

Welcome to the 5th Biennial Scientific Meeting of the

International Radiosurgery Research Foundation

October 27-29, 2023
The Ritz-Carlton Coconut Grove, Miami, Florida
Local Meeting Director – Manmeet Ahluwalia, M.D., MBA IRRF
Chair – Jason Sheehan, M.D.
IRRF Executive Director – Ajay Niranjan, M.D.





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Fernandez Family Foundation Endowed Chair in Cancer Research Chief of Medical Oncology Chief Scientific Officer & Deputy Director Baptist Health Miami Cancer Institute Miami, Florida

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Ajay Niranjan, M.D., MBA – IRRF Executive Director

Professor of Neurosurgery University of Pittsburgh Pittsburgh, Pennsylvania

Veronica Chiang, M.D. - Planning Committee

Professor of Neurosurgery Yale University New Haven, Connecticut

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Alonso N. Gutierrez, Ph.D. – Planning Committee

Vice Chair of Medical Physics and Dosimetry Associate Professor – Radiation Radiation Oncology
Florida International University
Miami, Florida

Rupesh Kotecha, M.D. - Planning Committee

Chief of Radiosurgery
Director of CNS Metastasis Program Radiation Oncology
Miami Cancer Institute
Miami, Florida

Matthew Shepard, M.D. - Planning Committee

Director of Brain Tumor Research Allegheny Health Network Pittsburgh, Pennsylvania

John Suh, M.D. – Planning Committee

Chairman, Department of Radiation Oncology Cleveland Clinic Cleveland, Ohio

Daniel Trifiletti, M.D. – Planning Committee

Associate Professor Mayo Clinic Jacksonville, Florida

KEYNOTE SPEAKERS

Gene Barnett, M.D.

Director, Burkhardt Brain Tumor and Neuro-Oncology Center Cleveland Clinic Cleveland. Ohio

L. Dade Lunsford, M.D.

Lars Leksell Professor and Distinguished Professor of Neurological Surgery University of Pittsburgh Medical Center Pittsburgh, Pennsylvania

FACULTY

Joao Paulo Cavalcante de Almeida, M.D.

Assistant Professor, Department of Neurosurgery Mayo Clinic Jacksonville, Florida

Greg Bowden, M.D.

Assistant Clinical Professor of Surgery University of Alberta Hospital Edmonton Alberta, Canada

Carlos Carbini, MS

Gamma Knife Medical Physicist Puerto Rico Medical Services Administration (ASEM) San Juan, Puerto Rico

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Associate Director, Gamma Knife Center Cleveland Clinic Cleveland, Ohio

Jared Chen, M.D.

Assistant Professor McGovern Medical School UT Health Houston, Texas

Dale Ding, M.D.

Director of Cerebrovascular Program University of Louisville Louisville, Kentucky

John Flickinger, M.D., FACR

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Director of the Centre for Cranial Nerve Disorders University of Manitoba Winnipeg, Manitoba, Canada

Jonathan Knisely, M.D.

Assistant Professor of Radiation Oncology Cornell University Ithaca, New York

Douglas Kondziolka, M.D.

Director, Center for Advanced Radiosurgery NYU Langone Health New York, New York

Justin C.C. Lee, M.D.

Attending Physician, Department of Surgery Taipei Veterans General Hospital Beitou, Taipei, Taiwan

Eric J. Lehrer, M.D.

Assistant Professor of Radiation Oncology Mayo Clinic Rochester, Minnesota

Roberto Martinez-Alvarez, M.D.

Head of Functional Neurosurgery and Radiosurgery Ruber International Hospital Madrid, Spain

David Mathieu, M.D.

Associate Professor University of Sherbrooke Quebec, Canada

Minesh Mehta, M.D., FASTRO

Deputy Director and Chief of Radiation Oncology, Miami Cancer Institute Member, Memorial Sloan Kettering Cancer Alliance Miami, Florida

Eric Oermann, M.D.

Assistant Professor of Neurosurgery, Radiology, and Data Science NYU Langone Health New York, New York

Ian Paddick

Consultant Physicist
President of the BRSS
Chair of the ISRS Certification Committee
ISRS Fabrikant Award winner
Honorary Research Fellow at UCL
United Kingdom

Joshua Palmer, M.D.

Associate Professor James Cancer Hospital Ohio State University Columbus, Ohio

David Peereboom, M.D.

Director of Clinical Research, Burkhardt Brain Tumor and Neuro-oncology Center Cleveland Clinic, Cleveland, Ohio

Jennifer Peterson, M.D.

