

10th Joint MSK/HSS/IOR Course in

Musculoskeletal Tumor Pathology & Clinical Oncology

OCTOBER 10-12, 2017

ZUCKERMAN RESEARCH CENTER

NEW YORK CITY







COURSE OVERVIEW

This well-received annual course is designed to give a current review of musculoskeletal tumor pathology and principles of management to orthopaedic surgeons, radiation oncologists, medical oncologists, radiologists and pathologists. This course covers the most common and clinically relevant benign and malignant musculoskeletal tumors from diagnosis to integrated treatment and outcome. This course is in collaboration with Hospital for Special Surgery and Instituto Ortopedico Rizzoli, Bologna, Italy.

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

SOFT TISSUE TUMORS

Lipoma and other benign soft tissue tumors

Liposarcoma

Fibrosarcoma

Malignant fibrous

histiocytoma

Synovial sarcoma

Rare Entities

VARIOUS

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

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

FOR MORE INFORMATION OR TO REGISTER:

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

Pathologist in Chief Emeritus

Department of Pathology and

Laboratory Medicine

Hospital for Special Surgery

Professor of Pathology and

Laboratory Medicine

Weill-Cornell School of Medicine

Consultant in Pathology,

Memorial Sloan Kettering Cancer Center

MSK FACULTY

Kaled M. Alektiar MD

Attending Radiation Oncologist Brachytherapy Service Department of Radiation Oncology

Narasimhan P. Agaram MBBS

Associate Attending Pathologist Autopsy Service Department of Pathology

Grigoriy Arutyunyan, MD

MSK Fellow Orthopaedic Service

Edward Athanasian MD

Associate Attending Surgeon Orthopedic Service Department of Surgery

Mark Bilsky MD

Attending Neurosurgeon Department of Neurosurgery

Mark A. Dickson MD

Assistant Attending Physician Sarcoma Medical Oncology Service Division of Solid Tumor Oncology Department of Medicine

Azeez Farooki MD

Associate Attending Physician Endocrinology Service Division of Subspecialty Medicine Department of Medicine

Mrinal Gounder MD

Assistant Attending Physician Sarcoma Medical Oncology Service Division of Solid Tumor Oncology Department of Medicine

Meera Hameed MD

Chief, Surgical Pathology Service Director, Molecular Genetic Pathology Fellowship Program Attending Pathologist Department of Pathology

Derek G. Hansen MD

MSK Fellow Orthopaedic Service

John H. Healey MD

Stephen McDermott Chair in Surgery Chief, Orthopaedic Service Attending Surgeon Department of Surgery

INVITED FACULTY

Joseph Benevenia MD

Professor and Chair Department of Orthopaedics Rutgers, New Jersey Medical School Newark, NJ

Stefano Boriani MD

Istituto Ortopedico Rizzoli Bologna, Italy (FORMERLY) IRCCS Galeazzi Institute Milano, Italy (8/31/-17-PRESENT)

Edward DiCarlo MD

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

Robert A. Lefkowitz MD

Associate Attending Radiologist Body Imaging Service Department of Radiology

Ernesto Santos Martin MD

Attending Radiologist Interventional Radiology Service Department of Radiology

Majid Maybody MD

Associate Attending Radiologist Director, Interventional Radiology Training Program Department of Radiology

Paul A. Meyers MD

Attending Physician Vice Chair, Academic Affairs, Department of Pediatrics Robbins Family Chair in Pediatrics Department of Pediatrics

Jonathan Morris MD

MSK Fellow Orthopaedic Service

David M. Panicek MD FACR

Vice Chair for Clinical Affairs Director, Educational Programs Attending Radiologist Body Imaging Service Department of Radiology

Daniel Prince MD

Assistant Attending Surgeon Orthopedic Service Department of Surgery

Yoshiya (Josh) Yamada MD

Attending Radiation Oncologist Brachytherapy Service Department of Radiation Oncology

Sam S. Yoon MD

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

Gary A. Ulaner MD PhD

Associate Attending Radiologist Molecular Imaging and Therapy Service Department of Radiology

Maksim Vaynrub MD

Assistant Attending Surgeon Orthopedic Service Department of Surgery

Mark C. Gebhardt MD

Professor (HMS) and Chairman Orthopaedics (BIDMC) Harvard Medical School Beth Israel Deaconess Medical Center and Boston Children's Hospital Boston, MA

