2019
International Calendar

“30 years of excellence in medical education designed around surgeons’ need”
Comprehensive educational pathway based on high level scientific content that fulfils the latest educational requirements of international HCPs through worldwide, experienced and widely respected faculty.

Orthofix Medical Education offers the opportunity to build a customized medical training (in Trauma, Foot & Ankle, Limb Reconstruction and Pediatrics), giving the opportunity to share medical science and build constructive long-lasting networks.

Orthofix’s progressive learning pathway consists of three levels of courses, each with well-defined learning objectives and selection criteria for delegates. It includes interactive didactic lectures, comprehensive lab sessions (dry and wet), extensive case review and moderator-led peer discussion – all intended to provide an extensive base of knowledge.

Complete educational pathway for each of the strategic specialties

L1
Trauma
Fundamentals of External Fixation

Foot & Ankle
Fundamentals of External Fixation

Limb Reconstruction
Fundamentals of External Fixation

Pediatrics
Fundamentals of External Fixation

Pediatrics Trauma Surgery

L2
Operative Fragility Fracture Management

High Energy Fracture Management

Foot & Ankle Trauma and Elective Surgery

Complex Deformity Corrections

Pediatrics Trauma and Elective Surgery

L3
Trauma Masterclass
Mass Casualty Preparedness and Management

Charcot Foot and Ankle Masterclass

Pediatrics Masterclass

Charcot Foot and Ankle Masterclass

HBO programs are comprised of theatre case participation, wet and dry lab workshops, clinic visits and lectures. Learning objectives are to master and to replicate independently clinical protocols and surgical techniques experienced during the observership. These courses are designed for experienced surgeons in the specific field of the HBO.
Orthofix Academy includes face-to-face and remote courses. It embraces orthopedic disciplines of both Trauma and Limb Reconstruction management and it includes specific learning pathways for professionals specialized in Trauma, Foot & Ankle, Limb Reconstruction and Pediatrics.

Contents and programs are designed to be easily translated into professional practice and they are frequently updated due to our commitment to a continuous improvement process.

LEVEL 1
Fundamentals courses provide an overview of the basic principles of bone fixation. They are focused on safe corridors and safe insertion techniques of both pins and wires, as well as on temporary and definitive fracture fixation with various external fixation devices.

LEVEL 2
These courses are focused on specific orthopaedic specialties: Trauma, Foot & Ankle, Limb Reconstruction and Pediatrics. These classes are geared towards specialists early or intermediate in their career who are interested in furthering their expertise and surgical skills.

LEVEL 3
Masterclasses are dedicated to senior surgeons. These meetings provide the opportunity to debate and discuss current concepts, controversies and approaches for the most complex orthopedic diseases and unique challenging cases.

HBO
HBO programs are comprised of theatre case participation, wet and dry lab workshops, clinic visits and lectures. Learning objectives are to master and to replicate independently clinical protocols and surgical techniques experienced during the observership. These courses are designed for experienced surgeons in the specific field of the HBO.
Fundamentals of External Fixation

**DATE**
February 27 - March 1
December 11-13

**DURATION**
2.5 days

**VENUE**
Orthofix Education Centre and ICLO Anatomical Laboratory, Verona, Italy

**MAIN TOPICS**
- Safe corridors, safe and appropriate wire and bone screw insertion techniques
- Principles of stable external fixation
- DCO (Damage Control Orthopaedics) with both pin-to-bar and circular fixators, with a specific focus on pelvis and lower limb
- Definitive external fixation with both monolateral and circular fixators, with a specific focus on the lower limb
- Post-operative management of external fixation
- Troubleshooting and case discussion

**PRODUCTS**
- XCaliber Fixation System™
- Galaxy Fixation™ System
- Galaxy UNYCO™ Tibia Trauma
- TL-HEX TrueLok Hexapod System

**LEARNING OBJECTIVES**
- To learn the concepts of stability and their influence on bone healing, and how to apply implants to achieve appropriate bone stabilization
- To comprehend the principles of damage control surgery and plan the initial treatment of the severely injured patient
- To treat pelvic, diaphyseal and simple peri-articular fractures using different application techniques

