6:30AM - 7:30AM
BREAKFAST
Room: Cowrie 1 & 2

7:30AM - 8:00AM
WELCOME & SOCIETY UPDATE
Room: Poinciana Ballroom

8:00AM - 10:00AM
COMPARATIVE OUTCOMES
Room: Poinciana Ballroom
Moderators:
Massimo Balsano, MD
William Smith, MD

COMPARISON BY PROCEDURE - DEGENERATIVE
8:00am - 8:05am
#3
XLIF vs. MAS TLIF For The Treatment Of Degenerative Spondylolisthesis: Interim Results From An Ongoing Prospective Multi-Center Comparative Study
A. Tohmeh1, R. Isaacs2, J. Sembrano3, SOLAS Degenerative Study Group
1Northwest Orthopaedic Specialists, Spokane, USA, 2Duke University, Durham, USA, 3University of Minnesota, Orthopaedic Clinic, Riverside, Minneapolis, USA

8:06am - 8:11am
#2
XLIF Combined With Posterior Spinal Fusion Results In A Community Practice
G.R. Buttermann1
1Midwest Spine Institute, Stillwater, USA

8:12am - 8:17am
#59
Choice of Approach Does Not Affect Clinical And Radiological Outcomes: An Age And Sex Matched Cohort Of ALIF And XLIF Patients At 12 Months
G.M. Malham1, R.M. Parker2, C.M. Blecher1, N. Tapley1, K.A. Seex1
1Epworth Hospital, Neuroscience Institute, Melbourne, Australia, 2Greg Ham Neurosurgeon, Research Department, Melbourne, Australia, 3Epworth Hospital, Radiology Department, Melbourne, Australia, 4Hillingdon Hospital, Orthopaedics/Geriatrics Department, Uxbridge, United Kingdom, 5Macquarie University, Neurosurgery Department, Sydney, Australia

8:18am - 8:29am
Discussion

COMPARISON BY PROCEDURE - DEFORMITY
8:30am - 8:35am
#47
Adult Spinal Deformity Treated With Minimally Invasive Techniques: 2-Year Multicenter Clinical And Radiographic Outcomes Study Comparing Circumferential MIS And Hybrid Surgery
1San Diego Center for Spinal Disorders, La Jolla, USA, 2University of California - San Francisco, San Francisco, USA, 3University of Pittsburgh, Pittsburgh, USA, 4University of Michigan, Ann Arbor, USA, 5University of South Florida, Tampa, USA, 6Cedars-Sinai, West Hollywood, USA, 7University of Miami, Miami, USA, 8Rush University, Chicago, USA, 9Scripps Clinic, San Diego, USA

8:36am - 8:41am
#55
Do MIS Deformity Interventions Result In Similar Reductions Of Disability Compared With Traditional Open Correction At 1 And 2 Years? A Propensity Matched Cohort Analysis
1Weill Cornell Medical College, New York, USA, 2University of Michigan, Ann Arbor, USA, 3San Diego Center for Spinal Disorders, La Jolla, USA, 4Cedars-Sinai, West Hollywood, USA, 5University of South Florida, Tampa, USA, 6University of Miami, Miami, USA, 7University of Pittsburgh, Pittsburgh, USA, 8Rush University, Chicago, USA, 9University of California - San Francisco, San Francisco, USA, 10University of Virginia, Charlottesville, USA, 11New York University, New York, USA

8:42am - 8:47am
#56
Re-operation Rates In Minimally Invasive, Hybrid And Open Surgical Treatment For Adult Spinal Deformity With Minimum 2-Year Follow-up
1University Medical Center, Pittsburgh, USA, 2San Diego Center for Spinal Disorders, La Jolla, USA, 3University of California - San Francisco, San Francisco, USA, 4Cedars-Sinai, West Hollywood, USA, 5Rush University, Chicago, USA, 6University of South Florida, Tampa, USA, 7University of Michigan, Ann Arbor, USA, 8University of South Florida, Tampa, USA, 9University of Miami, Miami, USA, 10New York University, New York, USA, 11University of Virginia, Charlottesville, USA, 12University of Pittsburgh, Pittsburgh, USA

