AOSPINE
EUROPE and SOUTHERN AFRICA

Program

AOSpine Advanced Level Specimen Course—Posterior Spinal Approaches and Techniques

April 2–3, 2020

Brno, Czech Republic

Welcome to Prague

Dear Colleagues

On behalf of AOSpine Europe, it is our great pleasure to invite you to the AOSpine advanced specimen course for South-Eastern Europe, which is organized in a high-level university educational facility in Brno in Czech Republic.

During last two decades we could witness fast-paced development in spinal surgery. A significant part of this development was attributed to new spinal approaches and techniques, like anterior or lateral approach. Despite this development, it is still highly recommendable and wise to understand fundamentals of spinal surgery. And "good old" posterior approach and posterior techniques without hesitation belong to these spinal surgery fundamentals. This specimen course is therefore focused on posterior approaches and techniques from up to bottom.

It focuses on what can be done from posterior side of the spine. Participants of this course will have a chance to learn, discuss and practice posterior approaches and posterior techniques from A to Z, or more precisely from occiput to sacrum. They will learn how to safely insert screws into axis vertebra, how to instrument cervicothoracic junction, how to perform posterior column osteotomy or how to put screw in iliac bone, all from posterior side of the spine. Moreover, they will have the possibility to interact with and ask questions highly experienced faculty members. They also will have a chance to look over their shoulders and see some of their tips and tricks.

We are looking forward to seeing you in this outstanding educational event.

Sincerely

Michal Bozik
Chairperson
Bratislava, Slovakia

Patrick Tropniano
AOSEU- Education officer
Chairperson
Marseille, France

Ufuk Aydinly
Educational Advisor
Bursa, Turkey

AOSpine Curriculum

This educational event carries the AOSpine Curriculum logo. This indicates that the program, content, and objectives have been developed based on the Curriculum framework and that the event meets the implementation criteria defined by the AOSpine Education Commission (AOSEC). For more information, visit www.aospine.org

Course description

This specimen course focuses on posterior spinal approaches and posterior spinal techniques from upper cervical spine down to the pelvis. Each region of the spine will be discussed from the point of view of biomechanics, anatomy and available posterior spinal techniques and instrumentation, which are used in various spinal conditions. Part of the course will be dedicated to spinal alignment correction techniques and instrumentation. It is divided into sessions, which are focused on the particular anatomical region of the spine from the point of view of posterior spinal approaches and techniques.

In each session real-life cases will be presented, discussed and expert opinion lectures focused on particular topic will be given. Case reports, discussions and lectures will be followed by specimen labs, where participants, under supervision of faculty members, will have a chance to practice learned techniques.

Target participants

This event is targeted at certified surgeons (neurosurgeons, orthopedic surgeons, trauma surgeons) actively involved in spinal surgical care, who on daily basis use posterior spinal approaches and techniques in various spinal conditions and who would like to enhance and update their knowledge and skills in this field of spinal surgical care.

Learning objectives

After the event, participants will be able to:

- Assess morphology of upper cervical spine
- Describe key steps of safe instrumentation placement in upper cervical spine.
- Assess morphology of cervico-thoracic junction and Describe key steps of safe instrumentation placement in cervico-thoracic junction region.
- Define indications and Describe key steps of posterior column osteotomy (PCO) in Thoracic and lumbar spine.
- Define indications and Describe key steps of three column osteotomy (3CO) in thoracic and lumbar spine.
- Define indications for anchoring instrumentations to the pelvis and Describe key steps for placement of iliac and S2-ilum screws.

Chairperson

Michal Bozik	University Hospital Bratislava - Ruzinov, Bratislava, Slovakia
Patrick Tropiano	Hôpital de la Timone, Marseille, France

Educational advisor

Ufuk Aydinly	Verom Spine Center, Bursa, Turkey

Faculty

Martin Kelbl	Traumatologie Hospital Brno, Brno, Slovakia
Aron Lazary	National Center for Spinal Disorders, Budapest, Hungary
Jiri Skala-Rosenbaum	FNKV, Prague, Czech Republic
Petr Vachata	Masaryk Hospital, J. E. Purkinje University, Usti nad Labem Czech Republic
Petr Vanek	Central Military Hospital, Prague, Czech Republic
Matjaz Vorsic	University Hospital Maribor, Maribor, Slovenia

