



Organized by:

International Stereotactic Radiosurgery Society Stereotactic Radiosurgery Center Sigulda, Latvia

ISRS INTERNATIONAL STEREOTACTIC RADIOSURGERY SOCIETY



Date:

From June 1 (Thursday) to June 3 (Saturday), 2023

Venue:

Culture centre SIGULDAS DEVONS, Pils street 10, Sigulda

Website:

https://isrs.cyberknife-sigulda.com

Contact us:

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Dear Colleagues, Friends!

Greetings! Many thanks for your coming to Sigulda and contribution to the Educational Course of the International Stereotactic Radiosurgery Society (ISRS) organized here.

Up to date, it is still rather common that radiation treatment, radiosurgery specifically, is considered somewhat concurrent to open surgery, which rather often put practitioners of these specialties in dispute and even professional confrontation. Such an approach, however, should be considered outdated and unproductive. One of the main goals of modern doctors is search and evidence-based selection of the optimal treatment for each individual patient with a purpose to attain the best possible outcome in a specific clinical situation. It may be surgical interventions in all their varieties (open, endoscopic, endovascular, stereotactic); any type of radiation therapy (conventional, hypofractionated, hyperfractionated, accelarated) wide-field or stereotactic, based on photons, protons, or heavy ions; radiosurgery (single- or multisession); concurrent systemic therapy (chemotherapy, immunotherapy, molecular targeted agents), or any combination of these and other treatment methods and techniques. Their optimal selection is clearly rather complex and multifaceted task, since great variety of patient-associated, disease-specific, treatment-related, and social factors should be taken all together into consideration. Appropriate decisions cannot be made without comprehension of the alternative management options beyond one's own field of expertise, and may require dwindling of personal preferences in favor of unique needs of a certain patient.

ISRS educational program launched in December 2016 is particularly directed at widespread dissemination of knowledge on contemporary stereotactic radiation therapy and radiosurgery among professionals working in various fields of medicine. It is always a pleasure to see among participants of our events not only experts of radiation treatment, but colleagues from other medical specialties—surgeons, medical oncologists, neurologists, neuropathologists, radiologists, general practitioners, etc.—and to exchange our knowledge with them in parallel to learning from their experience. Our courses always fostered true democratic atmosphere and friendly and informal style of presentations and discussions, and we encourage you to follow the same traditions during the event in Sigulda. You are most welcome to ask questions, express personal opinions, highlight concerns, and declare disagreements, as long as it helps to clarify any related issue and to facilitate search for objective answers to questions under discussion.

My sincerest thanks go to old friends from Radiosurgery Center "Sigulda" who put enormous efforts for making this event possible, to our Faculty members who have voluntarily agreed to come and share their knowledge and experience with the course attendees, and to our Sponsors who kindly provided their support. Your good will cannot be overvalued since it allows for realization of the ISRS Educational Program worldwide.

I wish all of you interesting educational program, enjoyable social activities, and remarkable time in Latvia!

Dr. Mikhail Chernov

Chairman of the ISRS Education Committee



Why ISRS courses in Sigulda again?

Situated not far from Sigulda, the majestic river Daugava flows through Riga, facilitating cultural and trade links between the Baltic and Black seas since ancient times.

Sigulda has a rich history dating back to pagan times. It was a home to the ancient Latgali and Livi tribes in the land of Mara. The river Gauja has long connected Scandinavia, Western Europe, Livonia, and its Eastern neighbors. It is a place where Christianity first took root in the Baltics and where the ancient state of Livonia was founded (now part of Latvia and Estonia). Today, Sigulda and its people unite diverse cultures and boast a harmonious blend of nature's beauty, modern medical technologies, hospitable residents, and a strong sense of openness without forgetting our roots. As Siguldians, we take pride in our city, while maintaining an open and confident outlook on ourselves, our goals, our work, our county, and our country - Latvia.

