



Macedonian
Association of
Radiologists

ABSTRACT BOOK

**7th Macedonian National
Congress of Radiology**

**9-11 November 2023
SKOPJE, Macedonia**

7th Macedonian National Congress of Radiology

Dear colleagues, friends and associates,

I am honored to invite you to the 7th Macedonian Congress of Radiology with international participation, organized by the Macedonian Association of Radiologists- MAR. The event will be held in the “Double Tree by Hilton” hotel in Skopje, Republic of North Macedonia from 9-11th November 2023. Meeting will be held in English.

Both, Diagnostic and Interventional radiology have emerged as one of the most important parts of the modern clinical medicine. Through incredible advancements in both technology and techniques the future of Radiology is bright.

Our aim is to organize a high-level scientific event with lectures and delegates from the radiological community of the region and Europe but also scientists from other specialties that are tightly connected to our specialty. The meeting will include international and Macedonian speakers, educational workshops and satellite simposiums with a focus on established diagnostic and therapeutic procedures, latest research and technologies.

This meeting will be the largest radiologic event in the country in the last few years. It is intended for residents and specialists in radiology, oncology, gastroenterology, surgery, nuclear medicine, internal medicine and other specialties.

We invite all interested parties to actively participate and submit abstract in a timely manner.

We are confident that this Congress will provide a unique opportunity to learn from leading experts in the field, share knowledge and experience and network with colleagues from around the world. We look forward to welcoming you to Skopje on the 7th Macedonian Congress of Radiology.

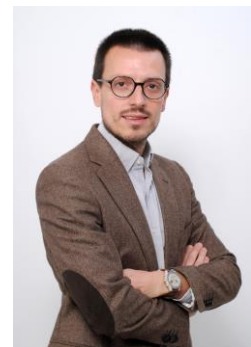
Sincerely,

Assoc. Prof. Aleksandar Gjoreski, MD, PhD

Chief of the department for diagnostic and interventional radiology, Clinical Hospital Acibadem- Sistina

President of the Macedonian Association of Radiologists

President of the Society for Interventional Radiology of North Macedonia



Scientific and Organizational Committees

Scientific Committee

Prof. Zoran Trajkovski

Prof. Elizabeta Stojovska Jovanovska

Assoc. Prof. Aleksandar Gjoreski

Assoc. Prof. Jasminka Chabukovska Radulovska

Prof. Maja Jakimovska Dimitrovska

Ass. Sonja Nikolova

Assoc. Prof. Menka Lazarevska

Prof. Antonio Gligorievski

Prof. Violeta Vasilevska Nikodinovska

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Dr. Jasminka Josheva

Ass. Vjolca Aliji

Ass. Dimitar Veljanovski

Dr. Argjent Imeri

Dr. Gordana Belcheska Antuleska

7th Macedonian National Congress of Radiology

with International Participation

9-11 November 2023
Hotel DoubleTree by Hilton,
Skopje, Macedonia

Thursday, November 9th

16:00 - 19:00 | REGISTRATION

16:30 - 17:45 | BREAST RADIOLOGY

Moderators | Prof. Dr. Svetlana Antevska-Grujoska
Prof. Dr. Andreja Arsovski

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|---------------|---|
| 16:30 – 16:42 | Role of elastography in the diagnosis of solid breast tumors Assoc. Prof. Dr. Jasminka Chabukovska Radulovska (MKD) |
| 16:42 – 16:54 | Breast examination appointment pathway and Breast cancer 2023 screening program Dr. Svetlana Temelkovska (MKD) |
| 16:54 – 17:07 | Management of breast disease - UK pathways Dr. Sonja Jovanoska (UK) |
| 17:07 – 17:20 | Breast microcalcifications on mammogram Prof. Dr. Maja Jakimovska-Dimitrovska (MKD) |
| 17:20 - 17:33 | Preoperative breast MRI: our experience Dr. Maja Stojchevska-Chapova (MKD) |
| 17:33 – 17:45 | Updated WHO classification of breast tumors Assoc. Prof. Dr. Magdalena Bogdanovska-Todorovska |

