



This Meeting is under the auspices of the EANM and WARMTH

The 5th International Meeting on Molecular Imaging and Molecular Therapy

The 5th Serbian Meeting on Hybrid Imaging and Molecular Therapy
with International Participation

Updates in Nuclear Medicine – Diagnosis, Treatment & Beyond

March 8-9, 2019 Novi Sad



Venue

Amphitheatre of the Faculty of Medicine, Department of Pharmacy



Organizers:
Faculty of Medicine &
Serbian Society of Nuclear medicine





Dear colleagues and guests,

It is my great pleasure to welcome you to the city of Novi Sad to attend the 5th International Meeting on Molecular Imaging and Molecular Therapy and the 5th Serbian Meeting on Hybrid Imaging and Molecular Therapy with International Participation, entitled Updates in Nuclear Medicine – Diagnosis, Treatment & Beyond. As in previous years, the Meeting is organized by the Medical Faculty of Novi Sad and the Serbian Society of Nuclear Medicine under the auspices of the EANM and WARMTH.

During previous meetings, we gathered together nuclear medicine physicians, chemists, physicists, technologists and those interested in nuclear medicine science from many countries all over the world. We had over 300 participants from 20 different countries.

Considering the fact that this is our 5th congress and that our team is now quite experienced in organizing events like this, you can expect an even better and enriched scientific and cultural program than before.

Nuclear medicine has changed in the recent years. It enables us to scan and treat patients with new techniques and radiopharmaceuticals, improving compliance and effectiveness of treatment and patient clinical outcome.

The scientific program has been designed to cover a wide range of nuclear imaging modalities and therapies. The conference is designed to be of interest for experts in the fields of nuclear medicine, oncology, neurology, urology, cardiology and endocrinology. Additionally, this meeting is intriguing and challenging for young nuclear medicine specialists as well as residents. Different specialties are invited to evaluate and learn about the role of nuclear medicine theragnostics-imaging to diagnose and treat the disease and management beyond initial diagnosis.

As the host city, Novi Sad isn't nicknamed the "Athens of Serbia" without a reason: its history as a vibrant, creative city continues nowadays is based on its established art galleries, enriched musical scene and a vibe that's more generally liberal than that of other Serbian cities. Recently Novi Sad received two prestigious recognitions, a 2019' European Youth Capital and 2021' European Capital of Culture.

This meeting is a great opportunity for you to communicate with colleagues from different countries all over the world. I am sure it will result in creative exchanges of ideas and future collaboration.

We are looking forward to welcoming you in our beautiful city of Novi Sad.

Yours Sincerely

Prof. Jasna Mihailović, MD, PhD
President of Serbian Society of Nuclear Medicine
Chairman, Organizing Committee

A handwritten signature in cursive script that reads "Mihailovic' Jasna".

Organizing Committee

Prof Jasna Mihailovic, PhD, MD, President of Serbian Nuclear Medicine Society
Prof Snezana Brkic, PhD, MD, Dean of the Medical Faculty of Novi Sad
Emil Matovina, MD; Vanja Cimbalevic, MD; Jelena Roganovic, MD
Nina Klicov, Chief Technician; Marko Vasiljevic, Technician; Kristina Hadzic, Technician

Scientific Committee

Dr Aida Afgan, MD, Serbia
Prof Boris Ajdinovic, MD, PhD, Serbia
Prof Vera Artiko, MD, PhD, Serbia
Prof Amela Begic, MD, PhD, Bosnia and Herzegovina
Dr Paolo Castellucci, MD, Italy
Assoc Prof Sabina Dizdarevic, MD, PhD, UK
Prof Kemal Dizdarevic, MD, PhD, Bosnia and Herzegovina
Prof Samer Ezziddin, MD, PhD, Germany
Prof Stefano Fanti, MD, PhD, Italy
Snezana Golubovic, MD, MSc Pharm, Serbia
Prof Slobodan Ilic, MD, PhD, Serbia
Prof Diwakar Jain, MD, PhD, USA
Dr Pavel Krzhivitskiy, MD, MSc, Russian Federation
Assoc Prof Ronan Killeen, MD, PhD, Ireland
Prof Milovan Matovic, MD, PhD, Serbia
Prof Ljiljana Mijatovic, MD, PhD, Serbia
Prof Danijela Miladinova, MD, PhD, Republic of North Macedonia
Prof Jasna Mihailovic, MD, PhD, Serbia
Prof Vladimir Obradovic, MD, PhD, Serbia
Assoc Prof Dragan Pucar, MD, PhD, Serbia
Prof Milena Rajic, MD, PhD, Serbia
Prof Zvezdana Rajkovaca, MD, PhD, RS, Bosnia and Herzegovina
Dr Raluca Mititelu, MD, PhD, Romania
Prof Daria Ryzhkhkova, MD, PhD, Russian Federation
Dr Aleksandar Simic, MD, Serbia
Dr Qaisar Siraj, MD, PhD, Kuwait
Prof Dragana Sobic-Saranovic, MD, PhD, Serbia
Prof Viacheslav Sukhov, MD, PhD, Russian Federation
Research Prof Sanja Vranjes-Djuric, PhD, Serbia
Prof Jean-Noel Talbot, MD, PhD, France
Prof Marina Vlajkovic, MD, PhD, Serbia
Prof Katja Zaletel, MD, PhD, Slovenia
Assoc Prof Radmila Zeravica, MD, PhD, Serbia

