

7th NSpine Combined Cadaveric

& Live Tissue Course

NSpine

innovative spine education™

- all you need to operate and more -

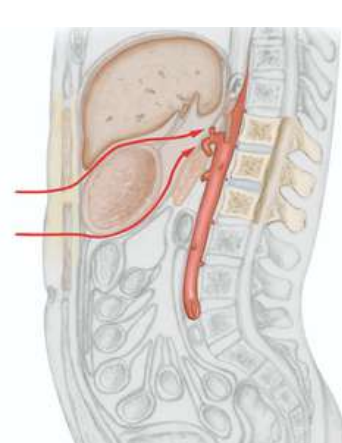


Industry Prospectus

13-15 April 2027

**IRCAD Training Centre
Strasbourg, France**

www.nspine.com



NSpine Combined Cadaveric & Live Tissue Course

Combining cadaveric and live tissue training is an advanced and highly effective means of teaching not only advanced approaches to the spine and implant handling, but also the management of complications which may occur. Especially with regard to anterior and lateral lumbar and thoracic techniques, the approaches are complex and the potential for complications significant.

NSpine is therefore proud to again be hosting the unique combined cadaveric and live tissue training event at the famous IRCAD centre, comprehensively covering most aspects of modern spine surgery. In a new collaboration, online learning packages will be provided on the module content through our partners at eccElearning in advance of the event.

Venue:

IRCAD is a global leader in surgical training. The surgical lab is at the heart of state-of-the-art facilities.

17 tables are fully equipped for surgical cadaveric dissection or live tissue surgery including endoscopic techniques. The lab is set up for fluoroscopy and advanced 3D imaging for image-guided or robotic surgery.



Travel and accommodation:

Strasbourg is a vibrant city with its historic town centre within walking distance of the IRCAD institute.

Strasbourg is accessible via road, train and air. There are international flight connections via Frankfurt or Paris. Excellent hotels are located within easy walking distance of IRCAD.



About IRCAD:

Located close to the historic center of Strasbourg, IRCAD has acquired a reputation for excellence in research as well as in the teaching of new surgical techniques since its creation in 1994. It now enjoys a worldwide renown, making it the world's first training school in new surgical techniques and technologies. The institute comes equipped with an outstanding infrastructure of 8,000 square meters, which can welcome 5,500 surgeons per year in various surgical specialities, while developing its cluster for research in new technologies and computer sciences.

Fully dedicated to research and to the teaching of the most innovative surgical techniques, the IRCAD has established itself as a world reference in the field of minimal access surgery.



Course Overview

Lectures covering essential course content are provided in advance of each workshop

The workshop modules are held in parallel in the IRCAD laboratory from 13-15 April 2027.

A maximum of 17 operating tables are available. One separate suite with 3 tables is available.

Delegates may attend single workshops or combine these across multiple days.

Cadaveric and live tissue tables are run in the same laboratory.

Simulation model training may be conducted in the laboratory or seminar rooms

Shared fluoroscopic imaging is available in the laboratory.

Exhibition and lecture facilities are situated in the IRCAD foyer.

This event is MedTech Europe CVS approved.

CME accreditation will be applied for in advance of the event.

Maximum faculty - delegate ratio is 1:2 or 1:4.

Industry Partners

Industrial partners may support one or multiple workshops.

NSpine arranges the cadaveric and / or live tissue work stations. NSpine provides general spine access instruments and operative consumables.

NSpine arranges c-arms and radiation protection gowns.

Gowns & gloves are provided by IRCAD. Please bring your own corporate scrub caps & badges.

Endoscopy towers are provided by Storz.

Sponsors are expected to provide the necessary implant specific equipment and instruments for use on the number of tables they are supporting along with a representative per table.

NSpine provides faculty for workshops. Industry partners may bring further faculty at own cost.



1. Degenerative and Traumatic Spine Modules

MODULE OVERVIEW

1a Spine Endoscopy lumbar (Cadaver or Model) - full day

3 hour live theory session and 6 hours hands-on training

1b Live Tissue Spine Endoscopy and Complications (Live Tissue) - half day

3 hour live theory session and 3 hours hands-on training

1c Expert Live Tissue Spine Endoscopy & Complications (Live Tissue) - half day

3 hour live theory session and 3 hours hands-on training

1d Advanced Endoscopic Craniocervical Techniques

3 hour live theory session and 6 hours hands-on training

2a MIS Vertebral Augmentation for thoracolumbar fractures (Cadaver or Model) - half day

Online theory session and 3 hours hands-on training

2b MIS TLIF (Cadaver) - half day

Online theory session and 3 hours hands-on training

2c Single Position Prone / Lateral & Posterior Techniques (Cadaver) - half day

Online theory session and 3 hours hands-on training

3a Anterior Lumbar Access (ALIF / TDR / OLIF) and Complications Management (Cadaver / Live Tissue) - two half days

Online theory session and 6 hours hands-on training

3b Lateral (XLIF / X-ALIF) Reconstruction and Complications Management (Cadaver / Live Tissue) - two half days

