

XXXIII Course on MUSCULOSKELETAL PATHOLOGY

"Hot topics in musculoskeletal tumor treatment"

May 23-26, 2022 Rizzoli Orthopaedic Institute - Bologna, Italy

Director of the Course

MARCO MANFRINI, M.D. Orthopaedic Oncology Department of Musculoskeletal Oncology, Rizzoli Orthopaedic Institute, Bologna, Italy

Invited Speakers

ANGELO P. DEI TOS, M.D. Pathology University of Padua School of Medicine, Padua, Italy

LEE JEYS, M.D. Orthopaedic Oncology Royal Orthopaedic Hospital NHS, Birmingham, UK

SILVIA CAMMELLI, M.D. Radiotherapy Imaging and Radiotherapy, S.Orsola University Hospital, Bologna, Italy

MARCO CIANCHETTI, M.D. Proton Therapy Department of Proton Therapy, Trento, Italy





SERVIZIO SANITARIO REGIONALE EMILIA - ROMAGNA Istítuto Ortopedico Rizzoli di Bologna Istítuto di Ricovero e Cura a Carattere Scientifi







 Network Adult Cancers (ERN EURACAN)
 Member Rizzoli Orthopaedic Institute of Bologn



FACULTY

Orthopedic Oncologic Clinic - Course Staff & Presenters

Davide Maria DONATI Giuseppe BIANCHI Laura CAMPANACCI Tommaso FRISONI Eric STAALS

Diagnostic & Interventional Radiology - Course Staff

Marco MICELI Anna Maria CHIESA Giancarlo FACCHINI Giuliano PETA Federico PONTI Paolo SPINNATO Cecilia TETTA

Anatomy and Pathological Histology - Course Staff

Marco GAMBAROTTI Alberto RIGHI

Osteoncology - Course Staff

Ibrahim TONI Marilena CESARI Anna PAIOLI Emanuela PALMERINI

Laboratory of Experimental Oncology Katia SCOTLANDI, Maria Cristina MANARA, Caterina MANCARELLA

Pharmacogenomics and Pharmacogenetics Massimo SERRA

Regenerative Therapies in Oncology Enrico LUCARELLI

Spine Surgery Alessandro GASBARRINI, Riccardo GHERMANDI

Plastic Surgery Marco INNOCENTI

General Surgery Fabio DAVOLI

GENERAL INFORMATION

AIM OF THE COURSE

The Course consists in a 4-day update on management of bone and soft tissue tumors with particular emphasis on clinico-pathologic and radiographic correlations including practical studies under microscope. It is addressed to orthopaedic surgeons, oncologists, pathologists, radiologists and basic researchers to improve their knowledge and competence in these pathologies by working in multidisciplinary teams.

The format includes interactive sessions for questions, case presentations and an early morning interactive session of multiple choice questions reviews the topics previously discussed. The last day participants are grouped in multidisciplinary teams to discuss a clinical case. The best teams are awarded a prize.

SITE

Istituto di Ricerca Codivilla-Putti - Via di Barbiano 1/10, Bologna, Italy (can be easily reached by bus A from railstation and town center)

Start: Monday May 23 at 11.00 End: Thursday May 26 at 13.00

REGISTRATION FEE AND DEADLINES

Regular SIAPEC Member – Regular Fee discount 20%	
Resident with letter from Chief Dept	€ 200,00 VAT included
AISOT Member SIAPEC Member – Resident Fee discount 20%	,
Fee reserved for UNIBO residents, PhD students and International Fellows of the IOR Orthopaedic and Traumatology Clinic III (oncology)	€ 100,00 VAT included

The registration fee covers:

- admittance to the scientific session and final program

- refreshments during break and lunches

Course dinner: tuesday, 24 may 2022€ 50,00 VAT included

The registration and payment forms will be available online at https://form.jotform.com/220533098590356

Deadline for registration is MAY 15th, 2022

ORGANIZING SECRETARIAT



Ad Arte Eventi srl segreteria@adarteventi.com www.adarteventi.com - Phone: + 39 370 3090831 + 39 393 7049383

OFFICIAL LANGUAGE

English



MONDAY, 23 May 2022

- 11.00 Registration and Welcome reception
- 12.00 Introduction to the course M. Manfrini

PSEUDO TUMORAL BONE LESIONS

Presenter: L. Campanacci Panel: Pathologist, Radiologist and Guests

12.30 IS BIOPSY NECESSARY IN A RADIOLOGICALLY SUSPECTED BONE CYST?

Introduction: presentation of a case (UBC vs ABC vs Fibrous dysplasia) L. Campanacci

