



AOSpine Principles Course—Anatomical Principles of Spinal Fusion

05 Mar 2020 - 06 Mar 2020, Warsaw, Poland

Thursday, 05 Mar 2020 (Day 1)					
Start	End	Title	Moderators/Faculty	Location/Documents	Duration
08:00	08:30	Participant registration			30
08:30	08:45	Presentation Welcome and Introduction to AOSpine	Grzegorz Miekisiak; Alexandre Mushkin		15
08:45	10:40	Session 1: General aspects of spinal instrumentation	Grzegorz Miekisiak		115
08:45	09:00	Lecture Lecture: Biology and biomechanics of fusion	Attila Schwarcz		15
09:00	09:15	Lecture Lecture: Modern techniques of instrumented fusion	Alexandre Mushkin		15
09:15	09:40	Case presentation Case presentation: TLIF – the simplest case	Aron Lazary		25
09:40	10:05	Case presentation Case presentation: Posterolateral fusion	Tomasz Potaczek		25
10:05	10:30	Case presentation Case presentation: Spinal tumor	Rafal Zaluski		25
10:30	10:40	Discussion Discussions-Take-home message			10
10:40	11:00	Coffee break			20
11:00	13:00	Session 2: Anatomical features of Th/L spine	Attila Schwarcz		120
11:00	11:15	Lecture Lecture: The surgical anatomy of lumbar spine	Aron Lazary		15



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11:15	11:30	Lecture Lecture: The surgical anatomy of thoracic spine	Tomasz Potaczek		15
11:30	12:45	Workshop (dry bone) Practical exercise I Pedicle screws placement in the TL spine			75
12:45	13:00	Discussion (small group) Group discussion: Tips and tricks in the TL spine			15
13:00	14:00	Lunch break			60
14:00	18:15	Session 3: Cervical spine	Przemysław Kołakowski		255
14:00	14:15	Lecture Lecture: The surgical anatomy of the craniocervical junction	Rafał Zaluski		15
14:15	14:30	Lecture Lecture: The surgical anatomy of the subaxial spine	Przemysław Kołakowski		15
14:30	14:45	Lecture Lecture: Inflammatory diseases of the C spine: surgical anatomy (or lack thereof)	Alexandre Mushkin		15
14:45	15:00	Case presentation Case discussion: Cervical spondylotic myelopathy	Attila Schwarcz		15



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Start	End	Title	Moderators/Faculty	Location/Documents	Duration
15:00	15:15	Case presentation Case discussion: Inflammatory disease of the cervical spine: instrumented fusion	Alexandre Mushkin		15
15:15	15:30	Lecture Lecture: Severe cervical spondylotic myelopathy. Surgical approaches	Marek Roclawski		15
15:30	15:45	Case presentation Case discussion: Cervical spondylotic myelopathy	Przemysław Kołakowski		15
15:45	16:15	Coffee break			30
16:15	17:45	Workshop (dry bone) Practical exercise II Lateral mass screws Cervical laminoplasty C1/C2 various fusions (Harms, C1/2 anterior and posterior facet screws)			90
17:45	18:00	Discussion (small group) Group discussion: Tips and tricks in the cervical spine			15
18:00	18:15	Closing remarks Take-home message day 1	Grzegorz Miekisiak; Alexandre Mushkin		15

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Friday, 06 Mar 2020 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
08:30	10:30	Session 4: Pitfalls	Przemysław Kołakowski		120
08:30	08:45	Lecture Lecture: Sources of error in lumbosacral spine instrumented fusion	Marek Roclawski		15
08:45	09:00	Lecture Lecture: Potential problems in the thoracic spine surgery	Tomasz Potaczek		15
09:00	09:15	Lecture Lecture: Challenges in the C spine surgery	Przemysław Kołakowski		15
09:15	10:30	Workshop (dry bone) Practical exercise III Osteotomy techniques in C and TL spine (type I – VI by Schwab)			75
10:30	10:45	Coffee break			15
10:45	12:45	Session 5: Pitfalls II	Marek Roclawski		120
10:45	11:00	Lecture Lecture: The right fusion for the right patient	Aron Lazary		15
11:00	11:15	Lecture Lecture: Revision strategies for failed fusion	Tomasz Potaczek		15
11:15	11:30	Case presentation Case discussion: Failed fusion	Alexandre Mushkin		15



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Friday, 06 Mar 2020 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
11:30	12:45	Workshop (dry bone) Practical exercise IV Revision strategies for failed fusion in the posterior TL and C spine. Treatment of rigid kyphosis.			75
12:45	13:00	Coffee break			15
13:00	14:00	Session 6: Challenges	Aron Lazary		60
13:00	13:15	Case presentation Case discussion: Poor bone quality	Rafal Zaluski		15
13:15	13:30	Case presentation Case discussion: Crazy anatomy	Tomasz Potaczek		15
13:30	13:45	Case presentation Case discussion: Surgical despair	Marek Roclawski		15
13:45	14:00	Presentation Take-home message	Grzegorz Miekisiak; Alexandre Mushkin		15