Online theory session and 6 hours hands-on training

3c Combined Anterior & Lumbar Access and Complications Management (Cadaver / Live Tissue) - three half days

Online theory session and 9 hours hands-on training

3d Expert Anterior Spine Complications Management (Live Tissue) - half day

Online theory session and 3 hours hands-on training

4a Comprehensive Anterior Cervical Spine Techniques -(Cadaver) - half day

Online theory session and 3 hours hands-on training

4b Comprehensive Posterior Cervical Spine Techniques (Cadaver) - half day

Online theory session and 3 hours hands-on training

4c High Anterior Cervical to Cervicothoracic Access

including vertebral artery exposure and sternotomy (Cadaver) - half day

Online theory session and 3 hours hands-on training

2. Deformity Spine Modules

5 Posterior Thoracic Spine - Pelvis Instrumentation, Osteotomy and Deformity Reconstruction Techniques (Cadaver) - half day

Online theory session and 3 hours hands-on training

6 Expert Thoracotomy Access and Complications Management (Live Tissue) - half day

Online theory session and 3 hours hands-on training

7 Intraspinous Dissection and Corrective Manipulation under Neuromonitoring / Dural Repair (Live Tissue) - half day

Online theory session and 3 hours hands-on training

8 Advanced Anterior & Posterior Craniocervical Techniques (Cadaver) - half day

Online theory session and 3 hours hands-on training

3. Tumour Spine Modules

9a Spine Tumour Reconstructive Techniques Thoracic - Pelvis (en-bloc surgery) (Cadaver) - half day

Online theory session and 3 hours hands-on training

9b Spine Tumour Reconstructive Techniques Cervical ("en-bloc" surgery) (Cadaver) - half day

Online theory session and 3 hours hands-on training

10 Intraspinous Dissection and Spinal Cord Surgery under Neuromonitoring / Dural Repair (Live Tissue) - half day

Online theory session and 3 hours hands-on training

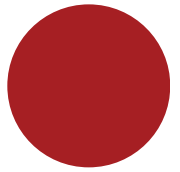
11 Major Reconstruction Visceral, Pulmonary and Vascular Mobilisation and Repair (Live Tissue) - half day

Online theory session and 3 hours hands-on training

Please note that due to the scarcity of cadavers, several workshops are conducted on each cadaver. While we strive to keep overlap minimal, on occasion there may be prior usage in part for some workshops (eg ALIF L5/S1 and X-ALIF L5/S1).

Equally, we strive to utilise the live tissue models as efficiently as possible with multiple workshops and minimal overlap to ethically justify utilising this exceptional training model.

Description of Course Modules



Spine Endoscopy - Lumbar (Cadaver - 1a)

Live Tissue Spine Endoscopy & Complications (Live Tissue - 1b)

Course format Spine Endoscopy Package Modules 1a-c:

This intense two day workshop was developed to provide the most comprehensive training possible. Workshop sessions consists of one whole day of lumbar and thoracic techniques, and a half day on live tissue simulating actual surgery and dealing with complications. This unique comprehensive hands-on program is enhanced with a face-to-face theory seminar on the evening before the course . The details of training are tailored to the delegate requirements.

Faculty to delegate ratio is 1:2

Duration: 3 hour face to face evening lecture session prior to workshops; 2 x 3 hour half day cadaveric or model hands-on workshops (module 1a); 1 x 3 hour half day live tissue hands-on workshop (module 1b).

Learning objectives (these will be adjusted according to delegate experience)

- Indications and technical steps involved in the **transforaminal approach**: inside-out / outside-in technique, foraminoplasty, trans-SAP approach, trans-isthmic approach, L5-S1 approach, foraminal stenosis decompression, foraminal disc herniation
- Indications and technical steps involved in the **interlaminar approach**: lateral recess decompression, unilateral approach and bilateral decompression, shoulder / axillary approach for disc herniation
- Unilateral approach and bilateral decompression, contralateral decompression
- Indications and technical steps of thoracic discectomy (optional)
- Live tissue: steps of foraminotomy, neural mobilisation and disc exposure
- Live tissue: Managing foraminal bleeding and poor visualisation
- Live tissue: Managing dural and neural injury

Learning outcomes - after the event delegates will be able to:

- Correctly set-up and handle the instruments and surgical endoscopic devices
- Perform the above approaches (basic or advanced)
- Understand when to apply which technique and respective limits thereof
- Recognise complications and initiate appropriate corrective steps

Expert Live Tissue Spine Endoscopy & Complications (Live Tissue - 1c)

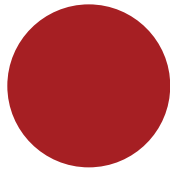
Course format Expert Live Tissue Spine Endoscopy & Complications Module 1c:

This module is designed for experienced surgeons with 1:1 expert tuition by our faculty. Live tissue surgery closely simulates actual surgery and is ideal for complications management in handling neural structures and bleeding. The learning goals are decided between delegate and faculty. This workshop can be booked separately or combined with other modules.

