

SCOLIOSIS RESEARCH SOCIETY
Spine Deformity Solutions: A Hands-On Course
June 1-3, 2022 | Bordeaux, France
The Université of Bordeaux France

FINAL PROGRAM

MEETING OVERVIEW

Meeting Description

The Hands-On Course will provide an opportunity for participants to expand their knowledge and improve their skills through training and discussions with leading spinal deformity surgeons from around the world. Registration is limited to ensure access to faculty, small group interaction for better learning, and opportunities for hands-on work. Nine hours of the course will be devoted to lab work. Topics and lab sessions will cover all areas of the spine and a variety of conditions and techniques.

Learning Outcomes/Objectives

As a result of participating in this activity, participants should be able to:

- Identify appropriate options for cervical and adult deformity reconstruction
- Employ techniques to avoid complications in spinal deformity surgery
- Develop skills in complex cervical deformity correction
- Identify the appropriate indications for the use of spinopelvic instrumentation
- Demonstrate skills for the correct placement of spinopelvic instrumentation
- Integrate techniques for posterior and anterior lumbo-sacral deformity corrections
- Demonstrate knowledge and skills for performing basic and complex spinal osteotomies

FACULTY

Course Chairs

Munish Gupta, MD
St. Louis, USA

Ibrahim Obeid, MD
Bordeaux, France

Course Faculty*

Christopher Ames
San Francisco, USA

*Meric Enercan, MD
Istanbul, Turkey*

Ferran Pellise, MD, PhD
Barcelona, Spain

Haluk Berk
Izmir, Turkey

*Pawel Grabala, MD, PhD
Bialystok, Poland*

Martin Repko, MD, PhD
Brno, Czech Republic

Marinus de Kluever, MD, PhD
Nijmegen, Netherlands

*Henry Halm, MD
Neustadt, Germany*

Christopher Shaffrey, MD
Durham, USA

GENERAL MEETING INFORMATION

Target Audience

Residents, fellows and orthopaedic and neurosurgeons who have an interest in and are involved in spinal deformity management and treatment.

Language

English is the official language of the course, and all presentations and course materials will be provided in English.

Attire

Business casual attire is appropriate for the Fireside Chats. Casual attire and scrubs are appropriate for the lecture and lab sessions. Scrubs, disposables, and lead aprons will be provided at the lab. ***Thyroid protection will not be provided at the lab. Participants will need to provide their own thyroid shields if they need or want them.***

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of the Scoliosis Research Society (SRS). SRS is accredited by the ACCME to provide continuing medical education for physicians.

The Scoliosis Research Society (SRS) designated this live activity for a maximum of 16.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Claiming Credit

Attendees can claim ACCME® credits exclusively online at www.srs.org/sds following the submission of the course evaluation.

Special Needs

If you have health issues for which you may require special accommodations, please notify the SRS staff onsite. We will make every effort to accommodate any special needs.

FDA Statement (United States)

Some drugs and medical devices demonstrated during this course have limited FDA labeling and marketing clearance. It is the responsibility of the physician to be aware of drug or device FDA labeling and marketing status.

Insurance/Liabilities and Disclaimer

SRS will not be held liable for personal injuries or for loss or damage to property incurred by participants. Course participants are encouraged to take out insurance to cover loss incurred in the event of cancellation, medical expenses or damage to or loss of personal effects when traveling outside of their own countries. SRS cannot be held liable for any hindrance or disruption of course proceedings arising from natural, political, social or economic events or other unforeseen incidents beyond its control. Registration of a participant or guest implies acceptance of this condition.

The materials presented at this activity are made available for educational purposes only. The material is not intended to represent the only, nor necessarily best methods or procedures appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty that may be helpful to others who face similar situations.

SRS disclaims any and all liability for injury or other damages resulting to any individual attending a scientific meeting and for all claims that may arise out of the use of techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or any other person.



Disclosure of Conflict of Interest

It is the policy of SRS to insure balance, independence, objectivity and scientific rigor in all of their educational activities. In accordance with this policy, SRS identifies conflicts of interest with instructors, content managers, and other individuals who are in a position to control the content of an activity. Conflicts are resolved by SRS to ensure that all scientific research referred to, reported, or used in a CME activity conforms to the generally accepted standards of experimental design, data collection and analysis.