8:48am - 8:59am
Discussion
COMPARISON BY INDICATION/COST
Moderators:
Robert Isaacs, MD
Jim Youssef, MD

9:00am - 9:05am
#42
Comparison Of Outcomes For Lumbar Fusion In The Treatment Of Degenerative Spondylolisthesis And Degenerative Disc Disease: A Prospective Study
F. Phillips1, K. Khajavi1, A. Kanter3, M. Peterson1, SOLAS Degenerative Study Group
1Rush University Medical Center, Chicago, USA, 2Georgia Spine and Neurosurgery Center; Atlanta, USA, 3University of Pittsburgh, Pittsburgh, USA, 4Southern Oregon Orthopedics, Medford, USA

9:06am - 9:11am
#73
Cost-Effectiveness, Stand-alone Extreme Lateral Lumbar Interbody Fusion (XLIF) Versus Transforaminal Lumbar Interbody Fusion (TLIF) For Degenerative Spondylolisthesis Over 2 Years
University of Pittsburgh, Neurosurgery, Pittsburgh, USA

9:12am - 9:17am
#8
Comparative Effectiveness And Cost-Benefit Analysis Of Bone Morphogenic Protein (rhBMP-2) With Formagraft (FG) Versus OsteoCel Plus (OC+)
K. Madhavan, S.S. Molloy, S. Vanni
University of Miami, Neurosurgery, Miami, USA

9:18am - 9:29am
Discussion

INDIRECT DECOMPRESSION

9:30am - 9:35am
#78
Extreme Lateral Interbody Fusion For Unilateral Symptomatic Vertical Foraminal Stenosis
C.P. Halstead2, M. Alimi3, A.J. Tsiorias1, E. Elowitz1, R. Härtl1
1Weill Cornell Brain and Spine center, New York, USA, 2Weill Cornell Brain and Spine center, Neurological Surgery, New York, USA, 3Weill Cornell Medical College, Neuroradiology, New York, USA

9:36am - 9:41am
#60
Indirect Foraminal Decompression is Independent of Facet Arthropathy in Extreme Lateral Interbody Fusion
G.M. Malham1, R.M. Parker2, B. Goss2, C.M. Blecher2, Z.E. Ballok6
1Epworth Hospital, Neuroscience Institute, Melbourne, Australia, 2Greg Malham Neurosurgeon, Research Department, Melbourne, Australia, 3Nuvasive Australia & NZ Pty Ltd, Clinical Affairs, Wiston, Australia, 4Epworth Hospital, Radiology Department, Melbourne, Australia, 5Epworth Hospital, Nuclear Medicine Department, Melbourne, Australia

9:42am - 9:47am
#61
Relief of Leg Pain Following Indirect Decompression by XLIF
G.M. Malham1, R.M. Parker2
1Epworth Hospital, Neuroscience Institute, Melbourne, Australia, 2Greg Malham Neurosurgeon, Research Department, Melbourne, Australia

10:00AM - 10:30AM
BREAK
Room: Poinciana Foyer

10:30AM - 12:30PM
DEGENERATIVE
Moderators:
Guillermo Bajares, MD
W. Blake Rodgers, MD

10:30am - 10:35am
#15
Prospective Outcome Study And Learning Curve Of Lateral Approach (XLIF) Lumbar Spine In Asian Population
L.C. Ng1, B.C. Pang2, S. Solai3
1Tan Tock Seng Hospital, Spine surgery, Orthopaedic Department, Singapore, Singapore, 2Brain Spine Practice Clinic, Neurosurgery, Singapore, Singapore, 3Brain Spine Practice Clinic, Singapore, Singapore

10:36am - 10:41am
#66
Idiopathic Scoliosis Treated By Lateral Approach - Early Technical Results And Challenges
R. Jensen1, R. Amaral2, L. Marchi2, L. Oliveira1, E. Coutinho1, L. Pimenta2
1Instituto de Patologia da Coluna, São Paulo, Brazil, 2IPC, São Paulo, Brazil