Faculty to delegate ratio is 1:1

Duration: 1 x 3 hour half day live tissue hands-on workshop.

Description of Course Modules



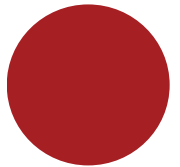
Advanced Endoscopic Craniocervical Techniques

Course format Spine Endoscopy Package Modules 1d:

This module focuses on advanced transnasal endoscopic techniques for the anterior resection of craniocervical structures. Specifically, access to the clivus, atlas and axis will be performed as well as step wise resection of above structures.

Faculty to delegate ratio is 1:2

Duration: 3 hour face to face evening lecture session prior to workshops; 1 x 3 hour half day cadaveric hands-on workshops.



MIS Vertebral Augmentation for Thoracolumbar Fractures (Cadaver or Model - 2a)

Course Format MIS Vertebral Augmentation Module 2a

This workshop is comprehensively designed for MIS percutaneous techniques. Delegates perform percutaneous vertebral augmentation (vertebroplasty, kyphoplasty or similar).

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop

Learning objectives:

- To plan and set up surgery for above percutaneous techniques
- To correctly handle and insert devices and implants

Learning outcomes - after the event delegates will be able to:

- Correctly position and identify fluoroscopy landmarks for the respective techniques
- Correctly conduct the sequence of steps in handling instruments and applying implants

MIS TLIF (Cadaver - 2b)

Course Format MIS TLIF Module 2b

Workshop designed for surgeons wishing to learn MIS TLIF under expert tuition.

Faculty to delegate ratio is 1:2

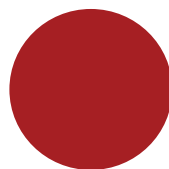
Duration: 1 x 3 hour half day cadaveric hands-on workshop

Learning objectives:

- To plan and set up surgery for MIS TLIF
- To correctly handle and insert devices and implants

Learning outcomes - after the event delegates will be able to:

- Correctly position and identify fluoroscopy landmarks for MIS TLIF
- Correctly conduct the sequence of steps in handling instruments, exposing neural structures, performing discectomy and correctly insert implants



Single Position Prone / Lateral & Posterior Techniques (Cadaver - 2c)

Course Format Single Position Surgery:

This specialised workshop focusses on the emerging techniques of single position surgery. With the cadaver in the prone or lateral position, simultaneous lateral lumbar access and posterior instrumentation is performed under the guidance of expert faculty.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop

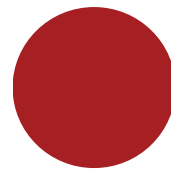
Learning objectives:

- To plan and set up surgery for single position procedures
- To correctly handle and insert retractors, devices and implants
- To recognise limitations of single position surgery

Learning outcomes - after the event delegates will be able to:

- Define the indications and advantages for single position surgery
- Approach the spine from a lateral exposure in prone position
- Simultaneously instrument the posterior spine using minimally invasive methods

Description of Course Modules



Anterior Lumbar Access & Complications Management (Cadaver / Live Tissue - 3a)

Course Format Anterior Lumbar Spine Access & Complications Management Module 3a:

This well established full day workshop combines cadaveric access training and live tissue complications management. The cadaveric procedures focus on supine, open ALIF and / or OLIF approaches for intervertebral fusion, arthroplasty or vertebrectomy. The specific techniques will be adjusted to the delegates requirements. Approaches can be minimally invasive or include extensive multilevel exposures. The live tissue procedures include extensive anterior lumbar access with mobilisation and repair of vascular, visceral and urological structures. Online learning content is provided prior to the event.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop; 1 x 3 hour half day live tissue hands-on workshop.

Lateral Lumbar Access & Complications Management (Cadaver / Live Tissue - 3b)

Course Format Lateral Lumbar Access & Complications Management Module 3b:

This workshop focusses on state of the art minimally invasive lateral lumbar techniques with pioneering faculty. The cadaveric session provides access training for anterior to psoas or transpsoas interbody and corpectomy techniques along with lateral L5/S1 "X-ALIF" techniques. Specific techniques will be discussed between faculty and delegates. The live tissue procedures include extensive anterior lumbar access with mobilisation and repair of vascular, visceral and urological structures. Online learning content is provided prior to the event.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop; 1 x 3 hour half day live tissue hands-on workshop.

Combined Ant. & Lat. Lumbar Access & Complications Management (Cadaver / Live Tissue - 3c)

Course Format Combined Ant. & Lat. Lumbar Access & Complications Management Module 3c:

This popular course combines two half days of cadaveric access including both the anterior and lateral lumbar access modules with the half day live tissue workshop. Content as above.

Faculty to delegate ratio is 1:2

Duration: 2 x 3 hour half day cadaveric hands-on workshop; 1 x 3 hour half day live tissue hands-on workshop.

