



# **FORTE Summer School Report**

Milan, 2<sup>nd</sup> July – 6<sup>th</sup> July 2018

Date: December, 2018

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## 1. BACKGROUND

As mobility of healthcare professionals increases among European countries, standardization of the quality of training becomes more important. Activities such as the European Educational Platform and the European Orthopaedic and Trauma Board (EBOT) Exam are essential to guarantee the standards of Education. Although not yet mandatory, EBOT exam applicants are increasing every year, as trainees feel the need to accomplish an “European Certificate of high-quality education”.

Educational standards and learning opportunities are our most important objectives. European Summer/Winter Schools are already established in other medical specialties. We feel that the FORTE Summer School and the upcoming FORTE book series may provide a significant help to prepare for the EBOT Exam or the National Board Exam, to provide a mid-term review or make a general review to the starting resident in Orthopaedics and Trauma. The current report sums all the contents, social activities and feedback related to the FORTE Summer School 2018. We also provide future directions and recommendations to guide future editions.

## 2. PURPOSE

FORTE Summer School intends to be an accessible educational opportunity for all European trainees, during any stage of their progression through residency.

One **main goal** is to **aid the preparation for the EBOT exam**. The Exam Preparation Course (EPC) is tailored to this purpose and was destined to trainees in the last years of residency. The **other goal** is to provide an **opportunity to make general review**, in the Comprehensive Review Course (CRC). This course covers all the basics and is open to all trainees.

The schedule is thought to enable time for study and most importantly, an environment and setting that enables informal exchange of clinical and training experiences, case discussions and strong network between participants and faculty.

### 3. THE EVENT

#### 3.1 GENERAL OVERVIEW

Monday		Tuesday		Wednesday		Thursday		Friday	
CRC Basic Science	EPC Basic Science	CRC Paediatrics	EPC Paediatrics	CRC Hip	EPC Hip	CRC Shoulder & Elbow	EPC Shoulder & Elbow	CRC Foot & Ankle	EPC Foot & Ankle
<b>COFFEE BREAK</b>									
CRC Basic Science	EPC Basic Science	CRC Spine	EPC Spine	CRC Hip	EPC Hip	CRC Shoulder & Elbow	EPC Shoulder & Elbow	CRC Tumours	EPC Tumours
<b>LUNCH</b>									
CRC Paediatrics	EPC Paediatrics	CRC Spine	EPC Spine	CRC Wrist & Hand	EPC Wrist & Hand	CRC Knee	EPC Knee		
<b>COFFEE BREAK</b>									
CRC Paediatrics	EPC Paediatrics			CRC Wrist & Hand	EPC Wrist & Hand	CRC Knee	EPC Knee		

EPC – Exam Preparation Course (**Case Based Discussion**)

CRC – Comprehensive Review Course (**Comprehensive Lecture**)

##### 3.1.1 COURSES CONTENT

From Monday to Friday, both courses ran independently and in parallel, with a 4-hour block in the morning (9 am - 13 pm) and 2 ½ hours in the afternoon (14 - 16.30 pm).

The **Exam Preparation Course** (advanced) review modules provided learning with emphasis in case discussions and MCQ group responses. Discussion and interaction are a cornerstone of this course. Basic knowledge is assumed to be acquired at this stage, thus discussion is focused in advanced topics.

The **Comprehensive Review Course** (basic) provided topic reviews through expert lectures, covering the basics.

All the major modules were taught: **Basic Science** occupied the first morning, **Spine** was held in Monday afternoon and the following morning, **Upper** and **Lower Limb** occupied one and a half days each, and **Children & Tumours** the last day. Detail topics, faculty and timing can be accessed in Appendix I – Final Program.

## 3.2 DETAILED PROGRAM

### Day 1, Morning July 2nd, Basic Science

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
9:15-10:45 Basic Science I		9:15-10:45 Basic Science I	
<b>Welcome Greetings from the Authorities (ROOM 1)</b>			
Imaging and Special Studies <i>Giuseppe Peretti IT)</i>	09:30	Basics of Bone Tissue, Ligament & Tendon <i>Michael Whitehouse (UK)</i>	09:30
Biomaterials and Biomechanics <i>Giuseppe Peretti IT)</i>	09:45	Articular Tissue and Osteoarthritis <i>Marko Ostojic (BIH)</i>	09:45
Trauma I (Basic Principles) <i>Marko Ostojic (BIH)</i>	10:00	Basics of Nerve and Muscle <i>Michael Whitehouse (UK)</i>	10:00
Interpreting and Implementing Evidence <i>Michael Whitehouse (UK)</i>	10:15	Cellular and Molecular Biology and Genetics <i>Giuseppe Peretti IT)</i>	10:15
Trauma II (Advanced Principles) <i>Marko Ostojic (BIH)</i>	10:30	Orthopaedic Infections and Microbiology <i>Enrique Gomez Barrena (ES)</i>	10:30
Basics of Bone Tissue, Ligament & Tendon <i>Michael Whitehouse (UK)</i>	10:45	Perioperative Problems <i>Enrique Gomez Barrena (ES)</i>	10:45
<b>COFFEE BREAK (11-11:15)</b>			
11:15-12:15 Basic Science II		11:15-12:15 Basic Science II	
Articular Tissue and Osteoarthritis <i>Marko Ostojic (BIH)</i>	11:15	Imaging and Special Studies <i>Giuseppe Peretti IT)</i>	11:15
Basics of Nerve and Muscle <i>Michael Whitehouse (UK)</i>	11:30	Biomaterials and Biomechanics <i>Giuseppe Peretti IT)</i>	11:30
Cellular and Molecular Biology and Genetics <i>Giuseppe Peretti IT)</i>	11:45	Trauma I (Basic Principles) <i>Marko Ostojic (BIH)</i>	11:45
Orthopaedic Infections and Microbiology <i>Enrique Gomez Barrena (ES)</i>	12:00	Interpreting and Implementing Evidence <i>Michael Whitehouse (UK)</i>	12:00
Perioperative Problems <i>Enrique Gomez Barrena (ES)</i>	12:15	Trauma II (Advanced Principles) <i>Marko Ostojic (BIH)</i>	12:15
<b>LUNCH AND EXHIBITION (12:30-13:30)</b>			

