



14th Annual Multimodal Treatment of Spinal Tumors Hybrid Course

Saturday, March 16, 2024

at the Seattle Science Foundation

AGENDA

7 a.m. Registration & Breakfast

7:30 a.m. Welcome and Course Introduction

Jens R. Chapman, M.D. and 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
Lumbar MIS Pedicle 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: A Spine Surgeon's Perspective

Michael Galgano, M.D.

Objectives:

- Identify the many scoring algorithms that exist for survivorship prediction
- Explain how many scoring systems are becoming obsolete with evolving systemic therapies
- Describe the shift towards examining body composition metrics to predict survival more accurately

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)

Amir Abdul-Jabbar, 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

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. - check title

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](#) Corpectomy, Cervical Cage Reconstruction with Carbon Fiber

Jens Chapman, 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: 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. New Technologies in Spine Tumor Surgery - Navigation & Robotics

Ori Barzilai, M.D.

Objectives:

- Evaluate the role of navigation and robotics in spine tumor surgery
- Implement navigation and robotics techniques

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. – come up with cases to show

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. Course Wrap-Up

4 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

Course Co-Chair

Nixdorff-German Professor of Neurosurgery
Executive Vice-Chair & Professor, Neurosurgery
Director of Spine & Spine Oncology Program
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Professor, Dr. Bernhard Meyer

Professor of Neurosurgery
TUM School of Medicine
Munich, Germany

Paul C. McCormick, M.D.

Herbert & Linda Gallen Professor of Neurological Surgery
Spine Center Director
Columbia University Irving Medical Center
New York City, New York

Surgical Demonstrations Supported by Swedish Neuroscience Institute Spine Fellows

Bryan Anderson, D.O., Donald Davis III, M.D., Neel Patel, M.D.