Discussion on differential radiological diagnosis

G. Facchini

Discussion on differential pathological diagnosis *M. Gambarotti*

Discussion with the audience through interactive unknown cases: when perform a needle biopsy? When perform open surgery with curettage in a cystic lesion Panel

13.30 WHEN SHOULD A NON-OSSIFYING FIBROMA (NOF) BE CURETTED OUT?

Introduction: presentation of a fractured case
L. Campanacci

Radiographical sign of NOF (differential diagnosis) G. Facchini

13.45 HOW TO TREAT ANEURYSMAL BONE CYST IN SKELETALLY IMMATURE PATIENTS

Introduction: presentation of a case treated with bone marrow concentration

L. Campanacci

The need for biopsy and the differential diagnosis in ABC *M. Gambarotti*

Interventional radiology in ABC

G. Facchini

Discussion with the audience through interactive unknown cases: when to perform a needle biopsy? When to perform open surgery with curettage in a ABC: the good and the bad (from curopsy to growth plate damage) Panel

14.30 Coffee break

BENIGN BONE LESIONS

Presenter: E. Staals Panel: Radiologist, Pathologist, Oncologist, and Guest

15.00 HOW AGGRESSIVE SHOULD BE A CURETTAGE?

Presentation of clinical cases *E. Staals*

Key radiological issues in the diagnosis of benign bone lesions *G. Facchini*

Key pathological issues in the diagnosis of benign bone lesions *A. Righi*

The use of Denosumab in benign bone lesions E. Palmerini

Benign bone lesions in the spine

R. Ghermandi

The use of osteosynthesis in bone curettage *L. Jeys*

16.30 THE HISTOLOGICAL TRANSITION FROM BENIGN TO MALIGNANT CARTILAGE: IS BIOPSY ALWAYS NECESSARY?

Clinical presentation of cartilage lesions *E. Staals*

The radiological keys in cartilage tumors progression

G. Facchini

The histological progression

A. Righi

Current ROH strategy on Chondrosarcoma of limb and pelvis

L. Jeys

Discussion with the audience through interactive unknown cases: when to perform a needle biopsy? Curettage vs resection in low grade cartilage tumors

Panel

18.00 End of the day

Histo-slides of the presented entities will be displayed on the microscopes all day



TUESDAY, 24 May 2022

MALIGNANT BONE TUMORS

Presenter: M. Manfrini Panel: Pathologist, Radiologist, Oncologist, Researchers, Radiotherapists, Guests

08.15 MALIGNANT PROGRESSION IN OSTEOID BASED BONE TUMORS?

Presentation of a case of osteoid osteoma eventually resulted in high grade osteosarcoma *M. Manfrini*

Key radiological issues in malignant osteo-differentiation *M. Miceli, G. Peta*

The pathology perspective in the diagnosis of osteoid based bone tumors *M. Gambarotti*

Chemotherapy in high grade variants

M. Cesari

The role of research: preclinical models for functional genomics *M.C. Manara*

The role of research: news about chemo-resistance in osteosarcoma *M. Serra*

Discussion with the audience through interactive unknown cases: How to treat recurrent high grade osteosarcoma? Panel

10.00 Coffee break

10.30 TREATMENT OF NOT RESPONSIVE EWING'S SARCOMA

Presentation of a case of Ewing with soft tissue persistence after inductive chemotherapy

M. Manfrini

Radiological key issues in the evaluation of response to chemotherapy *M. Miceli, G. Peta*

Pathological key issues in the evaluation of response to chemotherapy A. Righi

The role of High-Dose ChemoTx in Ewing's sarcoma A. Paioli

The role of Radiotherapy in not responsive Ewing's sarcoma

S. Cammelli, M. Cianchetti

Pelvic Ewing's sarcoma: when the surgical treatment *L. Jeys*

12.00 IS PROGNOSIS OF METASTATIC EWING'S SARCOMA BETTER THAN METASTATIC OSTEOSARCOMA?

What about the outcome of Ewing and Osteosarcoma metastatic cases? *M. Manfrini*

New variants in small round cell tumors

P. Dei Tos

New drugs in the treatment of Ewing sarcoma family E. Palmerini

What's new about circulating markers in Ewing's sarcoma C.Mancarella

Surgical treatment of lung metastases

F. Davoli

Stereotactic radiotherapy application in lung metastasis S. Cammelli

13.00 Lunch break

SOFT TISSUE TUMORS

Presenter: G. Bianchi Panel: Pathologist, Radiologist, Oncologist, Researchers, Radiotherapists, Plastic Surgeon

14.00 WHAT PERCENTAGE OF LUNG METASTASIS IN SUPERFICIAL AND SMALL (less than 5 cm) SOFT TISSUE TUMOR?

Introduction

G. Bianchi

Imaging studies options in STS

P. Spinnato

Is there any histology difference among small superficial and large deep-seated tumor of same diagnosis?

