8th Joint MSK/HSS/IOR Course in
Musculoskeletal Tumor Pathology & Clinical Oncology
Thursday-Saturday, November 17-19, 2016

Conference Location:
Memorial Sloan Kettering Cancer Center
Zuckerman Research Center
417 East 68th Street
New York, NY 10065
Course Overview

This course is designed to give a current review of musculoskeletal tumor pathology to orthopaedic surgeons, radiation oncologists, medical oncologists, radiologists and pathologists.

This course will cover the following topics:

**BENIGN NON SURGICAL AND SURGICAL LESIONS**
- Aneurysmal bone cyst
- Bone cyst
- Chondromyxoid fibroma
- Chondroblastoma
- Chondromas
- Desmoplastic fibroma
- Eosinophilic granuloma
- Fibrous dysplasia
- Giant cell tumor
- Histiocytic fibroma
- Myositis ossificans
- Osteoblastoma
- Osteochondromas
- Osteoid osteoma

**MALIGNANT TUMORS**
- Adamantinoma
- Chondrosarcomas
- Chordoma
- Ewing’s sarcoma
- Lymphoma
- Myeloma
- Osteosarcomas
- Secondary malignancies
- Spindle and pleomorphic sarcomas
- Vascular tumors
- Bone Metastases

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**SOFT TISSUE TUMORS**
- Lipoma and other benign soft tissue tumors
- Liposarcoma
- Fibrosarcoma
- Malignant fibrous histiocytoma
- Synovial sarcoma
- Rare Entities

**VARYING**
- Biological prognostic and therapeutic markers
- Bone allografts in skeletal reconstruction
- Chemotherapy issues and future trends
- Integrated treatment of soft tissue sarcomas
- Reconstruction in children
- Staging and biopsy and margins
- Surgical principles of benign lesions
- Surgical treatment of spine tumors

**SPECIAL SESSIONS**
- Basic Research
- Molecular Biology in the Diagnosis of Bone and Soft Tissue Tumors
- Imaging of Bone and Soft Tissue Tumors
- Limb Salvage Surgery

www.mskcc.org/musculoskeletal
Course Faculty

COURSE DIRECTORS

Nicola Fabbri MD
Attending Surgeon
Orthopedic Service
Department of Surgery
Memorial Sloan Kettering Cancer Center

Michael J. Klein MD
Director, Pathology and Laboratory Medicine
Hospital for Special Surgery

MSK FACULTY

Kaled M. Alektiar MD
Attending Radiation Oncologist
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Department of Surgery

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Department of Neurosurgery

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Division of Solid Tumor Oncology
Department of Medicine

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Division of Solid Tumor Oncology
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Director, Molecular Genetic Pathology Fellowship Program
Attending Pathologist
Department of Pathology

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Chief, Orthopaedic Service
Attending Surgeon
Department of Surgery

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Department of Radiology

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Assistant Attending Surgeon
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Department of Surgery

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Brachytherapy Service
Department of Radiation Oncology

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Associate Attending Surgeon
Gastric and Mixed Tumor Service
Division of General Surgical Oncology
Department of Surgery

INVITED FACULTY

Joseph Benevenia MD
Chair, Orthopaedics
Professor, Rutgers Medical School
Newark, NJ

Edward DiCarlo MD
Attending Pathologist
Professor, Clinical Pathology and Laboratory Medicine
Weill Cornell Medical College
New York, NY

Mark Gebhardt MD
Chief, Orthopedic Surgery
Beth Israel Deaconess Medical Center
Department of Orthopedic Surgery
Harvard Medical School
Boston, MA

Richard Terek MD
Associate Professor, Orthopaedic Surgery
Adult Reconstructive Surgery and Musculoskeletal Oncology
Brown University
Providence, RI

Robert Turcotte MD
Maurice E. & Marthe Muller Chair
Division of Orthopaedic Surgery
McGill University
Montreal, Canada

Daniel Vanel MD
Department of Research
Department of Pathology
Istituto Ortopedico Rizzoli
Bologna, Italy
Scientific Agenda