10:42am - 10:47am
#43
Stand-Alone Extreme Lateral Interbody Fusion (XLIF) For Adjacent Segment Disease After Lumbar Fusion
B. Richter1, J. Cameron, M. Oth
Allegheny General Hospital, Department of Neurosurgery, Pittsburgh, USA

10:48am - 10:59am
Discussion

OUTCOMES - DEGENERATIVE

11:00am - 11:05am
#49
Clinical Outcomes Of MIS Lateral Interbody Fusion In The Treatment Of Degenerative Conditions Of The Lumbar Spine
A. Tohmeh1, A. Proctor2
1NWOS, Spokane, USA, 2Whitworth University, Spokane, USA
11:06am - 11:11am
#77
Single-level Lateral Lumbar Interbody Fusion for the Treatment of Adjacent Segment Disease: A Retrospective Two-center Study
A. Aichmair1, M. Alimi2, A.P. Hughes1, A.A. Sama1, J.Y. Du1, R. Härft2, J. Burket1, F.P. Cammisa1, F.P. Girardi1
1Spine and Scoliosis Service, Hospital for Special Surgery, New York, USA, 2Weill Cornell Brain and Spine Center, Neurological Surgery, New York, USA, 3Weill Cornell Brain and Spine Center, New York, USA

11:12am - 11:17am
#32
Early Change In Nerve Function And Patient-Reported Outcomes: Preliminary Results After The XLIF® Procedure
R. Isaacs1, J. Youssef2, J. Uribe3, SOLAS Degenerative Study Group
1Duke University Medical Center, Durham, USA, 2Durango Orthopedic Associates/Spine Colorado, Durango, USA, 3University of South Florida, Tampa, USA

11:18am - 11:29am
Discussion

DEGENERATIVE SCOLIOSIS
Moderators:
Luiz Pimenta, MD, PhD
Stephen Ryu, MD

11:30am - 11:35am
#65
Quality Of Life In Adult Degenerative Scoliosis Patients Treated For Stenosis With A Single-Stage Less Invasive Lateral Interbody Fusion
Instituto de Patologia da Coluna, São Paulo, Brazil

11:36am - 11:41am
#24
Extreme Lateral Interbody Fusion As A Treatment For Degenerative Scoliosis At 2 Year Follow-Up
A. Youssef, D.G. Orndorff, M.A. Scott, R.E. Ebner
Durango Orthopedic Associates/Spine Colorado, Durango, USA

11:42am - 11:47am
#25
Long Construct Pedicle Screw Reduction and Residual Forces are Decreased Using a Computer-Assisted Spinal Rod Bending System
A. Tohmeh1, R.E. Isaacs2, Z.A. Dooley3, A.W. Turner4
1Northwest Orthopaedic Specialists, Spokane, USA, 2Duke University Medical Center, Division of Neurosurgery, Durham, USA, 3NuVasive, Inc., San Diego, USA

11:48am - 11:59am
Discussion

FIXATION

12:00pm - 12:05pm
#26
Biomechanical Characteristics Of Lateral Plate Fixation For Single Approach Lateral Fusion
W.D. Smith1, J.E. Harris1, A.W. Turner2
1Western Regional Center for Brain & Spine Surgery, Las Vegas, USA, 2NuVasive, Inc., San Diego, USA
2:00pm - 2:05pm
#16
Strategies For Minimally Invasive Reconstruction Of The Anterior Column; Sagittal Balance
L.R. Biltz1, A. Castello2,7
1Florida Orthopedic Institute Univ. of South Florida, Department of Orthopedics, Tampa, USA, 2Florida Orthopedic Institute Univ. of South Florida Orthopedic Institute, Tampa, USA

