# 2025 MIDWEST RADIATION ONCOLOGY SYMPOSIUM



## Friday, Aug. 22

#### All times listed are in US Central Daylight Time (CDT)

7:00 a.m.	Registration / Continental Breakfast / Exhibits	
7:30 a.m.	Department Chair Welcome and Introductory Remarks Charles A. Enke, MD, FASTRO, FACR	
7:45 a.m.	<b>KEYNOTE PRESENTATION:</b> Radiation Treatment for Vestibular Schwannomas Eric J. Lehrer, MD	
Session 1: Moderator: Ch	Central Nervous System (CNS) Benign Diseases ii (Kevin) Zhang, MD, PhD	
8:35 a.m.	Neurosurgical Prospective of Brain Arteriovenous Malformations William E. Thorell, MD	
8:55 a.m.	Surgical Aspects of Trigeminal Neuralgia from Non-Destructive to Destructive Procedures Josue M. Avecillas-Chasin, MD, PhD	
9:15 a.m.	Roles of Radiation Therapy in Pituitary Adenoma Chi (Kevin) Zhang, MD, PhD	
9:35 a.m.	Incidence and Survival Outcomes of Multicentric High-Grade Glioma in Rural Midwestern Cancer Patients Lisa Chaiken, MD	
9:55 a.m.	Q & A	
10:10 a.m.	Break / Exhibits	
Session 2: Heterotopic Ossification and Arthritis Moderator: Andrew Wahl, MD		
10:25 a.m.	An Update on the Management of Osteoarthritis in 2025 Elizabeth Wellsandt, PT, DPT, PhD	
10:45 a.m.	Low-Dose Radiation Therapy for the Treatment of Recalcitrant Osteoarthritis: Current Evidence, Future Implications Joseph Carmichael, MD, PhD	
11:05 a.m.	Surgical Considerations for Heterotopic Ossification of Large Joints Kyuhak Oh, PhD	
11:25 a.m.	Radiation Therapy for Heterotopic Ossification Andrew Wahl, MD	
11:45 a.m.	Q & A	
12:00 p.m.	Lunch / Exhibits	

### **SYMPOSIUM FACULTY**

#### Symposium Director

Chi Lin, MD, PhD Professor and Vice Chair of Research, Department of Radiation Oncology, UNMC

#### **Keynote Speakers**

Eric J. Lehrer, MD Radiation Oncologist, Department of Radiation Oncology, Mayo Clinic, Rochester, MN

Ehsan Samei, PhD, DABR, FAAPM, FSPIE, FAIMBE, FIOMP, FACR Reed and Martha Rice Distinguished Professor of Radiology, Duke University; Chief Imaging Physicist, Duke University Health System, Durham, NC

#### **Guest Speakers**

Jeremy Brownstein, MD Associate Professor, Department of Radiation Oncology, The Ohio State University, Columbus, OH

Serdar Charyyev, PhD Clinical Assistant Professor, Division of Medical Physics, Department of Radiation Oncology, Stanford Medicine, Stanford, CA

James A. Glazier, PhD Professor, Intelligent Systems Engineering, Luddy School of Informatics, Computing, and Engineering, Indiana University, Bloomington, IN

Sam Hendley, PhD, DABR Medical Physicist, City of Hope Cancer Center, San Diego, CA

Minglei Kang, PhD, DABR Associate Professor, Department of Human Oncology, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI

Yang Lei, PhD Assistant Professor, Department of Radiation Oncology, Icahn School of Medicine at Mount Sinai, New York, NY

Liyong Lin, PhD, FAAPM, DABR Professor, Department of Radiation Oncology, Emory University School of Medicine, Atlanta, GA

Michael Prusator, PhD Assistant Professor, Department of Radiation Oncology, Washington University in St. Louis, St. Louis, MO