Thursday, November 17, 2016

7:45 am  REGISTRATION & BREAKFAST
8:20 am  Welcome & Announcements
Nicola Fabbri MD
Michael J. Klein MD
8:30 am  Bone Development, Anatomy and Physiology
Michael J. Klein MD
9:20 am  Basics of Histopathology
Michael J. Klein MD
9:45 am  Basics of Imaging - Bone
Sinchun Hwang MD
10:15 am  Questions and Discussion
All Faculty
10:30 am  BREAK
10:40 am  Staging, Biopsy and Margins
Joseph Benevenia MD
11:10 am  Benign Fibrous / Bone Forming
Daniel Prince MD
11:40 am  Benign Cartilage
Nicola Fabbri MD
12:10 pm  Cystic and Other Benign Lesions
Daniel Prince MD
12:40 pm  Questions and Discussion - Case Presentation
Daniel Vanel MD & All Faculty
1:10 pm  LUNCH
2:10 pm  Giant Cell Tumor
Nicola Fabbri MD
2:40 pm  Primary and Secondary Hyperparathyroidism, Paget and Others
Edward DiCarlo MD
3:10 pm  Histo Review of Benign Tumors
Michael J. Klein MD
Meera Hameed MD
3:40 pm  Surgery for Benign Bone Tumors
Joseph Benevenia MD
4:10 pm  Questions and Discussion - Case Presentation
Daniel Vanel MD & Faculty
4:40 pm  BREAK
5:00 pm  Chondrosarcoma
Nicola Fabbri MD
5:40 pm  Imaging in Musculoskeletal Oncology: From Standard Radiograph to Functional Imaging.
Daniel Vanel MD
6:00 pm  Questions and Discussion - Case Presentation
Daniel Vanel MD & All Faculty
6:30pm  COCKTAIL RECEPTION
Friday, November 18, 2016

7:00 am  BREAKFAST

7:30 am  Review of Thursday Topics
Nicola Fabbri MD
Ana Belzarena Genovese MD
Christina Gutowski MD
Jan Lesensky MD

8:00 am  Osteosarcoma, MFH Bone and Others
Mark Gebhardt MD

8:30 am  Ewing’s Sarcoma
Robert Turcotte MD

9:00 am  Other Malignant Bone Sarcomas
Richard Terek MD

9:30 am  Histo Review of Benign Tumors
Michael J. Klein MD
Meera Hameed MD

10:00 am  Questions and Discussion - Case Presentation
Daniel Vanel MD & All Faculty

10:30 am  BREAK

10:40 am  Principles of Chemotherapy for Bone Sarcomas
Alexander J. Chou MD

11:10 am  Novel strategies for Non Chemotherapy-Sensitive Primary Malignant Bone Tumors
Mrinal Gounder MD

11:20 am  LOCAL TREATMENT: SURGERY FOR PRIMARY BONE MALIGNANCIES
Lower Extremity
Pelvis
Upper Extremity
John H. Healey MD
Nicola Fabbri MD
Edward Athanasian MD

12:20 pm  STRATEGIES IN SKELETALLY IMMATURE PATIENTS
Rotationplasty & Growing Implants
Vascularized Fibula Bone Transport
Mark Gebhardt MD
Nicola Fabbri MD
Daniel Prince MD

12:50 pm  Questions and Discussion - Case Presentation
Daniel Vanel MD & All Faculty

1:30 pm  LUNCH
2:20 pm  Soft Tissue Tumors: Overview and Work-Up  
Joseph Benevenia MD

2:40 pm  Basics of Imaging – Soft Tissue  
Robert A. Lefkowitz MD

3:00 pm  Soft Tissue Histopathology and Role of Molecular Biology  
Narasimhan P. Agaram MBBS

3:30 pm  Benign Soft Tissue: Overview and Management  
Richard M. Terek MD

3:45 pm  Questions and Discussion - Case Presentation  
Daniel Vanel MD & Faculty

4:00 pm  BREAK

MALIGNANT SOFT TISSUE: OVERVIEW AND PRINCIPLES OF SURGICAL MANAGEMENT

4:10 pm  Extremities  
Robert Turcotte MD

4:30 pm  Upper Extremity  
Edward Athanasian MD

4:45 pm  Abdominal Sarcomas  
Sam Sunghyu Yoon MD

INTEGRATED TREATMENT OF SOFT TISSUE SARCOMAS

5:00 pm  Radiotherapy  
Kaled M. Alektiar MD

5:20 pm  Chemotherapy  
Mark A. Dickson MD

5:45 pm  Questions and Discussion - Case Presentation  
Daniel Vanel MD & Faculty
Saturday, November 19, 2016