We invite our conference guests to explore Sigulda–a city that captivates visitors with its charm:

- take part in the Sigulda City Festival,
- immerse yourself in the wonders of Gauja National Park,
- visit the ancient mounds of the Latgali and Livonian tribes such as Satezele and Vikmeste,
- discover the cradle of Christianity in Krimulda and Turaida.

Five years ago, we organized the previous ISRS radiosurgery course in Sigulda. During this course, we focused on the treatment of benign intracranial pathologies and oncourology. This time, in collaboration with the Latvian Society of Neurosurgeons, the first day of the ISRS educational course in Sigulda will explore the advantages and disadvantages of using SRS and complementary methods for treating metastases in the brain. The second day will delve into the comprehensive use of SRS and SBRT in the treatment of extracranial oncological pathologies. On the third day, we will discuss technical aspects of SRS and compare technologies, making it particularly relevant for avid SRS enthusiasts.

On behalf of the organizers, we would like to thank all the attendees of the ISRS educational course in Sigulda. We seize this opportunity to meet with esteemed luminaries from the Baltic and Black Sea region in the fields of SRS and SBRT, while gaining knowledge about this specific field of precision radiation therapy. We wish you a fantastic event!

Dr. pharm. Māris Skromanis

you

Director of the ISRS educational course, Sigulda, Latvia

Faculty



Dr. pharm. Māris Skromanis Course DirectorManaging Director and Member of the Board, Radiosurgery
Center "Sigulda",
Sigulda, Latvia



Prof. Kaspars Auslands Course Co-Director Neurosurgeon and The Head of Latvian Association of Neurosurgeons, Riga Stradins University and Riga East Clinical University Hospital, Riga, Latvia



Dr. Māris Mežeckis Course Co-DirectorRadiation Oncologist,
Radiosurgery Center "Sigulda",
Sigulda, Latvia



Dr. Vladislav BurykNeurosurgeon,
Radiosurgery Center "Sigulda",
Sigulda, Latvia



Dr. József DobaiDirector, Gamma Radiosurgery
Center, and Neurosurgeon,
Department of Neurosurgery,
University of Debrecen,
Debrecen, Hungary



Prof. Elitsa Encheva Head of the Radiotherapy, Department, University Hospital "St. Marina", Medical University Varna, Varna, Bulgaria



Prof. Arpad Kovacs Head of the Radiotherapy Department, Oncology Clinic, University of Debrecen, Debrecen, Hungary



Dr. Ferenc LakosiHead of the Radiotherapy
Department, Somogy County
Kaposi Mór Teaching Hospital,
Kaposvár, Hungary



Dr. David MilesEuropean Director,
Bussines Development,
ZAP Surgical,
London, UK



Dr. Marcin MiszczykRadiation Oncologist,
IIIrd Radiotherapy and
Chemotherapy Department,
Maria Skłodowska-Curie National
Research Institute of Oncology
Gliwice Branch, Gliwice, Poland



Dr. Aleksandra NapieralskaRadiation Oncologist,
Radiotherapy Department,
Maria Skłodowska-Curie National
Research Institute of Oncology
Gliwice Branch, Gliwice, Poland



Anna Odložilíková Clinical Radiology Physicist, Mazaryk Memorial Cancer Institute, Brno, Czech Republic



Prof. Enis Özyar Head of Department of Radiation Oncology, Acibadem MAA University, School of Medicine, Faculty of Medicine, Istanbul, Turkey



Kristaps PalskisResearcher, Institute of Particle
Physics and Accelerator
Technologies, Riga Technical
University, Riga, Latvia



Prof. Selçuk Peker Chairman of the Department of Neurosurgery and Chief of Gamma Knife Radiosurgery Center, Koç University School of Medicine, Istanbul, Turkey

Faculty



Vlad Puzankoff Head of Business Line Neuro (Stereotactic Radiosurgery and Neurosurgery), Region Europe, Elekta, Stockholm, Sweden



Dr. Andrius RadžiūnasHead of Functional Neurosurgery
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Neurosurgery Department,
Lithuanian University of Health
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Mg. Phys. Eva Reine Product Manager, Mediconsult MS, Liepaja, Latvia



