

## Spine Symposium – Friday, June 16, 2023

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|-------------|--|---|
| 7:00 am     | <i>Registration and Continental Breakfast</i>  |   |
| 7:55        | <b>Welcome and Introduction</b>  | Course Chairs   |
| <b>I.</b>   | <b>Session 1 The BACPAC Research Program: Early Results with Potential Implications for Clinical Practice Moderator: Conor O'Neill, MD</b> |   |
| 8:00        | <b>P Novel Imaging Methods</b>   | Jeffrey C. Lotz, PhD  |
| 8:20        | <b>P Novel Biomechanical Assessments</b>   | Jeanine F. Bailey, PhD  |
| 8:40        | <b>P Digital Health</b>  | Patricia Zheng, MD  |
| 9:00        | <b>P Case Reviews – BACPAC Research Participants</b>   | Conor O'Neill, MD   |
| 9:20        | <b>Question and Answer</b>   |   |
| 9:40        | <b>Guest Lecture Introduction</b>  |   |
| 9:45        | <b>P The Role of Exercise in the Management of Chronic Axial Back Pain</b>   | Conor O'Neill, MD<br>Thomas E. Dreisinger, PhD                                |
| 10:15       | <i>Coffee Break</i>  |   |
| <b>II.</b>  | <b>Controversies and Conundrums in Non-operative Spine Care: A Case-based Approach Moderator: Conor O'Neill, MD</b>                        |   |
| 10:35       | <b>P Case #1</b>   | Mario de Pinto, MD<br>Lyndly Tamura, MD<br>Stephen Baxter, PT, MSc, DPT       |
| 10:55       | <b>P Case #2</b>   | Heidi Reetz, MD<br>Ninad Karandikar, MD<br>Dustin Tom, DPT                    |
| 11:15       | <b>P Case #3</b>   | Prasad Shirvalkar, MD, PhD<br>Sibel Deviren, MD<br>Sara Temple, PT, DPT, OCS  |
| 11:35       | <b>P Case #4</b>   | Melanie M. Henry, MD, MPH,<br>Peter Wu, MD, PhD, Arthur<br>Long, PT, DPT, OCS |
| 11:55       | <b>Question and Answer</b>   |   |
| 12:15pm     | <b>Boxed Lunch (included in tuition)</b>   |   |
| <b>III.</b> | <b>Efficiency and Challenges in the Hospital and Operating Room Moderator: Praveen Mummaneni, MD</b>                                       |   |
| 1:15        | <b>Diverse Patient Populations and Approach to the Underserved Populations</b>   | Anthony DiGiorgio, DO, MHA  |
| 1:35        | <b>Programs to Optimize Patients Pre-operatively, to Improve Inpatient Efficiency and Long-Term Outcomes</b>                               | Christopher R. Abrecht, MD  |
| 1:45        | <b>P How to Optimize Efficiency with Injections for Spine Pain at a Surgical Center</b>  | Robert Gamburd, MD  |
| 2:05        | <b>Guest Lecture Introduction</b>  |   |
| 2:10        | <b>How to Optimize Spine Surgery Team Efficiency in the Operating Room</b>   | Praveen Mummaneni, MD<br>Luis M. Tumialán, MD                                 |
| 2:40        | <b>Guest Lecture Introduction</b>  |   |
| 2:45        | <b>The Utility of Functional Outcome Measures in the Evaluation of Spinal Pathology and Treatment</b>                                      | Sigurd Berven, MD<br>Isador Lieberman, MD, MBA,<br>FRCSC                      |
| 3:15        | <b>Question and Answer</b>   |   |
| 3:35        | <i>Break</i>   |   |
| <b>IV.</b>  | <b>Tumor, Trauma, and Deformity Part I Moderator: Praveen Mummaneni, MD</b>  |   |
| 3:55        | <b>P Back Pain Cases</b><br>Panel: J. Morgan, MD, Z. Guan, MD, and I. Say, MD  | Presenter:<br>Phillip Kissel, MD, FACS  |
| 4:15        | <b>P Painful Trauma Cases with Complications</b><br>Panel: A. DiGiorgio, DO, MHA, A. El Naga, MD, T. Arora, MD                             | Presenter:<br>David Gendelberg, MD  |
| 4:35        | <b>P Painful Spine Tumor Cases with Complications</b><br>Panel: A. Clark, MD, PhD, P. Mummaneni, MD, B. Tay, MD                            | Presenter:<br>Alekos Theologis, MD  |