Day 1, Afternoon July 2nd, Paediatrics

<b>COMPREHENSIVE REVIEW COURSE   ROOM 1</b>	
<b>13:30-14:45 Paediatrics I</b>	
Bone Biology, Fracture Classification and Treatment Principles in Children <i>David Farrington (ES)</i>	13:30
Proximal & Humerus Shaft Fractures <i>Federico Canavese (FR)</i>	13:45
Elbow and Forearm Fractures <i>David Farrington (ES)</i>	14:00
Wrist and Hand Fractures <i>Antonio Andreacchio (IT)</i>	14:15
Pelvis, Femur and Knee Fractures <i>Manuel Cassiano Neves (PT)</i>	14:30

<b>EXAM PREPARATION COURSE   ROOM 2</b>	
<b>13:30-14:45 Paediatrics I</b>	
Tibia and Ankle Fractures <i>Federico Canavese (FR)</i>	13:30
Pelvis Femur and Knee Fractures <i>Manuel Cassiano Neves (PT)</i>	13:45
Proximal & Humerus Shaft Fractures <i>Federico Canavese (FR)</i>	14:00
Elbow and Forearm Fractures <i>David Farrington (ES)</i>	14:15
Wrist and Hand Fractures <i>Antonio Andreacchio (IT)</i>	14:30

**COFFEE BREAK (14:45-15:00)**

<b>15:00-16:15 Paediatrics II</b>	
Tibia and Ankle Fractures <i>Federico Canavese (FR)</i>	15:00
History and Exam in Paediatric Orthopaedics <i>Antonio Andreacchio (IT)</i>	15:15
Common Upper Extremity Disorders: Brachial Plexus Palsy, Syndactily and other Congenital Malformations <i>David Farrington (ES)</i>	15:30
Screening, Diagnosis and Treatment Principles of DDH <i>Manuel Cassiano Neves (PT)</i>	15:45
Diagnosis and Treatment Principles of SCFE and Legg-Perthes-Calvé Disease <i>Antonio Andreacchio (IT)</i>	16:00

<b>15:00-16:15 Paediatrics II</b>	
Bone Biology, Fracture Classification and Treatment Principles in Children <i>David Farrington (ES)</i>	15:00
Clubfoot and Pes Planovages <i>Manuel Cassiano Neves (PT)</i>	15:15
Spine, Hip and Foot in Neuromuscular Conditions <i>Federico Canavese (FR)</i>	15:30
Common Upper Extremity Disorders: Brachial Plexus Palsy, Syndactily and other Congenital Malformations <i>David Farrington (ES)</i>	15:45
Screening, Diagnosis and Treatment Principles of DDH <i>Manuel Cassiano Neves (PT)</i>	16:00