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Helena Sandström Clinical Marketing Manager, Neuro Solutions, Elekta, Stockholm, Sweden



Dr. Mikk SaretokMedical Oncologist,
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Tallinn, Estonia



Mihály Simon Lead Radiotherapy Physicist, Department of Radiotherapy, Oncology Clinic, University of Debrecen, Debrecen, Hungary



Dr. Maryna Sokolovska Head of Radiotherapy Department, LISOD – Israeli Oncological Hospital, Kiev, Ukraine



Tom Sundelin VP of Sales Naslund Medical AB, Stockholm, Sweden



Mg. Phys. Indra Surkova Medical Physicist, Stereotactic Radiosurgery Center "Sigulda", Sigulda, Latvia



Kätlin Tiigi Medical Physicist (Radiotherapy) and Head of Radiotherapy Department, North Estonia Medical Centre, Tallinn, Estonia



Dr. Raimundas Venckus Head of Urology Departament, Klaipeda University Hospital, Klaipeda, Lithuania

Program Thursday June 1st

Organized together with the

LATVIAN SOCIETY OF NEUROSURGEONS

Registration 08.00 – 08.45 Greetings 08.45 – 09.00

09.00 - 10.20 Session I

Management of Brain Metastases: Overview

Moderators: Kaspars Auslands (Riga, Latvia);

Māris Mezeckis (Sigulda, Latvia)

Intracranial Metastases of Solid Cancers: Overview

Speaker: Vladislav Buryk (Sigulda, Latvia)

Current Role of WBRT in Management of Brain Metastases

Speaker: Arpad Kovacs (Debrecen, Hungary)

SRS/SRT of Brain Metastases: What We Have to Learn from

Randomized Trials

Speaker: Elitsa Encheva (Varna, Bulgaria)

Discussion

10.20 - 10.50 Plenary Lecture I

Radiobiological Basis of SRS for Brain Metastases

Moderators: Kaspars Auslands (Riga, Latvia);

Māris Mežeckis (Sigulda, Latvia)

Speaker: Anna Odložilíková (Brno, Czech Republic)

10.50 - 11.10 Coffee Break

11.10 - 12.30 Session II

SRS of Brain Metastases: Special Issues

Moderators: József Dobai (Debrecen, Hungary);

Vladislav Buryk (Sigulda, Latvia)

Radiosurgical Options for Large Brain Metastases

Speaker: Selçuk Peker (Istanbul, Turkey)

SRS of Critically Located Brain Metastases

Speaker: Andrius Radžiūnas (Kaunas, Lithuania)

SRS of Brain Metastases in Patients with Poor Performance Status

ZAP

Speaker: Vladislav Buryk (Sigulda, Latvia)

Discussion

12.30 - 13.00 Plenary Lecture II

SRS Combined with Immunotherapy for Brain Metastases

Moderators: József Dobai (Debrecen, Hungary);

Vladislav Buryk (Sigulda, Latvia)

Speaker: Mikk Saretok (Tallinn, Estonia)

13.00 - 14.00 Group Photo / Lunch

14.00 – 15.00 Satellite Symposium

of ZAP Surgical

Moderator: Māris Skromanis (Sigulda, Latvia)

Vault-Free, Cobalt-Free Radiosurgery:
A New Frontier of World-Class SRS

Speaker: David Miles (ZAP Surgical)

15.00 – 16.00 Satellite Symposium of Elekta

Elekta

Moderator: Vlad Puzankoff (Elekta)

Automated SRS with Leksell Gamma Knife

Speaker: Helena Sandström (Elekta)

Transforming Treatment Approaches for Very Large Intracranial Lesions: The Potential of Adaptive and Staged Radiosurgery

Speaker: Andrius Radžiūnas (Kaunas, Lithuania)

16.00 - 16.20 Coffee Break

16.20 - 17.40 Session III

Management of Brain Metastases: Surgery + SRS

Moderators: Selçuk Peker (Istanbul, Turkey);

