

AGENDA

Wednesday, May 5, 2021

Welcome Reception

7:00 PM - 9:00 PM	Welcome Reception
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Thursday, May 6, 2021

Check-In & Registration

6:30 AM - 7:00 AM	Check-In & Registration - 5/6/21
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Welcome Remarks

7:00 AM - 7:05 AM	Welcome Remarks Advisory Board: <u>Boyle Cheng, PhD</u>
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Session 1

	Session I: Basic Science Moderator: <u>Boyle Cheng, PhD</u>
7:06 AM - 7:20 AM	Carbon Fiber Reinforced Polymer Matrix Based Implants Presenter: <u>Hassan Serhan, PhD</u>

7:20 AM - 7:35 AM	Material Characterization of PEEK Implants Presenter: <u>Robert E. Isacacs, MD</u>
7:35 AM - 7:50 AM	Machined v Printed Titanium Presenter: <u>Lisa Ferrara, PHD</u>
7:50 AM - 8:05 AM	Porous Metal Products Speakers: <u>Scott A. Webb, DO</u>
8:05 AM - 8:15 AM	Combined Metal Polymer Devices Presenter: <u>Steven J. Tresser, MD</u>
8:15 AM - 8:25 AM	Q&A with Discussion
8:25 AM - 8:35 AM	Non-CME Industry Update
8:35 AM - 8:45 AM	Non-CME Industry Update
8:45 AM - 9:00 AM	Update on Cages Presenter: <u>Bryan Cunningham, PhD</u>
9:00 AM - 9:15 AM	Collagen Substrates Presenter: <u>Chip Wade, PhD</u>
9:15 AM - 9:30 AM	Shape Memory Alloys Presenter: <u>Larry Khoo, MD</u>
9:30 AM - 9:45 AM	Surface Charge and Bone Apposition

Presenter: Ira Fedder, MD

9:45 AM - 9:55 AM

Cellular Bone Matrices: Scientific and Clinical Basis

Presenter: Jim Ryaby, PhD

9:55 AM - 10:05 AM

Q&A with Discussion

Break

10:05 AM - 10:35 AM

Break

Session 2

Session II: Motion Preservation

Moderator: William C. Welch, MD, FACS

10:35 AM - 10:50 AM

Update on Motion Preservation Devices

Presenter: Bryan Cunningham, PhD

10:50 AM - 11:15 AM

Patient Reported Outcomes of Cervical Total Disc Replacements

Presenter: Larry Khoo, MD

11:15 AM - 11:30 AM

Facet Replacement Technologies

Presenter: Scott A. Webb, DO

11:30 AM - 11:45 AM

Motion Preservation Technology

Presenter: Reginald J. Davis, MD FACS

11:45 AM - 12:00 PM

Failed Motion Preservation Devices

Presenter: Hassan Serhan, PhD

12:00 PM - 12:15 PM

Lumbar TDR'S

Presenter: William C. Welch, MD, FACS

12:15 PM - 12:25 PM

Q&A with Discussion

Industry-Sponsored Luncheon Symposium (Non-CME)

12:25 PM - 1:25 PM

NON CME Lunch Symposium

Adjourn

1:25 PM - 1:30 PM

Adjourn for the Day

Resident Fellow Session

Resident/Fellow Session

Moderator: Alejandro Castellvi, MD

1:35 PM - 1:45 PM

Spine Biomechanics

Presenter: Boyle Cheng, PhD

1:45 PM - 1:55 PM

Adult Degenerative Deformity - Basic Overview

Presenter: James Billys, MD

1:55 PM - 2:05 PM

Pedicle Subtraction Osteotomy / Smith Peterson Osteotomy

Presenter: John Small, MD

2:05 PM - 2:15 PM	Minimally Invasive Deformity Correction Presenter: <u>James Billys, MD</u>
2:15 PM - 2:25 PM	Pediatric Deformity Presenter: <u>Harry Shufflebarger, MD</u>
2:25 PM - 2:35 PM	Case Presentation
2:35 PM - 2:45 PM	Case Presentation
2:45 PM - 2:55 PM	Case Presentation
2:55 PM - 3:05 PM	Q&A with Discussion
3:05 PM - 6:00 PM	Skills Lab

Friday, May 7, 2021

Check-In & Breakfast

6:30 AM - 7:30 AM	Check-In & Breakfast - 5/7/21
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Session 3

SESSION III: Pro v Con

Moderator: Jean-Jacques Abitbol, MD FRCS

7:31 AM - 7:45 AM	Lumbar Fusion v Total Disc Replacement (Pro Fusion)
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Presenter: Richard Fessler, MD, PhD

