Program
Welcome message

On behalf of Gamma Radiosurgery Center Debrecen, in conjunction with International Stereotactic Radiosurgery Society (ISRS) and Radiotherapy Division of Clinical Center of Debrecen University in collaboration with World Federation of Neurological Societies Radiosurgery Committee, it is my pleasure to warmly welcome you to the ISRS Educational Course in Debrecen.

Debrecen is the second largest city in Hungary. It is the cultural, economic and scientific regional center of the Northern Great Plain region. As the center of the region, Debrecen is both a familiar and modern metropolis sensitive to its environment and a traditional city conscious of its outstanding cultural and historic and scientific heritage. Thus, Debrecen is a distinctive mixture of old and new, traditional and unique, comfortable and exciting.

In the last decades and especially recently, radiosurgery and radiotherapy has changed a lot. In 2007 Gamma Radiosurgery Center was established in the Clinical Center. It gave new opportunities for people living with intracranial diseases. In the last 12 years more than 4500 patients were treated. Our results show the valuable work we have done. But new technics, new protocols appeared so we must follow the flow, the new trends. To transfer this knowledge, we invited many national and international speakers.

Now we invite also you here to take part on our course that will cover SRS/SRT in management of malignant intracranial tumors, lung, abdominal, and prostate cancers, as well as medical physics for radiosurgery.

We look forward to welcoming you to Debrecen and we wish you a stimulating and productive participation in the ISRS Educational Course as well as an enjoyable stay.

József Dobai M.D. Neurosurgeon
Course Director
**Dates**
From Thursday April 11, 8:00 to Saturday April 13, 2019, 14:00

**Registration fee (non-refundable)**
Clinicans: 75EUR/20000HUF  
Fellow / Residents: 50EUR/15000HUF  
Nurses, Technicians: 40EUR/12000HUF

**Venue**
University of Debrecen Clinical Center,  
Augusta Main Building, 4th floor, Main lecture hall

**Access**

**GPS coordinates**  
47°33'44.8"N 21°37'16.1"E  
47.562446, 21.621127
Faculty

Director

József Dobai MD
Neurosurgeon
Department of Neurosurgery, University of Debrecen,
Gamma Radiosurgery Center
Debrecen, Hungary

Co-directors

Professor László Bognár MD, Phd, DMedSci
Head of Department of Neurosurgery
University of Debrecen, Clinical Center
Gamma Radiosurgery Center
Debrecen, Hungary

Árpád Kovács MD, PhD
Radiotherapist
Oncology Clinic, Department of Radiotherapy
University of Debrecen Clinical Center,
Debrecen, Hungary
Chairman of Scientific Committee on behalf of ISRS

Dr Mikhail Chernov, MD, DMedSci
Faculty of Advanced Techno-Surgery, Tokyo Women's Medical University
Board Member of the International Stereotactic Radiosurgery Society (ISRS)
Member of Radiosurgery Committee of the World Federation of Neurosurgical Societies (WFNS)
Tokyo, Japan

Invited Speakers, Moderators

Attila G. Bagó, MD, PhD
Neurosurgeon, Neurooncologist
Vice Head, Department of Neurooncology, Neurosurgery Service,
National Institute of Clinical Neuroscience
Consultant Neurosurgeon,
Stereotactic Radiosurgery Program, Department of Radiation Oncology,
National Institute of Oncology
Budapest, Hungary
Imre Fedorcsák, MD, PhD
Neurosurgeon, Neurooncologist
Head of Department of Neurooncology, Neurosurgery Service, National Institute of Clinical Neuroscience, Budapest
Consultant Neurosurgeon, Stereotactic Radiosurgery Program, Department of Radiation Oncology, National Institute of Oncology, Budapest National Institute of Oncology, Budapest and Gamma Radiosurgery Center, Debrecen, Hungary

Professor Andrey Golanov, MD
Head of Stereotactic Radiotherapy and Radiosurgery Department Burdenko Neurosurgery Institute
Corresponding Member of Russian Academy of Science
Moscow, Russia

Pavel Ivanov, MD, PhD
Chairman, Department of Radiosurgery, Dr. Berezin Medical Institute St. Petersburg, Russia
Zsolt Levente Jánváry, MD
Radiation oncologist
Section head of Cyberknife Unit, Center of Radiotherapy
National Institute of Oncology,
Budapest, Hungary

Ferenc Lakosi MD
Somogy County Kaposi Mór Hospital, Dr. József Baka Diagnostic,
Oncoradiology and Research Center
Kaposvár, Hungary

Antonia Lavorato, PhD, MPE
Lead Physicist; Genesis Care
Oxford, UK
Professor Roberto Martinez-Alvarez, MD
Head of Functional Neurosurgery and Radiosurgery Department
Ruber International Hospital
Chairman of Radiosurgery Committee of the World Federation of Neurosurgical Societies (WFNS)
Madrid, Spain

