

12th Annual Multimodal Treatment of Spinal Tumors

Saturday, May 21, 2022

at the Seattle Science Foundation

AGENDA

7 a.m. Registration & Breakfast

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

7:35 a.m. Surgical Management of Spinal Metastasis *(virtual)*

Ilya Laufer, M.D.

Objectives:

- TBD

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.

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. The Management of Acute Symptomatic Spinal Compression from Unknown Primary: Emergency Surgery or Biopsy and Wait? *(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)*

Yoshida (Josh) Yamada, M.D.

Objectives:

- TBD

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.
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. Surgical Management of Lumbosacral Primary Bone Tumors (virtual)**
Ehud Mendel, M.D., M.B.A.
Objectives:
- TBD

11:45 a.m. Q&A

11:50 a.m. Break, Exhibits & Pick-up Lunch (not for CME credit)

- 12 p.m. Live Demonstration Broadcast from BioSkills Lab No. 3 (working lunch)**
Transpedicular En-Block Thoracic Vertebrectomy
TBD
Objectives:
- Describe surgical resection of sacrum
 - Outline how to manage wound complications
 - Outline how to reconstruct the sacral pelvic junction

SESSION 3: OTHER TOPICS

- 12:45 p.m. Surgeon as CEO of the Operating Room: 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
- 1:05 p.m. Q&A**
- 1:10p.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
- 1:30 p.m. Q&A**
- 1:35 p.m. Deformity Correction in the Set-Up of Spine Tumors (virtual)**
Luis Kolb, M.D.
Objectives:
- TBD
- 1:55 p.m. Q&A**
- 2 p.m. Break & Exhibits (not for CME credit)**

2:10 p.m. [Live Demonstration Broadcast from BioSkills Lab No. 4](#)
Laminectomy Techniques and Principles with Multi-Rod Constructs in Spinal Reconstruction
Jens R. Chapman, M.D.
Objectives:

- TBD

- 2:55 p.m. New Technologies in Spine Tumor Surgery (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
- 3:15 p.m. Q&A**
- 3:20 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
- 3:40 p.m. Q&A**

3:45 p.m. Spine Tumor Surgery Fusion Options

Robert Hart, M.D.

Objectives:

- TBD

4:05 p.m. Q&A

4:10 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. Adjourn

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

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

Radiation Oncologist
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Surgical Demonstrations Supported by Swedish Neuroscience Institute Spine Fellows