Preliminary program

AOSpine Principles Course—Spinal trauma

22–23 March, 2018

Sofia, Bulgaria
Welcome to Sofia

Dear colleagues,

On behalf of AOSpine Europe we would like to warmly welcome you to the AOSpine Principles Course—Spinal trauma in Sofia.

Spinal trauma is amongst the most frequent and potentially devastating pathologies that spinal surgeons have to deal with. Frequently diagnosis, therapeutic decision and even surgical treatment have to be made under the pressure of the elapsing time. This makes good training mandatory for good results.

We will discuss different traumatic entities in the cervical, thoracic and lumbar spine, their classification, prognosis and possible surgical treatment.

We expect that the planned combination of lectures elucidating the theory, case presentations, real life examples and hands-on training will have a high educational impact for the treatment of this challenging pathology.

The success of the course depends not only on the faculty, but also on you. Although this is a principle course, we shall expect a very active participation from all the attendees. Questions, discussion and the personal case presentations are more than welcome.

Sincerely

Nikolay Gabrovsky
Chairperson
University Hospital Pirogov
Sofia
Bulgaria

Patrick Tropiano
Educational Advisor
Hôpital de la Timone
Marseille
France
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

The course will be focused on the basics of cervical and thoracolumbar spinal trauma.

The participants will become familiar with the anatomical and biomechanical particularity of the spine in the context of spinal trauma. We shall elucidate the mechanisms of the spinal injury and the concepts of stability and instability. The classification of the atlanto-axial, subaxial cervical and thoracolumbar traumatic fractures of the spine will be presented with discussion on the suitable surgical treatments.

We have prepared a combination of lectures elucidating the theory, case presentations, real life examples and hands-on training with high educational impact.

Target participants

The course is targeted to certified neurosurgeons or orthopedic surgeons with experience of 1 to 5 years or specialists expecting to deal with spinal trauma.

Learning objectives

After the event, participants will be able to:

- Correctly examine patient with spinal trauma
- Determine the appropriate imaging modality
- Classify the injury according to the AOS principles
- Identify the most suitable method of treatment
- Acquire basic skills in different surgical techniques related to the treatment of spinal trauma
- Identify and manage pathological fractures.
Chairperson
Nikolay Gabrovsky University Hospital Pirogov, Sofia, Bulgaria

Educational advisor
Patrick Tropiano Hôpital de la Timone, Marseille, France

Regional faculty
Charles Court Hôpital KrèmeLIN Bicêtre, Le Kremlin Bicêtre, France
Jérôme Tonetti CHU Grenoble Alpes, Grenoble, France

National faculty
Yavor Enchev University Hospital "St. Marina", Varna, Bulgaria
Vasil Karakostov University Hospital “Sv. Ivan Rilsky,” Sofia, Bulgaria
Nikolay Tivchev Serdika Hospital, Sofia, Bulgaria
### Thursday, March 22, 2018

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>Participants registration</td>
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<tr>
<td>09:00 - 09:15</td>
<td>Welcome and Introduction of AO Spine and Faculty</td>
<td>N Gabrovsky, P Tropiano</td>
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**Session 1: Spinal trauma—the basics**
Y Enchev
- 09:15 - 09:35 Lecture: Anatomy and biomechanics of the spine | N Gabrovsky
- 09:35 - 09:55 Lecture: Mechanism of spinal fractures—Stability and instability | J Tonetti
- 09:55 - 10:15 Lecture: Initial management, diagnosis, neurologic assessment | C Court
- 10:15 - 10:30 Questions and answers | V Karakostov

**Session 2: Subaxial cervical spine injuries**
C Court
- 10:30 - 10:45 Lecture: Imaging of spinal trauma | N Tivchev
- 10:45 - 11:00 Lecture: Why do we need classifications? | C Court
- 11:00 - 11:15 Lecture: The AOSpine classification | Y Enchev
- 11:15 - 11:45 COFFEE BREAK |

**Session 3: Trauma of the thoracolumbar spine**
N Tivchev
- 11:45 - 11:50 Case presentation: Trauma of the thoracolumbar spine | J Tonetti
- 11:50 - 12:05 Group discussions and presentations | all
- 12:05 - 12:20 Lecture: Surgical techniques in the thoracic spine | N Tivchev
- 12:20 - 12:35 Lecture: Surgical techniques in the lumbar spine | N Gabrovsky
- 12:35 - 12:40 Case solution: Cervico-thoracic junction | J Tonetti
- 12:40 - 12:45 Summary and take home message | N Tivchev
- 12:45 - 13:45 LUNCH BREAK |