2:06pm - 2:11pm
#76
Anterior Column Release For Complex Adult Spinal Deformity Correction: Is It The End Of Pedicle Subtraction Osteotomy?
G. Demirkiran1, A. A. Theologis2, M. Pekmezci1, C. Ameri1, V. Deviren1
1UCSF, Orthopaedic Surgery, San Francisco, USA, 2UCSF, Neurologic Surgery, San Francisco, USA

2:12pm - 2:17pm
#57
Treatment of Adult Complex Spinal Deformities With Hybrid Instrumentation (XLIF/Open Posterior): Can We Avoid Aggressive Osteotomies?
M. Balzano1, P. Börjans2, M. Damilano3, P. Mara4
1Spinal Regional Department, Santorso, Italy, 2IV IVth Spine Surgery Division IRCCS Istituto Ortopedico Galeazzi, Milan, Italy, 3IV IVth Spine Surgery Division IRCCS Istituto Ortopedico Galeazzi, Milan (I), Italy, 4Centro Chirurgia Vertebrale, Quartu S.Elena, Italy

2:18pm - 2:29pm
Discussion
Moderators:
Chris Brown, MD
Greg Mundis, MD

2:30pm - 2:35pm
#20
Finite Element Analysis Of Anterior Column Reconstruction And Lateral Hyperlordotic Cage Placement
J.S. Uribe1, J.E. Harris2, A.W. Turner3, G.M. Mundis4, A. Deukmedjian5, B.A. Akbarnia2
1University of South Florida, Department of Neurosurgery, Tampa, USA, 2University of California, San Francisco, San Francisco, USA, 3UCSF, Orthopaedic Surgery, San Francisco, USA, 4UCSF, Neurologic Surgery, San Francisco, USA, 5Florida Orthopedic Institute Univ. of South Florida, Department of Orthopedics, Tampa, USA

2:36pm - 2:41pm
#30
Anterior Column Realignment (ACR): Minimum 2 Year Follow-up Clinical And Radiographic Outcomes
D. Brown IV1, G.M. Mundis2, N. Arandt3, A. Bagheri4, S. Nguyen5, R.K. Eastlack6, R. Bagheri6, B.A. Akbarnia1
1San Diego Center for Spinal Disorders, La Jolla, USA, 2Scripps Clinic, La Jolla, USA, 3UCSF, Orthopaedic Surgery, San Francisco, USA, 4Scripps Clinic, La Jolla, USA, 5University of Texas, Bellaire, USA

2:42pm - 2:47pm
#36
Radiographic Outcomes Following Anterior Column Realignment (ACR) With and Without Posterior Osteotomies
1Scripps Clinic, La Jolla, USA, 2San Diego Center for Spinal Disorders, La Jolla, USA, 3University of South Florida, Tampa, USA, 4Instituto de Patologia de Coluna, São Paulo, Brazil, 5University of California, San Francisco, San Francisco, USA, 6University of Texas, Bellaire, USA

2:48pm - 2:53pm
#39
Minimally Invasive Anterior Column Realignment For The Treatment of Adult Sagittal Plane Deformity: A Multicenter Study
1University of South Florida, Tampa, USA, 2San Diego Center for Spinal Disorders, La Jolla, USA, 3Scripps Clinic, La Jolla, USA, 4University of California, San Francisco, San Francisco, USA, 5University of Texas, Bellaire, USA, 6University of California, San Francisco, San Francisco, USA, 7Instituto de Patologia de Coluna, São Paulo, Brazil

2:54pm - 3:05pm
Discussion

OTHER ADVANCED APPLICATIONS

3:06pm - 3:11pm
#27
Minimally Invasive Thoracic And Lumbar Spine Corpectomy
P. Börjans1, M. Damilano2, M. Pejrona3, M. Balzano2, C. Doria4, C. Lamartina5
1IV IVth Spine Surgery Division IRCCS Istituto Ortopedico Galeazzi, Milan, Italy, 2Regional Spinal Department, OC Santorso, Vicenza, Italy, 3Sassari University, Sassari, Italy

