



# BioSkills

Campus Zimmer Biomet  
Cervical Pathologies

*Hands on - Spine*

Tübingen, Germany  
11-12 September 2017

## BioSkills

Life is all about activity. At Zimmer Biomet Institute we therefore believe our delegates should play an active part when learning about new products, surgical techniques or the like. Get your hands and brains on human specimens, sawbones and instruments to deepen your knowledge and enhance your skills!

This course offers a comprehensive training in theoretical and practical aspects of the daily spine practice. The format of the course requires great involvement and commitment of all attendees. For the didactic session on day 1, each participants will be asked to prepare and present one lecture on one of the course topics. Each participant will be assigned a tutor. The tutor will guide and support the participant with the preparation of the lecture.

The specific course objectives include:

### Didactic session

- Understand the anatomy and Kinematics of the cervical spine.
- Assess the validity of the measurement scales of results in cervical pathology
- Debate treatment options for cervical pathology.
- Discuss and evaluate the treatment options and approaches in cervical fractures
- Assess when to treat cervical myelopathy.
- Discuss the management of cervical radiculopathy

### Practical session

- Identify the relevant cervical anatomy
- Perform a safe ACDF procedure
- Perform a vertebrectomy
- Perform a cervical arthroplasty.
- Perform a safe Lateral mass screw and cervical hooks placement technique
- C1 – C2 posterior fixation techniques

The Zimmer Biomet Institute wishes you a valuable and enjoyable training with us.

### Zimmer Biomet Institute

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Our continuum of education offers a vast range of opportunities to health care providers and Zimmer Biomet team members to **learn**, **interact**, **understand** and **share** knowledge about our products, services and about surgical philosophies through a variety of modalities.

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# Program

## Monday 11 September 2017

### 11:00 *Course opening & Introduction*

- 11:05 Relevant surgical anatomy of the cervical spine
- 11:25 Kinematics of the cervical spine
- 11:45 Medical history and physical examination
- 12:05 Imaging. Utility and need for different diagnostic tools
- 12:25 Electrophysiological evaluation. Usefulness of evoked potentials
- 12:45 Validity of the measurement scales of results in cervical pathology (criteria of Odom, NDI, Nurik, Japanese scale ..)

### 13:05 *Lunch*

- 13:50 Vertebral fractures. Classification. Surgical Treatment Criteria  
Case presentation
- 14:10 Cross fired.- Surgical management.- Anterior versus posterior route
- 14:45 Fracture of atlas and odontoid. Trends
- 15:05 Cervical sprain. Initial management. How much time should be treated

### 15:25 *Coffee Break*

- 15:55 Cord Injury. Current Concepts In ITS Management
- 16:15 When to treat cervical myelopathy. Treatment prognosis  
Case presentation
- 16:35 Cross fired: Laminoplasty, laminectomy or fusion

### 17:10 *Coffee Break*

- 17:40 Complications of cervical surgery  
Case presentation
- 18:00 Management of cervical radiculopathy: ACDF vs Cervical disc prosthesis

### 18:35 *Closing of the meeting - end day 1*

### 19:00 *Dinner*

## **Tuesday 12 September 2017**

### *Wet Lab Sessions*

08:30 Health and Safety

08:40 Change into scrubs

### *08:50 Wet Lab session 1*

#### Techniques

- Anterior cervical approach
- ACDF
- Vertebrectomy
- Cervical arthroplasty
- Lateral mass screws
- Cervical hooks
- C1-C2 posterior fixation techniques

*12:00 Lunch*

### *12:45 Wet Lab session 2*

#### Techniques

- Anterior cervical approach
- ACDF
- Vertebrectomy
- Cervical arthroplasty
- Lateral mass screws
- Cervical hooks
- C1-C2 posterior fixation techniques

14:45 Questions & Answers

*14:55 Evaluation & Closing of the meeting*

*15:00 Depart*







## Faculty

**Dr. Luis Alvarez Galovich**

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## Information

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### Venue

Anatomisches Institut der Universität  
Tübingen, Germany

### Language

English

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