Associate Professor of Radiation Oncology Mayo Clinic Jacksonville, Florida

Stefan Rykowski

Vice President, Registries and Data Science American Association of Neurological Surgeons (AANS) Rolling Meadows, Illinois

David Schlesinger, Ph.D., MBA

Associate Professor of Radiation Oncology University of Virginia Charlottesville, Virginia

Michael Schulder, M.D.

Director, Brain Tumor Center Northwell-LIJ Health System New Hyde Park, New York

Herwin Speckter, MSc

Research & Quality Director Centro Gamma Knife Dominicano Santo Domingo, Dominican Republic

Robert Starke, M.D.

Associate Professor of Clinical Neurosurgery, Neuroradiology and Neurosciences University of Miami Miami, Florida

Pallavi Tiwari, Ph.D.

Associate Professor Department of Radiology University of Wisconsin School of Medicine and Public Health Madison, Wisconsin

Ranjini Tolakanahalli, Ph.D.

Director of Physics-Photon Miami Cancer Institute Miami, Florida

Manjul Tripathi, M.D.

Associate Professor Post-graduate Institute of Medical Education and Research Chandigarh, India

Ronald Warnick, M.D.

Co-director, Jewish Hospital Gamma Knife Center Mayfield Brain and Spine Cincinnati, Ohio

Brian Williams, M.D.

Associate Professor, Department of Neurosurgery University of Louisville Louisville, Kentucky

Wade Huai-Che Yang, M.D.

Taipei Veterans General Hospital New Taipei, Taiwan

SCHEDULE

IRRF Meeting

October 27-29, 2023

Friday, October	27	
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1:00-4:00	Elekta User Session at Miami Cancer Institute
5:00-7:30	Welcome Reception / Open House at the Ritz-Carlton – Isabelle's Restaurant & Garden Terrace
7:30-9:30	IRRF Board Meeting/Dinner at the Ritz-Carlton – Vivaldi/Puccini Rooms

Saturday, October 28 – IRRF Scientific Meeting Day 1 – Ritz-Carlton Ballroom

7:30 a.m. Welcome and Introductions

Manmeet Ahluwalia, M.D., MBA and Jason Sheehan, M.D.

Session I - Brain Metastasis Tumors I

Moderators: Matthew Shepard, M.D. and Veronica Chiang, M.D.

7:40 a.m.	Optimal Dose Planning for Brain Metastases Control - David Schlesinger, Ph.D., MBA
7:55 a.m.	Immunotherapy and SRS - David Peereboom, M.D.
8:10 a.m.	Targeted Therapy for Brain Metastases and SRS - Manmeet Ahluwalia, M.D., MBA
8:25 a.m.	Complementary Therapies to SRS (Review of LITT, Intraoperative Radiotherapy, FUS)
	Christopher Cifarelli, M.D.
8:40 a.m.	Medical and Surgical Management of Radiation Necrosis (Surgery, Steroids, Avastin, LITT)
	Brian Williams, M.D.
8:55 a.m.	Management of Recurrent Brain Metastases (Repeat SRS, LITT, Surgery, Gamma-Tile)

Veronica Chiang, M.D. 9:10 a.m. Questions and Answers

9:30 a.m. Break

Session II - Primary Brain Tumors

Moderators: Daniel Trifiletti, M.D. and Alonso Gutierrez, Ph.D.

9:45 a.m.	When Enough is Enough: Leaving Residual Meningioma or Vestibular Schwannoma at Surgery
	Joao Paulo Cavalcante de Almeida

10:00 a.m. Predicting and Treating Post-SRS Edema in Meningioma - Sam Chao, M.D.

10:15 a.m. Managing Grade 2-3 Meningioma - Matt Shepard, M.D.

10:30 a.m. Timing of SRS in VS - David Mathieu, M.D.

10:45 a.m. NF2 VS and SRS - Greg Bowden, M.D.

11:00 a.m. SRS in Recurrent HGG - Ajay Niranjan, M.D., MBA

10:15 a.m. LITT for HGG- Gene Barnett, M.D.

11:30 a.m. Emerging Strategies for Gliomas - John Suh, M.D.

11:45 a.m. Keynote Introduction

11:50 a.m. Keynote Lecture: The Meningioma Project - L. Dade Lunsford, M.D.

12:15 p.m. Lunch Session: Disparate Fields That Will Impact Stereotactic Radiosurgery

Moderator: Minesh Mehta, M.D.

