

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

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
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Istituto Ortopedico Rizzoli di Bologna
Istituto di Ricovero e Cura a Carattere Scientifico



European
Reference
Network

for rare or low prevalence
complex diseases

Network
Adult Cancers
(EUSACAN)

Member
Rizzoli Orthopaedic
Institute of Bologna
Italy

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, 3rd May at 11.00

End: Saturday, 6th May at 13.00

REGISTRATION FEE AND DEADLINES

Regular.....	€ 450,00 VAT included
SIAPEC Member – Regular Fee discount 20%.....	€ 360,00 VAT included
Resident <i>with letter from Chief Dept</i>	€ 200,00 VAT included
ALSOT 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 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
<https://www.lcfcongress.com/eventi/xxxiv-course-on-musculoskeletal-pathology/>

Deadline for registration is 19th APRIL, 2023

ORGANIZING SECRETARIAT

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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 curepsy 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

P. Dei Tos

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

P. Dei Tos

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

P. Dei Tos

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

T. Ibrahim

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 be filled in the same PPT to not lose time with change of PPT files

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*

AUSPICIE OBTAINED



EURO Ewing Consortium



Italian Sarcoma Group



International Society Of Limb Salvage
International Society of Limb Salvage



Società Italiana di Anatomia Patologica



Società Italiana di Ortopedia e Traumatologia

AUSPICIE REQUESTED



European Musculo-Skeletal Oncology Society

PROMOTED BY



ASSOCIAZIONE
MARIO CAMPANACCI