Andrius Radžiūnas (Kaunas, Lithuania)

Role of Surgery for Brain Metastases in the Era of Radiosurgery

Speaker: Kaspars Auslands (Riga, Latvia)

Radiosurgery for Tumor Resection Cavity after Removal of Brain

Metastases

Speaker: Selcuk Peker (Istanbul, Turkey)

Preoperative SRS before Resection of Large Brain Metastases

Speaker: József Dobai (Debrecen, Hungary)

Discussion

17.40 - 18.40 Discussion on Real Clinical Cases:

Neurosurgical Indications

Speakers and Moderators: Selcuk Peker (Istanbul, Turkey); Andrius Radžiūnas (Kaunas, Lithuania); József Dobai (Debrecen,

Hungary); Vladislav Buryk (Sigulda, Latvia)

18.40 – 18.45 ISRS Certification Ceremony:

Selcuk Peker (Istanbul, Turkey)

18.45 - 18.50 Closing Remarks for the First Day

GRAND OPENING:

An Enchanting Musical Journey into the Realm of Pagan Inspiration

DEVONS Lobby 19.00 - 21.00

Program Friday June 2nd

Registration 08.00 - 08.30

08.30 – 09.00 Plenary Lecture III SRS/SRT of Renal Cancer

Moderators: Aleksandra Napieralska (Gliwice, Poland);

Zane Ruduša (Riga, Latvia)

Speaker: Arpad Kovacs (Debrecen, Hungary)

09.00 - 10.20 Session IV SRS/SRT for Abdominal Cancers

Moderators: Aleksandra Napieralska (Gliwice, Poland);

Zane Ruduša (Riga, Latvia)

SRS/SRT of Liver Cancers

Speaker: Enis Özyar (Istanbul, Turkey)

SRS/SRT of Pancreatic Cancers

Speaker: Ferenc Lakosi (Kaposvár, Hungary)

Irradiation of Gastrointestinal Cancers

Speaker: Maryna Sokolovska (Kiev, Ukraine)

Discussion

10.20 – 10.50 Plenary Lecture IV Adaptive SBRT For Abdominal Cancers

Moderators: Aleksandra Napieralska (Gliwice, Poland);

Zane Ruduša (Riga, Latvia)

Speaker: Enis Özyar (Istanbul, Turkey)

10.50 - 11.10 Coffee Break

11.10 - 12.30 Session V

Radiosurgery of Prostate Cancer

Moderators: Ferenc Lakosi (Kaposvár, Hungary);

Elitsa Encheva (Varna, Bulgaria)

Radiosurgery of Prostate SRT: Technical and Technological Aspects

Speaker: Aleksandra Napieralska (Gliwice, Poland)

Radiosurgery of Primary and Recurrent Prostate Cancer: Results

Speaker: Marcin Miszczyk (Gliwice, Poland)

 ${\bf Radiosurgery\ of\ Prostate\ Cancer:\ Complications\ and\ their\ Avoidance}$

Speaker: Elitsa Encheva (Varna, Bulgaria)

Discussion

12.30 - 13.00 Plenary Lecture V

International Study on Radiosurgery of Prostate Cancer: Interim Report of the ISRS Working Group on Prostate Radiosurgery

Moderators: Ferenc Lakosi (Kaposvár, Hungary);

Elitsa Encheva (Varna, Bulgaria)

Speaker: Maris Mežeckis (Sigulda, Latvia)

13.00 - 14.00 Lunch



14.00 - 15.00 Satellite Symposium of Radiosurgery Center "Sigulda"

Prostatectomy against Radiosurgical Ablation: Pros and Cons

Moderator: Māris Skromanis (Sigulda, Latvia)

Opinion of a Surgeon

Speaker: Raimundas Venckus (Klaipeda, Lithuania)

Opinion of a Radiation Oncologist Speaker: Māris Mežeckis (Sigulda, Latvia)

