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

1:10 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

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)*  
*Micahel 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
Yale School of Medicine & Simlow Cancer Hospital
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Course Co-Chair
Executive Vice-Chair & Professor, Neurosurgery
Director of Spine & Spine Oncology Program
Yale School of Medicine & Simlow Cancer Hospital
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Yi An, M.D. (virtual)
Assistant Professor, Radiation Oncology
Chief, Spine & Genitourinary Radiotherapy Program
Yale School of Medicine
New Haven, Connecticut

Glen David, M.D.
Interventional Pain Specialist
Swedish Neuroscience Institute
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Robert Hart, M.D.
Orthopaedic Surgeon
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Surgical Demonstrations Supported by Swedish Neuroscience Institute Spine Fellows