CONFLICT OF INTEREST DISCLOSURES

Christopher Ames	Stryker Spine (g); Biomet Zimmer Spine (g); DePuy Synthes (g); NuVasive (g); Next Orthosurgical (g); K2M (g); Medicrea (g); DePuy Synthes (b); Medtronic (b); Medicrea (b); K2M (b); Titan Spine (a); DePuy Synthes (a); ISSG (a); Operative Neurosurgery (g); SRS (a); ISSG (g); Global Spinal Analytics (g); University of California, San Francisco (f)
Haluk Berk	No Relationships
Marinus De Kleuver	Medtronic (d, e)
Meric Enercan	No Relationships
Pawel Grabala	NuVasive (a,b); DePuy (a)
Munish Gupta	DePuy Synthes (b, e, g); Medtronic (b, e, g); Globus Medical (b, g); Innomed (g);
Henry Halm	NuVasive (a,b); Silony Medical (a,b)
Ibrahim Obeid	Alphatec Spine (g); DePuy Synthes (a,b); Medtronic (b); Medicrea (g); Spineart (g)
Ferran Pellise	DePuy Synthes (a); Medtronic (a, b); Stryker Spine (b)
Martin Repko	No Relationships
Christopher Shaffrey	NuVasive (a, b, c, g)

Key:

a – grants/research support; b – consultant; c – stock/shareholder (self-managed); d – speaker's bureau; e – advisory board or panel; f – employee, salary (commercial interest); g – other financial or material support (royalties, patents, etc.)

LOCATION INFORMATION

Wednesday, June 1 | Registration and Fireside Chat Case Discussions

IBIS Bordeaux Centre Meriadeck

35 cours du Maréchal uin
33000 Bordeaux France

[Directions by Car](#)

[Directions by Public Transport](#)

Thursday, June 2 and June 3 | Lecture Sessions and Practical Exercises

The Université of Bordeaux

École de Chirurgie de Bordeaux
Laboratoire d'Anatomie
Bâtiment T.P / R.D.C.
146 rue Léo Saignat
33076 Bordeaux Cedex

[Directions by Car](#)

[Directions by Public Transport](#)

WEDNESDAY, June 1, 2022

IBIS Bordeaux Centre Meriadeck

17:00-18:00

Faculty Pre-Course Meeting

Room: IBIS Bordeaux Centre Meriadeck

18:00-18:30

Participant Registration

Location: IBIS Bordeaux Centre Meriadeck

After check-in, attendees will be directed to their designated fireside chat rooms for small group case discussions.

Hors d'oeuvres and beverages will be available inside the discussion rooms.

18:30-20:30

Fireside Chat Case Discussions: Pediatric & Adult Spine Deformity (2 Concurrent Sessions)

Theme: Radiographic Evaluation and Planning for Correction of Spinal Deformity

18:30-20:30 **1. Pediatric & Adult Spine Deformity – Room 1:**

Moderator: Ibrahim Obeid, MD

Pediatric Case Presenters: Pawel Grabala, MD, Haluk Berk, MD

Adult Case Presenters: Christopher Ames, MD, Marinus de Kleuver, PhD

18:30-20:30 **2. Pediatric & Adult Spine Deformity – Room 2:**

Moderator: Munish Gupta, MD

Pediatric Case Presenters: Meric Enercan, MD, Ferran Pellise, MD, PhD

Adult Case Presenters: Martin Repko, MD, PhD, Christopher Shaffrey, MD



THURSDAY, June 2, 2022

7:00-7:30

Faculty Tram to Lab

7:30-8:00

Changing Rooms Available

Room 1

7:30-8:00

Welcome and Coffee in Lounge | Breakroom

8:00-8:50

Session 1: Thoracolumbar Open and Minimally Invasive Posterior Techniques | Room: Conference Room 1

Moderator: Ibrahim Obeid, MD

8:00-8:05

Course Welcome & Introduction of the Team

Munish Gupta MD, Ibrahim Obeid, MD

8:05-8:15

Fixation of Thoracic, Lumbar, Sacrum, and Pelvis (Hooks, Pedicle Screws, Iliac Screws, and S2Ala-Ilium Screws Fixation)

Meric Enercan, MD

8:15-8:25

Minimally Invasive Stabilization of the Thoracolumbar Spine with Percutaneous Screws and Navigation

Pawel Grabala, MD

8:25-8:35

Direct Lateral (Trans Psoas) and Oblique Lateral Approach to the Lumbar Spine-Degenerative Condition