Expert Anterior Spine Complications Management (Live Tissue - 3d)

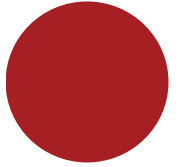
Course Format Expert Live Tissue Complications Management Module 3d:

This format is similar to the live tissue sessions of the above workshops with the difference of the 1:1 faculty delegate ratio. The workshop is designed to be highly interactive with direct tutorage by expert vascular thoracic and urological faculty. The content can therefore be customised to suit even experienced delegate requirements (eg advanced aortic, vena cava or pulmonary artery repair). This module is also suitable for vascular access surgeons.

Faculty to delegate ratio is 1:1

Duration: 1 x 3 hour half day live tissue hands-on workshop.

Description of Course Modules - Learning Objectives and Outcomes



Anterior Lumbar Access & Complications Management (Cadaver / Live Tissue - 3a)

Lateral Lumbar Access & Complications Management (Cadaver / Live Tissue - 3b)

Combined Ant. & Lat. Lumbar Access & Complications Management (Cadaver / Live Tissue - 3c)

Expert Anterior Spine Complications Management (Live Tissue - 3d)

Learning objectives:

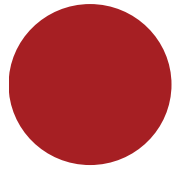
- To perform a comprehensive range of minimally invasive and open anterior | lateral approaches to the lumbar spine
- To correctly handle and insert anterior | lateral retractors, devices and implants
- To effectively manage complications arising from anterior and lateral lumbar approaches in live tissue surgery including vascular and ureteric injuries

Learning outcomes - after the event delegates will be able to:

- Perform the technical steps of the minimally invasive and open anterior and lateral approaches to the lumbar spine
- Mobilise vascular and visceral structures to facilitate spinal instrument and device placement
- Identify the structures at risk during anterior spinal surgery and use salvage strategies in case of complications
- Repair peritoneal tears
- Perform emergency manoeuvres to control haemorrhage
- Differentiate venous and arterial bleeding
- Clamp vessels to control haemorrhage
- Apply vessel loops for control
- Clip and perform standard sutures of arteries and veins
- Apply haemostatic agents
- Stent and conduct steps to repair ureteric injuries
- Repair pulmonary injuries (optional)



Description of Course Modules



Comprehensive Anterior Cervical Spine Techniques (Cadaver - 4a)

Course Format Anterior Cervical Spine Techniques Module 4a:

Anterior exposure with discectomy and fusion or disc replacement is conducted. Optionally corpectomy and reconstruction is performed. Optionally, access can be extended to include vertebral artery exposure. The content details and learning objectives are discussed with faculty to optimise the learning experience. Online learning content will be provided prior to the event.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop

Comprehensive Posterior Cervical Spine Techniques (Cadaver - 4b)

Course Format Posterior Cervical Spine Techniques Module 4b:

Posterior exposure, decompressive techniques from laminoplasty to laminectomy and instrumented reconstruction from occiput to thoracic spine. Learning goals are discussed with faculty and content structured accordingly. This session can include advanced techniques such as cervical pedicle screws and C1 / C2 instrumentation. Online learning content will be provided prior to the event.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop

High Ant. Cervical to Cervicothoracic Access / Vertebral Artery Exposure & Sternotomy (Cadaver - 4c)

Course Format High Anterior Cervical to Cervicothoracic Access Module 4c:

High anterior and anterolateral cervical spine exposure with access to C2. Anterolateral exposure to mobilise and transpose vertebral artery. Online learning content will be provided prior to the event.

Faculty to delegate ratio is 1:2

Duration: 1 x 3 hour half day cadaveric hands-on workshop

Learning objectives (Modules 4a-c):

- To plan and set up surgery for anterior / posterior / lateral cervical spine surgery
- To correctly handle and insert retractors, devices and implants
- To correctly expose and mobilise cervical viscera (anterior)
- To identify and avoid injury to laryngeal / sympathetic nerve structures
- To expose vertebral artery
- To perform manubriectomy or sternotomy for cervicothoracic access (optional)
- To correctly handle and insert retractors, devices and implants (anterior / posterior)

Learning outcomes - after the event delegates will be able to (Modules 4a-c):

- Define the indications and advantages for above procedures
- Correctly perform the steps of anterior / posterior / posterolateral cervical exposure
- Perform the principle steps of sternotomy (module 4c)
- Expose the vertebral artery (module 4c)
- Insert anterior fusion or arthroplasty devices / perform corpectomy (optional)
- Instrument the posterior cervical spine with lateral mass and pedicle screw fixation

Description of Course Modules

Posterior Thoracic Spine - Pelvis Instrumentation, Osteotomy and Deformity Reconstruction Techniques (Cadaver - 5)

Course Format Posterior Thoracic Spine to Pelvis Module 5:

Posterior instrumentation from thoracic spine to pelvis is a mainstay of modern spine surgery. Advanced posterior corrective techniques such as osteotomy and vertebrectomy are technically demanding.

Delegates will receive tuition on the corrective strategies and hands-on guidance through the procedure. Through working closely with the expert faculty, delegates will be able to conduct strategic screw placement and perform advanced instrumentation and correction techniques including osteotomy. Delegates will determine the focus of the training with the faculty. Online material will be provided prior to the event.