**EVENING ACTIVITIES / STUDY TIME**

Day 2, Morning July 3rd, Paediatrics & Spine

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
9:00-10:00 Paediatrics III		9:00-10:00 Paediatrics III	
Common Knee Disorders: Genu Varum/Valgum, Osteochondrosis, Patellar Instability and Dislocation <i>David Farrington (ES)</i>	09:00	History and Exam in Paediatric Orthopaedics <i>Antonio Andreacchio (IT)</i>	09:00
Clubfoot and Pes Planovagus <i>Manuel Cassiano Neves (PT)</i>	09:15	Common Knee Disorders: Genu Varum/Valgum, Osteochondrosis, Patellar Instability and Dislocation <i>David Farrington (ES)</i>	09:15
Spine, Hip and Foot in Neuromuscular Conditions <i>Federico Canavese (FR)</i>	09:30	LLD and Deformity Correction <i>Manuel Cassiano Neves (PT)</i>	09:30
LLD and Deformity Correction <i>Manuel Cassiano Neves (PT)</i>	09:45	Diagnosis and Treatment Principles of SCFE and Legg-Perthes-Calvé Disease <i>Antonio Andreacchio (IT)</i>	09:45
<b>COFFEE BREAK (10:00-10:15)</b>			
10:15-12:35 Spine I		10:15-12:35 Spine I	
Imaging in Pediatric Deformities (Case Based Discussion) <i>Alberto Zerbi (IT)</i>	10:15	Careful Examination of the Spine (Practical Skills) <i>Serdar Kahraman (TR)</i>	10:15
Adolescent Idiopathic Scoliosis (Didactic Lecture) <i>Alessio Lovi (IT)</i>	10:40	Radicular pain (Didactic Lecture) <i>Serdar Kahraman (TR)</i>	10:35
Spondylolisthesis and Osteochondrosis of the Spine (Case Based Discussion) <i>Alessio Lovi (IT)</i>	11:00	Thoracolumbar Trauma (Case Based Discussion) <i>Mirza Biscevic (BIH)</i>	10:55
Acute cord injury and chronic compression; epidemiology and avoiding complications (Didactic Lecture) <i>Mirza Biscevic (BIH)</i>	11:20	Unstable cervical spine injury with neurology (Case Based Discussion) <i>Serdar Kahraman (TR)</i>	11:15
Spinal deformity in adults (Case based discussion) <i>Alessio Lovi (IT)</i>	11:40	Differential Diagnosis of Neoplastic, Infectious and Degenerative Spine Disorders (Case Based Discussion) <i>Alberto Zerbi (IT)</i>	11:35
Operative complications (Case Based Discussion) <i>Alessio Lovi (IT)</i>	12:05	Neoplastic and Infectious cord compression (Case based Discussion) <i>Mirza Biscevic (BIH)</i>	11:55
		Cervical Myelopathy (Didactic Lecture) <i>Serdar Kahraman (TR)</i>	12:15
<b>LUNCH AND EXHIBITION (12:35-13:50)</b>			

Day 2, Afternoon July 3rd, Spine

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
13:50-16:10 Spine II		13:50-16:10 Spine II	
Careful Examination of the Spine (Practical Skills) <i>Serdar Kahraman (TR)</i>	13:50	Imaging in Pediatric Deformities (Case Based Discussion) <i>Alberto Zerbi (IT)</i>	13:50
Radicular pain (Didactic Lecture) <i>Serdar Kahraman (TR)</i>	14:10	Adolescent Idiopathic Scoliosis (Didactic Lecture) <i>Alessio Lovi (IT)</i>	14:15
Thoracolumbar Trauma (Case Based Discussion) <i>Mirza Biscevic (BIH)</i>	14:30	Spondylolisthesis and Osteochondrosis of the Spine (Case Based Discussion) <i>Alessio Lovi (IT)</i>	14:35
Unstable cervical spine injury with neurology (Case Based Discussion) <i>Serdar Kahraman (TR)</i>	14:50	Acute cord injury and chronic compression; epidemiology and avoiding complications (Didactic Lecture) <i>Mirza Biscevic (BIH)</i>	14:55
Differential Diagnosis of Neoplastic, Infectious and Degenerative Spine Disorders (Case Based Discussion) <i>Alberto Zerbi (IT)</i>	15:10	Spinal deformity in adults (Case based discussion) <i>Alessio Lovi (IT)</i>	15:15
Neoplastic and Infectious cord compression (Case based Discussion) <i>Mirza Biscevic (BIH)</i>	15:30	Operative complications (Case Based Discussion) <i>Alessio Lovi (IT)</i>	15:40
Cervical Myelopathy (Didactic Lecture) <i>Serdar Kahraman (TR)</i>	15:50		

**EVENING ACTIVITIES / STUDY TIME**



Day 3, Morning July 4th, Hip

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
9:00-10:30 Hip I		9:00-10:30 Hip I	
Pelvis/Hip Anatomy & Biomechanics	09:00	Primary THA	09:00
<i>Daniel Ryan (UK)</i>		<i>Luigi Zagra (IT)</i>	
Pelvis/Hip Physical Exam & Imaging	09:15	Hip Joint Preserving Surgery	09:15
<i>Daniel Ryan (UK)</i>		<i>Klaus-Peter Günther (DE)</i>	
Pelvic and Acetabular Fractures	09:30	Revision THA	09:30
<i>Daniel Ryan (UK)</i>		<i>Klaus-Peter Günther (DE)</i>	
Hip Dislocations and Head Fractures	09:45	Hip and THA Infection	09:45
<i>Stamatios Papadakis (GR)</i>		<i>Klaus-Peter Günther (DE)</i>	
Proximal Femoral Fractures	10:00	THA Periprosthetic Fractures & Dislocations	10:00
<i>Stamatios Papadakis (GR)</i>		<i>Luigi Zagra (IT)</i>	
Femoral Shaft & Distal Femoral Fractures	10:15	Pelvis/Hip Anatomy & Biomechanics	10:15
<i>Stamatios Papadakis (GR)</i>		<i>Daniel Ryan (UK)</i>	