Thursday, April 2, 2020

TIME	AGENDA ITEM	Who
08:00 - 08:15	Participants registration	
08:15 - 08:30	Welcome and Introduction of AO Spine and Faculty	M Krbec, V Báca M Bozik, P Tropiano
08:30 - 08:45	Introductory Lecture: Radiation Hazardous	V Báca
	Session 1: Upper cervical spine	**P Tropiano**
08:45 - 08:50	Case presentation 1: Atlanto-axial fixation/fusion	P Vachata
08:50 - 09:10	Lecture 1: Upper cervical spine fixation technique	P Vanek
09:10 - 09:30	Group discussions	
09:30- 09:40	Case solution 1: Atlanto-axial fixation/fusion	P Vachata
09:40 - 09:45	Summary and take home message	P Tropiano
09:45 - 10:00	COFFEE BREAK	
10:00 - 12:30	**Practical Excercices 1: Upper cervical spine**	**all**
	Practical 1: Posterior approach, atlanto-axial fixation (C1 lateral mass screw, C1 pedicle screw, C2 pedicle screw, C2 laminar screw), C1-C2 fixation variants Practical 2: Occipital plate placement, C3,C4 lateral mass screw, possible subaxial spine pedicle screw, cervico-occipital fixation C0-C1,C2,C3,C4	
12:30 - 13:30	LUNCH BREAK	

Thursday, April 2, 2020

TIME	AGENDA ITEM	Who
	Session 2: Thoracic spine	**A Lazary**
13:30 - 13:35	Case presentation 2: Posterior column osteotomy - thoracic spine	J Skala-Rosenbaum
13:35 - 13:40	Lecture 2: Pedicle screw insertion in thoracic and lumbar spine : freehand technique	M Bozik
13:40 - 13:50	Lecture 3: PCO in thoracic and lumbar spine- Indications and technique	M Vorsic
13:50 - 14:05	Group discussion	
14:05 - 14:10	Case solution 2: Posterior column osteotomy - thoracic spine	J Skala-Rosenbaum
14:10 - 14:15	Case presentation 3: Vertebral column resection/ posterolateral spondylectomy	A Lazary
14:15 - 14:25	Lecture 4: VCR in thoracic spine region: indications and technique	P Tropiano
14:25 - 14:40	Group discussion	
14:40 - 14:45	Case solution 3: Vertebral column resection/posterolateral spondylectomy	A Lazary
14:45 - 14:55	Summary and Take home Message	A Lazary
14:55 - 15:15	COFFEE BREAK	
15:15 - 17h45	**Practical Excercices 2: Thoracic spine**	**all**
	Practical 3: Posterior approach, pedicle screw placement (free hand technique), multiple PCO (Ponte), T10,T9,T8-T7,T6,T5 posterior fixation	
	Practical 4: T8 vertebral column resection/posterolateral T8 spondylectomy, anterior cage placement	
17:45 - 18:00	Summary of day 1	Michal Bozik
19:30 - 22:00	COURSE DINNER	

Friday, April 3, 2020

TIME	AGENDA ITEM	WHO
	Session 3: Lumbar spine	**J Skala-Rosenbaum**
08:30 - 08:35	Case presentation 4: Pedicle substraction osteotomy – lumbar spine	A Lazary
08:35 - 08:50	Lecture 5: Pedicle substraction osteotomy in lumbar spine region: Indications and technique	P Vachata
08:50 - 09:05	Group discussion	
09:05 - 09:10	Case solution 4: Pedicle substraction osteotomy – lumbar spine	A Lazary
09:10 - 09:15	Summary and take home message	J Skala-Rosenbaum
	Session 4: Lumbo-sacral junction and pelvis	**P Vanek**
09:15 - 09:20	Case presentation 5: Long construct fixation to the pelvis	P Vachata
09:20 - 09:30	Lecture 6: Fixation to sacrum and pelvis: Indications and techniques	A Lazary
09:30 - 09:45	Groups discussion	
09:45 - 09:50	Case solution 5: Long construct fixation to the pelvis	P Vachata
09:50 - 10:00	Summary and take home message	P Vanek
10:00 - 10:15	COFFEE BREAK	
10:15 - 13:00	**Practical Excercices 3: Lumbar spine, sacrum and pelvis**	**all**
	Practical 5: L3 3CO - pedicle substraction osteotomy	
	Practical 6: Posterior approach, S1 pedicle screw placement, S2-Ilium screw placement, Iliac screw placement	
13:00 - 13:15	Closing remarks, certificates	

Event organization

AOSpine Europe
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AO funding sources
Unrestricted educational grants from different sources are collected and pooled together centrally by the AO Foundation. All events are planned and scheduled by local and regional AO surgeon groups based on local needs assessments. We rely on industrial/ commercial partners for in-kind support to run simulations/skills training if educationally needed.

