

# 13<sup>th</sup> SPINE UPDATE

In collaboration with  
Zain Jamjoom Neurosurgery Skills Course

21-22 December 2023

## Theme:

Better surgery through Better knowledge of Anatomy

**DAY 1: December 21<sup>st</sup>, 2023**

**Lectures:** (8:00 to 8:40 am)

**Venue:** Clinical Skills and Simulation Center (second floor – West building- College of Medicine – King Saud University)

**Contact:** Ms. Sumayyah AbuNayyan, 0553120940 for Direction issues

LECTURE	ITEMS IN THE LECTURE	DURATION	SPEAKER
Lumbar Spine Anatomy (posterior): Fascia and Muscles	<ul style="list-style-type: none"> <li>- Anatomy of the Lumbar Fascia and posterior Para-Spinal muscles (with Relevant MRI anatomy images).</li> <li>- Relevant Surgical approaches (Open and MIS) relative to the anatomy of the muscles.</li> </ul>	10 min	Dr. Amro Al-Habib
Lumbar Spine Anatomy (posterior): Bone, facets, and Nerve Roots	<ul style="list-style-type: none"> <li>- Lumbar spine bone and joint anatomy.</li> <li>- Anatomy of the lumbar facet joints and Pedicles.</li> <li>- Anatomy of the lumbar nerve roots. Zones of nerve root anatomy. Nerve ganglia anatomy. Relevance of nerve roots to pedicle anatomy and lumbar discs. (with relevant MRI anatomy images of nerve roots).</li> </ul>	10 min	Dr. Mubarak Al-Qahtani
Thoracic and Lumbar spine anatomy: from the Lateral approach	<ul style="list-style-type: none"> <li>- Anatomy of the Psoas muscle and lumbar plexus.</li> <li>- Anatomy of external abdominal wall and its relevance to lateral and anterior spine approaches.</li> <li>- Thoracic vertebral anatomy, joints, rib anatomy, intercostal anatomy. Para vertebral vessel anatomy.</li> </ul>	10 min	Dr. Waleed Awwad
Sacrum and Pelvis Anatomy	<ul style="list-style-type: none"> <li>- Sacrum and pelvis anatomy: relevant points to the spine surgeon</li> </ul>	10 min	Dr. Shadi Shihata

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**Participants will be divided into groups based on the level of training and professional practice.**

- o Juniors: R 1 - 3
  - o Seniors: R 4 - 6
  - o Fellows
  - o Consultants
- Priority is for senior residents and fellows.
- **Eight** groups will be assigned to:
- cadavers in the morning session and will switch to the simulation lab in the afternoon and vice versa for the other 4 groups.
- The cadaver stations will cover posterior thoracic and lumbar spine anatomy dissection.
- The simulation models will cover open and MIS instrumentation of the Lumbar spine.
- Each group is 4 participants based on first-come first-serve.
- Each group will utilize one cadaver/ model for the whole course during a half-day session.

### 1. Cadavers

- Half day (one group in the morning or and another in the afternoon)
- 5 stations: 4 stations for candidates and one for instructors
- Objective of anatomic dissection in each station
- **Cadavers prone:**
  - o Identify and dissect lumbar and thoracic fascia and para spinal muscles
  - o Isolate the lumbar and thoracic facet joints and pedicles and learn relationship of the nerve roots.
  - o Identify relationship of the nerve roots to the lumbar disc and relevant pedicle
  - o Open dura, identify intradural structures
  - o Advanced (two fellow stations):
    1. Pedicle subtraction osteotomy
    2. Thoracotomy, vertebral body resection and reconstruction
      - Dissect the ribs and identify intercostal vessels
      - Resect the rib and learn trajectory to thoracic spine
      - Expose the thoracic vertebra, dissect segmental vessels, and learn relationship to Aorta and Vena Cava
      - Perform thoracic vertebrectomy and cord decompression with reconstruction

### 2. Surgical simulation

- Half day (one group in the morning or and another in the afternoon)
- 4 rooms (90 minutes each). Each candidate with rotate into two stations:
  - 1- Lumbar stenosis / disc prolapse model: Open technique.
  - 2- MIS technique for lumbar pedicle screw insertion – (Navigation model).

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**DAY 2: December 22<sup>nd</sup>, 2023**

Case Forum on thoracic and lumbar spine pathology.