Professor Ian E. McCutcheon, MD, CM, FRCS(C), FACS
Department of Neurosurgery, The University of Texas MD Anderson Cancer Center
Houston, TX, USA

Professor Gábor Méhes MD, PhD
Professor of Pathology, Department of Pathology
Faculty of Medicine, University of Debrecen
Debrecen, Hungary
Professor Leszek Miszczyk, MD  
Head of Radiotherapy Department  
Maria Sklodowska-Curie Memorial Cancer Center and Institute of Oncology  
Gliwice, Poland

Professor Yoshimasa Mori, MD, DMSc, IFAANS  
Director, Center for Advanced IGRT, Shin-Yurigaoka General Hospital  
Kanagawa, Japan

Ian Paddick, PhD  
Consultant Physicist;  
Medical Physics Limited  
President of International Stereotactic Radiosurgery Society (ISRS)  
Vice-President of British Radiosurgery Society (BRSS)  
London, UK
Alexandr Pankratov, MD
Chairman, Department of Radiation Oncology
Oncology and Radiology Center “PET-Technology Balashikha”
Balashikha, Moscow Region, Russia

Professor Sujit S. Prabhu, MD, FRCS, FAANS
Department of Neurosurgery, The University of Texas MD Anderson Cancer Center
Houston, TX, USA

Professor Jean Régis MD
Professor at the Aix-Marseille University
Head of the “Functional Neurosurgery & Radiosurgery department” at Timoen Hospital
President of the “Société Française de Neurochirurgie” (SFNC)
Secretary of the European Society for Functional Neurosurgery (ESSFN)
Vice Secretary of the World Society for Stereotactic and Functional Neurosurgery (WSSFN)
President, International Stereotactic Radiosurgery Society (ISRS) 2011-2013
Marseille, France
Mihály Simon
Lead Radiotherapy Physicist
Clinic of Oncology Department of Radiotherapy
University of Debrecen Clinical Center
Debrecen, Hungary

Nikolay Vorobyov, MD, PhD
Chairman, Department of Radiation Oncology, Dr. Berezin Medical Institute
St. Petersburg, Russia

Irina Zubatkina, PhD
Senior Physicist, Department of Radiosurgery
Dr. Berezin Medical Institute
St. Petersburg, Russia
**Program**

**APRIL 11, 2019 (Thursday)**

**Greetings (8.30 – 9.00)**

Rector of Debrecen University, Professor Zoltán Szilvássy (Debrecen, Hungary)

President of ISRS Mr. Ian Paddick (London, UK)

**Session I (9.00 – 10.20): Management of Brain Metastases: Overview**

*Moderators:* Árpád Kovács (Debrecen, Hungary), Mikhail Chernov (Tokyo, Japan)

- **Intracranial Metastases of Solid Cancers: Overview**
  Gábor Méhes (Debrecen, Hungary)

- **Current Role of WBRT in Management of Brain Metastases**
  Árpád Kovács (Debrecen, Hungary)

- **SRS/SRT of Brain Metastases: What We Have to Learn from Randomized Trials**
  Levente Jánváry (Budapest, Hungary)

- **Discussion**

**Coffee Break (10.20 – 10.35)**

**Session II (10.35 – 11.55): Management of Brain Metastases: SRS**

*Moderators:* Attila Bagó (Budapest, Hungary), Andrey Golanov (Moscow, Russia)

- **SRS for Brain Metastases: Current Status and Future Perspectives**
  József Dobai (Debrecen, Hungary)

- **SRS of Critically Located Brain Metastases**
  Ian McCutcheon (Houston, USA)

- **Radiosurgical Options for Large Brain Metastases**
  Pavel Ivanov (St. Petersburg, Russia)

- **Discussion**

**Satellite Symposium of SCANOMED (11.55 – 12.55)**

*Moderator:* Imre Fedorcsák (Budapest, Hungary)

- **PET Imaging, as a Guidance of Metastasis-Directed Therapies in Prostatic Cancer**
  Ilidikó Garai, Hungary

- **Metabolic Delineation of Moving Lung Targets with FDG-PET**
  Zsolt Hascsi, Hungary

- **PET/CT in Neurooncology**
  Bernadett Szűcs, Hungary
Group photo / Lunch / Visit to Debrecen Radiosurgical Center (12.55 – 14.15)

Satellite Symposium of VARIAN (14.15 – 15.15)

Moderator: Árpád Kovács (Debrecen, Hungary),

- Edge® Radiosurgery: New Capabilities in High-Precision SRS
  David James, Varian Medical Systems International AG
- Clinical Experience with Calypso® tracking in SABR for Pancreatic Tumours
  Domagoj Kosmina, MSc., Radiochirurgia Zagrebu

Session III (15.15 – 16.35): Management of Brain Metastases: Surgery + SRS

Moderators: László Bognár (Debrecen, Hungary)
            Roberto Martinez-Alvarez (Madrid, Spain)

