

12th Annual Multimodal Treatment of Spinal Tumors Saturday, May 21, 2022 at the Seattle Science Foundation

AGENDA

<i>i</i> a.m. Registration & Breakfast	Registration & Brea	akfast
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7:30 a.m.	Welcome and Course Introduction
	Jens R. Chapman, M.D., Rod J. Oskouian, Jr., M.D., and Ehud Mendel, M.D., M.B.A.
SESSION 1.	METASTATIC TUMORS

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7:35 a.m.	Surgical Management of Spinal Metastasis (virtual)
	Ilya Laufer, M.D.
	Objectives:
	Identify indications for surgery and stereotactic body radiotherapy

Outline surgical options for treatment of spinal metastases •

7:55 a.m. Q&A

8 a.m.	 Live Demonstration Broadcast from BioSkills Lab No. 1 Percutaneous Spinal Fixation with Fenestrated Screws with Cement Rod J. Oskouian, Jr., M.D. & Jared Cook, D.O. Objectives: Summarize how to increase pull-out strength of screw with cement Outline potential complications of hardware failure Discuss increasing fixation options for tumor reconstruction
8:45 a.m.	 Myelopathy and An Unknown Primary: Do You Need A Diagnosis to Treat? (virtual) Mark H. Bilsky , M.D. Objectives: Summarize the rationale for urgent surgical decompression in patients with myelopathy or cauda equina syndrome in the setting of an unknown primary Describe the rationale for urgent surgery even for radio/chemosensitive tumors such as myeloma and lymphoma Outline the rationale for urgent surgery even for primary bone tumors
9:05 a.m.	Q&A
9:10 a.m.	 What's New in Radiosurgery for Spine Tumors? (virtual) Yoshiya (Josh) Yamada, M.D. Objectives: Describe the outcomes of spine radiosurgery for chordomas Outline the rationale for spine radiosurgery for back pain Explain the radiosurgery for spine metastases from prospective trials
9:30 a.m.	Q&A
9:35 a.m.	Break & Exhibits (not for CME credit)

9:45 a.m.	 Radiosurgical Management of Spinal Metastasis (virtual) Yi An, M.D. Objectives: Define the role of the radiation oncologist in specialty care coordination for patients with spinal metastasis Describe the approach to determination of primary cancer in spinal metastasis patients Outline the concepts of targeted medical therapy of spinal metastasis 	
10:05 a.m.	Q&A	
10:10 a.m.	 Vertebroplasty/Kyphoplasty/Ablation Indications for Patients with Spine Tumors Amir Abdul-Jabbar, M.D. Objectives: Describe the indications for spine radiosurgery vs. conventional radiation treatments Outline the side effects of radiation and how they affect our patients 	
10:25 a.m.	Q&A	
10:30 a.m.	 Live Demonstration Broadcast from BioSkills Lab No. 2 Ablation for Spinal Tumors (Kyphoplasty vs. Vertebroplasty) Glen David, M.D. & Yevgeniy Freyvert, M.D. Objectives: Compare and contrast when one should perform a vertebroplasty or a kyphoplasty Outline the different types of cement to be used in both a kyphoplasty and vertebroplasty 	
SESSION 2: PRIMARY BONE TUMORS		
11 a.m.	 Surgical Management of Primary Malignant Bone Tumors (virtual) Laurence D. Rhines, M.D. Objectives: Recognize the difference in management between metastatic and primary tumors of the spine Describe the role of en bloc resection in the management of primary bone tumors 	
11:20 a.m.	Q&A	
11:25 a.m.	 Interdisciplinary Considerations in Multimodal Spinal Tumor Treatment Alekos Theologis, M.D. & Steve Braunstein, M.D., Ph.D. Objectives: Describe the UCSF multidisciplinary therapy concept for spinal tumors and metastasis 	

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 11:40 a.m. Q&A

11:45 a.m. Surgical Management of Lumbosacral Primary Bone Tumors (virtual) Ehud Mendel, M.D., M.B.A. Objectives:

- Jujectives.
- Identify current diagnosis and treatment of sacral tumors
- Illustrate indications for operative & non-operative treatment of primary sacral tumors

Outline the dosimetric impact of implant material (Carbon/PEEK vs. Titanium)
Explain how surgeon decisions can unlock radiotherapeutic therapy options

- 12:05 p.m. Q&A
- 12:10 p.m. Break, Exhibits & Pick-up Lunch (not for CME credit)

12:20 p.m.	 Live Demonstration Broadcast from BioSkills Lab No. 3 (working lunch) Spinal Reconstruction with Radiolucent, Artifact Reducing Carbon/PEEK Implants Alekos Theologis, M.D. & Nathan Pratt, M.D. Objectives: Outline intraoperative handling of Carbon/PEEK implants Describe considerations of material choice and implant positioning for adjuvant radiation therapy List the MIS and open stabilization techniques for spinal tumors and metastasis
SESSION 3: O	THER TOPICS
12:50 p.m.	 Surgeon as CEO: Complication Avoidance in Spine Tumor Surgery (virtual) Maxwell Laurans M.D., M.B.A. Objectives: Appreciate that a detailed surgical plan is critical to avoiding complications Describe how an interdisciplinary approach can minimize additional risks Summarize how relying on pattern and processes effectively minimizes unintended errors
1:10 p.m.	Q&A
1:15p.m. 1:35 p.m.	 How to Determine Stability in Spinal Tumors? (virtual) Daniel Sciubba, M.D., M.B.A. Objectives: Identify factors associated with spinal instability from tumors Share case examples of instability Integrate principles of tumor instability into practice Q&A
1:40 p.m.	 Live Demonstration Broadcast from BioSkills Lab No. 4 Novel Approaches for the Treatment of Spine Fractures Rod J. Oskouian, Jr., M.D. & Jerry Robinson, M.D. Objectives: Outline the height restoration technique Compare the bilateral vs. unilateral approach Compare & contrast the following techniques: kyphoplasty; vertebroplasty; Intervertebral fraction reduction and fixation
2:10 p.m.	 Deformity Correction in the Set-Up of Spine Tumors (virtual) Luis Kolb, M.D. Objectives: Identify common spinal deformities associated with tumor Outline treatment strategies for spinal tumors
2:30 p.m.	Q&A
2:35 p.m.	Break & Exhibits (not for CME credit)