17:45 - 18:30 | JUSTIFICATION IN MEDICAL CT EXPOSURE, OPTIMIZATION, RADIATION PROTECTION

Moderators | Prof. Dr. Zoran Trajkovski
Assoc. Prof. Dr. Jasminka Chabukovska-Radulovska (MKD)

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| 17:45 | 18:00 | Recurrent imaging and cumulative effective dose Prof. Dr. Franz Kainberger (AU) |
| 18:00 | 18:15 | Justification embedded in the indication for imaging Prof. Dr. Franz Kainberger (AU) |
| 18:15 | 18:30 | Optimization in computed tomography: an update for Radiologists Assoc. Prof. Dr. Jasminka Chabukovska-Radulovska (MKD) |

18:30 - 18:45 **OPENING CEREMONY**

18:45 - 20:00 **COCKTAIL**

Friday, November 10th

08:00 - 16:00 | REGISTRATION

08:30 - 09:30 | ABDOMINAL RADIOLOGY
Gastrointestinal tract

Moderators | Prof. Dr. Vladimir Dimov
Dr. Milan Sapundzieski

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| 08:30 – 08:42 | Modified CT examination in the diagnosis of neo-infiltrative diseases of the digestive tube with special reference to the stomach Prof. Dr. Antonio Gligorievski (MKD) |
| 08:42 – 08:54 | Modern approach in detection and monitoring of metastatic disease in colorectal cancer Prof. Dr. Biljana Prgova (MKD) |
| 08:55 – 09:07 | CT colonoscopy: what the surgeons want to know from radiologists Dr. Milan Sapundzieski (UK) |
| 09:07 – 09:19 | Peritoneal metastases – options and challenges Assoc. Prof. Dr. Goran Spirov (MKD) |
| 09:19 – 09:30 | MRI restaging of rectal cancer after neoadjuvant treatment Dr. Ivana Blazic (SRB) |

09:30 - 10:30 | NEUROINTERVENTIONAL RADIOLOGY

Moderators | Prof. Dr. Kiril Lozanche
Assoc. Prof. Dr. Menka Lazareska

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|---------------|---|
| 09:30 – 09:45 | Endovascular treatment of complex aneurysms (balloon, stent remodeling and FD techniques) Dr. Nurfet Alioski (BG) |
| 09:46 – 10:00 | Treatment strategy in complex and ruptured aneurysms vs unruptured Assoc. Prof. Dr. Menka Lazareska (MKD) |
| 10:00 – 10:15 | Treatment of angiospasm in ruptured aneurysms Dr. Jasna Bushinoska (MKD) |
| 10:15 – 10:30 | Endovascular treatment of DAVF and CCF Dr. Deniz Bulja (BIH) |

10:30 - 11:00 | COFFEE BREAK

11:00 - 12:00 | ABDOMINAL RADIOLOGY

HCC, from prevention and diagnostics to therapy - current trends

Moderators | Prof. Dr. Kalina Grivcheva-Stardelova
Dr. Vladimir Avramovski

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|---------------|---|
| 11:00 – 11:15 | Epidemiology and prevention Dr. Anche Volkanovska (MKD) |
| 11:15 – 11:30 | Locoregional options for HCC treatment, what's new Assoc. Prof. Dr. Aleksandar Gjoreski (MKD) |
| 11:30 – 11:45 | Surgery in hepatocellular carcinoma Prof. Dr. Svetozar Antovikj (MKD) |
| 11:45 – 12:00 | Oncology treatment for HCC Dr. Nenad Mitreski (MKD) |

12:00 - 12:45 | INTERVENTIONAL RADIOLOGY I (NON-VASULAR AND ONCOLOGY)

