DAY 1 OCTOBER 16th, 2019 (Wednesday afternoon)

Session 1: INTRODUCTION ON SEVERE BONE AND JOINT LOSS

13.30 Course admission

14.30 General approach to wide bone and joint loss

Lecture 10 Introduction: overview of different causes of bone and joint defects specific and common aspects in tumor, aseptic loosening, trauma and infection. D.M. DONATI

14.50 Tumor related defects

Lecture 2 Principles of bone and joint resection in limb salvage surgery: the concept of grading, staging, anatomic compartment and margins. The amount of bone and soft tissue to be resected/excision in relation to different diagnosis and sites (bone and soft tissue tumor). C. MORRIS

15.30 Prosthetic loosening related defects

Lecture 3 Aseptic loosening hip and knee prosthesis: with particular emphasis in discussing bone loss in the metaphysis, epiphysis and diaphysis. Physiological and excessive bone resorption pathology (pseudotumor lesions). E.L. STAALS

15.50 Infection related defects

Lecture 4 Infection after prosthetic replacement (diagnosis, one and two stage treatment). A. ZAHAR

16.00 Discussion

Coffee break

16.50 The use of new reconstructive materials

Lecture 5 Principles of bone banking, different available grafts, biology of allograft integration. D. M. DONATI

17.00 The use of massive bone allograft

Lecture 6 Generations on children with emphasis on the use of allograft as biological augmentation, for composite prostheses or provider for future bone sparing solutions M. MANFRINI

17.20 Wide bone loss in multiple revision surgery around the knee

Lecture 7 Different solutions in different megaprosthesis systems. The principle of modularity, feature related to: cemented or uncemented stems, type of articular replacement joint, different prosthetic surface treatment. M. DE PAOLIS

17.40 Wide bone loss in multiple revision surgery around the knee

Lecture 8 The definition of scaffold: the use of porous resorbable structures and porous metal (tantalum, titanium). D.M. DONATI

18.00 3D printing custom made prosthesis: Principle of custom made implants, protecting custom reconstruction. D.M. DONATI

18.30 Discussion

18.50 End of the day

DAY 2 OCTOBER 17th, 2019 (Thursday morning and afternoon)

Session 3: MANAGEMENT OF SEVERE BONE LOSS AROUND THE HIP

09.00 Tumor related acetabular defects

Lecture 10 Pelvic resections: surgical approach, resection classification, different type of reconstruction in different pelvic sites. Treatment of metastatic defects. D.M. DONATI

10.00 The use of modular mega prostheses

Lecture 11 Navigation surgery, robotics and new technologies. T. FRISONI

10.30 Public courtroom I reconstruction in tumor surgery. Relive surgery

10.50 Prosthetic loosening in children

Lecture 12 Reconstruction of the proximal femur in tumor surgery. E. L. STAALS

11.00 Modular systems (including metastasis related prosthesis) with particular emphasis on different type of stems in proximal femur reconstruction. Allograft prosthetic composite and the problem of soft tissue attachment. Extrarticular proximal femur resections. Treatment of metastatic defects. G. BIANCHI

11.30 Discussion

Coffee break

11.50 Multiple revision acetabular defects


12.20 Pelvic custom reconstruction in multiple revision surgery. Relive surgery

12.30 Discussion

Lunch break

13.30 Around the knee major reconstruction in tumor surgery

Lecture 14 Around the knee major reconstruction in tumor surgery. C. MORRIS

14.00 Defect of the distal femur due to tumor surgery (surgical approach in different ages, type of diagnosis and tumor site). Stem surgical revision, total femur prosthesis, reconstruction options after extrarticular resection of the knee. C. MORRIS

14.30 Distal femur resection and reconstruction with OSS, Relive surgery

Lecture 15 Proximal tibia defects, the problem of patellar tendon reconstruction, rotation flaps coverage. Alllograft composite prosthesis. C. MORRIS

15.00 Wide bone loss in multiple revision surgery around the knee

Lecture 16 Classification, surgical approach, choice of prosthesis related to the deficiency treatment. C. ZORZI

15.30 Wide bone loss in multiple revision surgery around the knee

Lecture 17 The choice of the stem in different prosthetic configuration. Use of augments, cones, allografts and their integration with the surrounding bone. How to avoid loosening due to nosalional stress. C. ZORZI

16.00 Discussion

Coffee break

16.30 Treatment of knee prosthetic infection. Guidelines of diagnosis and cure (infectiology and surgery). A. ZAHAR

16.50 Course dinner

17.30 Discussion based on cases provided by attendees.

18.30 End of the day

20.00 Course drawn

DAY 3 OCTOBER 18th, 2019 (Friday morning)

Session 5: THE TREATMENT OF BONE LOSS IN THE UPPER LIMB

08.30 Tumor related defect in the scapula and proximal humerus

Lecture 19 Proximal humerus resection and reconstruction including functional solutions such as osteoarticular reconstruction and reverse prosthesis. G. BIANCHI

09.30 Discussion

09.00 Tumor related defect in elbow and wrist.

Lecture 20 Modular prosthesis and APC in the elbow. M. DE PAOLIS

Lecture 21 Partial elbow reconstruction including osteoarticular allograft and arthrodesis. The management of the soft tissue. M. DE PAOLIS

10.00 Surgery in metastatic disease in the limb. L. CAMPANACCI

10.45 Discussion

Lunch break

10.00 TREATMENT OF WIDE BONE LOSS IN THE CHILDREN

Session 6: TREATMENT OF WIDE BONE LOSS IN THE CHILDREN

10.30 Treatment of intercalary defects

Lecture 22 Bone allograft application with or without free vascularized fibula transplant as joint saving method. M. MANFRINI

10.40 Treatment of osteoarticular defects

Lecture 23 ACPs, partial APC. L. CAMPANACCI

Lecture 24 Reverse modular system in the child. The problem of stem fixation in growing bones. Expandable prosthesis and elongation nail. M. MANFRINI

11.00 Discussion

11.00 Rotation plasty, proximal tibia reconstruction with children APC. Relive surgery

11.30 Discussion

12.00 End of the course