**PARTICIPANT PROFILE**
- Residents and registrars in orthopedic and trauma surgery
- Orthopedic and trauma surgeons including those who are early in their career
- Orthopedic and trauma surgeons with limited experience with external fixation devices
- Surgeons who want to acquire or refresh their knowledge on principles of fracture stabilization using external fixation and to improve their independence in clinical practice
Operative Fragility Fracture Management

**DATE**
March 25-27

**DURATION**
2.5 days

**VENUE**
Orthofix Education Centre and ICLO Anatomical Laboratory, Verona, Italy

**MAIN TOPICS**
- Fragility fractures of the upper limb
- Fragility fractures of the lower limb
- Hip fracture treatment and management of their complications
- Decision making process and multidisciplinary approach of the peri-operative management of elderly patients
- Weight-bearing principles and rehabilitation
- Troubleshooting and case discussion
- Advanced Research Methods

**PRODUCTS**
- Galaxy Fixation™ System - Elbow and Shoulder
- Pennig Dynamic Wrist Fixator
- Radiolucent Wrist Fixator
- Chimaera Hip Fracture System™
- TL-HEX TrueLok Hexapod System® Trauma

**LEARNING OBJECTIVES**
- To become acquainted with the latest principles of multidisciplinary care in treating fragility fractures and orthogeriatric patients
- To learn and practice the surgical treatment techniques of the most common fragility fractures
- To consolidate knowledge of appropriate decision making process for surgical intervention in complex geriatric trauma situations

**PARTICIPANT PROFILE**
Orthopedic trauma surgeons with intermediate experience who want to improve their knowledge on fragility fractures treatment and geriatric patient management.
High Energy Fracture Management

DATE
July 1-3

DURATION
2.5 days

VENUE
Orthofix Education Centre and ICLO Anatomical Laboratory, Verona, Italy

MAIN TOPICS
- Anatomical specimen lab addressing fasciotomy, vascular shunts, skin grafts and flaps, wound debridement
- Complex articular fractures of the lower limb
- Open tibial and segmental fractures
- Complication management: infections, non-unions, mal-unions and amputations
- Post-traumatic deformity correction
- Troubleshooting and case discussion
- Advanced Research Methods

PRODUCTS
- Galaxy Fixation™ System
- Galaxy UNYCO™ Tibia
- TL-HEX TrueLok Hexapod System® Trauma

LEARNING OBJECTIVES
- To assess and manage complex diaphyseal, articular and peri-articular fractures
- To become familiar with advanced techniques for temporary and definitive external fixation in polytrauma and complex trauma settings
- To discuss and learn about relevant decision making process in complex trauma situations
- To manage trauma sequelae and problems with fracture healing

PARTICIPANT PROFILE
Orthopedic trauma surgeons with intermediate experience who want to improve their knowledge in complex fractures treatment and become familiar with complex injuries’ management.
Complex Deformity Corrections

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<tr>
<td>April 15-17</td>
<td>2.5 days</td>
<td>Orthofix Education Centre, Verona, Italy</td>
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### MAIN TOPICS

- Bone transport and lengthening
- Uni- and multi-planar deformities of the lower limb
- Blount’s disease
- Ankle Equinus
- Troubleshooting and case discussion
- Advanced Research Methods

### PRODUCTS

- LRS ADVanced®
- TrueLok
- TL-HEX TrueLok Hexapod System®

### LEARNING OBJECTIVES

- To assess limb alignment and length discrepancies
- To learn advanced principles of limb reconstruction, uni- and multi-planar deformities
- To analyze and discuss preoperative planning from correct x-ray acquisition to frame assembly and application
- To manage the most frequent and challenging post-traumatic and congenital deformities
- To consolidate knowledge of relevant surgical anatomy and techniques, including hardware and software management of a hexapod based circular external fixator
- To become effective at taking X-Ray images with which to use in hexapod planning
- To learn methods of using their X-ray images within the HEX-ray module to save time and plan their TL-HEX treatments more accurately

### PARTICIPANT PROFILE

Orthopedic trauma surgeons with intermediate experience who want to improve their knowledge on fragility fractures treatment and geriatric patient management.
DAY 1 & 2 | OCT 7-8
- Complex trauma of the upper and lower limb
- Mass casualty in pediatrics (TBC)
- Troubleshooting and case discussion
- Advanced Research Methods