Joseph H Schwab MD MS

Associate Professor of Orthopedic Surgery Department of Orthopedic Surgery Massachusetts General Hospital Harvard Medical School Boston, MA

Richard M Terek MD FACS

Professor of Orthopaedics Brown University Providence, RI

SCIENTIFIC AGENDA

TUESDAY, OCTOBER 10, 2017

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
9:50 AM	Imaging - Characterizing Bone Tumors at MRI: What is Realistically Possible? David M. Panicek MD FACR
10:15 ам	Questions and Discussion All Faculty
10:30 ам	BREAK
10:40 ам	Staging, Biopsy and Margins Joseph Benevenia MD
11:10 ам	BENIGN FIBROUS / BONE FORMING NOF, Fibrous Dysplasia, Osteoid Osteoma, Osteoblastoma, Desmoplastic Fibroma Daniel Prince MD
11:40 AM	BENIGN CARTILAGE TUMORS Chondromas, Osteochondromas, Chondroblastoma, Chondromyxoid Fibroma Maksim Vaynrub MD
12:10 рм	CYSTIC AND OTHER BENIGN LESIONS Bone Cyst, Aneurysmal Bone Cyst, Langerhans Cell Histiocytosis Richard M Terek MD FACS
12:40 рм	Questions and Discussion - Case Presentation Nicola Fabbri MD & All Faculty
1:10 рм	LUNCH
2:10 рм	Giant Cell Tumor Nicola Fabbri MD
2:30 pm	Hyperparathyroidism, Paget Disease and Metabolic Bone Disease Considerations Edward DiCarlo MD
3:00 PM	Histo Review of Benign Tumors Michael J. Klein MD Meera Hameed MD
3:30 рм	Surgery for Benign Bone Tumors Joseph Benevenia MD
4:00 рм	Questions and Discussion - Case Presentation Nicola Fabbri MD & All Faculty
4:30 рм	BREAK
4:45 рм	Interventional Radiology for Benign Musculoskeletal Lesions Majid Maybody MD Ernesto Santos Martin MD
5:15 рм	Imaging in Musculoskeletal Oncology of the Spine: A Rationale Approach Stefano Boriani MD
5:45 рм	Questions and Discussion - Case Presentation Nicola Fabbri MD & All Faculty
6:30 рм	NETWORKING RECEPTION

WEDNESDAY, OCTOBER 11, 2017

WEDINE	2007 (1) 001 002 1(1 11) 2017
7:00 AM	BREAKFAST
7:30 ам	Review of Tuesday Topics Nicola Fabbri MD MSK FELLOWS:
8:00 AM	Grigoriy Arutyunyan MD, Derek G. Hansen MD & Jonathan Morris MD Chondrosarcoma
	Nicola Fabbri MD
8:30 AM	Metabolic Imaging with PET/CT: Osseous Malignancy and Tumor Mimics Gary A. Ulaner MD PhD
9:00 AM	Osteosarcoma, MFH Bone, Others John H. Healey MD
9:30 ам	Ewing's Sarcoma Joseph Benevenia MD
10:00 AM	Questions and Discussion All Faculty
10:30 AM	BREAK
10:45 ам	Other Malignant Bone Sarcomas Richard M Terek MD FACS
11:15 AM	Histo Review of Bone Sarcomas Michael J. Klein MD Meera Hameed MD
12:00 рм	Principles of Chemotherapy for Bone Sarcomas Paul A. Meyers MD
12:30 рм	Novel Strategies for Non Chemotherapy-sensitive Primary Malignant Bone Tumors Mrinal Gounder MD
12:45 рм	Questions and Discussion All Faculty
1:00 рм	LUNCH
1:40 рм	LOCAL TREATMENT: SURGERY FOR PRIMARY BONE MALIGNANCIES Extremities (40') Pelvis (20') John H. Healey MD
	Nicola Fabbri MD
2:40 рм	STRATEGIES IN SKELETALLY IMMATURE PATIENTS Rotationplasty and growing implants (20') Vascularized fibula (10') Bone transport (10)' Mark C. Gebhardt MD Nicola Fabbri MD Daniel Prince MD
3:20 PM	Allograft in Musculoskeletal Oncology Mark C. Gebhardt MD
3:50 рм	Surgery for Benign Aggressive and Malignant Primary Bone Tumors: Spine Stefano Boriani MD
4:10 рм	Questions and Discussion All Faculty
4:30 рм	BREAK
4:45 PM	Soft Tissue Tumors: Overview and Work-up Joseph Benevenia MD
5:10 рм	Basics of Imaging - Soft Tissue Robert A. Lefkowitz MD
5:30 рм	Soft Tissue Histopathology and Role of Molecular Biology Narasimhan P. Agaram MBBS
6:10 рм	Questions and Discussion - Case Presentation Nicola Fabbri MD & Faculty