P. Dei Tos

Why soft tissue sarcoma metastasizing to nodes seem to have a less favorable prognosis

P. Dei Tos

14.30 IS IT STILL NECESSARY TO RE-EXCISE ALL SUPERFICIAL INADEQUATE LESION?

Presentation of a case and Rizzoli Institute data on re-excision *G. Bianchi*

Radiotherapy in superficial tumor and whoops lesions

S. Cammelli

Birmingham experience in re excision in whoops lesions *L. Jeys*

15.00 IS THE COMBINATION RADIOTHERAPY, CHEMOTHERAPY AND SURGICAL EXCISION TO BE CONSIDERED THE GOLD STANDARD FOR HIGH GRADE STS?

Presentation of the Rizzoli Institute data on high grade STS in pediatric patients

G. Bianchi

The use of tailored chemotherapy protocols in STS

T. Ibrahim

15.30 Coffee break

MSP

16.00 WHEN IS THE CORRECT TIME FOR RADIOTHERAPY IN STS?

Introduction

G. Bianchi

Preoperative or postopradiotherapy (in conjunction with chemotherapy)

S. Cammelli

Proton radiotherapy pro's and con's

M. Cianchetti

Are wound related problem interfering with chemotherapy?

M. Cesari

Does preoperative radiotherapy change surgical perspective in STS? (wound problems vs preservation of vital structures)

L. Jeys

What is the role of the plastic surgery? M. Innocenti

18.00 End of the day

Histo-slides of the presented entities will be displayed on the microscopes all day

20.00 COURSE DINNER

WEDNESDAY, 25 May 2022

SECONDARY BONE LESIONS

Presenter: D.M. Donati Panel: Pathologist, Radiologist, Oncologist, Researchers, Radiotherapists, Spine Surgeon, Guest

08.30 PERSPECTIVE OF CURE OF METASTATIC CARCINOMA IN 2022

Epidemiology update regarding metastatic carcinoma *D.M. Donati*

Difficult diagnosis of metastatic carcinoma. Is needle biopsy always diagnostic?

P. Dei Tos

The bone niche in metastatic carcinoma

E. Lucarelli

Targeting cancer and microenvironment in solid tumor *T. Ibrahim*

10.00 Coffee break

10.30 TREATMENT OF BONE METASTATIC CANCERS

The Rizzoli surgical experience

D.M. Donati

Radiotherapy strategy in metastatic carcinomas

S. Cammelli

Overview of interventional radiology in the treatment of bone metastatic lesions

G. Facchini

The use of electrochemo therapy

L. Campanacci

The role of surgery for spine metastases

R. Ghermandi

Pelvic and proximal femur surgery: when partial (curettage) or complete excision (resection)? *L. Jeys*

- 12.00 DISCUSSION ON SELECTED CASES PRESENTED BY PARTICIPANTS Staff and Guests
- 13.00 Lunch break



HOT TOPICS ON MUSCULOSKELETAL RECONSTRUCTIONS

Presenter: Tommaso Frisoni

- 14.00 Current role of bone grafts in oncological patients (adults and children) M. Manfrini
- 14.20 How to face limb discrepancy in pediatric surgery L. Campanacci
- 14.40 Is 3D printing custom device replacing allograft application in limb reconstruction? D.M. Donati
- 15.00 Computer assisted surgery: navigation vs 3D printing in pelvic resection L. Jeys
- 15.20 Discussion
- 16.00 Coffee break
- 16.30 DISCUSSION ON SELECTED CASES PRESENTED BY PARTICIPANTS Staff and Guests
- 18.30 End of the day

Histo-slides of the presented entities will be displayed on the microscopes all day

Slide of different presentations of the same session should filled in the same PPT to not loose time with change of PPT files $% \left({{\rm PPT}} \right) = {\rm PPT} \left({{\rm PPT}} \right) =$

All the slides should be inserted in the course logo PPT

THURSDAY, 26 May 2022

08.30 Display of 8-10 final unknown cases and teams line-up

- 10.00 Coffee break
- 10.15 Test continuing education (ECM)
- 10.30 Discussion of the final unknowns and Musculoskeletal Pathology Contest

Staff and Guest

Attendees will form multispecialistic teams, will be called to discuss one of the final unknown cases and will be scored by the guest professors and staff. Each team will have a maximum of 15 minutes for their case discussion

13.00 End of the course and award ceremony

PROMOTED BY



AUSPICIE OBTAINED



Società Italiana di Ortopedia e Traumatologia





Associazione Italiana Specializzandi in Ortopedia e Traumatologia



European Musculo-Skeletal Oncology Society



International Society of Limb Salvage



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