Radiomics in Brain Tumors: Past Present and Future - Pallavi Tiwari, M.D.

Artificial Intelligence and Potential Applications in Radiosurgery - Eric Oermann, M.D.

Big Data and Registries: How to Improve Quality and Clinical Practice - Stefan Rykowski, M.D.

Session III - Big Data and Clinical Trials

Moderators: Christopher Cifarelli, M.D. and Manmeet Ahluwalia, M.D., MBA

1:15 p.m.	Imaging Artificial Intelligence/Machine Learning in Prediction of Response Following SRS
	Herwin Speckter, MSc
1.20 n m	Use of Registries in Assessing Clinical Efficacy of SRS Jason Shookan M.D.

1:30 p.m. Use of Registries in Assessing Clinical Efficacy of SRS - Jason Sheehan, M.D.

1:45 p.m. Clinical Trials - Manmeet Ahluwalia, M.D., MBA
2:00 p.m. Radiomics and Radiosurgery - Justin C.C. Lee, M.D.
2:15 p.m. Al for Radiation Planning - Jennifer Peterson, M.D.

2:30 p.m. Automated Radiosurgery Planning: Fact or Fiction? - Alonso N. Gutierrez, Ph.D.

2:45 p.m. *Break*

Session IV - Brain Metastasis Tumors II

Moderators: Rupesh Kotecha, M.D. and John Suh, M.D.

- 3:15 p.m. Physics of Radiosurgery and Brachytherapy Ranjini Tolakanahalli, Ph. D.
- 3:30 p.m. Fractionated SRS Eric Lehrer, M.D.
- 3:45 p.m. Staged/Adaptive SRS Rupesh Kotecha, M.D.
- 4:00 p.m. Resection and Post-operative WBRT Jonathan Knisely, M.D.
- 4:15 p.m. Variations of Biological Effective Dose in SRS— Where Next? Ian Paddick
- 4:30 p.m. Resection and Post-operative SRS Joshua Palmer, M.D.4:45 p.m. Pre-operative SRS and Resection Daniel Trifiletti, M.D.
- 5:00 p.m. Panel Discussion
- 5:15 p.m. **Keynote Introduction**
- 5:20 p.m. Keynote Presentation with Gene Barnett Radiosurgery in the Time of a Pandemic
- 5:45 p.m. Adjourn
- 7:00 p.m. Conference Reception

Mr. C, 2988 McFarlane Road in Miami

Sunday, October 29 – IRRF Scientific Meeting Day 2 – Ritz-Carlton Ballroom

Session V - Vascular Indications

Moderators: Ajay Niranjan, M.D. and Dale Ding, M.D.

- 7:00 a.m. Taming a Lion: Multisession Gamma Knife Neurosurgery for Complex AVM Manjul Tripathi, M.D.
- 7:15 a.m. GK Treatment for Dural Arteriovenous Fistula: Pitfall & Recent Advance Wade Huai-Che Yang, M.D.
- 7:30 a.m. Physics of Staged SRS Carlos Carbini, M.S.
- 7:45 a.m. Role of Embolization Before SRS Jared Chen, M.D.
- 8:00 a.m. Treatment Options and Approaches for Cavernomas: A Role for SRS? Doug Kondziolka, M.D.
- 8:15 a.m. Adverse Radiation Effects in Vascular SRS John Flickinger, M.D.
- 8:30 a.m. Indications for AVM Treatment Robert Starke, M.D.
- 8:45 a.m. Peri- and Intranidal Aneurysms Associated with AVMs Dale Ding, M.D.
- 9:00 a.m. Panel Discussion
- 9:15 a.m. *Break*

Session VI – Functional

Moderators: Eric Lehrer, M.D. and David Mathieu, M.D.

- 9:30 a.m. Relevance of BED vs. Physical Dose in GKRS for Trigeminal Neuralgia Ronald Warnick, M.D.
- 9:45 a.m. Tremor and SRS in the World of DBS and FUS Michael Schulder, M.D.
- 10:00 a.m. OCD and Gamma Knife Radiosurgery Roberto Martinez-Alvarez, M.D.
- 10:15 a.m. Radiosurgery for Pain Anthony Kaufmann, M.D.
- 10:30 a.m. Radiosurgery for Lesional Epilepsy L. Dade Lunsford, M.D.
- 10:45 a.m. Panel Discussion
- 11:15 a.m. Conference Wrap-Up Manmeet Ahluwalia, M.D. and Jason Sheehan, M.D.
- 11:30 a.m. *Meeting Adjourns*

ACCREDITATION AND CREDITS

ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Baptist Health South Florida and the International Radiosurgery Research Foundation. Baptist Health South Florida is accredited by the ACCME to provide continuing medical education for physicians.