**COFFEE BREAK (10:30-10:45)**

10:45-12:00 Hip II		10:45-12:00 Hip II	
Primary THA	10:45	Pelvis/Hip Physical Exam & Imaging	10:45
<i>Luigi Zagra (IT)</i>		<i>Daniel Ryan (UK)</i>	
Hip Joint Preserving Surgery	11:00	Pelvic and Acetabular Fractures	11:00
<i>Klaus-Peter Günther (DE)</i>		<i>Daniel Ryan (UK)</i>	
Revision THA	11:15	Hip Dislocations and Head Fractures	11:15
<i>Klaus-Peter Günther (DE)</i>		<i>Stamatios Papadakis (GR)</i>	
Hip and THA Infection	11:30	Proximal Femoral Fractures	11:30
<i>Klaus-Peter Günther (DE)</i>		<i>Stamatios Papadakis (GR)</i>	
THA Periprosthetic Fractures & Dislocations	11:45	Femoral Shaft & Distal Femoral Fractures	11:45
<i>Luigi Zagra (IT)</i>		<i>Stamatios Papadakis (GR)</i>	

**LUNCH AND EXHIBITION (12:00-13:15)**

Day 3, Afternoon July 4th, Wrist & Hand

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
13:15-15:00 Wrist and Hand I		13:15-15:00 Wrist and Hand I	
Wrist Trauma	13:15	Anatomy of Hand and Wrist; Degenerative Conditions	13:15
<i>Alex Lluch (ES)</i>		<i>Max Haerle (DE)</i>	
Hand Trauma	14:00	Extensor & Flexor Tendon Conditions; Hand Deformities	14:00
<i>Alex Lluch (ES)</i>		<i>Max Haerle (DE)</i>	
Nerve Compression Syndromes	14:30	Tendon and Ligament Acute Injuries	14:30
<i>Alex Lluch (ES)</i>		<i>Max Haerle (DE)</i>	

**COFFEE BREAK (15:00-15:15)**

15:15-16:45 Wrist and Hand II		15:15-16:45 Wrist and Hand II	
Anatomy of Hand and Wrist; Degenerative Conditions	15:15	Wrist Trauma	15:15
<i>Max Haerle (DE)</i>		<i>Alex Lluch (ES)</i>	
Extensor & Flexor Tendon Conditions; Hand Deformities	16:00	Hand Trauma	16:00
<i>Max Haerle (DE)</i>		<i>Alex Lluch (ES)</i>	
Tendon and Ligament Acute Injuries	16:30	Nerve Compression Syndromes	16:30
<i>Max Haerle (DE)</i>		<i>Alex Lluch (ES)</i>	

**EVENING ACTIVITIES / STUDY TIME**

## Day 4, Morning July 5th, Shoulder & Elbow

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
9:00-10:45 Shoulder and Elbow I		9:00-10:45 Shoulder and Elbow I	
Anatomy & Biomechanics Luc Favard (FR)	09:00	Clinical case presentation: lateral elbow pain	09:00
Physical Exam & Imaging Luc Favard (FR)	09:20	Non-traumatic elbow pathologies Alessandro Castagna (IT)	09:05
SC & AC joint disorders Luc Favard (FR)	09:35	Surgical anatomy and approaches in the treatment of elbow fracture Alessandro Castagna (IT)	09:15
Clavicle, scapula and glenoid fractures Antonio Cartucho (PT)	09:50	Clinical case presentation: elbow dislocation and instability	09:25
Proximal humerus fractures Antonio Cartucho (PT)	10:10	The post-traumatic elbow Alessandro Castagna (IT)	09:30
Fractures of the humeral shaft Antonio Cartucho (PT)	10:25	Clinical case presentation: shoulder instability	09:40
Distal humerus and olecranon fractures Antonio Cartucho (PT)	10:35	Shoulder instability Alessandro Castagna (IT)	09:45
		Biceps tendon pathology Alessandro Castagna (IT)	09:55
		Clinical case presentation: rotator cuff tear	10:05
		Rotator cuff pathology Luc Favard (FR)	10:10
		Surgical anatomy and approaches in the treatment of scapular, glenoid and clavicular fractures Luc Favard (FR)	10:20
		Clinical case presentation: AC joint	10:30
		SC & AC joint disorders Luc Favard (FR)	10:35

COFFEE BREAK (10:45-11:00)

## Day 4, Morning July 5th, Shoulder & Elbow II

11:00-12:00 Shoulder and Elbow II		11:00-12:00 Shoulder and Elbow II	
Elbow dislocations, radial head and coronoid fractures Alessandro Castagna (IT)	11:00	Surgical anatomy and approaches in the treatment of proximal humerus and humeral shaft fractures Luc Favard (FR)	11:00
Rotator cuff and long head of the biceps pathology Alessandro Castagna (IT)	11:20	Clinical case presentation: shoulder trauma 1	11:10
Shoulder instability and shoulder stiffness Alessandro Castagna (IT)	11:35	Clavicle, scapula and proximal humerus fractures Antonio Cartucho (PT)	11:15
Glenohumeral arthritis and arthroplasty Alessandro Castagna (IT)	11:50	Clinical case presentation: shoulder trauma 2	11:30
		Glenohumeral arthritis and arthroplasty Antonio Cartucho (PT)	11:35
		Clinical case presentation: humeral shaft fracture	11:45
		Fractures of the humeral shaft Antonio Cartucho (PT)	11:50

