



INTERVENTIONAL MUSCULOSKELETAL ULTRASOUND CADAVER COURSE

FRIBOURG SWITZERLAND

Course Director:
Dr. Serdar Koçer
Chair of Anatomy:
Prof. Luis Filgueira

21-22 November 2025

Small groups and high tutor to participant ratio

Multidisciplinary faculty

MSK+
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ACADEMY

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INTERVENTIONAL MUSCULOSKELETAL ULTRASOUND CADAVER COURSE - DAY 1

INTRODUCTION (by Video Conference - Teams) (1,5 hours)

Ultrasound Basic Knobology, Injection Technique Under Ultrasound Guidance

SHOULDER (3 Hours)

- **KEY STRUCTURES** - Rotator Cuff Muscles/tendons, Subdeltoid Bursa, Acromio Calcicular and Gleno Humeral Joints, Spinoglenoid and Suprascapular Notches, Suprascapular Nerve
- **INDICATIONS** - Presentation on Pathologies of the Shoulder and Indications for Treatment
- **INJECTION PROCEDURES**
 - ▶ Intra-Articular - Acromio Calcicular and Gleno Humeral Joints
 - ▶ Tendinopathy - Biceps Tendon Sheath.
 - ▶ Bursal - Subdeltoid Bursa
 - ▶ Pain - Suprascapular Nerve Block

ELBOW (1,5 Hours)

- **KEY STRUCTURES** - Distal Biceps Tendon, Common Extensor Tendon, Radial Collateral Ligament, Radiocapitellar Joint, Common Flexor Tendon, Medial Collateral Ligament, Triceps Tendon, Olecranon Bursa and Ulnar Nerve in Cubital Tunnel
- **INDICATIONS** - Presentation on Pathologies of the Elbow and Indications for Treatment
- **INJECTION PROCEDURES**
 - ▶ Intra-Articular - Radiocapitellar Joint
 - ▶ Tendinopathy - Med/Lat Injections, Triceps Tendon
 - ▶ Bursal - Olecranon Bursal Aspiration/Injection

WRIST AND HAND (3 Hours)

- **KEY STRUCTURES** - Contents of Carpal Tunnel, Six Compartments of Wrist, Extensor Retinaculum, Radial Nerve/Artery, Ulnar Nerve/Artery, Finger Flexor Tendons and A1 Pulley
- **INDICATIONS** - Presentation on Pathologies of the wrist and the Hand and Indications for Treatment
- **INJECTION PROCEDURES**,
 - ▶ Tenosynovitis - 1st Extensor Compartment, Trigger Finger
 - ▶ Neuropathy - Median Nerve in Carpal Tunnel

INTERVENTIONAL MUSCULOSKELETAL ULTRASOUND CADAVER COURSE - DAY 2

HIP and PELVIS (2,5 Hours)

- **KEY STRUCTURES** - Hip Joint and Anterior Recess, Femoral Artery/Vein and Nerve, Iliopsoas Muscle/Tendon, Proximal Rectus Femoris and Sartorius Muscles/Tendons, Greater Trochanter, Gluteal Tendons, Trochanteric Bursa, Tensor Fascia Latae and Iliotibial Band, Piriformis Muscle
- **INDICATIONS** - Presentation on Pathologies of the Hip and Indications for Treatment
- **INJECTION PROCEDURES**
 - Intra-Articular - Hip Joint
 - Bursal - Trochanteric Bursa, Iliopsoas Bursa
 - Tendinopathy - Gluteal Tendon
 - Myofascial Pain - Piriformis

KNEE (2 Hours)

- **KEY STRUCTURES** - Quadriceps Muscle/Tendon, Suprapatellar Bursa, Femur, Patella, Joint Lines, Menisci, Medial/Lateral Collateral Ligaments, Patellar Tendon, Tibia, Fibula, Pes Anserine Bursa/Tendons, Distal Iliotibial Band, Baker's Cyst
- **INDICATIONS** - Presentation on Pathologies of the Knee and Indications for Treatment
- **INJECTION PROCEDURES**
 - Intra-Articular - Suprapatellar Bursal Aspiration/Injection
 - Tendinopathy - Quadriceps/Patellar Tendon
 - Bursal/Cyst - Pes Anserine, Baker's Cyst, Distal ITB

ANKLE AND FOOT (2 Hours)

- **KEY STRUCTURES** - Tibiotalar Joint, Subtalar Joint, Tibialis Anterior, EHL, Tibialis Posterior, FDL, Peroneal Tendons, Neurovascular Bundle, Achilles Tendon, Plantar Flexor Muscles
- **INDICATIONS** - Presentation on Pathologies of the Ankle and the Foot and Indications for Treatment
- **INJECTION PROCEDURES**
 - Intra-Articular - Tibiotalar Joint, Subtalar Joint
 - Tendinopathy - Tibialis Posterior and Peroneal Tendon Sheaths, Achilles Plantar Fascia

REVIEW and EVALUATION (0,5 Hours)



FACULTY

Anatomy: *Luis Filgueira, Laurent Tatu, Christian Hammer*

PMR: *Serdar Koçer, François Droz Bartholet, Gil Pires Rodrigues*

Radiology: *Roger Bargoin, Marcos Reginato, Arnaud Kolly*

LEARNING OBJECTIVES

- Review of MSK anatomy
- Identify on Thiel cadaver the important structures for ultrasound-guided interventions
- Ultrasound-guided injections on the Thiel corpse which allows an excellent visualization of all musculo skeletal structures

SUITABLE FOR

- Physiatrist
- Orthopaedic surgeon
- Sports physician
- Rheumatologist
- Physiotherapist
- Pain specialist

Limited participation: Places will be offered on a first come first served basis. High tutor to participant ratio 1:4



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