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| 4:55   | <b>P</b> | <b>Painful Deformity Cases with Complications</b><br>Panel: V. Deviren, MD, MD, S Berven, MD, L. Tan, MD | <b>Presenter:</b><br><b>Lee Tan, MD</b> |
| 5:05   |          | <i>Question and Answer</i>   |   |
| 5:15pm |          | <i>Adjourn</i>   |   |

### Spine Symposium – Saturday, June 17, 2023

7:00 am *Registration and Continental Breakfast*

#### **V. Case Presentations**

**Moderators Sigurd Berven, MD and Praveen Mummaneni, MD**

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|--------|----------|---|--|
| 7:30   |          | <b>MIS Cervical Cases</b>   | <b>Bobby Tay, MD</b>                         |
| 7:50   |          | <b>MIS Lumbar Cases</b>   | <b>Aaron Clark, MD</b><br><b>Lee Tan, MD</b> |
| 8:10   |          | <b>Changes in Reimbursement Models: Risk Sharing Models</b>   | <b>Paul Slosar, MD</b>                       |
| 8:30   |          | <b>The Past, Present and Future of VR/AR in Spine Surgery</b>   | <b>Kris Okumu, MD</b>                        |
| 8:50   |          | <b>Question and Answer</b>  |  |
| 9:10   |          | <b>Guest Lecture Introduction</b>   | <b>Sigurd Berven, MD</b>                     |
| 9:15   |          | <b>Robotics and Spine Surgery; The Genesis, State of the Art &amp; the Future – Discussion</b>                    | <b>Isador Lieberman, MD, MBA, FRCSC</b>      |
| 9:45   |          | <b>The Role of Anterior Reconstruction in Spine Surgery – Techniques of Anterior Column Reconstruction</b>        | <b>Vedat Deviren, MD</b>                     |
| 10:05  |          | <b>Question and Answer</b>  |  |
| 10:25  |          | <i>Coffee Break</i>   |  |
| 10:45  |          | <b>Integration of Minimally Invasive Techniques into Open Surgery to Prevent Adjacent Segment Disease and PJK</b> | <b>Lionel N. Metz, MD</b>                    |
| 11:05  |          | <b>Guest Lecture Introduction</b>   | <b>Praveen Mummaneni, MD</b>                 |
| 11:10  |          | <b>The Inevitability of Minimally Invasive Spinal Surgery: A Spine Surgeon's Destiny</b>                          | <b>Luis M. Tumialán, MD</b>                  |
| 11:40  | <b>P</b> | <b>Brachial Neuritis</b>  | <b>Line Jacques, MD</b>                      |
| 12:20  |          | <b>Update on Skeletal Health</b>  | <b>Aenor Sawyer, MD</b>                      |
| 12:40  |          | <b>Question and Answer</b>  |  |
| 1:00pm |          | <i>Lunch</i>  |  |

#### **VI. Tumor, Trauma, and Deformity Part II**

**Moderator Sigurd Berven, MD**

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|------|----------|--|---|
| 2:00 | <b>P</b> | <b>Trauma Cases – Injuries from the Golden Gate National Recreation Area</b> | Presenter: Tarun Arora, MD<br>Panel: Anthony DiGiorgio, DO, MHA, Sun Ik Lee, MD   |
| 2:20 | <b>P</b> | <b>Post-op Complications with Cervical Spine Cases</b>                       | Presenter: Irene Say, MD<br>Panel: Leslie Robinson, MD<br>Bobby Tay, MD,<br>Anthony DiGiorgio, DO, MHA<br>Candita Rodriguez, NO |
| 2:40 | <b>P</b> | <b>Post-op Complications with Lumbar Degenerative Cases</b>                  | Presenter: Lee Tan, MD<br>Panel: Aaron Clark, MD, PhD<br>Sun Ik Lee, MD<br>Julie Cassata, NP                                    |

#### **VII. Perspective and the Management of Cases**

**Moderator Sigurd Berven, MD**

|      |          |  |  |
|------|----------|--|--|
| 3:00 | <b>P</b> | <b>Low Back Pain without Radiculopathy</b> | Presenter: Berven<br>Panel: DiGiorgio, Lieberman, O'Neill, Matan |
| 3:20 | <b>P</b> | <b>Cervical Myelopathy</b>                 | Presenter: Berven<br>Panel: DiGiorgio, Lieberman, O'Neill, Matan |
| 3:40 | <b>P</b> | <b>Degenerative Spondylolisthesis</b>      | Presenter: Berven<br>Panel: DiGiorgio, Lieberman, O'Neill, Matan |

4:00      **P    Adult Degenerative Scoliosis**

Presenter: Berven  
Panel: DiGiorgio, Lieberman,  
O'Neill, Matan

4:20      **Question and Answer**

4:45pm      *Adjourn*