Honorary Committee

Prof Zoran Milosevic, PhD, Provincial Secretary for Higher Education and Scientific Research
Milos Vucevic, Mayor of the City of Novi Sad

Friday, March 8th 2019

13.30-14.00 Registration

14.00-16.00 Session: Theragnostics in Endocrine Diseases I

Moderators: Ruzhkova, Jaukovic

14.00-14.20

Stefano Fanti, Italy

Different Tracers in Staging and Restaging Prostate Cancer

14.20-14.40

Ana Ugrinska, Republic of North Macedonia

Nuclear Medicine Imaging of Prostate Cancer

14.40-15.00

Jean Noel Talbot, France

Parathyroid Imaging with 18F-Fluorocholine

15.00-15.20

Paolo Castellucci, Italy

The Use of DOTA Peptides and DOPA in NET

15.20-15.40

Raluca Mititelu, Romania

Radionuclide Bone Pain Palliation in Prostate Cancer

15.40-16.00 Discussion

16.00-16.20 Coffee break

16.20-18.00 Session: Theragnostics in Endocrine Diseases II – Part 1: Imaging

Moderators: Ajdinovic, Fanti

16.20-16.40

Daria Ryzhkhkova, Russian Federation

18 F-DOPA PET/CT Diagnostic of Medular Carcinoma

16.40-17.00

Natasa Prvulovic-Bunovic, Serbia

Multimodal Imaging in Breast Cancer – Current and Future Aspects

17.00-17.20

Daniela Miladinova, Republic of North Macedonia

Whole Body SPECT vs. Planar Bone Imaging in Patients with Prostate and Breast Cancer

17.20-17.40

Pavel Krzhivitskiy, Russian Federation

SPECT/CT Visualization of Sentinel Lymph Nodes in Women with Cervical Cancer: Is it Important for Radiotherapy Planning?

17.40-18.00 Discussion

19.00 Welcome Reception at Edjseg Castle (Antona Cehova 4)

20.00 Disco Night at Golf Club (SPENS)

Saturday, March 9th 2019

8.30-10.10 Session: Theragnostics of Thyroid Diseases

Moderators: Majstorov, Mititelu

8.30-8.50

Jasna Mihailovic, Serbia

The New Theragnostic Paradigm on Thyroid Cancer

8.50-9.10

Andrey Shurinov, Russian Federation

Radioiodine Therapy for Metastatic Differentiated Thyroid Cancer

9.10-9.30

Milovan Matovic, Serbia

Development and Realization of Automatic System for ¹³¹I Capsule Filling for Diagnosis and Therapy Purpose: Our Solution.

9.30-9.50

Katja Zaletel, Slovenia

The Role of Radioiodine in Graves' Disease Management

9.50-10.10 Discussion

10.10-10.30

Ivalina Hristova, GE Healthcare

Discover the Smart Gamma Camera Generation and SWIFT Scan Revolution

10.30-10.45 Coffee break

10.45-12.05 Session: Theragnostics in Endocrine Diseases II – Part 2: Imaging and Therapy

Moderators: Begic, Zaletel

10.45-11.05

Marina Vlajkovic, Serbia

Theranostics in High-Risk- Children Neuroblastoma -Achievements and Concerns

11.05-11.25

Viacheslav Sukhov, Russian Federation

Comparison of F18 and Ga68 PSMA as Theranostics Pair-Agents to Lu177

11.25-11.45

Samer Ezziddin, Germany

PSMA PRLT-Augmented Treatment by Individualized Protocol, Tandem Alpha-Beta PRLT and Co-Medications

11.45-12.05 Discussion

12.05-13.45 Session: Theragnostics in CNS Diseases

Moderators: Ilic, Ugrinska

12.05-12.25

Ronan Killeen, Ireland

Clinical Applications of FDG PET/ CT Brain in Oncology and Beyond

12.25-12.45

Sabina Dizdarevic, UK

Dementia Functional Imaging: How to Complete the Diagnostic Puzzle?