Faculty : delegate ratio is 1:2

Duration: 1 x 3 hour hands-on cadaveric workshop.

Learning objectives:

- To insert pedicle screws from thoracic spine to pelvis
- To perform a combination of osteotomies including chevron and pedicle subtraction
- To close osteotomies through reduction manoeuvres

Learning outcomes - after the event delegates will be able to:

- Insert pedicle screws from thoracic spine to pelvis
- Perform chevron osteotomies
- Perform pedicle subtraction osteotomies
- Perform posterior vertebrectomies (VCR)
- Correctly apply corrective forces to the instrumented spine

Expert Anterior Thoracic Complications Management (Live Tissue - 6)

Course Format Expert Thoracic Complications Management Module 6:

The live tissue surgery will allow delegates to perform thoracotomy and optionally thoracophrenolumbotomy approaches, as required for anterior deformity surgery, with exposure of the pulmonary, vascular and visceral structures. The workshop will focus on the dissection and repair techniques of these structures with our expert spine and thoracic surgery faculty. Exact content to be discussed with table faculty.

Faculty : delegate ratio is 1:1

Duration: 1 x 3 hour hands-on live tissue workshop.

Learning objectives:

Perform thoracotomy access / thoracophrenolumbotomy access (optional)

- Mobilise pulmonary structures and repair pulmonary structures
- Mobilise, dissect and repair thoracic vascular structures

Learning outcomes - after the event the delegates will be able to:

- Perform the steps of thoracotomy / thoracophrenolumbotomy (optional)
- Dissect and safely mobilise thoracic pulmonary and vascular structures
- Repair superficial and deep pulmonary lesions
- Control and repair thoracic vascular lesions
- Control thoracic duct lesions

Description of Course Modules

Intraspinal Dissection and Corrective Manipulation under Neuromonitoring / Dural Repair (Live Tissue - 7)

Course Format Intraspinal Dissection and Manipulation under Neuromonitoring Module 7:

The advanced IONM simulation modules enable delegates to immediately implement this in a live model setting. IONM is set-up and through dissection steps following laminectomy, alerts are induced through root and spinal cord compromise, simulating the scenario during deformity surgery. This training is ideal for clinicians engaged in deformity surgery. Delegates experience the challenges of signal loss in difficult surgical scenarios including hardware malplacement and spinal cord compromise.

Faculty : delegate ratio is 1:2

Duration: 1 x 3 hour hands-on live tissue workshop.

Learning objectives:

- To understand the neurophysiological foundation of neuromonitoring
- To understand the application of SEP / MEP and D-Wave analysis in spinal IONM
- To be able to correctly interpret typical IONM signal loss situations in spine surgery
- To understand the technical troubleshooting and salvage procedures in IONM compromise

Learning outcomes - after the event delegates will be able to:

- Understand and apply SEP / MEP and D-Wave IONM
- Be able to interpret technical IONM difficulties and genuine IONM alerts
- Conduct the correct IONM salvage steps in IONM alerts
- Understand signal compromise in implant stimulation / neural manipulation / spinal cord manipulation / spinal cord compromise

Advanced Anterior & Posterior Craniocervical Techniques (Cadaveric - 8)

Course Format Advanced Anterior and Posterior Craniocervical Techniques Module 8:

This workshop facilitates anterior and posterior instrumentation of C1 and C2 and occiput (optional). Various instrumentation techniques can be included in agreement with the expert faculty. Emphasis is on correct exposure, landmarks and instrumentation techniques.

Faculty : delegate ratio is 1:2

Duration: 1 x 3 hour hands-on cadaveric workshop.

Learning objectives:

- To understand landmarks of the anterior and posterior craniocervical spine relevant to instrumentation
- To effectively expose the craniocervical junction anterior and posterior
- To instrument the craniocervical junction in various combinations including direct and transarticular instrumentation

Learning outcomes - after the event delegates will be able to:

- Understand and identify landmarks for instrumentation
- Safely expose the craniocervical junction
- Safely instrument the craniocervical junction (C1 / C2 / occiput posterior) from anterior and posterior approaches

Description of Course Modules

Spine Tumour Reconstructive Techniques Thoracic - Pelvis ("en-bloc" surgery) (Cadaveric - 9a)

Spine Tumour Reconstructive Techniques Cervical ("en-bloc" surgery) (Cadaveric - 9b)

Course Format Reconstructive Techniques Tumour Modules 9a and b:

This new workshop with highly experienced faculty provides cadaveric training in advanced tumour reconstructive techniques across two half day sessions. Delegates will be instructed in performing en-bloc resections and reconstructions of the thoracolumbar spine / pelvis and cervical spine / cervicothoracic junction. The specific learning experience will be tailored to the delegates requirements with faculty. Online learning material will be provided prior to the event.

Faculty : delegate ratio is 1:2

Duration: 2 x half day 3 hour cadaveric hands-on workshops.