7:45 AM - 8:00 AM

Lumbar Fusion v Total Disc Replacement (Con Fusion)

Presenter: Rolando Garcia, Jr., MD

8:00 AM - 8:15 AM

Infection Rates are Sufficiently Low

Presenter: Ira Fedder, MD

8:15 AM - 8:30 AM

Infection Rates are too High

Presenter: Neel Anand, MD

8:30 AM - 8:45 AM

ALIF v OLIF (Pro ALIF)

Presenter: John Small, MD

8:45 AM - 9:00 AM

ALIF v OLIF (Pro OLIF)

Presenter: Neel Anand, MD

9:00 AM - 9:15 AM

Cost of Treatment for Large Construct Procedures w/ Biologics is Worthwhile

Presenter: Sigurd Berven, MD, PhD, FRCSC, FACS

9:15 AM - 9:30 AM

Cost of Treatment for Large Construct Procedures w/ Biologics is Ineffective

Presenter: Marc A. Weinstein, MD

9:30 AM - 9:40 AM

Q&A with Discussion

9:40 AM - 9:50 AM

Non-CME Industry Update Kuros BioSciences

9:50 AM - 10:00 AM

Bone-anchored annular closure: 2-year safety and efficacy data from an FDA pivotal trial

Break

10:00 AM - 10:30 AM **Break**

Session 4

SESSION IV: Update on Spine

Moderator: James Billys, MD

10:30 AM - 11:00 AM **Update in Spine**

Presenter: Robin Young, CFA

11:00 AM - 11:30 AM **Robotics, Navigation, AI- Is there a role for it in Spine Surgery**

Presenter: Jean-Jacques Abitbol, MD FRCS

11:30 AM - 12:00 PM **MIS Evolution**

Presenter: Richard Fessler, MD, PhD

12:00 PM - 12:30 PM **Surviving in the new healthcare environment**

Presenter: Farhan Siddiqi, MD

12:30 PM - 1:00 PM **Motion Preservation Technology**

Presenter: Larry Khoo, MD

1:00 PM - 1:10 PM **Q&A with Discussion**

Industry-Sponsored Luncheon Symposium (Non-CME)

1:10 PM - 2:10 PM

NON CME Lunch Symposium**Adjourn**

2:10 PM - 2:10 PM

Adjourn for the Day

Saturday, May 8, 2021

Check-In & Breakfast

6:30 AM - 7:30 AM

Check-In & Breakfast - 5/8/21**Session 5**

7:30 AM - 7:45 AM

Considerations for Trauma ProceduresPresenter: Dan Altman, MD**SESSION V: Deformity, Trauma and Tumor**Moderator: John Small, MD

7:45 AM - 7:55 AM

TrackX dramatically reduces radiation dosage in deformity surgeryPresenter: Harry Shufflebarger, MD

7:55 AM - 8:05 AM

Treatment of C Spine FracturesPresenter: Don Moore, MD

8:05 AM - 8:15 AM

8:05 AM - 8:15 AM

The Moral Hazard of Spine SurgeryPresenter: Sigurd Berven, MD, PhD, FRCSC, FACS

8:15 AM - 8:25 AM

Non-CME Industry Update

8:25 AM - 8:35 AM

Cord protection in Lenke 3 shaped cords in scoliosis.Presenter: Harry Shufflebarger, MD

8:35 AM - 8:45 AM

Proximal Junctional Kyphosis causes treatment and preventionPresenter: Sigurd Berven, MD, PhD, FRCSC, FACS

8:45 AM - 8:55 AM

The Importance of Sagittal Balance Restoration in Single Level and Deformity SurgeryPresenter: John Small, MD

8:55 AM - 9:15 AM

Discussion**Break**

9:15 AM - 9:45 AM

Break**Session 6****SESSION VI: Risk Analysis**Moderator: Sigurd Berven, MD, PhD, FRCSC, FACS

9:45 AM - 10:00 AM

Value in Medicine: Osteo BiologicsPresenter: Ira Fedder, MD

10:00 AM - 10:15 AM

Value in Medicine: Motion PreservationPresenter: Jean-Jacques Abitbol, MD FRCS

10:15 AM - 10:30 AM

Value in Medicine: Robotic TechnologyPresenter: Alejandro Castellvi, MD

10:30 AM - 10:50 AM

Q&A with Discussion**Adjourn**

10:50 AM - 10:50 AM

Course Adjourns