6:30 PM DAY 2 ADJOURN

THURSDAY, OCTOBER 12, 2017

1:55 PM SYMPOSIUM ADJOURN

7:00 AM	BREAKFAST
7:20 ам	Review of Wednesday Topics Nicola Fabbri MD MSK FELLOWS:
	Grigoriy Arutyunyan MD, Derek G. Hansen MD & Jonathan Morris MD
7:50 AM	Surgery for Benign Aggressive and Malignant Primary Bone Tumors: Sacrum Joseph H Schwab MD MS
8:10 AM	Malignant Soft Tissue – Overview and Principles of Surgical Management: Extremities Richard M Terek MD FACS
8:30 AM	Malignant Soft Tissue: Surgical Strategies for Upper Extremity Edward Athanasian MD
8:45 AM	Malignant Soft Tissue - Overview and Principles of Surgical Management: Abdominal Sarcomas Sam S. Yoon MD
9:00 AM	Integrated Treatment of Soft Tissue Sarcomas: Radiotherapy Kaled M. Alektiar MD
9:15 AM	Integrated Treatment of Soft Tissue Sarcomas: Chemotherapy Mark A. Dickson MD
9:30 ам	Questions and Discussion All Faculty
9:50 AM	BREAK
10:00 AM	Lymphoma/Myeloma Richard M Terek MD FACS
10:15 ам	Metastatic Disease: Overview, Pathophysiology and Work-up Joseph H Schwab MD MS
10:40 AM	Histo Review: Hematologic Malignancies and Metastatic Disease Michael J. Klein MD Meera Hameed MD Narasimhan P. Agaram MBBS
11:10 ам	Clinical Update: Use of Antiresorptives to Reduce Skeletal Related Events in Advanced Cancers Involving the Bone Azeez Farooki MD
11:25 ам	Questions and Discussion - Case Presentation Nicola Fabbri MD & Faculty
11:40 ам	BREAK
11:50 ам	Interventional Radiology for Malignant Musculoskeletal Lesions Majid Maybody MD Ernesto Santos Martin MD
12:10 рм	Role of Stereotactic Body Radiation Therapy for Spinal Metastases Yoshiya (Josh) Yamada MD
12:35 рм	Surgery for Metastatic Disease: Spine Mark Bilsky MD
1:00 pm	Surgery for Metastatic Disease: Extremities and Pelvis Joseph Benevenia MD Richard Terek MD
1:25 AM	Questions and Discussion - Case Presentation Nicola Fabbri MD & Faculty

REGISTRATION

	EARLY*	GENERAL
Physicians (MDs, PhDs and DOs)	\$500	\$550
Residents, Fellows, Nurses and Other Healthcare Providers	\$300	\$350
Industry Professionals**	\$950	\$950

^{*}Early Registration Ends 9/15/17

REGISTER ONLINE:

www.mskcc.org/musculoskeletal

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.

REGISTRATION DETAILS

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

- 30% Discounted Rate for MSK Alumni and MSK Alliance Members MSK offers a 30% discounted rate to all MSK Alumni and MSK Alliance members to attend a CME course. Please contact cme@mskcc.org for a promo code or more information.
- MSK Staff Registration Registration is complimentary for MSK staff. However, you must register online by visiting the course website, www.mskcc.org/musculoskeletal.

**Industry Members may attend CME activities for their own education. Marketing, sales, and promotion of products and services is strictly prohibited at MSK CMF activities

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 24.5 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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 provides as an ACCME accredited provider. In accordance with ACCME guidelines and standards, all faculty participating in an activity provided 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.

ACCOMMODATIONS

MSK has negotiated special rates and amenities at select hotels in Manhattan. For information on hotels in the area of MSK with discounted rates, please visit: www.mskcc.org/cme.

CONTINUING MEDICAL EDUCATION MEMORIAL SLOAN KETTERING CANCER CENTER

633 Third Avenue, 12th Floor, New York, NY 10017 www.mskcc.org/cme | cme@mskcc.org