Learning objectives:

- To plan complex tumour resections of the spine and pelvis
- To conduct the instrumentation for stabilising the spine and pelvis for tumour resection
- To conduct advanced resective surgical techniques for en-bloc removal of tumours

Learning outcomes - after the event delegates will be able to:

- Plan advanced tumour resection
- Conduct complex reconstructive instrumentation
- Surgically respect tumour margins
- Reconstruct pelvic, thoracic and cervical tumour deficits

Intraspinal Dissection and Spinal Cord Surgery under Neuromonitoring / Dural Repair (Live Tissue - 10)

Course Format Intraspinal Dissection and Spinal Cord Surgery under Neuromonitoring Module 10:

The advanced IONM simulation modules enable delegates to progressively dissect intraspinal structures and simulate intraspinal and spinal cord surgery. The immediate IONM feedback allows for excellent correlation and learning of surgical steps and IONM effects. This training is ideal for clinicians engaged in intraspinal tumour surgery or en-bloc spine tumour surgery.

Faculty : delegate ratio is 1:2

Duration: 1 x 3 hour hands-on live tissue workshop.

Learning objectives:

- To understand the dissection steps in intraspinal tumour surgery
- To understand the neurophysiological foundation of neuromonitoring
- To understand the application of SEP / MEP and D-Wave analysis in spinal IONM
- To be able to correctly interpret typical IONM signal loss situations in spine surgery
- To understand the technical troubleshooting and salvage procedures in IONM compromise

Learning outcomes - after the event delegates will be able to:

- Dissect intraspinal structures in accordance with intraspinal tumour surgery
- Understand and apply SEP / MEP and D-Wave IONM
- Be able to interpret technical IONM difficulties and genuine IONM alerts
- Conduct the correct IONM salvage steps in IONM alerts
- Understand signal compromise in implant stimulation / neural manipulation / spinal cord manipulation / spinal cord compromise

Description of Course Modules

Major Reconstruction Visceral, Pulmonary and Vascular Mobilisation and Repair (Live Tissue - 11)

Course Format Major Reconstruction Visceral, Vascular and Pulmonary Repair Module 11:

Under expert faculty guidance extensive thoracophrenolumbotomy is performed. This allows thorough mobilisation of major vascular structures and visceral / pulmonary structures simulating major tumour resection in the thoracolumbar spine. Complications management is taught through repairing simple and complex lesions to above structures under expert guidance of spine / thoracic / vascular and urological faculty. The aim of this extensive workshop is to equip delegates with the multidisciplinary skills to safely conduct open anterior exposures as required for advanced tumour surgery. Exact content is to be discussed with table faculty.

Faculty : delegate ratio is 1:1

Duration: 1 x 3 hour hands-on live tissue workshop.

Learning objectives:

Perform thoracophrenolumbotomy access (optional)

- Mobilise pulmonary structures and repair pulmonary structures
- Mobilise, dissect and repair thoracic vascular structures
- Mobilise and dissect lumbar vascular structures
- Mobilise and dissect ureteric structures

Learning outcomes - after the event the delegates will be able to:

- Perform the steps of thoracotomy / thoracophrenolumbotomy (optional)
- Dissect and safely mobilise thoracic pulmonary and vascular structures
- Repair superficial and deep pulmonary lesions
- Control and repair thoracic vascular lesions
- Control thoracic duct lesions
- Repair peritoneal tears
- Perform emergency manoeuvres to control haemorrhage
- Differentiate venous and arterial bleeding
- Clamp vessels to control haemorrhage
- Apply vessel loops for control
- Clip and perform standard sutures of arteries and veins
- Apply haemostatic agents
- Stent and conduct steps to repair ureteric injuries
- Repair pulmonary injuries (optional)

For a comprehensive tumour training experience we recommend combining all workshop Modules 9- 11 for a full two day training course.

NSpine Industry Partners

NSpine wishes to collaborate with established industry leaders to deliver this exceptional training event.

A total of 17 workstations per day (combined cadaveric, live tissue and models) are available to support with implants, systems and devices.

Anterior, lateral, endoscopic and advanced reconstructive techniques and devices are welcome.

We will work with you to design the ideal training event on your products!



Workshop spaces

17 workstations (operating tables) are available in total

15 workstations are available in the main laboratory.

1 separate room is available with 3 workstations which can be booked for exclusive use.

Workstations can be used for cadaveric, live tissue and model simulation surgery with instruments and products.

NSpine provides general anterior access instruments. IRCAD provides Storz endoscopy towers. Washing and sterilising facilities are on site handled by IRCAD staff.

Fluoroscopy, Navigation and Robotics

Fluoroscopy is available. Furthermore, CT can be performed on cadavers to allow for robotic or navigation techniques and custom implants. Alternatively advanced image intensification and navigation units can be used in the separate rooms for navigated and robotic surgery.

Exhibition Space

Exhibition space in IRCAD is excellent, immediately in the foyer where faculty and delegates congregate for coffee breaks and lunch.

Meeting Rooms

Separate private seminar and meeting rooms are available for KOL meetings - contact us to discuss this unique opportunity.

Faculty

NSpine provides faculty for all modules, covering travel, accommodation and per diems as well as conducting marketing to attract delegates.

