

# XXXIV Course on MUSCULOSKELETAL PATHOLOGY

"Hot topics in musculoskeletal tumor treatment"

# May 3-6, 2023 Rizzoli Orthopaedic Institute - Bologna, Italy

#### Director of the Course

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

#### **Invited Speakers**

MARTA SBARAGLIA, M.D. Pathology Department of Pathology, Azienda Ospedale Università Padova, Padova, 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





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 Network Adult Cancers (ERN EURACAN)
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### FACULTY

#### Orthopedic Oncologic Clinic - Course Staff & Presenters

Davide Maria DONATI Giuseppe BIANCHI Laura CAMPANACCI Costantino ERRANI Tommaso FRISONI Eric L. STAALS

#### Diagnostic & Interventional Radiology - Course Staff

Marco MICELI Giancarlo FACCHINI Giuliano PETA Federico PONTI Paolo SPINNATO Alberto BAZZOCCHI

#### Anatomy and Pathological Histology - Course Staff

Marco GAMBAROTTI Alberto RIGHI

#### **Osteoncology -** Course Staff

Ibrahim TONI Marilena CESARI Giorgio FREGA Andrea MARRARI 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

Advanced Experimental Models Laura MERCATALI

Spine Surgery Alessandro GASBARRINI, Riccardo GHERMANDI

Orthoplasty Marco INNOCENTI, Francesco MORI

General & Thoracic 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: Wednesday, 3<sup>rd</sup> May at 11.00 End: Saturday, 6<sup>th</sup> May at 13.00

#### **REGISTRATION FEE AND DEADLINES**

Regular	€ 450.00 VAT included
SIAPEC Member – Regular Fee discount 20%	
Resident with letter from Chief Dept	€ 200,00 VAT included
AISOT Member	€ 200,00 VAT included
SIAPEC Member - Resident Fee discount 20%	€ 160,00 VAT included
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 for anyone	

The registration fee covers:

- admittance to the scientific session and final program
- refreshments during break and lunches

Course dinner: Friday, 5th May 2023 .....€ 60,00 VAT included

The registration and payment forms will be available online at <a href="https://www.lcfcongress.com/eventi/xxxiv-course-on-musculoskeletal-pathology/">https://www.lcfcongress.com/eventi/xxxiv-course-on-musculoskeletal-pathology/</a>

Deadline for registration is 19th APRIL, 2023

#### **ORGANIZING SECRETARIAT**



LCF CONGRESS FACTORY S.R.L. srl www.lcfcongress.com e-mail: info@lcfcongress.com

Phone: +39 0532 1883439 +39 340 6672064

#### **OFFICIAL LANGUAGE**

English



## WEDNESDAY, 3 May 2023

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

#### **PSEUDO TUMORAL BONE LESIONS**

Presenter: Laura 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: Eric L. 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

A. Gasbarrini

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



## THURSDAY, 4 May 2023

#### **MALIGNANT BONE TUMORS**

Presenter: Marco Manfrini

Panel: Pathologist, Radiologist, Oncologist, Researchers, Radiotherapists, Guests

#### 08.00 MALIGNANT PROGRESSION IN OSTEOID BASED BONE TUMORS?

Presentation of cases of with progression to high grade osteosarcoma *M. Manfrini* 

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

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

Chemotherapy in high grade variants

M. Cesari

How preclinical models could help clinician decisions in Osteosarcoma *M.C. Manara* 

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

#### 09.45 ROUND TABLE: Questions to Research

Why to store biological samples? K. Scotlandi. M. Serra

#### 10.15 Coffee break

#### 10.45 TREATMENT OF NOT RESPONSIVE EWING 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. Facchini* 

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

The role of High-Dose ChemoTx in Ewing sarcoma

A. Paioli

The role of Radiotherapy in not responsive Ewing sarcoma

S. Cammelli, M. Cianchetti

Pelvic Ewing sarcoma: when the surgical treatment

L. Jeys

## 12.00 **ROUND TABLE:** Is prognosis of metastatic Ewing sarcoma better than metastatic osteosarcoma?

What about the outcome of Ewing and Osteosarcoma metastatic cases? *E. Palmerini* New variants in small round cell tumors *M. Sbaraglia* Surgical treatment of lung metastases *F. Davoli* Stereotactic radiotherapy application in lung metastasis

- S. Cammelli
- 13.00 Lunch break

#### SOFT TISSUE TUMORS

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

#### 14.00 LATE EFFECTS OF RADIATION THERAPY IN SOFT TISSUE SARCOMAS

#### Real life experience Case 1

L. Jeys

**Real life experience Case 2** 

G. Bianchi

Orthopedic approach to post radiation complications

G. Bianchi

Post radiation sarcomas M. Sbaraglia

15.00 Oncoplastic approach to irradiated sites and lymphedema *M. Innocenti* 

How to reduce post radiation toxicity: proton vs photon therapy *M. Cianchetti* 

#### 15.30 Coffee break

#### 16.00 COMBINED TREATMENTS IN SOFT TISSUE SARCOMAS

Neo or adjuvant systemic therapy in STS *M.* Cesari

Radiotherapy in combination with systemic therapy in STS S. Cammelli

**Could immunotherapy have a role in the treatment of STS?** *T. Ibrahim* 

How preclinical models could help clinician decisions in STS *L. Mercatali* 



#### 17.00 UNKNOWN CASES AND OPEN DISCUSSION

Real life experience Unknown Case 1 G. Bianchi Discussion A. Marrari Real life experience Unknown Case 2 G. Bianchi Discussion G. Frega

18.00 End of the day

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

## FRIDAY, 5 May 2023

#### SECONDARY BONE LESIONS

Presenter: Davide Maria Donati

Panel: Pathologist, Radiologist, Oncologist, Researchers, Radiotherapists, Spine Surgeon, Guest

#### 08.30 PERSPECTIVE OF CURE OF METASTATIC CARCINOMA IN 2022

Epidemiology update on metastatic carcinoma treatment in western countries D.M. Donati

Difficult diagnosis in bone and soft tissue metastases *M. Sbaraglia* 

When biopsy is required in metastatic carcinoma medical treatment *T. Ibrahim* 

Mechanism of action of antiresorptive molecules on bone tumor microenvironment *E. Lucarelli* 

Overview of interventional radiology in the treatment of bone metastatic lesions *G. Facchini* 

Action of palliative treatments on bone (electro-chemotherapy vs other techniques L. Campanacci

10.00 Coffee break

#### 10.30 TREATMENT OF BONE METASTATIC CANCERS

The role of surgery for long bone metastases *C. Errani* Radiotherapy strategy in metastatic carcinomas, when and how *S. Cammelli* The role of surgery for spine metastases *A. Gasbarrini* Pelvic surgery of bone metastatic lesions *L. Jeys* Proximal femur treatment presentation of two cases

A. Marrari, G. Frega

- 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  $% \left( {\left[ {{{\rm{S}}_{\rm{s}}} \right]_{\rm{s}}} \right)$ 

All the slides should be inserted in the course logo PPT

19.00 COURSE DINNER



## SATURDAY, 6 May 2023

- 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** 

THANKS TO









#### **AUSPICIE OBTAINED**



**EURO Ewing Consortium** 







Società Italiana di Anatomia Patologica



Società Italiana di Ortopedia e Traumatologia

**AUSPICIE REQUESTED** 



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