Ferran Pellise, MD, PhD

8:35-8:45

Discussion

8:50-9:05

Proceed to lab and dress into disposable surgical gowns

Room 15 & Room 4

9:05-10:35

Practical Exercise 1A-B, Rotation 1

Lab Room A (Stations 1-5) - Cadavers in lateral decubitus position, left side up

Lab Room B (Stations 6-10) - Cadavers prone position

Group 1

Practical Exercise 1A: Anterior Interbody Fusion (Cadavers Lateral) (with fluoroscope) – Lab Room A

Lateral Lumbar Approach (from left side), Interbody Fusion (L1-2, L2-3)

(Each group does two discs in the upper lumbar spine)

Group 2

Practical Exercise 1B: Posterior Instrumentation (Cadavers Prone) (without fluoroscope) – Lab Room B

Thoracic-Lumbar-Ilium; Insertion of Hooks and Pedicle Screws; Sacro-Pelvic Fixation; S2Ala-Ilium Screws. Open, anatomy based. (Left side only)

10:35-11:05

Refreshment Break in Lounge | Breakroom

(Lab staff to rotate cadavers to right side)



11:05-12:35

Practical Exercise 1A-B, Rotation 2

Lab Room A (Stations 1-5) - Cadavers in lateral decubitus position, right side up

Lab Room B (Stations 6-10) - Cadavers prone position

Group 2 **Practical Exercise 1A: Anterior Interbody Fusion (Cadavers Lateral) (with fluoroscope)** - Lab Room A
Lateral Lumbar Approach (from left side), Interbody Fusion (L3-4, L4-5)
(Each group does two discs in the upper lumbar spine)

Group 1 **Practical Exercise 1B: Posterior Instrumentation (Cadavers Prone) (without fluoroscope)** - Lab Room B
Thoracic-Lumbar-Ilium; Insertion of Hooks and Pedicle Screws; Sacro-Pelvic Fixation; S2Ala-Ilium Screws.
Open, anatomy based. (Right side only)

12:35-13:15

Lunch and Group Photo

(Lab staff to turn cadavers to prone position)

Room: Breakroom

13:15-14:05

Session 2: Osteotomies and Pelvic Fixation | Room: Conference Room 1

Moderator: Martin Repko, MD, PhD

13:15-13:25 **Posterior Column Osteotomies Including Wide Release Ponte & Smith-Peterson Osteotomy**
Meric Enercan, MD

13:25-13:35 **Pedicle Subtraction Osteotomy (PSO)**
Munish Gupta, MD

13:35-13:45 **Vertebral Column Resection (VCR)**
Ibrahim Obeid, MD

13:45-13:55 **Complications of Osteotomies**
Martin Repko, MD, PhD

13:55-14:05 **Discussion**

14:05-14:15

Proceed to Lab | Room 4 & 15

14:15-16:45

Practical Exercise 2: Posterior Spinal Osteotomies (All Cadavers Prone Position)

Lab Room A (Stations 1-5); Lab Room B (Stations 6-10)

Posterior Column Osteotomies, Ponte multiple levels between L1-L5, Smith-Peterson Osteotomy (SPO), Pedicle Subtraction Osteotomy (PSO) in the Lumbar Spine (at L3), Vertebral Column Resection (VCR) of the Thoracic Spine (at T9). Participants share left/right side.

15:00-16:00

Beverage Available in Lounge | Breakroom

16:45-17:00

Change Clothes

(Lab staff to turn cadavers to supine position)

Room 1



17:00-17:30

Faculty Tram to Hotel

19:00-21:00

Faculty and Industry Dinner (by invitation only).

Participant free night out.

FRIDAY, June 3, 2022

TBD

7:00-7:30

Faculty Tram to Lab

7:30-8:00

Changing Rooms Available

Room 1

7:30-8:00

Welcome and Coffee in Lounge | Breakroom

8:00-9:00

Session 3: Cervical Deformity: Indications, Approach, and Execution | Room: Conference Room 1

Moderator: Christopher Shaffrey, MD

8:00-8:10

Anterior Cervical Discectomies and Corpectomies

Chris Ames, MD

8:10-8:20

Occipital and Cervical Fixation with Cervical Pedicle Screws and Lateral Mass Screws