DAY 3 & 4 | OCT 9-10
- Limb length discrepancy assessment and management
- Uni- and multi-planar deformities of the lower limb
- Blount’s disease
- Foot & Ankle deformities
- Distal femoral valgus

LEARNING OBJECTIVES
- To give in depth knowledge of all different treatment options for pediatric trauma and deformity correction, from internal to external fixation, hardware and software management of a hexapod based circular external fixator
- To independently plan a treatment pathway for trauma and deformity correction cases with different orthopedic devices
- To analyze and discuss preoperative planning, from correct x-ray acquisition to frame assembly and application
- To be acquainted with major treatment complications, their prevention and appropriate management

PARTICIPANT PROFILE
Pediatric orthopedic and trauma surgeons, or general orthopedic and trauma surgeons with intermediate experience who want to improve knowledge and become familiar with deformity correction techniques and traumatic bone injuries in pediatric patients.
**F&A Trauma and Elective Surgery**

**DATE**
November 18-21

**DURATION**
2 days (one module only)  
4 days (complete course)

**VENUE**
Orthofix Education Centre and ICLO Anatomical Laboratory, Verona, Italy

**MAIN TOPICS**

**DAY 1 & 2 | NOV 18-19**
- Complex pilon fractures
- Fractures of the hindfoot and calcaneus
- Fractures of the midfoot and the forefoot
- Fracture Management in diabetic patients
- Troubleshooting and case discussion
- Advanced Research Methods

**DAY 3 & 4 | NOV 20-21**
- Small joint arthrodesis
- F&A reconstruction: distal tibia valgus and equinus foot
- Charcot disease overview and management
- Charcot Foot deformity correction

**PRODUCTS**
- Galaxy Fixation™ System
- TL-HEX TrueLok Hexapod System® Trauma
- Calcaneal Minifixator
- MiniRail System
- Pennig Minifixator
- RIVAL™

- AHN
- MiniRail System
- RIVAL™
- G-BEAM™
- TL-HEX TrueLok Hexapod System®

**LEARNING OBJECTIVES**
- To improve understanding and management abilities in foot and ankle trauma and deformity correction
- To become familiar with surgical skills in foot and ankle complex traumatic injuries
- To manage deformity correction cases in the foot and ankle anatomy: analyze and discuss preoperative planning, from correct x-ray acquisition to frame assembly and application

**PARTICIPANT PROFILE**
Orthopedic trauma surgeons and podiatrists with intermediate experience who want to improve their knowledge and become familiar with complex injuries and deformities of the foot and the ankle anatomical site.
Charcot Foot & Ankle Masterclass

DATE | DURATION | VENUE
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May 20-21 | 1.5 days | Orthofix Education Centre and ICLO Anatomical Laboratory, Verona, Italy

MAIN TOPICS

- Diabetes complications: osteomyelitis, wound management, blood perfusion
- Midfoot Charcot
- Ankle Charcot
- Off-loading frames
- Troubleshooting and case discussion
- Multidisciplinary approach for Charcot Foot and Ankle disease management
- Anatomical specimen lab addressing soft tissue management, as debridement and flaps

PRODUCTS

- AHN
- G-BEAM™
- Galaxy Fixation™ System
- TrueLok
- TL-HEX TrueLok Hexapod System®

LEARNING OBJECTIVES

- To become acquainted with a multidisciplinary treatment approach based on the recommendations of the Orthofix
- To master surgical skills on Charcot Foot treatment
- To discuss different and new treatment techniques of Charcot Foot and Ankle
- To share and discuss challenging and unique cases and examine the clinical evidence behind today’s surgical practice

PARTICIPANT PROFILE

Senior and experienced orthopedic surgeons and podiatrists with multiple years’ experience managing Neuropathic (Charcot) Foot and Ankle.
Pediatrics Masterclass

DATE
June 13-14

DURATION
1.5 days

VENUE
Orthofix Education Centre, Verona, Italy

MAIN TOPICS
- Limb lengthening: different techniques, complications and post-operative management
- Combined use of internal and external fixation for complex surgical procedures
- Foot & Ankle deformity corrections: Clubfoot

LEARNING OBJECTIVES
- To master different and new treatment techniques of pediatric complex trauma and deformity correction
- To share and discuss challenging and unique cases to agree on a treatment consensus
- To examine clinical evidence and surgical outcomes of today’s surgical practice

