



15th Annual Multimodal Treatment of Spinal Tumors Hybrid Course

Saturday, March 15, 2025

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 Oskouian, M.D. & Ehud Mendel, M.D., M.B.A.

SESSION 1: METASTATIC TUMORS

Moderated by: Ehud Mendel, M.D., M.B.A.

7:35 a.m. Surgical & Non-Surgical Options for Patients with Spinal Metastases

Ehud Mendel, M.D., M.B.A.

Objectives:

- Identify the thought process for surgical vs. nonsurgical options for patients with spinal metastases
- Outline surgical options for treatment of spinal metastases

7:50 a.m. [Live Demonstration Broadcast from BioSkills Lab No. 1](#)

Posterior Cervical Screw Fixation

Amir Abdul-Jabbar, M.D.

Objectives:

- Illustrate the surgical technique
- Identify complications and mitigation strategies

8:30 a.m. Building a Spinal Radiosurgery Program & Radio surgical Management of Spinal Metastasis

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

8:55 a.m. Complications Avoidance & Management in Patients with Spine Tumors

Professor Dr. Bernhard Meyer

Objectives:

- Comprehend the spectrum of complications
- Evaluate strategies for complication avoidance and management

9:10 a.m. Surgical Management of Spine Metastases with Carbon Fiber Implants

Miki Katzir, M.D.

Objectives:

- Describe the use of screw-rod systems and distractible cages in the treatment of primary and secondary spine tumors
- Explain the limitations of carbon fiber implants

9:25 a.m. Survivorship Prediction in Metastatic Spine Disease: Translation to Clinical Practice

Michael Galgano, M.D.

Objectives:

- Demonstrate how survivorship predictions can guide treatment options
- Explain the key factors influencing survivorship in metastatic spine disease
- Discuss advancements in predictive analytics

9:40 a.m. Break & Exhibits *(not for CME credit)*

9:55 a.m. [Live Demonstration Broadcast from BioSkills Lab No. 2](#)

Cement Augmentation and Ablation for Spinal Tumors (Kyphoplasty vs. Vertebroplasty)

Ehud Mendel, M.D., M.B.A.

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

10:30 a.m. SINS (Spinal Instability Neoplastic Score) 2024

Wende Gibbs, M.D.

Objectives:

- Describe the diagnosis and triage process for SINS
- Outline how to communicate and report SINS
- Highlight important aspects of treatment planning based on SINS

10:45 a.m. Session 1 Q&A

SESSION 2: PRIMARY BONE TUMORS

Moderated by: Ehud Mendel, M.D., M.B.A.

11 a.m. Strategies for Primary Tumors: 'One Trick Pony' En Bloc vs. Rational Integration of Effective Radiation

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

11:15 a.m. Primary Spinal Column Tumors

Ziya Gokaslan, 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

11:30 a.m. Break & Pick Up Lunch (not for CME credit)

11:45 a.m. Live Demonstration Broadcast from BioSkills Lab No. 3 Complex Spinal Tumor Reconstruction Using Quad Rod Constructs with Carbon/Peek Screws and Parallel Connectors

Neel Patel, M.D.

Objectives:

- Demonstrate surgical techniques for spinal tumor resection and reconstruction
- Evaluate implant and grafting options for spinal stability post tumor resection

SESSION 3: OTHER TOPICS

Moderated by: Jens R. Chapman, M.D.

12:25 p.m. Minimally Invasive Spine Surgery in Patients with Spine Tumors

Rod Oskouian, MD

Objectives:

- Master the principles and techniques of minimally invasive spine surgery (MISS)
- Integrate multidisciplinary approaches for optimal patient care

12:40 p.m. Deformity Correction in the Set-Up of Spine Tumors

Luis Kolb, M.D.

Objectives:

- Identify common spinal deformities associated with tumor
- Outline treatment strategies for spinal tumors

12:55 p.m. Surgery for Intradural Spine Tumors

Paul C. McCormick, M.D.

Objectives:

- Outline surgical techniques for removal of spinal cord tumors
- Explain the steps in diagnosing spinal cord tumors
- Describe the surgical anatomy of the spinal cord

1:05 p.m. Break & Exhibits *(not for CME credit)*

**1:15 p.m. [Live Demonstration Broadcast from BioSkills Lab No. 4](#)
[Laminectomy Techniques and Principles with Multi-Rod Constructs in Spinal Reconstruction](#)**

Jens Chapman, M.D.

Objectives:

- Describe techniques to effectively decompress posterior thoracolumbar spine
- Outline the indications for multi-rod constructs
- Describe strategies to effectively create multi-rod constructs

1:55 p.m. Role of PMMA in Oncologic Vertebral Body Reconstruction

Neel Patel, M.D.

Objectives:

- Explain the mechanisms and benefits
- Assess clinical application and outcomes

2:10 p.m. Session 3 Q&A

2:30 p.m. Break & Exhibits *(not for CME credit)*

**2:45 p.m. [Live Demonstration Broadcast from BioSkills Lab No. 5](#)
[Percutaneous Spinal Fixation with Fenestrated Screws with Cement](#)**

Anu Amin, 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

3:25 p.m. Interactive Roundtable Case Presentations

All Faculty

Moderators: Anu Amin, M.D., Amir Abdul-Jabbar, M.D., Rod Oskouian, M.D., Jens R. Chapman, M.D., & Ehud Mendel, M.D., M.B.A.

Objectives:

- Describe the multi-disciplinary therapy concept for spinal tumors and metastases
- Outline the diametric impact of implant material (Carbon/PEEK vs. Titanium)
- Explain how material choice impacts radiotherapy options and treatment safety

3:55 p.m. Break & Exhibits *(not for cme credit)*

4:25 p.m. Leveraging Carbon Fiber Implants in Spinal Oncology *(not for cme credit)*

Christopher Alvarez-Breckenridge, M.D., Ph.D.

Objectives:

- Describe the role of carbon fiber implants in Spinal Oncology
- Identify clinical applications and outcomes of carbon fiber implants in Spinal Tumor Management

4:45 p.m. Course Wrap Up

4:55 p.m. Adjourn

DISTINGUISHED FACULTY

Jens R. Chapman, M.D.

Course Co-Chair

Complex Spine Surgeon
Swedish Neuroscience Institute
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Ehud Mendel, M.D., MBA, FACS

Course Co-Chair

Nixdorff-German Professor of Neurosurgery
Executive Vice-Chair & Professor, Neurosurgery
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