LUNCH AND EXHIBITION (12:00-13:15)

Day 4. Afternoon July 5th. Knee

COMPREHENSIVE REVIEW COURSE   ROOM 1		EXAM PREPARATION COURSE   ROOM 2	
13:00-14:45 Knee I		13:00-14:45 Knee I	
Cartilage and Meniscal Injuries	13:15	Knee Anatomy & Biomechanics	13:15
<i>Maurilio Marcacci (IT)</i>		<i>Maurilio Marcacci (IT)</i>	
Ligament injuries	13:30	Knee Physical Exam & Imaging	13:30
<i>Francesco Benazzo (IT)</i>		<i>Charles Riviere (FR)</i>	
Knee Joint Preserving Surgery	13:45	Knee Dislocations & Patella Fractures	13:45
<i>Maurilio Marcacci (IT)</i>		<i>Francesco Benazzo (IT)</i>	
Extensor Mechanism Conditions & Patellofemoral Instability	14:00	Tibial Plateau Fractures	14:00
<i>Francesco Benazzo (IT)</i>		<i>George Macheras (GR)</i>	
Knee Anatomy & Biomechanics	14:15	Primary TKA	14:15
<i>Maurilio Marcacci (IT)</i>		<i>Charles Riviere (FR)</i>	
Knee Physical Exam & Imaging	14:30	Revision TKA	14:30
<i>Charles Riviere (FR)</i>		<i>George Macheras (GR)</i>	
Knee Dislocations & Patella Fractures	14:45	Periprosthetic Fractures of TKA	14:45
<i>Francesco Benazzo (IT)</i>		<i>George Macheras (GR)</i>	
<b>COFFEE BREAK (15:00-15:15)</b>			
15:15-16:15 Knee II		15:15-16:15 Knee II	
Tibial Plateau Fractures	15:15	Cartilage and Meniscal Injuries	15:15
<i>George Macheras (GR)</i>		<i>Maurilio Marcacci (IT)</i>	
Primary TKA	15:30	Ligament Injuries	15:30
<i>Charles Riviere (FR)</i>		<i>Francesco Benazzo (IT)</i>	
Revision TKA	15:45	Knee Joint Preserving Surgery	15:45
<i>George Macheras (GR)</i>		<i>Maurilio Marcacci (IT)</i>	
Periprosthetic Fractures of TKA	16:00	Extensor Mechanism Conditions & Patellofemoral Instability	16:00
<i>George Macheras (GR)</i>		<i>Francesco Benazzo (IT)</i>	
<b>EVENING ACTIVITIES / STUDY TIME</b>			

## Day 5, Morning July 6th, Foot & Ankle

COMPREHENSIVE REVIEW COURSE   ROOM 1 10:00-12:00 Foot & Ankle		EXAM PREPARATION COURSE   ROOM 2 10:00-12:00 Foot & Ankle	
Anatomy and Biomechanics	10:00	Pilon Fractures	10:00
<i>Beat Hintermann (CH)</i>		<i>Ash Ali (UK)</i>	
Calcaneal and Talar fractures	10:15	Ankle Fractures	10:15
<i>Beat Hintermann (CH)</i>		<i>Niek van Dijk (NL)</i>	
Tibial Shaft Fractures	10:30	Ankle Instability	10:30
<i>Ash Ali (UK)</i>		<i>Niek van Dijk (NL)</i>	
First and Lesser Ray Disorders	10:45	Arthritis	10:45
<i>Ash Ali (UK)</i>		<i>Beat Hintermann (CH)</i>	
<b>DISCUSSION &amp; CASES</b>	11:00	<b>DISCUSSION &amp; CASES</b>	11:00
Ankle Fractures	11:15	Flatfoot	11:15
<i>Niek van Dijk (NL)</i>		<i>Beat Hintermann (CH)</i>	
Tendon Disorders	11:30	First and Lesser Ray Disorders	11:30
<i>Niek van Dijk (NL)</i>		<i>Ash Ali (UK)</i>	
<b>DISCUSSION &amp; CASES</b>	11:45	<b>DISCUSSION &amp; CASES</b>	11:45
<b>COFFEE BREAK (12:00-12:15)</b>			
12:15-14:00 Tumours		12:15-14:00 Tumours	
Overview of Orthopaedic Oncology and Principles of Treatment	12:15	Metastatic Disease in Orthopaedics	12:15
<i>Pietro Ruggieri (IT)</i>		<i>Eduardo Ortiz Cruz (ES)</i>	
Benign & Malignant Bone Tumours	12:45	Benign & Malignant Soft Tissue Tumours	12:45
<i>Pietro Ruggieri (IT)</i>		<i>Eduardo Ortiz Cruz (ES)</i>	
Metastatic Disease in Orthopaedics	13:10	Overview of Orthopaedic Oncology and Principles of Treatment	13:10
<i>Eduardo Ortiz Cruz (ES)</i>		<i>Pietro Ruggieri (IT)</i>	
Benign & Malignant Soft Tissue Tumours	13:40	Benign & Malignant Bone Tumours	13:40
<i>Eduardo Ortiz Cruz (ES)</i>		<i>Pietro Ruggieri (IT)</i>	
<b>FINAL TOAST (14:00-15:00)</b>			