2:45 p.m.	 Live Demonstration Broadcast from BioSkills Lab No. 5 Laminectomy Techniques and Principles with Multi-Rod Constructs in Spinal Reconstruction Jens R. Chapman, M.D. & Zac Tataryn, M.D. Objectives: Describe techniques to effectively decompress posterior thoracolumbar spine Outline the indications for mutli rod constructs Describe strategies to effectively create mutli rod constructs
3:30 p.m.	 Augmented Reality for Spine Tumor Resection (virtual) John E. Shin, M.D. Objectives: Recognize the challenges of arthrodesis and reconstruction after resection of primary spinal tumors Evaluate the feasibility and applicability of augmented reality in spine tumor surgery. Highlight the advantages of augmented reality-based computer navigation in surgery planning and execution
3:50 p.m.	Q&A
3:55 p.m.	 Spinal Cord Tumors: Surgery for Intradural Tumors (virtual) Ian E. McCutcheon, M.D. Objectives: Outline surgical techniques for removal of spinal cord tumors Explain the steps in diagnosing spinal cord tumors Summarize the surgical anatomy of the spinal cord
4:15 p.m.	Q&A
4:20 p.m.	 Spine Tumors Case Presentations (virtual) Michael Galgano, M.D. Objectives: Describe the differential diagnosis of both vertebral column and intradural spinal tumors Appreciate the technical nuances in the surgical management of spinal tumors
4:40 p.m.	Q&A
4:45 p.m.	Course Wrap Up
4:50 p.m.	Adjourn
Su Agenda Spine Tumors 2022 V15.docx	rgical Demonstrations Supported by Swedish Neuroscience Institute Spine Fellows Jared Cook, D.O., Yevgeniy Freyvert, M.D., Nathan Pratt, M.D., Jerry Robinson, M.D., & Zac Tataryn, M.D

DISTINGUISHED FACULTY

Jens R. Chapman, M.D. Course Co-Chair Complex Spine Surgeon Swedish Neuroscience Institute Seattle, Washington Ehud Mendel, M.D., M.B.A., FACS (virtual) Course Co-Chair Executive Vice-Chair & Professor, Neurosurgery Director of Spine & Spine Oncology Program Yale School of Medicine & Simlow Cancer Hospital New Haven, Connecticut

Rod J. Oskouian, Jr., M.D.

Course Co-Chair Chief of Spine Director, Spine Fellowship Program Swedish Neuroscience Institute Seattle, Washington

Amir Abdul-Jabbar, M.D.

Orthopaedic Surgeon Swedish Neuroscience Institute Seattle, Washington

Mark H. Bilsky, M.D. (virtual)

William E. Snee Endowed Chair Vice Chairman of Clinical Affairs, Neurosurgery Memorial Sloan Kettering Cancer Center New York, New York

Glen David, M.D.

Interventional Pain Specialist Swedish Neuroscience Institute Seattle, Washington

Luis Kolb, M.D. (virtual) Neurosurgeon Yale School of Medicine New Haven, Connecticut

Ilya Laufer, M.D. (virtual)

Director, Spine Tumor Program NYU Langone New York, New York

Laurence D. Rhines, M.D. (virtual)

Professor and Director Spine Tumor Program MD Anderson Cancer Center Houston, Texas

John E. Shin, M.D. (virtual)

Kingdon-Saylor Family Endowed Chair in Spine Neurosurgery Director, Spine Oncology & Spinal Deformity Surgery Mass General Neurosurgery | Harvard Medical School Boston, Massachusetts

Yoshiya (Josh) Yamada, M.D. (virtual)

Co-Chief, Multi-Disciplinary Spine Tumor Svc Memorial Sloan Kettering Cancer Center New York, New York

Yi An, M.D. (virtual) Assistant Professor. Radiation Oncology

Chief, Spine & Genitourinary Radiotherapy Program Yale School of Medicine New Haven, Connecticut

> Steve Braunstein, M.D., Ph.D. (virtual) Radiation Oncologist

University of California San Francisco San Francisco, California

Michael Galgano, M.D. (virtual)

Spinal Oncology & Deformity Surgery Assistant Professor of Neurosurgery University of North Carolina Chapel Hill, North Carolina

Maxwell Laurans, M.D., M.B.A. (virtual)

Assistant Professor of Neurosurgery Vice President, Surgical Services Yale School of Medicine New Haven, Connecticut

Ian E. McCutcheon, M.D. (virtual)

Professor of Neurosurgery MD Anderson Cancer Center Houston, Texas

Daniel Sciubba, M.D. (virtual)

Professor & Chair, Northwell Dept. of Neurosurgery Professor, Johns Hopkins University School of Medicine Baltimore, Maryland

Alekos Theologis, M.D.

Assistant Professor, Spine University of California San Francisco San Francisco, California