



 **BRSS** British
Radiosurgery
Society
P R O G R A M M E

9th Meeting of the British Radiosurgery Society



IET Birmingham, Austin Court B1 2NP
23rd & 24th January 2025



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Programme

Day 1, Thursday 23rd January

12:00 **Registration and Lunch**

12:30 Welcome and introduction: **Ian Paddick & Matt Williams**

Session 1: Geometric and dosimetric uncertainties in SRS: How accurate are we?

Chair: Gavin Wright/Lucy Winch

12:35 Geometric and Dosimetric Uncertainties in SRS: How accurate are we?
Keynote speaker: Thierry Gevaert

12:55 Evaluating the Accuracy of Exactrac Image Verification at Imperial
College NHS Healthcare Trust
Olivia Channon

13:05 Comparison study between the geometric accuracy of dose delivery
based on Exactrac and CBCT imaging setup for multiple mets SRS
using gel dosimetry
Abdul H. Mroué

13:15 Discussion

Session 2: HyperArc: A leap forward in technical capability or marketing?

Chair: David Eaton/Clare Tunstall

13:25 6 years of conventional Linac based SRS, 2 years of HyperArc: What's
the difference? Experience of moving to HyperArc SRS
Clare Tunstall

13:35 HyperArc Consortium Planning Study
Clare Tunstall

13:45 Quantifying intrafraction motion of Linac based SRS treatments, using
HyperArc and the Encompass™ thermoplastic device
Catherine Kelly

13:55 Single institution Overall Survival outcomes for 158 Hyperarc SRS patients
Michelle Forshaw

Session 3: Open masks (vs closed) & relocatable masks (vs fixed frames): How much flexibility benefits the patient?

Chair: David Eaton/Thierry Gevaert

14:05 Open masks vs closed
Keynote speaker: Thierry Gevaert

14:25 Determination of efficacy of patient set-up with the use of different headrests with Encompass mask for SRS treatments with HyperArc
Michelle Forshaw

14:35 Cranial Radiosurgery with a Linear Accelerator and Real-Time Monitoring: A Retrospective Study on the Impact of Bite Block Use on Patient Positioning
Marta Ferreira

Session 4: Sponsored Presentations (I)

14:45 Enhancing the treatment pathway for benign intracranial tumours through AI (Amethyst)
Patrick Grover

14:55 Comprehensive multi-institutional results of End-to-End dosimetry audits in cranial Stereotactic Radiosurgery (RTsafe)
Evangelos Pappas

15:05 Precision Matters: Advancing Stereotactic Radiosurgery with Cutting-Edge Technology (BrainLab)
David Kynaston

15:15 The future and potential of Gyroscopic Radiosurgery (Zap Surgical)
Alex Maslowski

15:25 **Coffee Break**

Session 5: Progression/Pseudoprogression/Radionecrosis: Strategies for discernment

Chair: Helen Benghiat/Arjun Sahgal

15:55 Integrating the risks of radionecrosis and with disease progression based on dose and volume
Matt Williams

16:05 The use of Bevacizumab for the treatment of radionecrosis
Paul Sanghera

16:15 Simple techniques for tumour/radionecrosis differentiation

Ian Paddick

Session 6: Treatment of large brain metastases

Chair: Ian Paddick/Matt Williams

- 16:25 Pre-surgical SRS for large brain mets
Keynote speaker: Hamoun Rozati

- 16:40 Clinical Outcomes of Multifractionated Stereotactic Radiosurgery in Large Volume Secondary Brain Metastases: A Retrospective Analysis
Mahbuba Choudhury