Moderators | Prof. Dr. Okan Akhan
Assoc. Prof. Dr. Aleksandar Gjoreski

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|---------------|---|
| 12:00 – 12:15 | Ablation of intrahepatic cholangiocarcinoma Prof. Dr. Okan Akhan (TR) |
| 12:15 – 12:30 | Embolization in oncology Dr. Aleksandar Bojanovic (SRB) |
| 12:30 – 12:45 | Radioembolization in primary and secondary liver tumors Prof. Dr. Peter Popovic (SLO) |
| 12:45 – 13:00 | Nonvascular interventional procedures in pediatric radiology Prof. Dr. Zoran Trajkovski (MKD) |

13:00- 13:45 | LUNCH BREAK

13:45 - 14:00| SPONSORED SYMPOSIUM (GE)

14:00 - 15:00 | CARDIOVASCULAR RADIOLOGY I

Moderators | Assoc. Prof. Dr. Svetla Dineva (BG)
Dr. Nikola Bakracheski

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|---------------|--|
| 14:00 – 14:15 | The Role of vascular US in diagnosing and follow up in PAD on lower extremities Dr. Aleksandar Manolev (MKD) |
| 14:15 – 14:30 | Imaging of carotid plaques Dr. Vjolca Aliji (MKD) |
| 14:30 – 14:45 | The role of CTCA in detection of coronary artery anomalies Dr. Fuad Zukic (BiH) |
| 14:45 – 15:00 | Acute aortic syndrome or not? Assoc. Prof. Dr. Svetla Dineva (BG) |

15:00 - 16:00 | INTERVENTIONAL RADIOLOGY II (VASCULAR)

Moderators | Dr. Viktor Serafimov
Dr. Nikola Lazovski

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| 15:00 – 15:12 | Endovascular treatment of complex carotid artery lesions - Experience from the University Clinical Center of Serbia - Assos. Prof. Dr. Vladimir Cvetic (SRB) |
| 15:12 – 15:24 | TEVAR Dr. Zvonko Atanasov (MKD) |
| 15:24 – 15:36 | An IVC filter: to whom and when - does the risk/benefit ratio justifies the procedure Dr. Viktor Serafimov (UK) |
| 15:36 – 15:48 | Endovascular treatment and procedural modalities in chronic vein insufficiency Dr. Nikola Bakracheski |
| 15:48 - 16:00 | Endovascular treatment of iliofemoral region Assoc. Prof. Dr. Petar Janevski (MKD) |

16:00 - 16:30 | COFFEE BREAK

16:30 - 17:00 | SATELLITE SYMPOSIUM - MEDTRONIC

17:00 - 18:00 | CARDIOVASCULAR RADIOLOGY II

Moderators | Assist. Prof. Dr. Jadranka Stojanovska
Assoc. Prof. Dr. Menka Lazareska

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|---------------|---|
| 17:00 – 17:15 | The emerging role of Cardiac CT Prof. Dr. Christian Loewe (AU) |
| 17:15 – 17:30 | US - MRI in cardiac imaging Assoc. Prof. Dr. Valentina Andova (MKD) |
| 17:30 – 17:45 | The role of CMR in rheumatologic disease Prof. Dr. Robin Nijveldt (NE) |
| 17:45 – 18:00 | Clinical application of CMR in cardiomyopathies Dr. Planinka Zafirovska (MKD) |

Saturday, November 11th

08:00 - 12:00 | REGISTRATION

08:30 - 09:30 | UROGENITAL RADIOLOGY

Moderators | Prof. Dr. Elizabeta Stojovska-Jovanovska
Dr. Biljana Bozhinovska

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| 08:30 – 08:42 | Current recommendations in imaging of bladder tumors Prof. Dr. Elizabeta Stojovska-Jovanovska (MKD) |
| 08:42 – 08:54 | Surgical procedures and treatment of bladder tumors Prof. Dr. Skender Saidi (MKD) |
| 08:54 – 09:06 | Radio and chemotherapy of bladder tumors Prof. Dr. Skender Saidi (MKD) |
| 09:06 – 09:18 | Advancing prostate cancer care: Pathology reporting protocol for radical prostatectomy specimens - Dr. Selim Komina (MKD) |
| 09:18 – 09:30 | Prostate MR imaging Dr. Masha Kostova (MKD) |