**Venue:** Crowne Plaza Riyadh Rdc Hotel & Convention

TIME	TOPIC	SPEAKER
03:00 - 03:50 pm	Registration	
03:50 - 04:00 pm	Welcome Message	
<b>Moderators:</b> Dr. Wasif Alsibae   Dr. Ahmed Alzahrani   Dr. Abdulrahman Alarjani		
04:00 - 04:15 pm	Scoliosis case with possible need for revision	Dr. Salah Khalifa
04:15 - 04:30 pm	Spine and Helicopter, similarities and differences. Traumatic spine injuries cases	Dr. Ibrahim Alnaami
04:30 - 04:45 pm	Unusual presentation of mid-back pain	Dr. Mohamed Malabari
04:45 - 05:00 pm	Severe Post-traumatic Thoracolumbar Kyphosis; Different Approaches	Dr. Ibrahim Al-Assiri
05:00 - 05:30 pm	Prayer & Break	
<b>Moderators:</b> Dr. Ibrahim Assiri   Dr. Ibrahim Alnaami   Dr. Mubarak Alqahtani   Dr. Husam Alhabib		
05:30 - 05:45 pm	L4/5 spondylolisthesis : To fuse or not to fuse	Dr. Abdulkarim Alrabie
05:45 - 06:00 pm	Thoracic TB with kyphotic deformity	Dr. Abdulmajeed Alahmari
06:00 - 06:15 pm	Management of a tumor in a patient below the age of 2 years	Dr. Anouar Bourghli
06:15 - 06:30 pm	lumbar spinal epidural abscess , pre-operative assessment and intraop challenges	Dr. Fawaz Almotairi
06:30 - 06:45 pm	Break	
<b>Moderators:</b> Dr. Khalid Siddiqui   Dr. Saad Surur   Dr. Dhawi Alotaibi		
06:45 - 07:00 pm	Cord compression and loss of function shall we operate?	Dr. Waleed Awwad
07:00 - 07:15 pm	Degenerative scoliosis in Parkinson's patient	Dr. Abdulhadi Alqahtani
07:15 - 07:30 pm	L1 fracture management.. went out of control !	Dr. Shaker Al-Shehri
07:30 - 07:45 pm	Signal changes while operating on spine deformity	Dr. Sami Aleissa
07:45 - 08:00 pm	Break	



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TIME	TOPIC	SPEAKER
<b>Moderators:</b> Dr. Waleed Awwad   Dr. Abdulwahed Barnawi		
08:00 - 08:15 pm	Brucellosis in spine	Dr. Mohammed Alswat
08:15 - 08:30 pm	Lumbar degenerative scoliosis: case presentation and management	Dr. Jihad Ahmad
08:30 - 08:45 pm	Bertolotti's syndrome .. full endoscopic treatment	Dr. Hussam Jabri
08:45 - 09:00 pm	Thoracic disc compression... an alternate way to manage	Dr. Amro Al-Habib
09:00 - 09:30 pm	<b>Career Experience session: Open forum</b> - Career advancement - Patient encounter/medicolegal - What worked, and what didn't !	Dr. Sami Aleissa Dr. Mubarak Alqahtani Dr. Abdulrahman Alrjani Dr. Ibrahim Alassiri Dr. Khalid Siddiqui Dr. Salah Alakkad

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## COURSE FACULTY:

1- Dr. Amro Al-Habib, Riyadh

2- Dr. Fawaz Almotairi, Riyadh

3- Dr. Abdulkarim Al Rabie, Riyadh

4- Dr. Salah Alakkad, Dammam

5- Dr. Sami Aleissa, Riyadh

6- Dr. Ibrahim Alnaami, Abha

7- Dr. Mubarak Alqahtani, Abha

8- Dr. Jihad Ahmad, Abha

9- Dr. Rakan Bokhari, Jeddah

10- Dr. Yaser Babgi, Jeddah

11- Dr. Mohamed Malabari, Jeddah

12- Dr. Mahdi Bassi, Jeddah

13- Dr. Yahya Khormi, Jizan

14- Dr. Khalid Siddiqui, Dammam

15- Dr. Abdulmajeed Alahmari, Riyadh

16- Dr. Ibrahim Al-Assiri, Riyadh

17- Dr. Husam Alhabib, Dammam

18- Dr. Osama Alruhaily, Riyadh

19- Dr. Mohammed Alswat, Makkah

20- Dr. Sherif Alwatidy, Riyadh

21- Dr. Abdulhadi Alqahtani, Jeddah

22- Dr. Waleed Awwad, Riyadh

23- Dr. Shadi Shehata, Jeddah

24- Dr. Anouar Bourghli, Riyadh

25- Dr. Shaker Al-Shehri, Abha

26- Dr. Abdulwahed Barnawi, Riyadh

27- Dr. Hussam Jabri, Riyadh

28- Dr. Dhawi Alotaibi, Riyadh

29- Dr. Khaled Assiri, Dammam

30- Dr. Ahmed Alzahrani, Riyadh

31- Dr. Ahmed Aljeshi, Riyadh

32- Dr. Abdulrahman Alarjani, Riyadh

33- Dr. Abdulaziz bin Shebreen, Riyadh

34- Dr. Saad AlSurur, Riyadh

35- Dr. Wasif Alsibae, Riyadh

36- Dr. Salah Khalifa, Jeddah