If you prefer to arrange your own faculty and/or would prefer to offer delegate places for free, please contact us for adjusted pricing.

Sponsorship Packages

Exclusive Workshop package

SEPARATE LAB SPACE
PRIVATE RECEPTION AND SEMINAR SUITE
(HALF DAY SEMINAR SUITE & HALF DAY PRIVATE LAB)

€20K + VAT

Includes:

Whole or half day private receptions area and seminar suite

Whole day or half day separate laboratory room
3 parallel workstations
Ideal for endoscopic / robotic or image guided surgery

Choice of cadaveric, model or live tissue workshops (3 per half day)

Does NOT include faculty

This package is suitable for industry partners wishing to conduct their own training labs while remaining associated with the NSpine event.

NSpine will arrange logistics and support the industrial partner, working closely to deliver the desired custom training event.



Sponsorship Packages

Masterclass Package

PRIVATE RECEPTION AND SEMINAR SUITE

€10K + VAT

Includes:

Whole or half day private reception area and seminar suite

- **State-of-the-Art AV Equipment:** The Biocluster boasts state-of-the-art audiovisual equipment, ensuring crystal-clear presentations and immersive learning.
- **Recording Capability:** Capture every moment of the masterclass with the option to record sessions. Sponsors will receive raw footage for their own use and promotion.
- **Capacity:** Accommodate up to 65 attendees comfortably in a theater-style seating arrangement, fostering an engaged and focused learning environment.
- **Reception Area with Coffee Break:** Our masterclass includes a welcoming reception area where attendees can network and enjoy coffee breaks, creating valuable opportunities for connections and discussions.
- **Exhibition Area:** The reception space is ideal for sponsors to set up exhibitions, allowing you to showcase your products, services, and innovations directly to an audience of industry professionals.
- **Biomimetic Models:** For sponsors wishing to demonstrate products in a realistic hands-on setting, high-fidelity biomimetic models can optionally be incorporated into the masterclass programme, giving attendees direct, practical experience with your devices and techniques. Availability and pricing depend on the specific models required - price TBD.



This package is suitable for industry partners wishing to conduct their own Masterclass while remaining associated with the NSpine event.

NSpine will arrange logistics and support the industrial partner, working closely to deliver the desired custom training event.

Any additional costs related to industry speakers are not included in the offer.

Sponsorship packages at a glance*

Sponsorship Package	Platinum 56,000 EUR	Gold 28,000 EUR	Silver 14,000 EUR	Bronze 20,000 EUR
Workstations (Cadaveric, / Live Tissue or Model)	• 4 workstations (full day) x 2 days • Total 8 workstations	• 2 workstations (full day) x 2 days • Total 4 workstations	• 1 workstations (full day) x 2 days • Total 2 workstations	Access to Live Tissue Workstations - non implant
Exhibition Space	Large: 5m x 2,5m	Medium: 3m x 2,5m	Small: 1,8 x 1,6m	not included
Marketing	Social Media Full page Ad in Program	Social Media Half-page Ad in Program	Social Media Half-page Ad in Program	Social Media Half-page Ad in Program
Additional Day	Additional 4 workstations: 24,000 EUR	Additional 2 workstations: 12,000 EUR	Additional 1 workstations: 6,000 EUR	N/A

Additional options*

Exhibition Space Upgrade

Small	Medium	Large
1,8 x 1,6 m: 2500 EUR per day	3m x 2,5m: 5000 EUR per day	5m x 2,5m: 7000 EUR per day

Private Room for KOL meeting

Includes AV and seating for up to 24 pax: 5000 EUR

Separate Workshop package: 20,000 EUR

- Includes:
- half day with 3 parallel workstations
 - half day Seminar suite with capacity for 30 pax
 - Standalone exhibition space
 - Includes Live tissue / anatomical speciment / model

Masterclass package: 10,000 EUR

- Includes:
- Meeting room for up to 65 pax
 - AV and Recording
 - Reception area and coffee break
 - Exhibition area

*Prices are exclusive of VAT
Cadavers are reused between workshops where possible.

Why Sponsor?



Provide training on your products and uniquely deliver additional skills in managing related complications. Help attending surgeons to safely and responsibly introduce new techniques in their practice.



The IRCAD Institute is a world leader in surgical education and one of the very few institutes offering combined cadaveric and live tissue surgery. IRCAD offers optimal theatre simulation for the most effective training.



NSpine has attracted a panel of international expert surgeons as faculty. Exposure to this highly experienced faculty with 1:2 Faculty - Delegate ratio provides the ideal learning constellation.



NSpine offers fully independent, accredited spine surgery training. Attending this course certifies having undertaken amongst the most rigorous, practical training available.



NSpine events attract experienced surgeons - allow delegates a first hand impression of your products. Using products and devices is far more effective in winning new users than simple exhibition.

www.nspine.com

Spine Education since 2013:

NSpine is an entirely independent company exclusively focused on spine health care education. Since the inaugural conference in 2013, NSpine has grown exponentially and 500 now features annual, highly respected meetings which traditionally attract over attendees from across the globe.

