

## Course description

The online course is delivered as a series of self-directed learning activities and resources, combined with 4 live online sessions of 1 hour. Readings and prerecorded presentations are viewed to prepare for the online live small group discussions, which are led by international experts in the various areas of MISS. Additional AO Spine resources such as AO Surgery Reference and MyAO case application are integrated in the learning experience

## Target participants

Practicing surgeons who have little to no skills in MISS, fellows in an orthopedic or neurosurgery spine program, and residents in their final years who will specialize in spine surgery

## Key Modules

### Week 1: Introduction to MISS (self-directed learning)

- MISS curriculum
- MISS endoscopy nomenclature
- 4 book chapters
- General skills (8 recorded lectures)

### Week 2: Introduction to MISS (live online session)

- Recognizing the options and advantages for all types of MISS procedures
- Panel discussion: the why, how and when of MISS
- 3 case examples (microscopic, endoscopic, instrumented)

### Week 3: Microscopic/tubular MISS procedures (self-directed learning)

- 4 pre-recorded lectures:
  - Interlaminar microscopic tubular lumbar discectomy (IMTLD)
  - Microscopic tubular unilateral laminotomy for bilateral decompression (MT-ULBD)
  - Posterior microscopic tubular cervical foraminotomy (PMTCF)
  - Microscopic tubular cervical unilateral laminotomy for bilateral decompression (cervical MT-ULBD)

### Week 4: Microscopic/tubular MISS procedures (live online session)

- Small group discussions (3 cases)

### Week 5: Endoscopic MISS procedures (self directed learning)

- 4 pre-recorded lectures:
  - Interlaminar endoscopic lumbar discectomy (IELD)
  - Transforaminal endoscopic lumbar discectomy (TELD)
  - Lumbar endoscopic unilateral laminotomy for bilateral decompression (LE-ULBD)
  - Posterior endoscopic cervical foraminotomy (PECF)

### Week 6: Endoscopic MISS procedures (live online session)

- Small group discussion (3 cases)

### Week 7: Instrumented MISS procedures (self directed learning)

- 4 pre-recorded lectures:
  - Percutaneous screw and rod placement
  - MISS TLIF
  - Lateral lumbar interbody fusion (LLIF)
  - Anterolateral fusion

### Week 8: Instrumented MISS procedures (live online session)

- Panel discussion: the why, how, and when of instrumented MISS procedures
- Intraoperative adjuncts (navigation and robotics)
- Small group discussion- 4 cases:
  - MISS TLIF
  - Lateral lumbar interbody fusion (LLIF)
  - Pre/anterior lumbar interbody fusion
  - Anterolateral fusion at L5/S1

## MISS Task Force Chairperson



Roger Härtl (USA)



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