**Session 4: Practical exercise 1**
- 13:45 - 14:45 Thoracolumbar pedicle screw placement | all
- 14:45 - 15:45 PLIF and TLIF | all
- 15:45 - 16:15 Coffee break |
- 16:15 - 17:15 Anterior and lateral approaches to the thoracolumbar spine | all
- 17:15 - 17:25 Summary of day 1 | N Gabrovsky
### Session 1: Trauma of the craniocervical spine

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<thead>
<tr>
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<tbody>
<tr>
<td>08:30</td>
<td>Case presentation: Trauma of the craniocervical spine</td>
<td>N Gabrovsky</td>
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<tr>
<td>08:35</td>
<td>Group discussions and presentations</td>
<td>all</td>
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<tr>
<td>08:50</td>
<td>Lecture: Classification of craniocervical spine injury</td>
<td>J Tonetti</td>
</tr>
<tr>
<td>09:05</td>
<td>Lecture: Surgical treatment of craniocervical spine injury</td>
<td>C Court</td>
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<tr>
<td>09:20</td>
<td>Case solution: Trauma of the craniocervical spine</td>
<td>N Gabrovsky</td>
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<tr>
<td>09:25</td>
<td>Summary and take home message</td>
<td>J Tonetti</td>
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### Session 2: Pathological fractures

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<tbody>
<tr>
<td>09:30</td>
<td>Case presentation: Metastasis</td>
<td>V Karakostov</td>
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<tr>
<td>09:35</td>
<td>Groups discussions and presentations</td>
<td>all</td>
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<tr>
<td>09:50</td>
<td>Lecture: Lecture: Metastatic lesions of the spine</td>
<td>N Gabrovsky</td>
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<tr>
<td>10:05</td>
<td>Case solution: Metastasis</td>
<td>V Karakostov</td>
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<tr>
<td>10:10</td>
<td>Summary and take home message</td>
<td>N Gabrovsky</td>
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<td>10:15</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:45</td>
<td>Case presentation: Osteoporosis</td>
<td>N Gabrovsky</td>
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### Session 3: Expert lectures

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<tr>
<td>11:30</td>
<td>Lecture: Spinal trauma - when to operate?</td>
<td>Y Enchev</td>
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<tr>
<td>11:45</td>
<td>Lecture: Neuroprotection in spinal trauma</td>
<td>J Tonetti</td>
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<tr>
<td>12:00</td>
<td>Lecture: Spinal trauma - state of the art and future perspectives</td>
<td>N Gabrovsky</td>
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<tr>
<td>12:15</td>
<td>Questions and answers, take home message</td>
<td>Y Enchev</td>
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<tr>
<td>12:30</td>
<td>LUNCH BREAK</td>
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### Session 4: Practical excercise II

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<tr>
<td>13:30</td>
<td>Anterior approaches to the cervical spine</td>
<td>all</td>
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<tr>
<td>13:30</td>
<td>Posterior approaches to the cervical spine</td>
<td>ALL</td>
</tr>
<tr>
<td>14:30</td>
<td>Closing remarks, Certificates</td>
<td>N Gabrovsky, P Tropiano</td>
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Event organization

**AOSpine Europe**
Catherine Antonetti
Stettbachstrasse 6
CH–8600 Dubendorf
Phone: +49 173 740 09 30
Fax: +49 761 21 41 38 99
Email: cantonetti@aospine.org
www.aospine.org

**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.

Event information and logistics

**AO Courses Central Eastern Europe countries**
Jaroslava Horakova
Phone: +42 736 681 505
Email: horakova.jarka@ao-courses.org

**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.

Registration and venue

**Registration fee**
AOSpine Members EUR 366.30
AOSpine non-Members EUR 390.–

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

**Online registration and payment:**
http://sliac1803.aospine.org

**Event venue**
Bulgarian Red Cross Headquaters
76, James Bourchier Blvd.
1407 Sofia
Bulgaria

**European CME Accreditation**
An application has been made to the UEMS—EACCME® in Brussels for CME accreditation 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.

**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 2018 (free for AOSpine members)

**29 March 2018**  
AOSpine Master Webinar—Implant related low grade infection  
Bernhard Meyer

**26 April 2018**  
AOSpine Master Webinar—Adolescent idiopathic scoliosis  
Dominique Rothenfluh

**24 May 2018**  
AOSpine Master Webinar—Intradural tumors  
Florian Ringel

**19 July 2018**  
AOSpine Master Webinar—Management of central cord syndrome  
Enrico Tessitore

**30 August 2018**  
AOSpine Principles Webinar—Lumbar spondylolisthesis  
Massimo Balsano

**27 September 2018**  
AOSpine Master Webinar—Posterior cervical surgery  
Carmen Vlegger-Lankamp

**18 October 2018**  
AOSpine Principles Webinar—Thoracic disc herniation  
John Duff

**29 November 2018**  
AOSpine Principles Webinar—Cervical spondylotic myelopathy  
Yu-Mi Ryang