



CASTELLVI SPINE SYMPOSIUM



= Non-CME

WEDNESDAY, APRIL 24, 2019

7:00 PM - 9:00 PM Welcome Reception

THURSDAY, APRIL 25, 2019

6:30 AM - 7:00 AM Registration & Breakfast with Exhibitors

7:00 AM Welcome Remarks James Billys, MD

7:05 AM - 9:05 AM **SESSION I: SPINE BIOMECHANICS & TECHNOLOGY** **BOYLE CHENG, PHD**

7:05 AM Alternatives to Robotic Technologies Spinal Integrity Harry Shufflebarger, MD

7:15 AM Stereotactic Navigation or Magnetic Guidance Ira Fedder, MD

7:25 AM Less Ray – Damage Guidance Robert Isaacs, MD

7:35 AM Intra Op Planning – VMA Chip Wade, PhD

7:45 AM Q&A with Discussion

7:55 AM Pekk Robert Isaacs, MD

8:05 AM Porous PEEK Greg Williams, PhD

8:15 AM Titanium Surface on PEEK Substrate Jim Ryaby, PhD

8:25 AM Q&A with Discussion

8:35 AM 3D Printed Polymers Severine Zygmund, PhD

8:45 AM 3D Printed Tissue Lisa Ferrara, PhD

8:55 AM Osteoimmunology Steve Badylak, MD, PhD

9:05 AM Q&A with Discussion

9:35 AM - 10:05 AM Break with Exhibitors

10:05 AM - 12:15 PM **SESSION II: ROBOT WARS** **JAMES BILLYS, MD**

10:05 AM Nuva Technical Design and Function Robert Isaacs, MD

10:15 AM Medronic Technical Design and Function Jonathan Limbert
Kristopher Barberio, DC

10:20 AM Sightline Technical Design and Function Harry Shufflebarger, MD

10:30 AM Globus Medical Technical Design and Function TBD

10:40 AM Q&A with Discussion

10:50 AM Nuva Clinical Use and Experience Robert Isaacs, MD

11:00 AM Medronic Clinical Use and Experience Alejandro Castellvi, MD

11:10 AM Sightline Clinical Use and Experience Harry Shufflebarger, MD

11:10 AM Globus Medical Clinical Use and Experience TBD

11:20 AM Q&A with Discussion

11:20 AM Robotic Navigation Screw Placement Pro Isador Lieberman, MD, MBA

11:30 AM Navigational Pedicle Screw Versus Fluoroscopy- CON Marc Weinstein, MD

11:40 AM Robotic Spine Surgery Is Here to Stay Sigurd Berven, MD, PhD, FACS

11:50 AM Q&A with Discussion

12:00 PM Limiflex Device Rick Guyer, MD

12:15 PM Disc Replacement: Current Status Jack Zigler, MD

12:30 PM **NON-CME Lunch Symposia by Neo Med: Optimizing Control of Mechanical Forces During Lumbar Fusion Instrumentation** **David Cesar Noriega-Gonzalez, PhD**

1:30 PM General Session Adjourns for the Day



CASTELLVI SPINE SYMPOSIUM



= Non-CME

THURSDAY, APRIL 25, 2019

2:00 PM - 6:00 PM RESIDENT / FELLOW SESSION

ALEJANDRO CASTELLVI, MD

2:00 PM	Spine Biomechanics	Boyle Cheng, PhD
2:10 PM	Adult Degenerative Deformity - Basic Overview	James Billys, MD
2:20 PM	Pedicle Subtraction Osteotomy / Smith Peterson Osteotomy	John Small, MD
2:30 PM	Minimally Invasive Deformity Correction	James Billys, MD
2:40 PM	Case Presentation	Resident
2:50 PM	Case Presentation	Resident
3:00 PM	Case Presentation	Resident
3:10 PM	Tbd	Resident
3:20 PM	Q&A with Discussion	
3:40 PM	Adjourn to Anatomic Session	