Discussion

15.00 - 16.00

奏 Gold Anchor ™

Satellite Symposium of Golden Anchor

The Usage of Golden Anchor Fiducial Markers for Image-Guided Radiation Therapy of Extracranial Pathology

Moderator: Māris Skromanis (Sigulda, Latvia) Speaker: Eva Reine (Liepaja, Latvia)

16.00 - 16.20 Coffee Break

16.20 – 16.50 Plenary Lecture VI Irradiation of Gynecological Cancers

Moderators: Enis Özyar (Istanbul, Turkey);

Arpad Kovacs (Debrecen, Hungary)

Speaker: Ferenc Lakosi (Kaposvár, Hungary)

16.50-17.50 Discussion on Real Clinical Cases: Somatic Indications

 $Speakers\ and\ Moderators:\ Enis\ \"{O}zyar\ (Istanbul,\ Turkey);$

Arpad Kovacs (Debrecen, Hungary); Ferenc Lakosi (Kaposvár, Hungary); Marcin Miszczyk (Gliwice, Poland)

17.50 – 17.55 Closing Remarks for the Second Day

EXCITING SOCIAL ADVENTURE:

Collective walking exploration of Sigulda Castle's Creative Quarter 18.00 - 20.00

Program Saturday June 3rd

Registration 08.00 - 08.30

08.30 – 09.00 Plenary Lecture VII Imaging for Stereotactic Radiosurgery

Moderators: Mihály Simon (Debrecen, Hungary); Anna Odložilíková (Brno, Czech Republic) Speaker: Kätlin Tiigi (Tallinn, Estonia)

09.00 - 09.30 Plenary Lecture VIII Technologies for SRS and SRT: Comparison of Advantages and Limitations

Moderators: Mihály Simon (Debrecen, Hungary); Anna Odložilíková (Brno, Czech Republic) Speaker: Mihály Simon (Debrecen, Hungary)

09.30 – 10.00 Plenary Lecture IX SRS of Movable Targets

Moderators: Mihály Simon (Debrecen, Hungary); Anna Odložilíková (Brno, Czech Republic) Speaker: Indra Surkova (Sigulda, Latvia)

10.00 - 10.30 Plenary Lecture X Proton and Heavy Ion Therapy: Current Status and Future Perspectives of Clinical Applications

Moderators: Mihály Simon (Debrecen, Hungary); Anna Odložilíková (Brno, Czech Republic) Speaker: Kristaps Palskis (Meyrin, Switzerland)

10.30 - 10.50 Closing Lecture ISRS, Its Current Activities, and Future Projects

Moderator: Māris Skromanis (Sigulda, Latvia) Speaker: Vladislav Buryk (Sigulda, Latvia)

10.50 – 11.00 Closing Remarks / Certification

SIGULDA FESTIVAL

Vibrant Community Event All Day Long

Venue map

Where to eat





ISRS Certification Service

The ISRS fosters multidisciplinary education, collaborative research and clinical and technical best practices in SRS and SBRT

ISRS was founded as a global nonprofit organization in 1991. As the largest association of its kind, ISRS invites its members to join a diverse, worldwide community of neurosurgeons, radiation oncologists, medical physicists and other healthcare professionals who are focused on the advancement of SRS and SBRT through:

- Offering state-of-the-art educational activities
- Defining and disseminating clinical best practice and guidelines
- Fostering scientific research and collaboration
- Convening the ISRS Congress

The ISRS is committed to raising the level of quality of SRS treatment delivery around the world and promoting the highest levels of clinical expertise.

Our Certification Service recognises centres that demonstrate best practice and standards in terms of patient selection, treatment planning, dosimetry and patient care in intracranial SRS.

Our service provides value through:

- **Personalised, on-site education** provided by experts in SRS over 2 days to ensure you are confident in delivering quality treatment to your patients.
- End-to-end testing by ISRS physicists to satisfy the requirement of an external dosimetrical audit.
- Formal recognition by ISRS of your commitment to the highest quality standards in SRS.
- **Streamlined recertification** process 3 years following successful certification ensures you maintain quality SRS standards long-term.

