

# Spine Deformity Solutions: A Hands-On Course

From the Scoliosis Research Society & the Spine Society of Thailand

November 1-3, 2019 | Bangkok, Thailand

Siriraj Training and Education Center for Clinical Skill (SiTEC)

## 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
- Demonstration 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

#### Course Chairs

Ahmet Alanay, MD

Surin Thanapipatsiri, MD

#### Course Faculty

Kuniyoshi Abumi, MD

Christopher Ames, MD

Torphong Bunmaprasert, MD

Munish Gupta, MD

Yong Hai, MD

Seung-Jae Hyun, MD, PhD

Mun Keong Kwan, MBBS, MS Orth

Gabriel KP Liu, FRCS (Orth), MSC

Stephen Lewis, MD, MSc, FRCSC

Worawat Limthongkul, MD

Athikom Methathien, MD

Monchai Ruangchainikom, MD

Sirichai Wilaratsami, MD

Hee-Kit Wong, MD

Chung Chek Wong, MD



## GENERAL MEETING INFORMATION

### Lab - SiTEC

Siriraj Training and Education Center for Clinical Skill  
Srisavarindira Science Building, 4<sup>th</sup> Floor,  
Faculty of Medicine Siriraj Hospital, Mahidol University  
Bangkok, Thailand 10700

### Welcome Reception & Fireside Chat Discussions

Friday, November 1, 2019

Reception: 18:00-18:30; Discussions: 18:30-21:00  
Siriraj Medical Research Center (SiMR) – 12<sup>th</sup> Floor

All registered delegates are invited to attend the Welcome Reception and Fireside Chats on Friday, November 1. Beverages and a buffet will be served. The Fireside Chats will immediately follow the Welcome Reception. Dress is business casual.

### Target Audience

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

### Attire

Business casual is appropriate for the Welcome Reception and Fireside Chats. Casual attire and scrubs are appropriate for the lecture and lab sessions. Scrubs and disposables will be provided at the lab.

### Cell Phone Protocol

Please ensure that cell phone ringers, pagers and electronic devices are silenced or turned off during all presentations.

### Language

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

### Smoking Policy

Smoking is not permitted during any meeting activity or event.

### 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.

### Time Zone

Thailand uses Indochina Time (ICT) which is seven (7) hours ahead of Greenwich Mean Time.

### 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.

### 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.



## PROGRAM AGENDA

### Friday, November 1, 2019

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- 17:00-18:00 Faculty Pre-Course Meeting and Buffet Dinner**  
*Siriraj Medical Research Center Building (SiMR), 12<sup>th</sup> Floor – Room 4*
- 18:00-18:30 Participant Registration & Welcome Reception** (Buffet dinner and beverage available 18:00-20:00)  
*Siriraj Medical Research Center Building (SiMR), 12<sup>th</sup> Floor*
- 18:30-21:00 Fireside Chats (3 Concurrent Sessions – Pediatric, Adult & Cervical Spine Deformity)**  
**Theme: Radiographic Evaluation and Planning for Correction of Spinal Deformity**  
*Moderators: Yong Hai, MD; Ahmet Alanay, MD; Christopher Ames, MD and Munish Gupta, MD*
- 18:30-20:00 Pediatric Spine Deformity – Room 1**  
*Case Presenters: Yong Hai, MD (Moderator); Mun Keong Kwan, MBBS, MS Orth; Athikom Methathien, MD; Surin Thanapipatsiri, MD; Chung Chek Wong, MD; Hee-Kit Wong, MD*
- 18:30-20:00 Adult Spine Deformity – Room 2**  
*Case Presenters: Ahmet Alanay, MD (Moderator); Munish C. Gupta, MD; Stephen Lewis, MD, MSc, FRCSC; Worawat Limthongkul, MD; Monchai Ruangchainikom, MD*
- 18:30-20:00 Cervical Spine Deformity – Room 3**  
*Case Presenters: Christopher Ames, MD (Moderator); Kuniyoshi Abumi, MD; Torphong Bunmaprasert, MD; Seung-Jae Hyun, MD, PhD; Sirichai Wilartratsami, MD*
- 20:00-21:00 Group Discussion: Take Home Points from Pediatric, Adult & Cervical Discussions – Hall B**  
*Moderators: Ahmet Alanay, MD and Munish C. Gupta, MD*