1:00 p.m.	Management of Ventricular Tachycardia and the Role of Radiotherapy John W. Schleifer, MD
1:20 p.m.	Implementation of a Cardiac Ablation Program Jeremy Brownstein, MD
1:40 p.m.	Linac in Cardiac Ablation Michael Prusator, PhD
2:00 p.m.	Surgical Considerations for Thymoma Erik E. Lewis, MD
2:20 p.m.	Radiotherapy in Thymoma Management Qateeb Khan, MD
2:40 p.m.	Q & A
2:55 p.m.	Break / Exhibits
<b>Session 4</b> Moderator: E	<b>: Gynecologic Brachytherapy</b> Breann Bowar, MD
3:10 p.m.	Surgical Considerations for Benign Gynecologic Tumors Lindsey A. McAlarnen, MD, MSc, FACOG
3:30 p.m.	Gynecologic Brachytherapy Breann Bowar, MD
3:50 p.m.	Improving the Patient Experience of Gynecologic Brachytherapy Through Patient Education Chase Jablon
4:10 p.m.	Q & A
	<b>: Head and Neck Tumors</b> Veining (Ken) Zhen, MD, FACR, FASTRO
4:20 p.m.	Transoral Robotic Surgery and Minimally Invasive Techniques in Oropharyngeal Cancer: Patient Selection and Outcomes Elizabeth Bradford Bell, MD
4:40 p.m.	Non-Surgical De-Escalation in Treating Human Papillomavirus—Driven Squamous Cell Carcinoma: Where Are We Now? Kurtis Johnson, MD
5:00 p.m.	Integrative Care: The Vital Role of Speech Therapist and Dietitians in Head and Neck Cancer Management Carol Gaebler, MS, CCC-SLP and Morgan Scheen, RDN, LMNT
5:20 p.m.	Optimizing Communication, Enhancing Efficiency, and Improving Nursing Care Rebecca Cobb, BSN and Mikayla Morrow, BSN
5:40 p.m.	Q & A

Jason Shen, PhD Associate Professor, Department of Radiation Oncology, Mayo Clinic, Phoenix, AZ

Robert Stewart, PhD Professor, Department of Radiation Oncology, University of Washington, Seattle, WA

Xiandong Zhao, PhD Assistant Professor, Department of Radiation Oncology, Washington University in St. Louis, St. Louis, MO

### Symposium Faculty – UNMC/ Nebraska Medicine

Josue M. Avecillas-Chasin, MD, PhD Assistant Professor, Department of Neurosurgery

Michael Baine, MD, PhD Associate Professor, Department of Radiation Oncology

Breann Bowar, MD Assistant Professor, Department of Radiation Oncology

Elizabeth Bradford Bell, MD Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Joseph Carmichael, MD, PhD Resident, Department of Radiation Oncology

Lisa Chaiken, MD Assistant Professor, Department of Radiation Oncology

Rao V. Chundury, MD, MBA Dr. Joseph J. Hompes Professor of Ophthalmology; Associate Professor, Department of Ophthalmology and Visual Sciences

Rebecca Cobb, BSN Lead Registered Nurse, Fred & Pamela Buffett Cancer Center, Nebraska Medicine

Charles A. Enke, MD, FASTRO, FACR Professor and Chair, Department of Radiation Oncology

Carol Gaebler, MS, CCC-SLP Speech Language Pathologist, Department of Speech-Language Pathology, Munroe-Meyer Institute

Kyle Gallagher, PhD, DABR Assistant Professor, Department of Radiation Oncology

Chase Jablon Medical Student

Kurtis Johnson, MD Resident, Department of Radiation Oncology

Qateeb Khan, MD Assistant Professor, Department of Radiation Oncology

Erik E. Lewis, MD Assistant Professor, Division of Cardiothoracic Surgery, Department of Surgery

### Saturday, Aug. 23

#### All times listed are in US Central Daylight Time (CDT)

7:00 a.m.	Registration / Continental Breakfast / Exhibits
7:30 a.m.	Introduction by the Director of Medical Physics Sumin Zhou, PhD
7:45 a.m.	<b>KEYNOTE PRESENTATION:</b> Digital Twin in Radiation Oncology Ehsan Samei, PhD, DABR, FAAPM, FSPIE, FAIMBE, FIOMP, FACR
	<b>: Digital Twin</b> uirui Liu, PhD, CHP, DABR
8:35 a.m.	Integrating Deformable Image Registration into Virtual Digital Twin for High Dose Rate (HDR) Prostate Brachytherapy <sub>Yang Lei, PhD</sub>
8:55 a.m.	Digital Twin in Radiation Biology Ruirui Liu, PhD, CHP, DABR
9:15 a.m.	Multicellular Simulation, Digital Twin James A. Glazier, PhD
9:35 a.m.	Opportunities and Challenges in the Clinical Applications of Multiscale Radiation Biology Modeling Robert Stewart, PhD
9:55 a.m.	Q & A
10:10 a.m.	Break / Exhibits
	: FLASH Therapy yle J. Gallagher, PhD, DABR
10:25 a.m.	Mevion Proton FLASH-Related Experience Xiandong Zhao, PhD
10:45 a.m.	Proton FLASH, Upright Proton System Minglei Kang, PhD, DABR
11:05 a.m.	Multi-Institutional Evaluation of Dosimetry Systems for Electron FLASH Therapy: Experience from the FlashForward Consortium (FCC) Quality Assurance and Dosimetry Management Working Group <sub>Kyuhak Oh, PhD</sub>
11:25 a.m.	Comparing the Response of Normal and Cancer Cells to FLASH and Conventional Radiation Ying Yan, PhD
11:45 a.m.	Q & A
11.40 u.m.	