4:00 PM - 6:00 PM Saw Bones

6:00 PM Residents & Fellows Adjourn for the Day

FRIDAY, APRIL 26, 2019

6:30 AM - 7:30 AM Breakfast with Exhibitors

7:30 AM - 9:55 AM SESSION III: REGENERATIVE MEDICINE IN SPINE

IRA FEDDER, MD

7:30 AM	Overview of Progenitor Cells and Where We Have Been, and Where Are We Going	Ira Fedder, MD
7:40 AM	Synthetic and Biologic Scaffold in Tissue Engineering	Michael Riddle, MD
7:55 AM	Regenerative Medicine and Disc Disease State of The Art	Farhan Siddiqi, MD
8:05 AM	Allogenic Treatment of Degenerative Disc Disease (Mesoblast)	Theodore Sand, PhD
8:15 AM	Q&A with Discussion	
8:25 AM	Spinal Cord Injury and Progenerator Cells	Richard Fessler, MD
8:35 AM	Bone Marrow in Clinical Spine Practice	James Billys, MD
8:45 AM	Next Generation Interbody Devices: What Is Marketing and What Is Real Science?	Alex Vacarro, MD, PhD
8:55 AM	Regulatory Issues in Regenerative Medicine	Theodore Sand, PhD
9:05 AM	Q&A with Discussion	
9:15 AM	Regenerative Medicine /Non-Operative Spine Care	Ira Fedder, MD
9:25 AM	Is Nav And Robotic Surgery Worth the Cost of Admission Pro	Alex Vacarro, MD, PhD
9:35 AM	Is Nav And Robotic Surgery Worth the Cost of Admission Con	Marc Weinstein, MD
9:45 AM	Q&A with Discussion	

9:55 AM - 10:25 AM Break with Exhibitors

10:25 AM - 1:25 PM SESSION IV: UPDATE ON SPINE

JAMES BILLYS, MD

10:25 AM	State of Spine	Robin Young, CFA
10:55 AM	Motion Preservation: Past, Present, And Future	Rick Guyer, MD
11:25 AM	Frank Middleton, Phd. Talk on Micro RNA	Frank Middleton, MD
11:55 AM	NON-CME Lunch Symposium by Vivex Biomedical: The New VIA Disc Procedure 	Rick Guyer, MD
12:55 PM	Appropriate Use of Surgery for Spinal Disorders: The Moral Hazard of Spine Surgery	Sigurd Berven, MD, PhD, FACS
1:25 PM	Telemedicine	Stephen Hochschuler, MD
1:55 PM	Future of Spine Care	Alex Vacarro, MD, PhD
2:25 PM	Adjourn for the Day	



CASTELLVI SPINE SYMPOSIUM



= Non-CME

SATURDAY, APRIL 27, 2019

6:30 AM - 7:30 AM Breakfast with Exhibitors

7:30 AM - 9:50 AM SESSION V: DEFORMITY

JOHN SMALL, MD

7:30 AM	Degenerative Pathology Vs Spinal Deformity: Where Do We Draw the Line	John Small, MD
7:40 AM	When Is Doing Less Better: Selective Decompression in Deformity Surgery	Reginald Davis, MD, FACS
7:50 AM	Optimal Correction for Spinal Sagittal Imbalance	Joseph Zavatsky, MD
8:00 AM	Q&A with Discussion	
8:10 AM	Anterior Based Deformity Correction	Devin Datta, MD
8:20 AM	Posterior Based Deformity Correction	John Small, MD
8:30 AM	Value in Deformity Surgery	Sigurd Berven, MD, PhD, FACS
8:40 AM	Q&A with Discussion	
8:50 AM	Reestablishing Segmental Sagittal Balance with MIS TLIF	Richard Fessler, MD
9:00 AM	Flat Back Deformity Correction with OLIF With Posterior Osteotomy	Jacob Januszewski, DO
9:10 AM	L45 Hyperloudotic ACR with Posterior Osteotomy	Jacob Januszewski, DO
9:20 AM	How Does Correction on Lumbar Sagittal Balance Effect the Thoracic in Cervical Spine	Joseph Zavatsky, MD
9:30 AM	Minutemn Fusion	Jonathan Hyde, MD
9:40 AM	Q&A with Discussion	

9:50 AM - 10:20 AM Break with Exhibitors

10:20 AM - 12:05 PM SESSION VI: MOTION PRESERVATION

WILLIAM WELCH, MD, FACS

10:20 AM	Introduction	Boyle Cheng, PhD
10:35 AM	Interspinous Process Devices	Reginald Davis, MD, FACS
10:50 AM	TOPS Device	William Welch, MD, FACS
11:05 AM	Short and Long-Term Outcomes of Active LTDR	Rolando Garcia, MD
11:20 AM	Non-Instrumented Fusion as A Motion-Preserving Technique	Richard Fessler, MD
11:35 AM	Past Present and Future of Facet Replacement	Scott A. Webb, MD
11:45 AM	Q&A with Discussion	

12:05 PM Course Adjourns