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Stefan Rykowski, M.D.
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Michael Schulder, M.D. Jason Sheehan, M.D. Matthew Shepard, M.D. Manjul Tripathi, M.D. Ronald Warnick, M.D. Huai-Che Yang, M.D.

Manmeet Ahluwalia, M.D., faculty and planner of this educational activity, has received a grant from Seagen. He is a consultant Bayer, Novocure, Kiyatec, Insightec, GSK, Xoft, Nuvation, Cellularity, SDP Oncology, Apollomics, Prelude, Janssen, Tocagen, Voyager Therapeutics, Viewray, Caris Lifesciences, Pyramid Biosciences, Varian Medical Systems, Cairn Therapeutics, Anheart Therapeutics, Theraguix, Menarini Ricerche, Sumitomo Pharma Oncology, Autem therapeutics, and GT Medical Technologies. He is a member of the Scientific Advisory Board for Cairn Therapeutics, Pyramid Biosciences, Modifi biosciences, and Bugworks. He has individual stocks/stock options with Mimivax, Cytodyn, MedInnovate Advisors LLC, Trisalus Lifesciences.

Gene Barnett, M.D., faculty of this educational activity is a consultant with Monteris Medical. He has indicated that the presentation or discussions will not include off-label or unapproved product usage.

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Rupesh Kotecha, M.D., faculty and planner for this educational activity, is a researcher for Medtronic, Blue Earth Diagnostics, Novocure, GT Medical Technologies, AstraZeneca, Exelixis, Viewray and Brainlab, consultant with Accuray, Elekta AB, Viewray, Novocure, Elsevier and Brainlab, on the speaker's bureau with Novovure. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

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Joshua Palmer, M.D., faculty of this educational activity is a researcher for Genentech, he is a consultant for Huron and MORE Health, he is an advisor for Novocure and on the speaker's bureau for Varian Medical Systems and DePuy Synthes. He is a pediatric brain tumor panel member. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

David Peereboom, M.D., faculty of this educational activity is a researcher for Apollomics, Bayer, Bristol-Myers Squibb, GCAR, Genentech/Roche, Karyopharm Therapeutics, Mimivax, Novartis, Novocure, Ono Pharmaceuticlas, Orbus, Pfizer, Pharmacyclics, Stemline Therapeutics and Vigeo. He is a consultant for Novocure and Orbus. He is an advisor for IN8bio. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

David Schlesinger, Ph.D., faculty of this educational activity is an independent contractor (including contracted research) with Abbvie Inc. and Focused Ultrasound Foundation. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

Herwin Speckter, M.D., faculty of this educational activity, is an employee of CEDIMAT, Domionican Gamma Knife Center, Santo Domingo, Dominican Republic. He is a researcher with INTEC University, Santo Domingo, Dominican Republic. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

Robert Starke, M.D., faculty of this educational activity is a consultant and has teaching agreements with Penumbra, Abbott, Medtronic, Balt, InNeuroCo, Cerenovus, Naglreiter, Tonbridge, Von Medical and Optimize Vascular. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

John Suh, M.D., faculty of this educational activity is a consultant with Novocure, Philips, Neutron Therapeutics and EmpNia. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

Ranjini Tolakanahalli, Ph.D., faculty of this education activity has individual stocks/stock options with Siemens Healthineers. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

Daniel Trifiletti, M.D., faculty of this educational activity is a researcher with Varian Medical and a consultant with Boston Scientific. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

Brian Williams, M.D., faculty of this educational activity is a consultant for Monteris Medical and Novocure. He has indicated that the presentation or discussion will not include off-label or unapproved product usage.

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*Ineligible companies - Companies whose primary business is producing, marketing, selling, re-selling or distributing healthcare products used by or on patients.

Available Credit

• 13.75 General certificate of attendance



Learning Objectives

Upon completion of this symposium, participants should be better able to:

- Discuss radiosurgery in the overall context of options for the treatment of patients withbenign intracranial tumors.
- Discuss radiosurgery in the overall context of options for the treatment of patients with metastatic tumors.
- Discuss radiosurgery in the care of vascular malformations and functional disorders.
- Describe the radiobiological implications of different radiosurgical technologies.

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