09:30 - 10:30 | PEDIATRIC RADIOLOGY

Moderators | Prof. Dr. Zoran Trajkovski
Prof. Dr. Erich Sorantin

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| 09:30 – 09:45 | Pediatric imaging – from symptom to diagnosis Prof. Dr. Zoran Trajkovski (MKD) |
| 09:45 – 10:00 | Fetal MRI Dr. Jasminka Josheva (MKD) |
| 10:00 – 10:15 | TBA TBA |
| 10:15 – 10:30 | Differences Adults vs Children - Implications for Radiology Prof. Dr. Erich Sorantin (AU) |

10:30 - 11:00 | COFFEE BREAK

11:00 - 12:00 | NEURORADIOLOGY I

Moderators | Prof. Dr. Miodrag Vrcakovski
Dr. Gjorgi Damjanoski

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|---------------|---|
| 11:00 – 11:15 | Imaging of orbital pathologies Prof. Dr. Dusko Kozic (SRB) |
| 11:15 – 11:30 | Multiparametric neuroimaging modalities in detection of subtle brain changes during aging and disease induced neurodegeneration Prof. Dr. Dusko Kozic (SRB) |
| 11:30 – 11:45 | Criteria and golden standard for diagnosing Multiple Sclerosis Prof. Dr. Dragana Petrovska-Cvetkovska (MKD) |
| 11:45 – 12:00 | Can advanced MRI techniques differentiate radiation necrosis from recurrence? Assoc. Prof. Dr. Menka Lazareska (MKD) |

12:00 - 13:00 | ABDOMINAL RADIOLOGY Hepatopancreaticobiliary tract

Moderators | Dr. Aleksandar Bojanovic
Prof. Dr. Okan Akan

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| 12:00 – 12:15 | Posttherapeutical imaging of the liver – challenges and pitfalls Assoc. Prof. Dr. Aleksandar Gjoreski (MKD) |
| 12:15 – 12:30 | The role of MRI in assessment of chemotherapy-induced liver injury in patients with colorectal liver metastases Prof. Dr. Jelena Kovac (SRB) |

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| 12:30 – 12:45 | MSCT in cholangiocarcinoma Dr. Aleksandar Bojanovic (SRB) |
| 12:45 – 13:00 | Cystic lesions of the pancreas Dr. Mitko Ilievski (MKD) |

13:00 - 14:00 | LUNCH BREAK

HALL 1 |

14:00 - 15:00 | NEURORADIOLOGY II - SPINE

Moderators | Assoc. Prof. Dr. Menka Lazereska
Prof. Dr. Igor Kaftandziev

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|---------------|---|
| 14:00 – 14:15 | Effectiveness of single lumbar periradicular infiltration in patients with sciatica Dr. Dimitar Veljanovski (MKD) |
| 14:15 – 14:30 | TBA Prof. Dr. Igor Kaftandziev (MKD) |
| 14:30 – 14:45 | The value of MRI imaging and assessment in predicting the need for neurosurgical intervention in cervical spine degenerative disease Dr. Milenko Kostov (MKD) |
| 14:45 – 15:00 | The mystery of redundant nerve roots of cauda equina finally solved Prof. Dr. Miodrag Vrchakovski (MKD) |

15:00 - 16:00 | THORACIC RADIOLOGY

Moderators | Assist. Prof. Dr. Jadranka Stojanovska
Dr. Sonja Nikolova

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| 15:00 – 15:15 | CT evaluation of pulmonary hypertension Assist. Prof. Dr. Jadranka Stojanovska (USA) |
| 15:15 – 15:30 | The many faces of Lung Cancer Dr. Ivana Pancevska (MKD) |
| 15:30 – 15:45 | Lung biopsy - current standing Dr. Andrea Nancheva (MKD) |
| 15:45 – 16:00 | Current concepts in CT Diagnosis and TNM staging of Lung Cancer Dr. Sonja Nikolova (MKD) |