Registration and venue

Registration

AOSpine Members	873 Euros
AOSpine non-Members	970 Euros

Included in registration fee
Conference bag with documentation, coffee breaks, lunches, course dinner and course certificate.

Online registration and payment:
http://brno2004.aospine.org

Event venue
Educational Centre for Practical Anatomy
ECPA-CZ, o.p.s.
Department of Anatomy, Faculty of Medicine, Masaryk University
Kamenice 3
Brno

Event information and logistics

AO Course Central Eastern Europe
Jaroslava Horakova
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Event organisation compliance:
In certain countries where AO has no office but offers educational events, the AO cooperates with third party companies to conduct local organization and logistics, as well as to communicate with participants in the local language. In these cases the AO has put rules and guidelines in place (Letter of Secondment, AO Foundation—Principles of AO Educational Events) to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

European CME Accreditation and Compliance

An application will be made to the UEMS-EACCME® for CME accreditation of this event.

An application will be made to MedTech for compliance approval of this event.

Evaluation guidelines
All AOSpine events apply the same evaluation process either online (pre- and post- evaluation) or/and on-site by audience system ARS) or paper and pencil questionnaires. This will help us to ensure that we continue to meet your training needs.

AO Foundation—Principles of AO Educational Events

1) Academic independence
Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer surgeons from the AO network. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving the expertise of the AO Education Institute (www.aofoundation.org).
Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and to keep content free from bias.

2) Compliance to accreditation and industry codes
All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality education:
- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, USA (www.accme.org)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (www.uems.eu)

Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as:
- Eucomed Guidelines on Interactions with Healthcare Professionals (www.medtecheurope.org)
- AdvaMed Code of Ethics on Interactions with Health Care Professionals (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

3) Branding and advertising
No industry logos or advertising (with the exception of the AO Foundation and AO Clinical Division) are permitted in the area where educational activities take place.

Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

4) Use of technologies and products in simulations
If case simulations are chosen as an educational method to educate skills, we only use technology approved by the AOTK System (AOTK)—a large independent group of volunteer surgeons developing and peer-reviewing new technology (more information about AOTK, its development and approval process can be found on the AO Foundation website: www.aofoundation.org).

5) Personnel
Industry staff is not allowed to interfere with the educational content or engage in educational activities during the event.

General information

No insurance: The event organization does not take out insurance to cover any individual against accidents, theft, or other risks.

Security: Access permitted with badge only.

Dress code: Casual

Course language: English

Mobile phone use is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

Sponsor

We thank our major industry partner DePuy Synthes for providing an unrestricted educational grant and in-kind support for this event.

Intellectual property: Course materials, presentations, and case studies are the intellectual property of the faculty. All rights are reserved. Check hazards and legal restrictions on www.aofoundation.org/legal. Recording, photographing, or copying of any course materials is absolutely forbidden. The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and made available to the public.

AOSpine Webinars 2020 (free for AOSpine members)

AOSpine Masters Webinar—Surgery of spinal tumors
February 20, 2020 | Presenter: Ufuk Aydinli
AOSpine Masters Webinar—Bilateral Decompression of Lumbar Spinal Stenosis via a Monolateral Approach
April 2, 2020 | Presenter: Andreas Korge
AOSpine Principles Webinar—Osteoporotic fractures: state of the art
April 23, 2020 | Presenter: Matti Scholz
AOSpine Principles Webinar—Spondylodiscitis
May 28, 2020 | Presenter: Enrico Pola
AOSpine Webinar avancé—Fractures transversales hautes du sacrum
June 5, 2020 | Presenter: Hugues Pascal-Moussellard
AOSpine Principles Webinar—Craniocervical surgery
July 23, 2020 | Presenter: Massimiliano Visocchi
AOSpine Advanced Webinar—Metastatic spinal cord compression
August 27, 2020 | Presenter: Marko Neva
AOSpine Principles Webinar—MISS in lumbar canal stenosis
September 24, 2020 | Presenter: Richard Assaker
AOSpine Advanced Webinar—Minimal invasive scoliosis surgery
October 22, 2020 | Presenter: Mark Altena
AOSpine Principles Webinar—Sagittal balance in the elderly
November 26, 2020 | Presenter: Patrick Tropiano