### Saturday, November 2, 2019

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#### Breakfast at Hotel

- 7:10-7:40 Shuttle to lab – SiTEC, Siriraj Hospital**  
*Srisavarindira Science Building, 4<sup>th</sup> Floor*
- 7:40-7:45 Welcome**
- 7:45-8:30 Session 1: Thoracolumbar Open and Minimally Invasive Posterior Techniques**  
*Moderator: Seung-Jae Hyun, MD, PhD*
- 7:45-8:00 Fixation of Thoracic, Lumbar, Sacrum and Pelvis (Hooks, Pedicle Screws, Iliac Screws, S2Ala-Ilium Screws Fixation)**  
*Seung-Jae Hyun, MD, PhD*
- 8:00-8:15 Minimally Invasive Stabilization of the Thoracolumbar Spine with Percutaneous Screws and Navigation**  
*Mun Keong Kwan, MBBS, MS Orth*
- 8:15-8:30 Direct Lateral (Trans Psoas) and Oblique Lateral Approach to the Lumbar Spine - Degenerative Condition**  
*Worawat Limthongkul, MD*

- 8:30-8:45**      **Proceed to lab and change clothes**
- 8:45-10:15**    **Lab 1, Rotation 1 – 10 Stations (5 Cadavers Prone, 5 Cadavers Lateral)**  
**Group 1**      **Lab 1A: 5 Stations, Cadavers Prone, Without C-arm (Room B)**  
Thoracic-Lumbar-Ilium; Insertion of Hooks & Pedicle Screws; Sacro-Pelvic Fixation;  
S2Ala-Ilium Screws. Open, anatomy based (*Left side of the spine only*)
- Group 2**      **Lab 1B: 5 Stations, Cadavers Lateral Decubitus with C-arm (Room A)**  
Lateral Lumbar Approach (from left side), Interbody Fusion (L1-L2-L3)  
(Each group does two discs in the upper lumbar spine)
- 10:15-10:45**    **Refreshment Break**
- 10:45-12:15**   **Lab 1, Rotation 2 – 10 Stations (5 Cadavers Prone, 5 Cadavers Lateral)**  
**Group 1**      **Lab 1B: 5 Stations, Cadavers Lateral Decubitus with C-arm (Room A)**  
Lateral Lumbar Approach (from right side), Interbody Fusion (L3-L4-L5)  
(Each group does two discs in the lower lumbar spine)
- Group 2**      **Lab 1A: 5 Stations, Cadavers Prone, Without C-arm (Room B)**  
Thoracic-Lumbar-Ilium; Insertion of Hooks & Pedicle Screws; Sacro-Pelvic Fixation;  
S2Ala-Ilium Screws. Open, anatomy based (*Right side of the spine only*)
- 12:15-13:00**    **Lunch & Introduction to SRS (lab staff to turn all cadavers to prone position)**  
*Ahmet Alanay, MD*
- 13:00-14:00**    **Session 2: Osteotomies and Pelvic Fixation**  
*Moderator: Yong Hai, MD*
- 13:00-13:15**    **Posterior Column Osteotomies Including Wide Release Ponte & Smith-Peterson Osteotomy**  
*Yong Hai, MD*
- 13:15-13:30**    **Pedicle Subtraction Osteotomy**  
*Athikom Methathien, MD*
- 13:30-13:45**    **Vertebral Column Resection (VCR)**  
*Stephen Lewis, MD, MSc, FRCSC*
- 13:45-14:00**    **Complications of Osteotomies**  
*Sirichai Wilartratsami, MD*
- 14:00-14:15**    **Proceed to lab**
- 14:15-16:45**    **Lab 2 – 10 Stations (All Cadavers Prone)**  
Posterior Column Osteotomies, Ponte multiple levels between L1-L5, Smith-Peterson Osteotomy (SPO),  
Pedicle Subtraction Osteotomy (PSO) in the Lumbar Spine (Osteotomy at L3) and Vertebral Column  
Resection (VCR) of the Thoracic Spine (at T9). *Participants share left/right side.*
- 16:45-17:00**    **Change Clothes (lab staff to turn all cadavers to supine position)**
- 17:00-17:30**    **Open Question & Answer**
- 17:30-18:00**    **Shuttle provided to the Peninsula Hotel**