12.45-13.05

Kemal Dizdarevic, Bosnia and Herzegovina

Radionuclide Theragnostics for Neurosurgery

13.05-13.25

Leposava Brajkovic, Serbia

FDG-PET in Presurgical Evaluation of Focal Epilepsy

13.25-13.45 Discussion

13.45-14.50 Lunch

14.50-16.30 Session: Nuclear Medicine in Cardiopulmonary Diseases

Moderators: Ezzidin, Miladinova

14.50 – 15.10

Amela Begic, Bosnia and Herzegovina

Ventilation/Perfusion Tomography - V/P SPECT in Detection of Cardiopulmonary Diseases- Clinical Application

15.10-15.30

Diwakar Jain, USA

Cardiotoxicity of Cancer Chemotherapy: Early Detection, Treatment and Prevention

15.30-15.50

Qaisar Siraj, Kuwait

Multimodality Cardiac Imaging in the Diagnosis of CAD

15.50-16.10

Venjamin Majstorov, Republic of North Macedonia

Myocardial Perfusion Findings in Patients with Systemic Lupus Erythematosus

16.10 – 16.30 Discussion

16.30-18.00 Poster Presentations - Session I

Moderators: Ilincic, Zeravica

1. Bozinovic M.¹, Miljkovic M.¹, Ilic S.¹, Bozinovic D.² Effect of Thyroid Disorders of Mothers on Preterm Delivery. Medical Faculty University in Nis¹, General Hospital "Dr Aleksa Savić" in Prokuplje², Serbia
2. Cimbalevic V.¹, Roganovic J.¹, Mihailovic J.^{1,2}, Matovina E.¹, Stojanovic D.². Dedifferentiation of Papillary Thyroid Cancer – Case Report. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Faculty of Medicine, University of Novi Sad, Serbia²
3. Cimbalevic V.¹, Roganovic J.¹, Mihailovic J.^{1,2}, Matovina E.¹, Stojanovic D.². Treatment of Recurrent Differentiated Thyroid Carcinoma – Case Report. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Faculty of Medicine, University of Novi Sad, Serbia²
4. Ignjatovic V.^{1,2}, Matovic M.^{1,2}, Vukomanovic V.^{1,2}, Vuleta K.¹, Savic G.¹, Jeremic M.¹. Thyroid-Stimulating Hormone Concentration and Insulin Resistance: Is There Connection in Women with Polycystic Ovary Syndrome? Clinical Center Kragujevac, Centre of Nuclear medicine¹, University of Kragujevac, Faculty of Medical Sciences, Kragujevac, Serbia²

5. M. Jeremic¹, M. Matovic^{1,3}, S. Pantovic³, V. Vukomanovic^{1,3}, V. Ignjatovic^{1,3}, A. Simic⁴, D. Krstić², D. Nikezić². Biokinetic Model for Peptide Radionuclide Therapy. Clinical Center Kragujevac, Centre of Nuclear Medicine, Kragujevac¹, University of Kragujevac, Faculty of Sciences, Kragujevac, University of Kragujevac, Faculty of Medical Sciences, Kragujevac³, Special hospital for thyroid gland and metabolism diseases Zlatibor, Zlatibor, Serbia⁴

6. Matovina E.¹, Prvulovic-Bunovic N.^{2,3}, Roganovic J.¹, Cimbaljevic V.¹, Mihailovic J.^{1,3}. Papillary Thyroid Carcinoma in Ectopic Mediastinal Tissue – Case Report. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Diagnostic Imaging Center, Oncology Institute of Vojvodina, Sremska Kamenica², Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia³

7. J. Mihailovic^{1,3}, N. Prvulovic-Bunovic^{2,3}, J. Roganovic¹, Matovina E.¹. The Value of F-18 FDG-PET/CT in Detection of Recurrent and/or Metastatic Disease in Patients with Breast Cancer. Center for Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Diagnostic Imaging Center, Oncology Institute of Vojvodina, Sremska Kamenica², Faculty of Medicine, University of Novi Sad, Serbia³

8. Ostojic T., Zeravica R., B. Ilincic, Crnobrnja V., Vukmirovic Papuga M., A. Jakovljevic A., Samac J. Uptake of Tc-99m Dimerkaptosuccinic Acid in Renal Tubular Disorders - Case Report. Department of Nuclear Medicine; Clinical Centre of Vojvodina; University of Novi Sad, Medicine Faculty, Department of Pathophysiology and Laboratory Medicine