Why should your centre become ISRS-certified?

A unique face-to-face personalised service

The ISRS Certification Service is equally suited to experienced centres or those that are starting to treat for the first time and would benefit from an external audit

The certification process involves:

- The completion of a pre-visit questionnaire
- A two-day visit by an expert physicist who performs a comprehensive audit
- Remote support by an expert SRS physician, via video conferencing
- Use of the prestigious ISRS Certified stamp for a period of 3 years from the date of successful audit completion

Contact Us

email: certification@isrsy.org https://www.isrsy.org/en/certification/









Even the best SRS centres can benefit from an independent external assessment conducted by adevice-agnostic organisation.

External dosimetrical audits are now strongly recommended, or even mandatory in some countries, and the end-to-end testing included with the ISRS Certification Service satisfies this requirement.

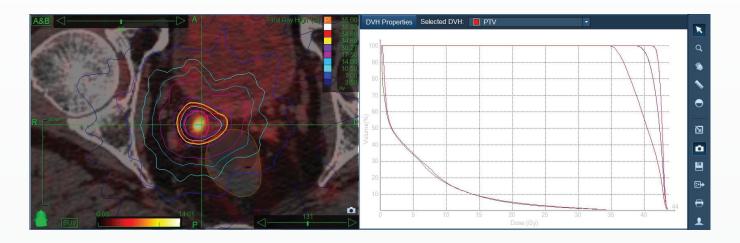
In a competitive environment a certified centre is able to demonstrate that their commitment to the highest standards has been recognised by the ISRS. Some clinicians are keen to enter their centre to the certification process in order to accelerate improvements they are keen to implement.

Re-certification is a streamlined and reduced-cost process which, depending on the number of changes to the department since the last inspection, may require as little as a remote video conference and a postal dosimetry audit.





The ISRS Working Group on Prostate Radiosurgery was created during the ISRS



Educational Course held in Kuopio, Finland, on November 1-3, 2018 with the goal of clarifying the role of SBRT in the treatment of prostate cancer utilizing a multicenter registry which has been developed in collaboration with Riga Stradins University Laboratory of Statistics. At present, this Group incorporates 7 participating centers in Gliwice (Poland), Kaposvár (Hungary) and Sigulda (Latvia) and welcomes partnership with other interested colleagues who wish to collaborate and ready to submit required clinical data for their inclusion into the integrated analysis.

Recently, we have summarized current evidence of the SBRT application in cases of intermediate, unfavorable and high-risk prostate cancer, which has been published in the official ISRS Journal, Journal of Radiosurgery and SBRT (see, PMID: 36275129; PMCID: PMC9489076). We continue searching for data on intermediate unfavorable to very high-risk prostate cancer treated with SBRT with up to 6 fractions schedule.

We are also interested in investigation of the SBRT application in cases of relapsed and oligometastatic prostate cancer. Finally, the ISRS Working Group on Prostate Radiosurgery is setting up a group of interested clinicians and scientists for development of the guidelines on SBRT of prostate cancer as a contribution to the ISRS Guideline Project.

If you or your colleagues are interested in any of these projects, we are kindly inviting you to join our activities. Every contributor to our multicenter studies is granted with sharing co-authorship in all related publications. For further information, please contact coordinator of the ISRS Working Group on Prostate Radiosurgery Dr. Maris Mezeckis, Radiation Oncologist from Sigulda Radiosurgery Center, Sigulda, Latvia (maris.mezeckis@gmail.com).



Upcoming ISRS Educational Courses

August 2023 Kochi, India

October 2023 Buenos Aires, Argentina

December 2023 Istanbul, Turkey February 2024 Varna, Bulgaria

April 2024 Debrecen, Hungary

This schedule should be considered provisional and may be corrected. For further updates, please, follow our web-site:

www.ISRSy.org

16th International Stereotactic Radiosurgery Society Congress



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