



EUROPEAN SOCIETY OF NEURORADIOLOGY
Diagnostic and Interventional
ESONR – EUROPEAN SCHOOL OF NEURORADIOLOGY

ESNR Advanced Courses of Interventional Spine Neuroradiology

Coordinator: Dr Mario Muto

The Interventional Spine Course has the target to provide the clinical and diagnostic basis and the practical training needed to adequately perform interventional spine procedures with the following programme:

Applicants must have attended a full ECNR cycle and be Certified as Fellow in Neuroradiology, or hold the Portuguese Specialization in Neuroradiology.

Courses are reserved to Full Members in good standing with ESNR fees.

Day 1

Introduction : target of the course

Clinical evaluation of patients with spine disease

Neuro-anatomy of the spine

Aetiopathogenesis of spine pain

Definition , epidemiology and natural history of herniated disk and degenerative spine disease

Neuroradiology in the diagnosis of herniated disk and degenerative spine disease

Neuroradiology in non-discogenic spine radiculopathy

Closing remarks of the day.

Day 2

Neurophysiologic tests in diagnosis of spine disease

Definition, epidemiology and natural history of porotic vertebral fracture

Rationale of medical therapy during and after a porotic vertebral fracture

Neuroradiology in the diagnosis of porotic vertebral fracture

Neuroradiology in diagnosis of primary spine tumours

Neuroradiology in the diagnosis of metastatic spine lesions

Percutaneous approach to porotic VCF

Comprehensive percutaneous approach to the spine metastatic lesions

Minimally invasive treatment of spine osteoangioma

Minimal invasive treatment of primary benign spine tumours (Ost ost, ABC, etc.)

Vertebroplasty and kyphoplasty: the different devices, advantages and disadvantages

Kyphoplasty in the treatment of acute spine trauma

Closing remarks of the day.

Day 3

Morning session dedicated video-recorded case presentation and/or to hands-on cadaver (if available in the country organizing the meeting or, as an alternative, on simulators or phantoms) on vertebroplasty and kyphoplasty.

Rationality, indications and results of percutaneous cervical disk disease



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Rationality, indications and results of percutaneous lumbar disk disease
Mini-invasive technique in the treatment of spinal canal stenosis
Spine biopsy: when and how
Spine infiltration, selective nerve block and alcoholization: when and how
Closing remarks of the day.

Day 4

Spinal cord stimulator
RF of facet joint
Informal consent and how to evaluate spine therapy
Endoscopic approach to herniated lumbar disk
Surgery of herniated cervical and lumbar disk
Post-operative imaging spine
Clinical cases presentation with management strategy
Closing remarks of the day.

Day 5

Morning session dedicated to hands-on spine phantom for the treatment of disk disease, facet joint and spine infiltration performed in the laboratory with C arm with all the materials available on the market.

Course examination: at the end of the course there will be a self-assessment test consisting of multiple-choice questionnaires.

After attending the full Course on Interventional Spine Neuroradiology, having passed the multiple choice test, and having spent one year in a neuroradiology centre active in spine intervention, it will be possible, for ESNR Full Members, to sit the examination for the following certification:

Higher Qualification in Interventional Spine Neuroradiology