Breakfast at Hotel

7:10-7:40 Shuttle to SiTEC

7:40-7:45 Welcome

7:45-8:45 **Session 3: Cervical Deformity**  
*Moderator: Monchai Ruangchainikom, MD*

7:45-8:00 **Anterior Cervical Discectomies and Corpectomies - Indications, Approach and Execution**  
*Monchai Ruangchainikom, MD*

8:00-8:15 **Occipital and Cervical Fixation with Cervical Pedicle Screws and Lateral Mass Screws - Indications, Approach and Execution**  
*Torphong Bunmaprasert, MD*

8:15-8:30 **Planning and Execution for Cervical Osteotomies**  
*Kuniyoshi Abumi, MD*

8:30-8:45 **Complications of the Cervical Spine**  
*Christopher Ames, MD*

8:45-9:00 Proceed to lab and change clothes

9:00-10:00 **Lab 3A - 10 stations (All Cadavers Supine)**  
Anterior Approaches to the Cervical Spine and Cervicothoracic Junction

10:00-10:30 **Refreshment Break** (lab staff to turn cadavers to prone position)

10:30-12:15 **Lab 3B – 10 Stations (All Cadavers Prone)**  
Posterior Cervical Reconstruction from Occipital to T2 Deformity and Correction Techniques - C7 PSO

12:15-12:45 **Lunch and Introduction to the Spine Society of Thailand** (lab staff to turn cadavers to lateral position)  
*Charoen Chotigavanich, MD*

12:45-14:15 **Session 4: Anterior and Lateral Approach – Thoracic & Lumbar Spine**  
*Moderator: Hee-Kit Wong, MD*

12:45-13:00 **Anterior Spinal Surgery for Scoliosis Overview**  
*Hee-Kit Wong, MD*

13:00-13:15 **Anterior Transpleural Thoracic Approaches - Deformity, Tumor, Trauma; Lateral Thoracolumbar- Lumbar Retroperitoneal Approach for Anterior Column Reconstruction and Release**  
*Gabriel Liu, MD*

13:15-13:30 **Anterior Techniques with Anterior Lumbar Interbody Fusion, Retroperitoneal Anterior Approach to L5-S1, L4-L5 and L3-L4**  
*Chung Chek Wong, MD*

- 13:30-13:45**    **Complications of Anterior and Lateral Surgery: How to Deal with Them**  
*Christopher Ames, MD*
- 13:45-14:00**    **How to Maximize Efficiency/Reduce Complication Rates**  
*Ahmet Alanay, MD*
- 14:00-14:15**    **Revision Surgery for ASD: Pre-Operative Planning and Surgical Techniques**  
*Munish C. Gupta, MD*
- 14:15-14:30**    **Proceed to lab**
- 14:30-15:45**    **Lab 4 - 10 Stations (All Cadavers Lateral then Supine)**  
Anterior Thoracic Transpleural Approach (Mid-Thoracic); Anterior Lumbosacral Retroperitoneal Approach  
+ ALIF L5-S1 & Exposure L4-L5
- 15:45-16:00**    **Change clothes**
- 16:00-16:30**    **Open Question & Answer Wrap Up Session**  
*Ahmet Alanay, MD*
- 16:30**            **Adjourn. Shuttle provided to the Peninsula 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.

DePuy Synthes  
Globus Medical  
L&K Biomed  
Medtronic  
NuVasive  
WeGo

## FUTURE SRS MEETINGS

### **Current Concepts in Spine Deformity**

December 13-14, 2019 – Tokyo, Japan

### **Spine Deformity Solutions: A Hands-On Course**

June 17-19, 2020 – Nijmegen, the Netherlands

November 12-14, 2020 – Singapore, Singapore

### **International Meeting on Advanced Spine Techniques (IMAST)**

27<sup>th</sup> IMAST

April 1-4, 2020 – Athens, Greece

### **Annual Meeting**

55<sup>th</sup> Annual Meeting

September 9-12, 2020 – Phoenix, Arizona

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