### 3.3 FACULTY

One of the key features to the School is the high level of scientific organization. Contents and faculty were developed with the partnership of all main European subspecialty societies, coordinated by FORTE:

#### Basic Science Faculty

##### Scientific support: EORS

- Giuseppe Peretti (IT)
- Enrique Gomez Barrera (ES)
- Michael Whitehouse (UK)
- Marko Ostojic (BIH)



## Paediatric Faculty

### Scientific support: EPOS

- Antonio Andreacchio (IT)
- Federico Canavese (FR)
- Manuel Cassiano Neves (PT)
- David Farrington (ES)



## Spine Faculty

### Scientific support: EUROSPINE

- Serdar Kahraman (TR)
- Alessio Lovi (IT)
- Alberto Zerbi (IT)
- Mirza Biscevic (BIH)



## Hip Faculty

### Scientific support: EHS

- Daniel Ryan (UK)
- Stamatios Papadakis (GR)
- Luigi Zagra (IT)
- Klaus-Peter Günther (DE)



## Wrist & Hand Faculty

### Scientific support: FESSH

- Max Haerle (DE)
- Alex Lluch (ES)



## Shoulder & Elbow Faculty

### Scientific support: SECEC

- Alessandro Castagna (IT)
- Antonio Cartucho (PT)
- Luc Favard (FR)



## Knee Faculty

### Scientific support: SIGASCOT and ESSKA

- Charles Riviere (FR)
- Maurilio Marcacci (IT)
- Francesco Benazzo (IT)
- George Macheras (GR)



## Foot and Ankle Faculty

### Scientific support: EFAS

- Beat Hintermann (CH)
- Ash Ali (UK)
- Niek van Dijk (NL)



## Tumours Faculty

### Scientific support: EMSOS

- Pietro Ruggieri (IT)
- Eduardo Ortiz Cruz (ES)



## 3.4 SPONSORS



### 3.5 SOCIAL PROGRAM

#### Monday, July 2nd

After the first day of Summer School, we had a pizza at the pizzeria Tuorlé that offered more than 100 different variations of pizza to satisfy and intrigue even the most demanding palates.



*Pizzeria Tuorlé*

#### Tuesday, July 3rd

On Tuesday we spent an evening at the H Club Diana, the place to be for an authentic Milanese aperitif in downtown Milan, located in a lovely green garden. A unique retreat in the center of Milan. The club is located in one of so-called "Milanese Movida" centers. Nearby are located Corso Buenos Aires, where large department stores and cheap clothing and shoe boutiques are, and Milan's Fashion District, where a large concentration of haute couture labels are.



*H Club Diana*

### Wednesday, July 4th

On Wednesday we had dinner at the restaurant Officina12 where the history of old Milan blends with an international contemporary touch. The cuisine is always in the pursuit of the highest quality and uses seasonal ingredients and local products. Officina12 is situated in the heart of the Navigli district, one of the most famous areas of Milan; charming and base of the Milan nightlife.



*Navigli District and Officina 12*

### Thursday, July 5th

Thursday evening, we had dinner at an old crystal glasswork fabric 'Cristallerie Livellara'. Nowadays this place, called 'Spirit de Milan', has become a dance floor, a theatre, a stage, a restaurant, a hangout and a new home for passions. In the bistro-restaurant you may find genuine and soothing homemade food, regional appetizers, chilled drinks and, most of all, good wine.



*Spirit De Milan*



## 3.6 VENUE

### 3.6.1 MILAN

Milan, with a population of 1.3 million people, is the capital of Lombardy and of the Italian fashion and design world and is the biggest industrial city of Italy.

Milan is a wealthy city of glamorous people and stylish shopping streets. It has always been a rich and important city with a particular assortment of churches, buildings and monuments. Among those the Cathedral “Duomo”, the Sforza Castle, The Teatro alla Scala and Leonardo da Vinci’s ‘Last Supper’.

Milan appears, at first glance, to be busy, rather severe and modern but it is actually friendly and one of the most ancient cities in Europe with more than 26 centuries of history and heritage.

### 3.6.2 CONGRESS VENUE

Humanitas University - Via Rita Levi Montalcini, 4 - Pieve Emanuele (MI)

Humanitas University, located beside the Humanitas Hospital, a highly specialized teaching and research hospital, is to train globally minded healthcare professionals through state-of-the-art interactive teaching methods and close integration with its clinical and research community. It aims at becoming an international reference for the education of physicians, nurses and researchers capable to cope with the future scientific, technological and social evolution.

The new Humanitas University Campus covers a total area of over 20.000 square meters with a last generation Simulation Center of about 1.000 sq. m, laboratories, classrooms for lectures and small groups, spaces for individual and group study and cafeteria and canteen.