- Role of Surgery for Brain Metastases in the Era of Radiosurgery
  Attila Bagó (Budapest, Hungary)
- Radiosurgery for Tumor Resection Cavity after Removal of Brain Metastases
  Sujit Prabhu (Houston, USA)
- Preoperative SRS before Resection of Large Brain Metastases
  Andrey Golanov (Moscow, Russia)

- Discussion

Coffee Break (16.35 – 16.50)

Session IV (16.50 – 18.10): SRS/SRT of Parenchymal Brain Tumors

Moderators: Imre Fedorcsák (Debrecen, Hungary),
            Ian McCutcheon (Houston, USA)

- SRS/SRT in Management of High-grade Gliomas
  Irina Zubatkina (St. Petersburg, Russia)
- SRS/SRT in Management of Low-grade Gliomas
  Roberto Martinez-Alvarez (Madrid, Spain)
- SRS/SRT for Malignant Intracranial Tumors in Pediatric Patients
  Andrey Golanov (Moscow, Russia)

- Discussion
Plenary Lecture (18.10 – 18.55):
SRS/SRT of Intracranial Extra-axial Malignant Tumors
Yoshimasa Mori (Tokyo, Japan)

Moderators: Imre Fedorcsák (Debrecen, Hungary)
Ian McCutcheon (Houston, USA)

Closing Remarks for the First Day (18.55 – 19.00)

APRIL 12, 2019 (Friday)

Session V (9.00 – 10.20): Medical Physics for Radiosurgery
Moderators: Mihály Simon (Debrecen, Hungary),
Ian Paddick (London, UK)

- Radiobiology of High Doses: Modeling of SBRT, SRT and SRS
  Ian Paddick (London, UK)
- Inhomogeneous Dose Distribution in SRT of Intracranial Malignancies: A Strategy for Improving Efficiency
  Irina Zubatkina (St. Petersburg, Russia)
- Hypofractionation: Rationale and Advantages
  Mihály Simon (Debrecen, Hungary)
- Discussion

Coffee Break (10.20 – 10.35)

Plenary Lecture (10.35 – 11.20):
Imaging for Stereotactic Radiosurgery
Irina Zubatkina (St. Petersburg, Russia)

Moderators: Ervin Berényi (Debrecen, Hungary)
Pavel Ivanov (St. Petersburg, Russia)

Satellite Symposium of ELEKTA (11.20 – 12.20)
The paradigm shift of Gamma Knife radiosurgery for Melanoma brain mets at the era of Immunology
Jean Regis (Marseille, France)

Moderator: László Bognár (Debrecen, Hungary)

Lunch (12.20 – 13.20)

Plenary Lecture (13.20 – 14.05):
SRS/SRT of Primary and Metastatic Lung Cancer
Ferenc Lakosi (Kaposvár, Hungary)
Moderators: Árpád Kovács (Debrecen, Hungary)
Leszek Miszczyk (Gliwice, Poland)

Plenary Lecture (14.05 – 14.50):
SRS/SRT of Pancreatic and Liver Cancers
Antonia Lavorato (Oxford, UK)

Moderators: Levente Jánváry (Budapest, Hungary)
Leszek Miszczyk (Gliwice, Poland)

Plenary Lecture (14.50 – 15.35):
Irradiation of Gastrointestinal Cancers
Alexander Pankratov (Moscow Region, Russia)

Moderators: Levente Jánváry (Budapest, Hungary)
Leszek Miszczyk (Gliwice, Poland)

Coffee Break (15.35 – 15.50)

Plenary Lecture (15.50 – 16.35):
SRS/SRT of Primary and Recurrent Prostate Cancer
Leszek Miszczyk (Gliwice, Poland)

Moderators: Ferenc Lakosi (Kaposvár, Hungary)
Antonia Lavorato (Oxford, UK)

Plenary Lecture (16.35 – 17.20):
Proton Therapy: Current Indications and Results
Nikolay Vorobyov (St. Petersburg, Russia)

Moderators: Ferenc Lakosi (Kaposvár, Hungary)
Antonia Lavorato (Oxford, UK)

Closing Lecture (17.20 – 17.35):
ISRS, Its Current Activities, and Future Projects
Mikhail Chernov (Tokyo, Japan)

Moderator: József Dobai (Debrecen, Hungary)

Closing Remarks / Certification (17.35 – 17.45)

APRIL 13, 2019 (Saturday)

Meeting of Faculty Members (8:00-17:00)
Partners/Sponsors

https://www.accuray.com/

https://www.elekta.com/

https://www.sugarsebeszet.hu/

http://www.scanomed.hu/en/

https://smartdiagnosztika.hu/

https://www.varian.com/
General info:

University of Debrecen

Gamma Sugársebészeti Központ
https://www.sugarsebeszet.hu/

Organizer:

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Nagyerdei krt 98
TAX No 19128362-1-09,
Bank account: K&H Bank 10200304-34015906-00000000