Chris Ames, MD

8:20-8:30

Planning and Execution for Cervical Osteotomies

Christopher Shaffrey, MD

8:30-8:40

Complications of the Cervical Spine

Christopher Shaffrey, MD

8:40-9:00

Discussion

9:00-9:15

Proceed to lab and dress into disposable surgical gowns

Room: Room 4 & 15

9:15-10:45

Practical Exercise 3A: Anterior Approaches to the Cervical Spine and Cervicothoracic Junction (All Cadavers Supine Position)

Lab Room A (Stations 1-5); Lab Room B (Stations 6-10)

Interbody Fusion and Corpectomy, Sternotomy, and Approach to Upper Thoracic Spine

10:45-11:15

Refreshment Break in Lounge | Breakroom

(Lab staff to turn cadavers to prone position)

11:15-12:45

Practical Exercise 3B: Posterior Cervical Reconstruction from Occipital to T2 (All Cadavers Prone Position)

Lab Room A (Stations 1-5); Lab Room B (Stations 6-10)

Posterior Instrumentation: Occipital Plate, C2 Pedicle Screws, C3-C7 Pedicle Screws, C7 Osteotomy. Open Anatomy Based.

12:45-13:25

Lunch

(Lab staff to turn cadavers to lateral position)

Room: Breakroom



13:25-14:35

Session 4: Anterior and Lateral Approach: Thoracic and Lumbar Spine | Room: Conference Room 1

Moderator: Marinus de Kleuver, MD, PhD

13:25-13:35 **Anterior Spinal Surgery for Scoliosis Overview**

Henry Halm, MD

13:35-13:45 **Anterior Transpleural Thoracic Approaches- Deformity, Tumor, Trauma: Lateral (Flank) Thoracolumbar- Lumbar Retroperitoneal Approach for Anterior Column Reconstruction and Release**

Ferran Pelise, MD

13:45-13:55 **Anterior Techniques with Anterior Lumbar Interbody Fusion, Retroperitoneal Anterior Approach to L5-S1, L4-L5 and L3-L4**

Haluk Berk, MD

13:55-14:05 **Complications of Anterior and Lateral Surgery: How to Deal with Them**

Pawel Grabala, MD, PhD

14:05-14:15 **How to Maximize Efficiency/Reduce Complication Rates**

Henry Halm, MD

14:15-14:25 **Revision Surgery for ASD: Pre-Operative Planning and Surgical Techniques**

Marinus de Kleuver, MD, PhD

14:25-14:35 **Discussion**

14:35-14:45

Proceed to lab | Room 4 & 15

14:45-16:15

Practical Exercise 4: Anterior Thoracolumbar Approaches (Cadavers Lateral Decubitus Position, Left Side Up. Then for Second Part, Turn to Supine Position)

Lab Room A (Stations 1-5); Lab Room B (Stations 6-10)

Part 1. Anterior Thoracic Transpleural Approach (Mid-Thoracic). Cadavers in lateral decubitus position, left side up
Cadavers to be repositioned by participants

Part 2. Anterior Lumbosacral Retroperitoneal Approach + ALIF L5-S1 & Exposure L4-L5. Cadavers supine

16:15-16:30

Open Question & Answer Wrap-up Session | Lab Room A

Munish Gupta, MD, Ibrahim Obeid, MD

16:30-16:45

Change Clothes and Adjourn

Room: Breakroom

16:45

Faculty Tram to Hotel



CORPORATE SUPPORT

We are pleased to acknowledge and thank the companies that provided financial and in-kind support to SRS for this Hands-On Course. These companies provided educational grants to support costs for facility rental, cadavers, and other course expenses as well as necessary instrumentation and implants for the hands-on lab sessions.

B.Braun
DePuy Synthes
Globus Medical, Inc.
Medtronic
NuVasive
Stryker

FUTURE SRS MEETINGS

57th Annual Meeting

September 14-17, 2022 – Stockholm, Sweden

Current Concepts in Spine Deformity

July 28-30, 2022 – Santiago, Chile

Spine Deformity Solutions: A Hands-On Course

October 27-29, 2022 – Singapore, Singapore

30th IMAST

March 20- 24, 2023 – Dublin, Ireland

Current Concepts in Spine Deformity

November 18-19, 2022 – Warsaw, Poland

Spine Deformity Solutions: A Hands-On Course

June 14-16, 2023 – Nijmegen, the Netherlands

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