*Humanitas University*

### 3.6.3 THE HOTEL

Golf Hotel Milano - Via Abruzzo snc - Opera (MI)

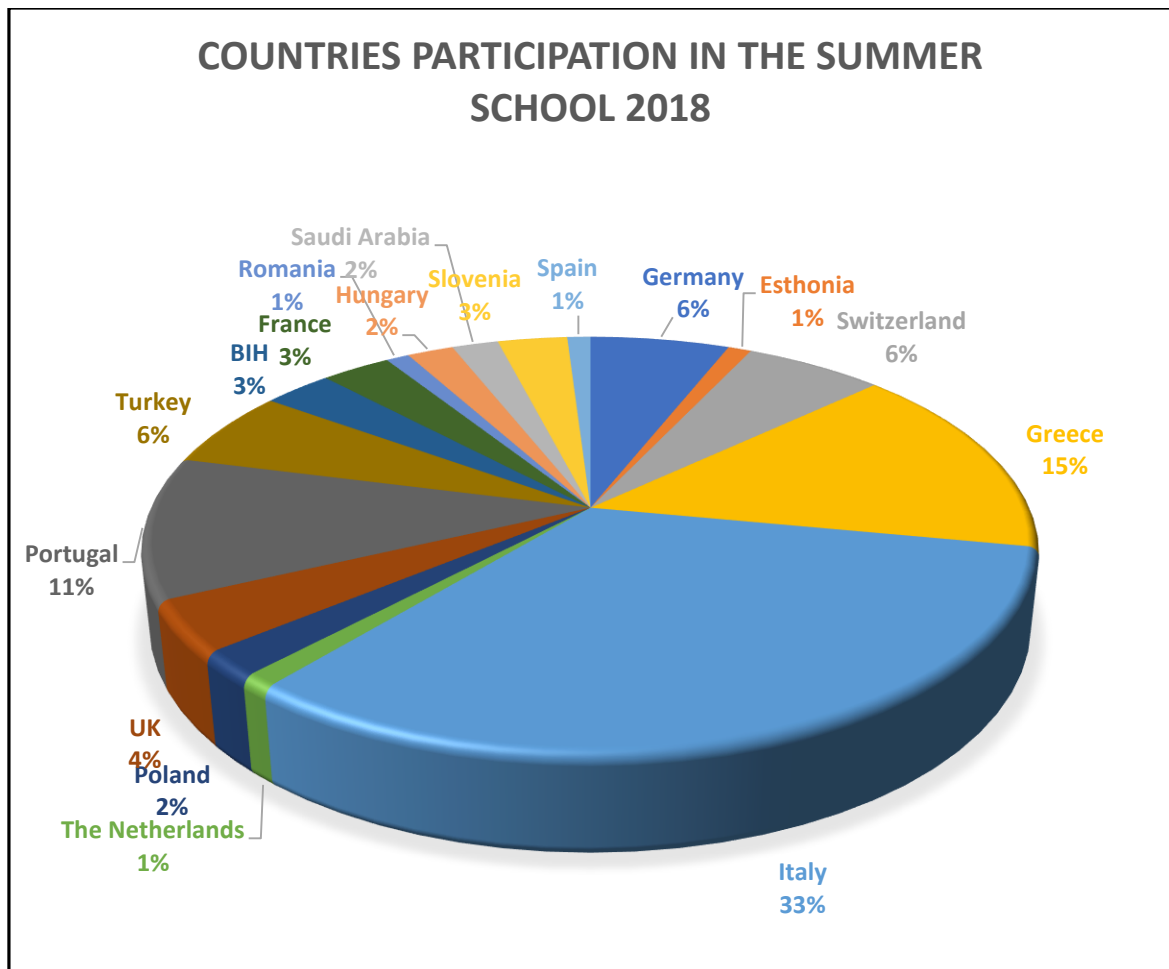
Golf Hotel Milano is strategically located; 10 minutes from Humanitas University, 15 minutes from Milan Linate and 15 minutes from downtown Milan. Among the common areas, all in a minimalist style and elegant with a touch of rustic to make its environment warmer, there are a breakfast room, a lounge bar that offers a space dedicated to happy hours, a sun-downer, a roof garden and an internet point to make your stay more comfortable.