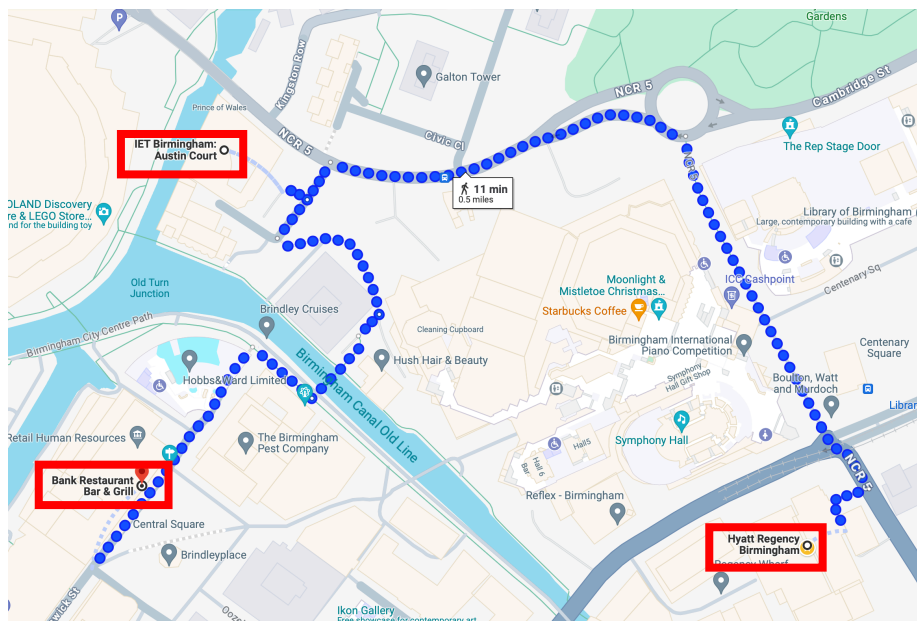
- 16:50 Clinical Outcomes of Single-Fraction Stereotactic Radiosurgery in Large Volume Brain Metastases with High V10 Levels: A Retrospective Analysis
Mahbuba Choudhury

- 17:00 How we would treat: Discussion on the treatment of large metastases with clinical cases
Chair: Matt Williams
Panel: Arjun Sahgal, Julian Cahill, Paul Sanghera, Hamoun Rozati, Neil Kitchen, Ian Paddick

- 18:00 Business meeting

- 18:30 **Close**

- 19:30 **Meeting Dinner**
Bank, Restaurant Bar and Grill – Bank RBG
<https://therestaurantbarandgrill.com/locations/birmingham/>



Day 2, Friday 24th January

Session 7: Methods and frequency of patient specific QA: What is appropriate?

Chair: Lucy Winch/Honorata Chajicka-Szczygielska

- 09:00 A novel Known Target Phantom geometric accuracy of the Vantage Frame
Ian Paddick
- 09:10 Analysis of the heterogeneity effects on the dosimetry of SRS plans within Elements Monte-Carlo (MC) and Pencil Beam (PB) algorithms and Eclipse's Acuros algorithm
Abdul H. Mroué
- 09:20 Patient specific quality assurance on Gamma Knife: Is it required?
Piotr Gieryluk
- 09:30 Comparison of EPID, Mobius and SRSMC for Patient-Specific Quality Assurance in Stereotactic Radiosurgery
Mahmoud Younes
- 09:40 Feasibility of using Micro Silica Beads (MSBs) for Leksell Gamma Knife dosimetry
Chris J Stepanek

Session 8: Repeat SRS for metastases

Chair: Julian Cahill/Hamoun Rozati

- 09:50 Re-treatment of brain mets with SRS
Keynote speaker: Arjun Sahgal
- 10:10 Re-irradiation Practice and Outcomes in Stereotactic Radiosurgery: A Single Centre Experience
Fouzia Andleeb
- 10:20 Hypo-fractionated radiotherapy to the cavity for resected brain metastases: A UK series. Is this an alternative to SRS in selected cases?
Claire Barker

10:30 Coffee Break/Poster Session

Session 9: Sponsored Presentations (II)

- 11:00 Tumour Treating Fields: Understanding electrical field dosimetry, clinical outcomes and progression patterns in glioblastoma patients (Novocure)
Leonardo Lustgarten
- 11:10 Clinical developments in radiosurgery (Elekta)
Speaker TBC