3:12pm - 3:17pm
#69
Influence Of Heterotopic Bone Formation In Clinical And Radiological Outcomes After 7 Years Follow-Up Of A Metal On Metal Lateral Lumbar Total Disc Replacement Device
L. Pimenta1, R. Amaral2, L. Marchi3, R. Jensen4, L. Oliveira5, T. Bueno6, E. Coutinho7
1Instituto de Patologia da Coluna, São Paulo, Brazil

3:18pm - 3:29pm
Discussion

3:30PM - 4:00PM
BREAK
Room: Poinciana Foyer
4:00PM - 5:00PM
COMPLICATIONS & THEIR AVOIDANCE
Room: Poinciana Ballroom
Moderators:
Allan Goodrich, MD
Bruce van Dam, MD

NEURAL COMPLICATIONS

4:00pm - 4:05pm
#31
Evoked Electromyography (EMG) Throughout Retraction To Monitor Nerve Integrity During The XLIF® Procedure: Preliminary Results From A Prospective, Multi-Center Study
J. Uribe, J. Youssef, R. Isaacs, SOLAS Degenerative Study Group
1University of South Florida, Tampa, USA, 2Durango Orthopedics Associates/Spine Colorado, Durango, USA, 3Duke University Medical Center, Durham, USA

4:06pm - 4:11pm
#41
Sensory Nerve Integrity After The XLIF® Procedure: Preliminary Results From A Prospective, Multi-Center Study
R. Isaacs, J. Youssef, J.S. Uribe, SOLAS Degenerative Study Group
1Duke University Medical Center, Durham, USA, 2Durango Orthopedics Associates, Durango, USA, 3University of South Florida, Tampa, USA

4:12pm - 4:17pm
#23
Postoperative Leg Pain And/Or Dysesthesia At One Year Follow-up Following XLIF At A Single Site
J.A. Youssef, D.G. Orndorff, M.A. Scott, R.E. Ebner, S. Antione, A.P. Knewitz
Durango Orthopedic Associates/Spine Colorado, Durango, USA

OTHER COMPLICATIONS

4:30pm - 4:35pm
#40
Hip Flexion Weakness After XLIF: The “Angry Psoas”
J. Uribe, J. Youssef, R. Isaacs, SOLAS Degenerative Study Group
1University of South Florida, Tampa, USA, 2Durango Orthopedics Associates, Durango, USA, 3Duke University Medical Center, Durham, USA

4:36pm - 4:41pm
#63
Assessment and Classification of Subsidence in Lateral Interbody Fusion Using Serial Computed Tomography
G.M. Malham, R.M. Parker, C.M. Blecher, K.A. Siew
1Epworth Hospital, Neuroscience Institute, Melbourne, Australia, 2Greg Malham Neurosurgeon, Research Department, Melbourne, Australia, 3Epworth Hospital, Radiology Department, Melbourne, Australia, 4Macquarie University, Neurosurgery Department, Sydney, Australia

5:00PM - 6:00PM
SYMPOSIUM: HOT TOPICS ON MIS
Room: Poinciana Ballroom
Moderators:
Jonathan Hyde, MD
Frank Phillips, MD

Avoiding Complications With MIS Surgery
Jonathan Sembrano, MD

Is There Still A Role For Stand-Alone Lateral Interbody Fusion
Greg Malham, MD

Role Of MIS Approaches In Complex Spinal Deformity
Greg Mundis, MD

Less Invasive Surgery: Does It Provide Value?
Robert Isaacs, MD

6:00PM - 8:00PM
RECEPTION
Location: Americana Lawn (weather permitting) or Cowrie 2 & Foyer (if inclement weather)
7th ANNUAL SOLAS® RESEARCH MEETING
Event Floor Plan

General Session Room

Reception on Americana Lawn (weather permitting)
Breakfast and Lunch will be held in Cowrie 1 and 2

Reception will be held in Cowrie 2 and Foyer
(if inclement weather)
7th ANNUAL SOLAS® RESEARCH MEETING
Event Floor Plan

Loews Miami Beach Hotel

Property Overview