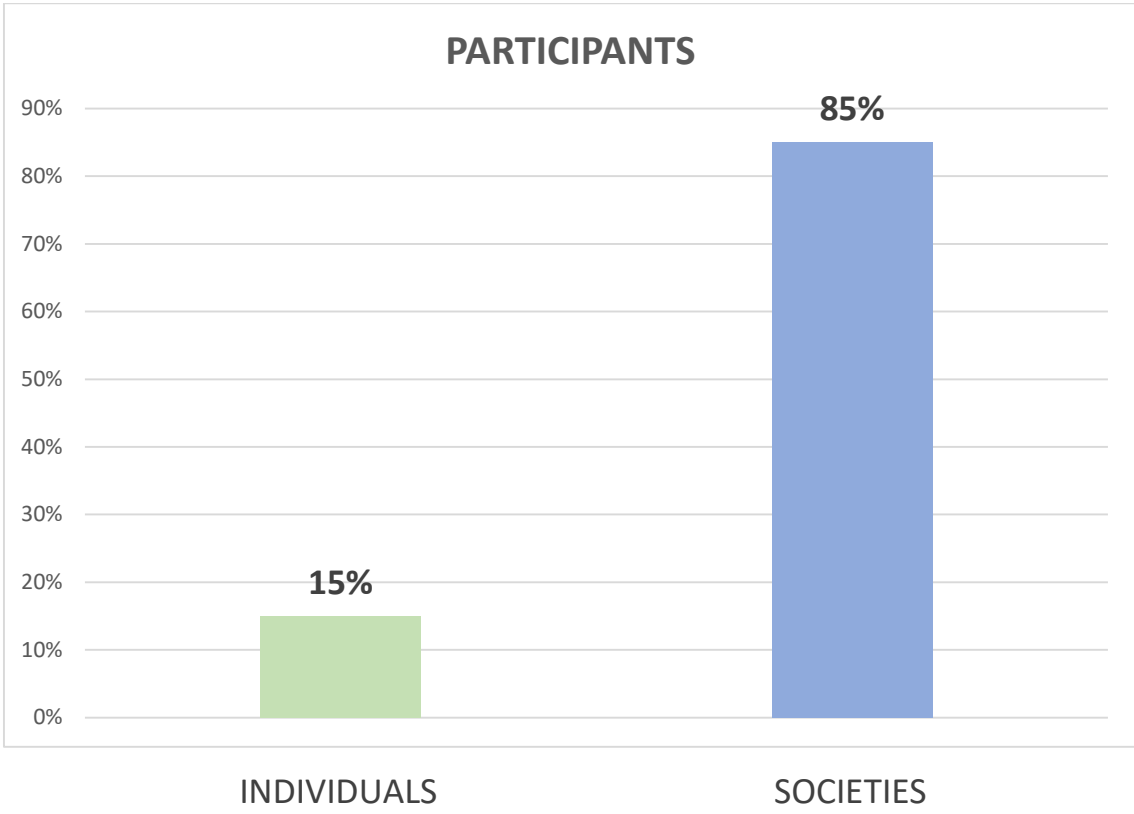


*Golf Hotel Milano*

## 4. ATTENDANCE

Germany 6%	Esthonia 1%
Switzerland 6%	Greece 15%
Italy 33%	Netherlands 1%
Poland 2%	UK 4%
Portugal 11%	Turkey 6%
BIH 3%	France 3%
Romania 1%	Hungary 2%
Saudi Arabia 2%	Slovenia 3%
Spain 1%	





## 5. FEEDBACK

### 5.1 PARTICIPANTS FEEDBACK

Overall, we collected 87 questionnaires from the participants (86,1%).

#### **MODULES**

Satisfaction (from 0 to 5) with courses was generally high in all modules (average: 4,2).

**Best rated** modules were:

- Wrist & Hand (4,6)
- Hip (4,5)
- Foot & Ankle (4,5)

**Less rated** modules were:

- Spine (3,3)
- Basic Science (3,8)

#### **SOCIAL PROGRAM**

General satisfaction with the social program was medium to high.

Closing dinner obtained the highest rating (4,4).

Monday dinner obtained lower satisfaction (3,2).

#### **VENUE, ACCOMODATION AND CATERING**

There was high satisfaction with the Course Room, Location (Humanitas) and Hotel Room (average 4).

Golf Hotel, transports and coffee break obtained an average rating of 3,5.

Lunch obtained the lowest classification (2,5).

Only three persons would not recommend the course. Seventy-nine persons would recommend the course (96,3%).

## **5.2 FACULTY FEEDBACK**

Overall, we collected 14 questionnaires from the faculty (42%), which was a significant improvement compared to last year (10%).

### **COURSES PROGRAM**

General opinion about the courses program was good.

The number of topics reputed a bit too long in 50% of feedback forms.

The time for discussion of each topic reputed a bit short in 50% of feedback forms and the modules length was perfect almost for everyone (85%).

### **ACCOMODATION AND CATERING**

General satisfaction with the accommodation and catering was very high. Transports and course rooms obtained the highest rating (4,3 and 4,5).

The location (Milan) obtained an average rating of 4,1.

Meals obtained the lowest classification (3,5), but several faculty members did not attend the dinners, therefore this might have jeopardized this data.

## 6. FINAL CONSIDERATIONS

FORTE believes Summer School is a major advancement in the Education of Orthopaedics and Traumatology in Europe. Every year it overcomes our expectations! We are happy to say that the third edition of the European Orthopaedic Summer School in Milan was a huge success. We have hosted courses of very high quality, gathering an amazing group of renowned experts sent by different European Societies, from which participants took profit, learning and networking with endless enthusiasm and great spirit. Trainees feedback was great, while most of them were willing to participate in the next edition. Similarly, faculty loved the format. We are convinced that it was an enriching and fulfilling experience for all participants.

We hope to see you again next year!