate - Associated Osteonecrosis of the Jaws. **Meri Hristamyan**, Petya Pechalova, Ralista Raycheva, Veselka Hristamyan, Yordanka Stoilova
- P57** Epidemiological surveillance – indicator for the effectiveness of the medical support in floods. **Rumyana Etova**, Rostislav Kostadinov
- P58** Epidemiology and health education as disaster medical support elements. RostislavKostadinov, **Mariya Georgieva**



**P59** Poster Which Measures to Prevent the Spread of Measles at a Hospital in Bulgaria are Recommended when Examining / Hospitalizing a Patient. **Violeta Voynova-Georgieva**, Nina Gatcheva, Tanya Perchemlieva, Ani Kevorkyan

**P60** Measles epidemic in Sofia region, February-September 2019.  
**G.Donkov**, B.Kayrakova, J.Mitova-Mineva, V.Doycheva