Clinical Problem Solving and Emerging Tech:

The focus of NSpine meetings is on clinical problem solving, decision-making and forwarding surgical techniques and technology. With this in mind the meetings are crafted to meet the demands of working surgeons.

Advanced Cadaveric and Live Tissue Training:

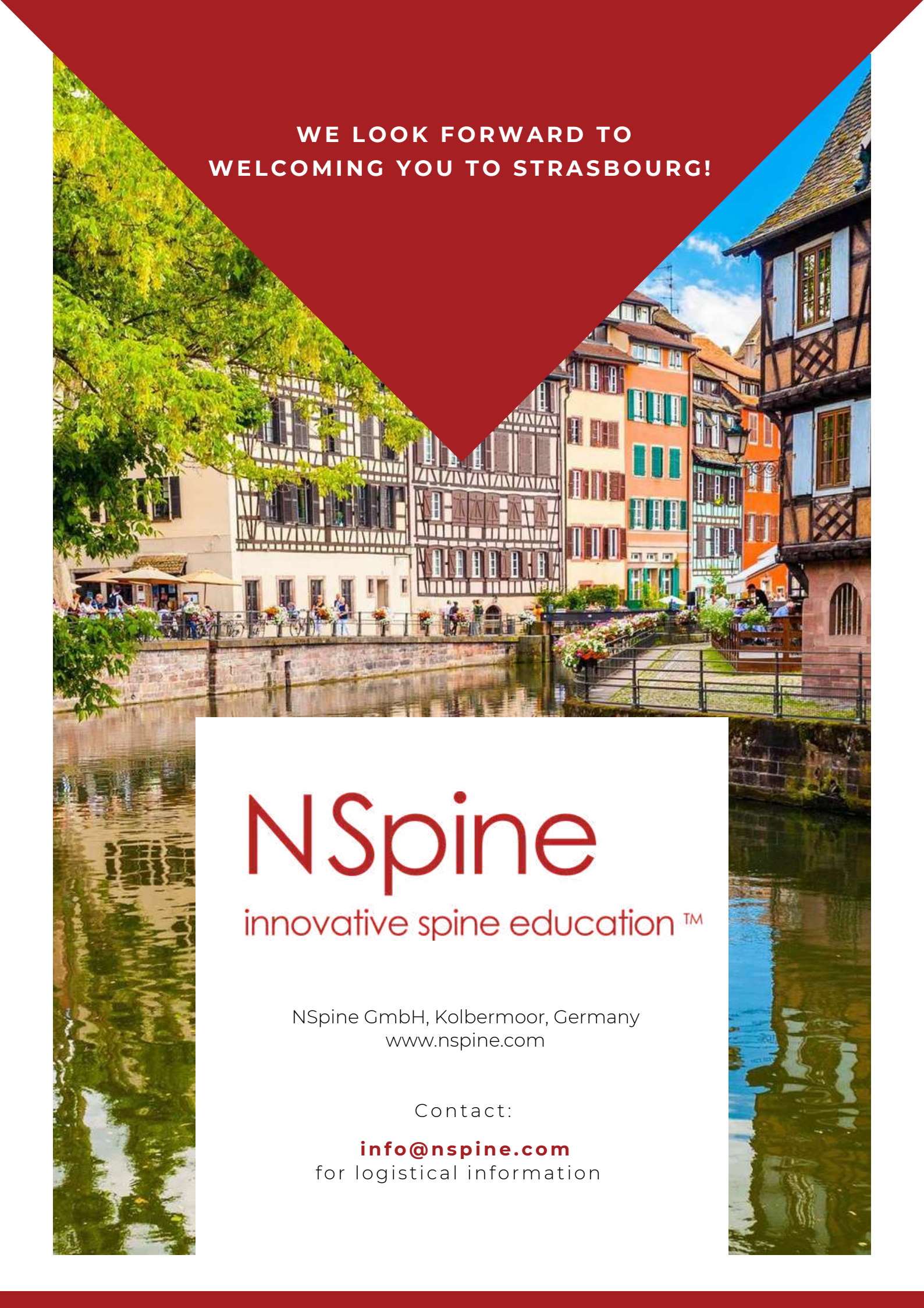
NSpine has a tradition of offering highest quality hands-on cadaveric training courses. NSpine is proud to have expanded this training at the world renowned IRCAD institute in Strasbourg France through the renowned NSpine combined cadaveric and live tissue training series.

"I have been involved in live tissue spine courses at IRCAD for close to 20 years. This is the best immersive surgical simulation training currently available. NSpine is dedicated to delivering training for surgeons that really matters.
NSpine - designed by surgeons for surgeons."



A handwritten signature in black ink, which appears to read 'Bronek Boszczyk'. The signature is stylized and fluid.

Bronek Boszczyk
Spine Surgeon, NSpine Founder



WE LOOK FORWARD TO
WELCOMING YOU TO STRASBOURG!

NSpine

innovative spine education™

NSpine GmbH, Kolbermoor, Germany
www.nspine.com

Contact:

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for logistical information