7:00 am  BREAKFAST
7:30 am  Review of Friday Topics
        Nicola Fabbri MD
        Ana Belzarena Genovese MD
        Christina Gutowski MD
        Jan Lesensky MD

8:00 am  Surgery for Primary Bone Malignancies:
          Spine and Sacrum
          Patrick J. Boland MBBCh BAo

8:30 am  Lymphoma / Myeloma
          Richard Terek MD

8:50 am  Metastatic Disease:
          Overview, Pathophysiology
          and Work-Up
          Patrick J. Boland MBBCh BAo

9:20 am  Histo Review: Hematologic
          Malignancies and Metastatic disease
          Michael J. Klein MD
          Meera Hameed MD
          Narasimhan P. Agaram MBBS

9:50 am  Questions and Discussion -
          Case Presentation
          Daniel Vanel MD & Faculty MD

10:10 am BREAK
10:20 am  Clinical Update:
          Use of Antiresorptives to
          Reduce Skeletal Related Events
          in Advanced Cancers Involving
          the Bone
          Azeez Farooki MD

10:40 am  Role of Stereotactic Body
          Radiation Therapy for
          Spinal Metastases
          Josh Yamada MD

SURGERY FOR
METASTATIC DISEASE

11:00 am  Spine
          Mark Bilsky MD

11:20 am  Extremities and Pelvis
          Joseph Benevenia MD

11:50 am  Questions and Discussion -
          Case Presentation
          Daniel Vanel MD & Faculty

12:30 pm Adjourn
## Registration

### PHYSICIANS (MDs, PhDs and DOs)

Physicians (MDs, PhDs and DOs) $400

### MSK ALLIANCE AND MSK ALUMNI

MSK Alliance and MSK Alumni $280

### RESIDENTS, FELLOWS, NURSES, TECHNICIANS AND OTHER HEALTHCARE PROVIDERS

Residents, Fellows, Nurses, Technicians and Other Healthcare Providers $250

### INDUSTRY MEMBERS*

Industry Members* $700

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**Special Resident Group Rate**

MSK is offering a special group discounted rate for residents. Please contact cme@mskcc.org for more information or to register for the group rate.

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### REGISTRATION

Registration includes continental breakfast, lunch, and refreshment breaks. Please contact us at least one week prior to the course if you have any special dietary needs.

**Registration is complimentary for MSK staff who wish to attend this course. However, you must register online by visiting the course website, [www.mskcc.org/musculoskeletal](http://www.mskcc.org/musculoskeletal).**

### COURSE DESIGN

This course is comprised of lectures and interactive audience participation encouraging the intellectual exchange of ideas between faculty and participants.

### ACCOMMODATIONS

For information on hotels in the area of MSKCC with discounted rates, please visit: [www.mskcc.org/accommodations](http://www.mskcc.org/accommodations).

### ACCREDITATION STATEMENT

MSK is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### AMA CREDIT DESIGNATION STATEMENT*

MSK designates this live activity for a maximum of **22.5 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity. The AMA has determined that physicians not licensed in the United States but who participate in this CME activity are eligible for **22.5 AMA PRA Category 1 Credits™**.

### FACULTY DISCLOSURE

It is the policy of MSK to make every effort to insure balance, independence, objectivity, and scientific rigor in all continuing medical education activities which it sponsors as an ACCME accredited provider. In accordance with ACCME guidelines and standards, all faculty participating in an activity sponsored by MSK are expected to disclose any significant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services which are discussed by the faculty members in an educational presentation. As required by the ACCME, when an unlabeled use of a commercial product or an investigational use not yet approved for any purpose is discussed during an educational activity, MSK requires the speaker to disclose that the product is not labeled for the use under discussion or that the product is still investigational.

### CONTACT

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*Industry Members: Registration is for educational purposes only. Marketing, sales, and promotion of products and services are prohibited at CME activities.