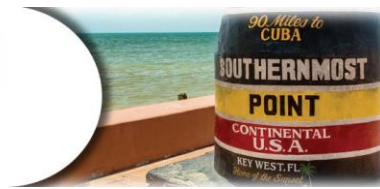




CASTELLVI SPINE SYMPOSIUM



WEDNESDAY, APRIL 24, 2019

7:00 PM - 9:00 PM Welcome Reception

THURSDAY, APRIL 25, 2019

6:30 AM - 8:00 AM Registration & Breakfast

7:00 AM Welcome Remarks James Billys, MD

7:05 AM - 9:25 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 Zfuze: Immunology Steve Badtylak, MD, PhD

8:05 AM Pekk Robert Isaacs, MD

8:15 AM Vertera Ray Chaudhri, PhD

8:25 AM Titanium Surface on Peek Substrate Bob Spiro, PhD

8:35 AM Q&A with Discussion

8:45 AM 3D Printed Metal Charlie Bush

8:55 AM 3D Printed Polymers Mario Brkaric, MD

9:05 AM 3D Printed Tissue Lisa Ferrara, PhD

9:15 AM Q&A with Discussion

9:25 AM - 9:55 AM Break

9:55 AM - 10:35 AM SESSION II: ROBOT WARS (NON-CME) James Billys, MD

9:55 AM Nuva Technical Design and Function

10:05 AM Medronic Technical Design and Function

10:15 AM Stryker Technical Design and Function

10:25 AM Sightline Technical Design and Function

10:35 AM Bono Technical Design and Function

10:45 AM Globus Medical Technical Design and Function Nick Theodore, MD

10:55 AM Q&A with Discussion

11:05 AM Nuva Clinical Use and Experience

11:15 AM Medronic Clinical Use and Experience Alejandro Castellvi, MD

11:25 AM Stryker Clinical Use and Experience

11:35 AM Sightline Clinical Use and Experience Harry Shufflebarger, MD

11:45 AM Bono Clinical Use and Experience

11:55 AM Globus Medical Clinical Use and Experience Nick Theodore, MD

12:05 PM Q&A with Discussion

12:15 PM Robotic Navigation Screw Placement Pro Isador Lieberman, MD, MBA, FRCS

12:25 PM Nov Screw Vs Florio Con Marc Weinstein, MD

12:35 PM Robotic Spine Surgery Is Here to Stay Sigurd Berven, MD, PhD, FACS

12:45 PM Q&A with Discussion

1:15pm Lunch

1:40 PM Adjourn for The Day



CASTELLVI SPINE SYMPOSIUM



THURSDAY, APRIL 25, 2019

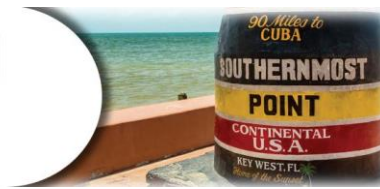
12:15 PM	Robotic Navigation Screw Placement Pro	Isador Lieberman, MD, MBA, FRCSC
12:25 PM	Nov Screw Vs Florio Con	Marc Weinstein, MD
12:35 PM	Robotic Spine Surgery Is Here to Stay	Sigurd Berven, MD, PhD, FACS
12:45 PM	Q&A with Discussion	
1:15pm	Lunch	
1:40 PM	Adjourn for The Day	
2:00 PM - 6:00 PM	RESIDENT / 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 - Lumbar	Resident
2:50 PM	Case Presentation - Cervical	Resident
3:00 PM	Case Presentation - Lumbar	Resident
3:20 PM	Q&A with Discussion	
3:40 PM	Adjourn to Anatomic Session	
4:00 PM - 6:00 PM	Saw Bones Workshop	

FRIDAY, APRIL 26, 2019

6:30 AM - 7:30 AM	Breakfast	
7:30 AM - 10:30 AM	SESSION III: REGENERATIVE MEDICINE IN SPINE	Ira Fedder, MD
7:30 AM	Overview or Progenitor Cells: Where We Have Been and Where Are We Going	Ira Fedder, MD
7:45 AM	Synthetic and Biologic Scaffold in Tissue Engineering	Mathew Riddle, MD
8:00 AM	Q&A with Discussion	
8:10 AM	Regenerative Medicine and Disc Disease State of the Art	Farhan Siddiqi, MD
8:25 AM	Allogeneic Treatment of Degenerative Disc Disease (Mesoblast)	Theodore Sand, PhD
8:35 AM	Q&A with Discussion	
8:45 AM	Spinal Cord Injury and Progenerator Cells	Richard Fessler, MD
9:00 AM	Bone Marrow in Clinical Spine Practice	James Billys, MD
9:10 AM	Q&A with Discussion	
9:20 AM	Next Generation Interbody Devices: What Is Marketing and What Is Real Science?	Alex Vacarro, MD, PhD
9:30 AM	Regulatory Issues in Regenerative Medicine	Theodore Sand, PhD
9:40 AM	Regenerative Medicine /Non-Operative Spine Care	Ira Fedder, MD
9:50 AM	Q&A with Discussion	
10:00 AM	Is Nav and Robotic Surgery Worth the Cost of Admission Pro	Alex Vacarro, MD, PhD
10:10 AM	Is Nav and Robotic Surgery Worth the Cost of Admission Con	
10:20 AM	Q&A with Discussion	
10:30 AM - 11:00 AM	Break	



CASTELLVI SPINE SYMPOSIUM



FRIDAY, APRIL 26, 2019

11:00 AM	-	2:00 PM	SESSION I IV: UPDATE ON SPINE	James Billys, MD
11:00 AM			State of Spine	Robin Young, CFA
11:30 AM			Motion Preservation: Past, Present, and Future	Rick Guyer, MD
12:00 PM			Micro RNA	Frank Middleton, MD
12:30 PM			Appropriate Use of Surgery for Spinal Disorders: The Moral Hazard of Spine Surgery	Sigurd Berven, MD, PhD, FACS
1:00 PM			Tolemedicine	Stephen Hochschuler, MD
1:30 PM			Future of Spine Care	Alex Vacarro, MD, PhD
1:40 PM	-	2:40 PM	Non-CME Lunch Symposium	

SATURDAY, APRIL 27, 2019

6:30 AM	-	7:30 AM	Breakfast	
7:30 AM	-	9:40 AM	SESSION V: DEFORMITY	John Small, MD
7:30 AM			Degenerative Pathology Vs Spinal Deformity: Where Do We the Line?	Sheyan Armaghani, 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	
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	Richard Hynes, MD
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	
9:30 AM			Q&A with Discussion	
9:40 AM	-	10:10 AM	Break	
10:10 AM	-	12:25 PM	SESSION VI: MOTION PRESERVATION	William Welch, MD, FACS
10:10 AM			Introduction	Boyle Cheng, PhD
10:25 AM			Disc Replacement: Current Status	Jack Zigler, MD
10:40 AM			Interspinous Process Devices	Reginald Davis, MD, FACS
10:55 AM			Tops Device	William Welch, MD, FACS
11:10 AM			Limiflex Device	Rick Guyer, MD
11:25 AM			Short and Long-Term Outcomes of Active LTDR	Rolando Garcia, MD
11:40 AM			Non-Instrumented Fusion as a Motion-Preserving Technique	Richard Fessler, MD
11:55 AM			Past, Present, and Future of Facett Replacment	Scott A. Webb, MD
12:05 PM			Q&A with Discussion	
11:40 AM			Course Adjourns	