Ruirui Liu, PhD, CHP, DABR Assistant Professor, Department of Radiation Oncology

Lindsay A. McAlarnen, MD, MSc, FACOG Assistant Professor, Division of Gynecologic Oncology, Department of Obstetrics and Gynecology

Mikayla Morrow, BSN Radiation Oncology Nurse, Nebraska Medicine

Kyuhak Oh, PhD Medical Physics Resident, Department of Radiation Oncology

Lauren A. O'Neil, MD Assistant Professor, Department of Ophthalmology and Visual Sciences

John W. Schleifer, MD Assistant Professor, Division of Cardiovascular Medicine, Department of Internal Medicine

Jared Schober, MD Assistant Professor, Division of Urologic Surgery, Department of Surgery

Morgan Sheen, RDN, LMNT Registered Dietitian, Department of Clinical Nutrition, Nebraska Medicine

Benjamin A. Teply, MD Associate Professor, Division of Oncology and Hematology, Department of Internal Medicine

William E. Thorell, MD Professor, Department of Neurosurgery

Andrew Wahl, MD Associate Professor, Department of Radiation Oncology

Shuo Wang, PhD Associate Professor, Department of Radiation Oncology

Elizabeth Wellsandt, PT, DPT, PhD Associate Professor, Department of Health and Rehabilitation Sciences, College of Allied Health Professions

Ying Yan, PhD Professor, Department of Radiation Oncology

Chi (Kevin) Zhang, MD, PhD Associate Professor, Department of Radiation Oncology

Weining (Ken) Zhen, MD, FACR, FASTRO Professor, Department of Radiation Oncology

Sumin Zhou, PhD Professor and Director of Medical Physics, Department of Radiation Oncology

1:00 p.m.	Implementing Proton Stereotactic Radiosurgery (SRS) Technique with Pencil Beam Scanning and Brass Aperture to Minimize Integrated Dose for Benign Brain Tumors Jason Shen. PhD
1:20 p.m.	Toward Acceptance and Commissioning of the First Ultra-Compact Upright Proton Therapy System: Mevion S250-FIT Serdar Charyyev, PhD
1:40 p.m.	Proton Therapy Workflow Liyong Lin, PhD, FAAPM, DABR
2:00 p.m.	Good Vibrations: Focused Ultrasound in the Realm of Benign Disease Sam Hendley, PhD, DABR
2:20 p.m.	Q & A
2:35 p.m.	Break / Exhibits
	<b>): Orbital Diseases</b> Charles A. Enke, MD, FASTRO, FACR
2:50 p.m.	The Role of Orbital Radiation Therapy for Thyroid Eye Disease Charles A. Enke, MD, FASTRO, FACR
3:10 p.m.	From Steroids to Biologics: Evolving Strategies in Thyroid Eye Disease Management Rao V. Churdury, MD, MBA
3:30 p.m.	The Surgical Management of Thyroid Eye Disease Lauren A. O'Neil, MD
3:50 p.m.	Q & A
	0: Prostate Cancer Aichael Baine, MD, PhD
4:00 p.m.	Focal Therapy in Prostate Cancer: Emerging Options for Tumor Ablation Jared Schober, MD
4:20 p.m.	Cutting-Edge Radiation Therapy in Prostate Cancer: Protons and FLASH Michael Baine, MD, PhD
4:40 p.m.	The Role of Radiopharmaceuticals in the Treatment of Advanced Prostate Cancer Benjamin A. Teply, MD
5:00 p.m.	Q & A
5:10 p.m.	Closing Comments by the Department Vice Chair of Research Chi Lin, MD, PhD
5:15 p.m.	Adjourn

## Symposium Planning Committee

Michael Baine, MD, PhD
Dinah Clark
Valeta Creason-Wahl, MMP
Missy Edwards
Charles A. Enke, MD, FACR, FASTRO
Kyle Gallagher, PhD, DABR
Julie Huglin
Heidi Keeler, PhD, MSN/MBA, RN
Chi Lin, MD, PhD
Renee Paulin, MSN, RN, CWOCN
Charlene Rhodd, CMD, RT, (R)(T) (CT) (ARRT)
Brenda Ram, CMP, CHCP
Hongmei Ren, BSN
Chi (Kevin) Zhang, MD, PhD