PRODUCTS
- Galaxy Fixation™ System
- TrueLok
- TL-HEX TrueLok Hexapod System®
- MJ-FLEX The New Metaizeau Nail™
- AGILE Nail™

PARTICIPANT PROFILE
Senior and experienced orthopedic and trauma surgeons with multiple years’ experience in pediatric trauma and deformity correction.
Trauma Masterclass

LEVEL 3 | TRAUMA

September 5-6
1.5 days
Orthofix Education Centre,
Verona, Italy

Lectures, workshops and cases & controversies:
• Non-union and mal-unions
• Infections
• Articular fractures of the lower limb

• Galaxy Fixation™ System
• XCaliber Fixation System™
• TL-HEX TrueLok Hexapod System®

Main Topics

LEARNING OBJECTIVES

• Engage in the controversies around complex fracture care and gain insight into the use of external fixation in an interactive course format
• Provide trauma surgeons with additional paradigms and skills to treat a wide range of fractures and complications confidently
• Develop the ability to evaluate, diagnose and prioritise treatment for the critically injured patient in order to decrease the incidence of complications and improve outcomes
• Analyse the critical elements in the decision and management of complex trauma and complications

PARTICIPANT PROFILE

Senior and experienced orthopedic and trauma surgeons.
# Mass Casualty Preparedness and Management Masterclass

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<td>October 28-29</td>
<td>1.5 days</td>
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## MAIN TOPICS

Lectures and discussions will address surgical practice in mass casualty incidents, ballistic and blast injuries, how wounds and fractures differ in these situations, resuscitation and damage control, anesthesia, emergency management, and logistics.

Lectures, discussions, workshops and simulations:
- Lesson learned from the European terrorist attacks
- Triage in mass casualty situations
- Treatment protocols in mass casualty: DCO
- Definitive treatment
- Sequelae
- How to get prepared to face a mass casualty incident

## LEARNING OBJECTIVES

- To understand the principles of mass casualty preparedness and disaster management, considering lessons learned from previous events
- To develop consensus guidelines on effective mass casualty preparedness planning and management
- To understand the differences between mass casualty trauma and civilian polytrauma injuries
- To consider the longer-term follow-up of mass-casualty patients and the management of their sequelae

## PARTICIPANT PROFILE

Key stakeholders, both clinical and managerial, involved in mass casualty planning and management from civilian healthcare organizations, and those interested in acquiring knowledge in this subject.
Hospital Based Observership programs

Some of these courses are comprised of theatre case participation, wet and dry lab workshops, clinic visits and lectures. Learning objectives are to master and to replicate independently clinical protocols and surgical techniques experienced during the observership. These courses are designed for experienced surgeons in the specific field of the HBO.

University Hospital Southampton NHS Trust, Southampton, U.K.
Faculty: Amir Qureshi  
Duration: 5 days  
Dates: 30 September - 4 October 2019  
Main Focus: Complex trauma and deformity correction mainly treated with circular external fixation devices

Klinikum Wetzlar, Wetzlar, Germany
Faculty: Thomas Gausepohl, Davide Blonna (TBC)  
Duration: 2 days  
Dates: 19-20 September 2019  
Main Focus: Surgical management of complex shoulder and elbow fractures and dislocations, acute joint stiffness, post-traumatic complications, post-operative management

University Hospital Tyberger, Cape Town, South Africa
Faculty: Nando Ferreira  
Duration: 5 days  
Dates: 4-8 Mar 2019 | 12-16 Aug 2019  
Main Focus: Complex trauma and deformity correction cases mainly treated with circular external fixation devices

Children Hospital, Toulouse University Hospital, Toulouse, France
Faculty: Franck Accadbled  
Duration: 1 day or 1.5 days  
Dates: 9-10 May | 3 Jun | 11-12 Jul | 15 Jul 2019  
Main Focus: Surgical cases of femoral derotational correction with AGILE Nail™ adolescent IM Nail

Mediclinic Midstream Centurion, Pretoria, South Africa
Faculty: Franz Birkholtz  
Duration: 5 days  
Dates: 3-7 June | 28 October – 1 November 2019  
Main Focus: Complex trauma and deformity correction cases mainly treated with circular external fixation devices
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