10. N. Prvulovic-Bunovic^{1,5}, J. Mihailovic^{2,5}, I. Urošević^{3,5}, D. Cuk⁴, J. Roganovic², Matovina E.¹. Small-Cell Non-Hodgkin Lymphoma of the Right Breast – The Importance of Imaging in Disease Diagnostics and Monitoring of Treatment Response – Case report. Diagnostic Imaging Center, Oncology Institute of Vojvodina, Sremska Kamenica¹, Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica², Clinic for Hematology, Clinical Center of Vojvodina, Novi Sad³, Institute for Pathology, Clinical Center of Vojvodina, Novi Sad⁴, Faculty of Medicine, University of Novi Sad, Serbia⁵

11. Roganovic J.¹, Cimbaljevic V.¹, Mihailovic J.^{1,2}, Matovina E.¹, Stojanovic D.². Treatment of Metastatic Papillary Thyroid Cancer – Case Report. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Faculty of Medicine, University of Novi Sad, Serbia²

12. Roganovic J.¹, Mihailovic J.^{1,2}, Prvulovic-Bunovic^{2,3}, Cimbaljevic V.¹, Matovina E.¹, Stojanovic D.². Pitfalls and Artifacts in PET/CT Imaging. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica¹, Faculty of Medicine, University of Novi Sad², Diagnostic imaging Center, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia³

13. Gordana Savic¹, Danijela Baskic², Vesna Stankovic^{3,5}, Aleksandar Lj. Djukic^{4,5}, Milovan D. Matovic^{1,5}. A Unique Case of Preoperative Diagnosed Struma Ovarii by Planar Scintigraphy of the Pelvis with ^{99m}Tc-Pertechnetate. Clinical Center Kragujevac, Centre of Nuclear Medicine¹, Clinical Center Kragujevac, Radiology Department², Clinical Center Kragujevac, Institute of Pathology³, Clinical Center Kragujevac Department of Endocrinology, Diabetes and Metabolic Diseases⁴, University of Kragujevac, Faculty of Sciences, Kragujevac, Serbia⁵

14. Stankovic A.¹, Mihailovic J.^{2,3}, Mirkovic M.⁴, Radovic M.⁴, Jankovic D.⁴, Milanovic Z.⁴, Vranjes-Djuric S.⁴. Development of Radiolabeled Magnetite Nanoparticles for Possible Application in Cancer Therapy. University clinical centre of the Republic of Srpska, Clinical Department of Nuclear Medicine and Thyroid Gland Disease, Banja Luka, RS, BH¹, Oncology institute of Vojvodina, Department of Nuclear Medicine, Sremska Kamenica², Faculty of Medicine, University of Novi Sad³, Laboratory for Radioisotopes, “Vinča” Institute of Nuclear Sciences, University of Belgrade, Serbia⁴

15. Vukadinovic A., Jankovic D., Mirkovic M., Radovic M., Peric M., Milanovic Z., Petrovic Dj., Stankovic D., Vranjes-Djuric S. The Importance of Quality Assurance in Clinical Radiopharmacy. Laboratory for Radioisotopes, Vinča Institute of Nuclear Sciences, University of Belgrade, Serbia

16. Vukomanovic V.^{1,2}, Matovic M.^{1,2}, Ignjatovic V.^{1,2}, Jeremic M.¹, Vuleta K.¹, Simic Vukomanovic I.². Evaluation of Pituitary Tumors with ^{99m}Tc-EDDA/HYNIC-TOC. Clinical Center Kragujevac, Serbia, Centre for Nuclear medicine¹, University of Kragujevac, Faculty of Medical Sciences, Kragujevac, Serbia²

18.00-19.00 Technologists' Poster Presentations – Session II

Moderators: Klicov, Djordjevic

1. Bogdanovic B. Scintigraphy of the Thyroid Gland with ^{99m}Tc. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
2. Filko M. A Modern Method of Hybrid Imaging. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
3. Hadzic K. Nuclear Medicine Diagnostic - Bone Scintigraphy. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
4. Jelic N. Dynamic Salivary Gland Scintigraphy. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
5. Klicov N. Methodology of Myocardial Perfusion Scintigraphy. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
6. D. Maricic, B. Djordjevic, M. Satara, M. Ilic, D. Sabo. The Role of Nuclear Technologist in Performing Technetium-99m Ciprofloxacin Imaging. Department of Nuclear Medicine, Clinical Centre of Vojvodina, Novi Sad, Serbia
7. Pozarev S. ¹⁸F FDG-PET/CT Scanning – Patient's Preparation and Imaging Protocol. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
8. Slepcev Tamburic M. The Role of Radioactive Iodine in the Management of Differentiated Thyroid Cancer. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
9. Vasiljevic M. PET/CT Imaging at Oncology Institute of Vojvodina Sremska Kamenica. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia

19.00-19.15 Final Test and Meeting Evaluation

19.15 Closing the Meeting

20.00 Dinner at Hotel PARK