HALL 2 |

14:00 - 15:00 | MUSCULOSKELETAL RADIOLOGY I (ULTRASOUND)

Moderators | Prof. Dr. Gordana Ivanac
Prof. Dr. Violeta Vasilevska-Nikodinovska

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| 14:00 – 14:15 | Step-by-step guide to shoulder ultrasound Dr. Eugen Divjak (HR) |
| 14:15 – 14:30 | US of rheumatoid arthritis Prof. Dr. Gordana Ivanac (HR) |
| 14:30 – 14:45 | Ultrasound diagnosis of clinically significant bursal disorders Dr. Slavco Ivanovski (MKD) |
| 14:45 – 15:00 | Meniscal tear types and typical pitfalls on MRI Assoc. Prof. Dr. Smiljana Bundovska - Kocev (MKD) |

HALL 2 |

15:00 - 16:00 | MUSCULOSKELETAL RADIOLOGY II

Tumors - multidisciplinary session

Moderators | Prof. Dr. Gjorgji Zafiroski
Prof. Dr. Violeta Vasilevska-Nikodinovska

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| 15:00 – 15:15 | Plain film in diagnosis of bone tumors Prof. Dr. Violeta Vasilevska-Nikodinovska (MKD) |
| 15:15 – 15:30 | Bone tumor pathology Prof. Dr. Slavica Kunovska (MKD) |
| 15:30 – 15:45 | Surgical treatment of bone tumors Prof. Dr. Milan Samardziski (MKD) |
| 15:45 – 16:00 | Oncological treatment and biopsies of bone tumors Dr. Igor Stojkovski (MKD) |

16:00 - 16:30 | COFFEE BREAK

16:30-17:15 | SCIENTIFIC PAPER SESSION - ORAL PRESENTATIONS

Moderators | Assoc. Prof. Dr. Aleksandar Gjoreski
Assoc. Prof. Dr. Svetla Dineva

17:15-18:00 | CASE REPORT SESSION - ORAL PRESENTATIONS

Moderators | Dr. Dimitar Veljanovski
Dr. Vjollca Aliji

20:30 | COCKTAIL PARTY

Current concepts in CT Diagnosis and TNM-8 staging of Lung Cancer

Ass. d-r Sonja Nikolova

Institute of Radiology, Skopje, North Macedonia

Regardless of the colossal efforts in lung cancer treatment, the majority of patients will present at an advanced stage when any curative treatment will no longer be an option. The overall 5-year survival for all tumor stages is disturbingly low at 15%, and lung cancer is the leading cause of cancer-related deaths for both genders worldwide. Early diagnosis as well as appropriate radiological staging is of utter importance for patients with early-stage lung cancer that can greatly benefit from timely treatment.

The current 8th revision of tumor, node, metastasis (TNM) staging system accepted by The International Association for the Study of Lung Cancer (IASLC) and the American Joint Committee on Cancer (AJCC) was published in January, 2017, and the edition has committed some major alternations, including modification of the T classification based on 1 cm increment, down staging of the T descriptor disregarding its distance from carina (T2), integrating total and partial atelectasis/pneumonitis into the same T category (T2), upstaging diaphragmatic invasion to T4, new classification concepts of adenocarcinoma in situ and minimally invasive adenocarcinoma for pure and part-solid ground-glass nodules, and further division of extra thoracic metastasis into M1b and M1c based on their number and location. There is an agreement for some ambiguous conditions, such as the classification of Pancoast tumor based on its invasion depth, as well as categorization of various sites of pulmonary involvement. The IASLC Staging Project has provided evidence based recommendations for the TNM Classification for Thoracic Cancers in the last 20 years. The upgraded 9th edition of the TNM will be published on January 1, 2024 and will consider new data elements, including genetic biomarkers, protein alterations, and copy number alterations.

In order for a radiologist to present an accurate clinical stage of lung cancer using consistent standards introduced in the 8th edition of the TNM Lung Cancer Staging System, it is important to acknowledge the prospective difficulties and limitations of imaging interpretation.

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