- 11:20 Dedicated technologies, differentiated solutions (Accuray)
Kirsti Gordon and Susan Reid
- 11:30 A leap forward in technical capability
David James
- 11:40 Vision RT – Title TBC
Annemarie Kennedy

Session 10: Combining SRS and systemic therapies: Synergies and risks

Chair: Matt Williams/Paul Sanghera

- 11:50 Targeted Drugs and Management of Brain Mets
Keynote Speaker: Arjun Sahgal
- 12:10 SRS and Systemic Therapies: Synergies and Risks
Vinton Cheng
- 12:25 Stereotactic Radiosurgery and Immune Checkpoint Inhibitors in the Management of Brain Metastases: Experience Single Institution
Alice Alves

12:35 Lunch

Session 11: What's the limit to the number of mets that we can treat?

Chair: Matt Radatz/Paul Sanghera

- 13:35 Treatment of brain metastases with SRS: How many is too many?
Keynote speaker: Arjun Sahgal
- 13:55 History and current status of multiple metastasis treatments
Ian Paddick
- 14:05 Cyberknife: How do we select patients with multiple metastases for SRS?
Helen Benghiat
- 14:20 Can you Treat Numerous Target Plans Using Hyperarc on a Standard Linac?
Joanne Cook
- 14:30 Stereotactic radiosurgery for intracranial metastatic disease: Insights from a survey of UK hospitals through the Tessa Jowell Academy
Jennifer King
- 14:40 Clinical outcomes and relevance of composite V12 Gy in patients with four or more brain metastases treated with single fraction stereotactic radiosurgery
Shefali Parikh

Session 12: Treatment planning and other topics

Chair: David Eaton/Diana Grishchuk

- 14:50 Gamma Knife Stereotactic Radiosurgery for Olfactory Groove Meningioma: Radiological and Clinical Outcomes
Payman Vahedi
- 15:00 What is the impact upon Gamma Knife SRS dosimetry of using a Convolution dose algorithm with synthetic CT from MRI?
Zoe Middleton
- 15:10 Calculating Optic Nerve Planning Organ at Risk Volume Margins for Stereotactic Radiosurgery using optic nerve motion determined using MRI
Sagar Sabharwal
- 15:20 Is the value of the prescription isodose important and, if so, what is the optimal prescription isodose?
Diana Grishchuk
- 15:30 Coffee Break**
- 16:00 Integrated SRS and SRT dual isocentre VMAT Technique Validation Study
Kirsty Blythe
- 16:10 The ISRS Guidelines project
Arjun Sahgal
- 16:20 SRS Trial development
Matt Williams
- 16:30 Closing words
Ian Paddick & Matt Williams
- 16:35 Close of Meeting**

Poster Presentations

Is Hippocampal-sparing a valid alternative to stereotactic radiosurgery for patients with multiple brain metastases?

Caroline Apsey

Commissioning and Implementation of the MaxHD-2.0 phantom for use in SRS Quality Assurance

Daniel Brench

Correlation between Paddick Gradient Index and Target Volume: Single Institution Experience in Linac-based Radiosurgery of Brain Metastasis

Fernando Costa

A novel phantom for SIMT SRS QA: design, manufacture & initial testing

Jonathan Lane

Geometric and Dosimetric Uncertainties in Stereotactic Radiosurgery (SRS) and Stereotactic Radiotherapy (SRT) at Chahids Mahmoudi Hospital, Tizi Ouzou, Algeria

Billal Metchat

Communicating Hydrocephalus after radiotherapy for the Vestibular Schwannoma

Khin Ni

The prevalence of neurological admissions within six months of stereotactic radiosurgery

Adele Schiff and Aishwarika Basu

Evaluating the Stereotactic Radiosurgery (SRS) treatment pathway after the introduction of ProsomaCore (PSC) and log-file analysis

Jonathan Stoddart, Rachel Moran and Anna Bangiri



President: Ian Paddick
Vice President: Matthew Williams
Treasurer: Julian Cahill
Secretary: David Eaton
Past President: MWR Radatz