

# Program

## THURSDAY, JULY 13

1:00 PM Registration Opens KOKOPELLI FOYER

3:30 Beer and Appetizers with Exhibit Viewing KOKOPELLI FOYER

### Session 1: Cervical Degenerative

KOKOPELLI 2-3

Moderators: *D. Riew & H. Bae*

4:00 Welcome *L. Lenke & D. Skaggs*

#### Part 1 | Stump the Chumps

Panel: *N. Anand, N. Bhamb, J. Lin, J. Osorio, A. Simela, R. Watkins*

#### CASE #1

4:10 Case Introduction: Och Presents the Case

4:12 Case Discussion: Cedars Discusses the Case

4:20 Case Resolution by Presenter

4:22 Q&A

#### CASE #2

4:26 Case Introduction: Cedars Presents the Case

4:28 Case Discussion: Och Discusses the Case

4:36 Case Resolution by Presenter

4:38 Q&A

#### Part 2 | My Most Difficult Case

#### CASE #3

4:42 Case Introduction: Cedars Presents the Case *H. Bae*

4:44 Case Discussion: Och Discusses the Case *Och Panel: J. Li, A. Vivas*

4:52 Case Resolution by Presenter

4:54 Q&A

#### CASE #4

4:58 Case Introduction: Och Presents the Case *D. Riew*

5:00 Case Discussion: Cedars Discusses the Case *Cedars Panel: Z. Sardar, C. Kong*

5:08 Case Resolution by Presenter

5:10 Q&A

# Program

## Session 2: Trauma Management

KOKOPELLI 2-3

Moderators: *E. Baron, J. Lombardi*

Panel: *J. Kim, G. Baum, A. Jada, A. Villavicencio*

5:15 pm **CASE #1 | L2 Unstable Burst/Whole Canal Compromise Toe Flicker**

### Debates

1. Posterior vs. anterior vs. combined approach: What drives the surgical decision-making process?
2. Role for ligamentotaxis (would it be useful or not?)
3. MIS vs. open?

5:35 **CASE #2 | C6 Quad, Cyclist with Fracture Dislocation**

### Debates

1. High grade cervical fracture: best way to obtain reduction
  - a. Closed
  - b. Operative—Anterior vs. posterior: Which for reduction?
2. Anterior vs. Posterior: Advantages and disadvantages of either and how doing one or the other first changes the nature of construct length and alignment

5:55 **CASE #3 | Delayed Treatment of SCI: Patient Transferred to the Hospital One Week Post Injury**

### Debates

1. Timing of surgery (early vs. late)
2. Surgical expectations
3. Role of pharmacology/MAP therapy (yes vs. no)
4. Role of neuromonitoring (what should be monitored)
5. Medicolegal aspects

6:15 Adjourn

**6:30 Shuttles Depart for Och Spine Hospital Fellows Reunion Dinner**

MAIN ENTRANCE

*By Invitation Only | See Page 12 for details.*

**6:30 Ski Lifts Depart for Cedars-Sinai Fellows Reunion Dinner**

HERITAGE LEVEL

*By Invitation Only | See Page 12 for details.*

# Program

## FRIDAY, JULY 14

6:45 am Registration Opens KOKOPELLI FOYER

6:45 Breakfast with Exhibit Viewing KOKOPELLI 1 & KOKOPELLI FOYER

### Session 3: Lumbar Degenerative

KOKOPELLI 2–3

Moderators: *R. Lehman & T. Perry*

7:15 am Welcome D. Skaggs

#### **CASE DEBATE #1 | MIS TLIF with Perc Screws vs. Mini-open TLIF Comparison**

7:20 Case Introduction R. Lehman

7:23 Audience vote: What is your preferred treatment option?

7:26     ▪ Mini open K. Kwan

7:29     ▪ MIS C. Mikhail

7:32 Discussion

7:38 Audience vote: Who convinced you?

#### **CASE DEBATE #2 | L5-S1 Lumbar Degenerative Disease with Radiculopathy: TDR vs. ALIF vs. TLIF**

7:40 Case Introduction T. Perry

7:42 Audience vote: What is your preferred treatment option?

7:43     ▪ TDR H. Bae

7:46     ▪ ALIF R. Desai

7:49     ▪ TLIF S. Khairi

7:52 Discussion

7:58 Audience vote: Who convinced you?

#### **CASE DEBATE #3 | L4-5 Spondy is My Wheelhouse: The Best Approach Is...**

8:00 Case Introduction T. Perry

8:03 Audience vote: What is your preferred treatment option?

8:06     ▪ TLIF E. Baron

8:09     ▪ LLIF/OLIF N. Anand

8:12 Discussion

8:18 Audience vote: Who convinced you?

#### **CASE DEBATE #4 | Multilevel Degenerative Spondylosis and Stenosis**

8:20 Case Introduction R. Lehman

# Program

|      |   |                 |
|------|---|-----------------|
| 8:33 | Audience vote: What is your preferred treatment option? |                 |
| 8:26 | ▪ Open Posterior with direct decompression              | M. Pham         |
| 8:29 | ▪ Anterio/lateral with indirect decompression           | N. Anand        |
| 8:32 | ▪ When I need indirect and direct decompression         | J. Kim          |
| 8:35 | Discussion  |                 |
| 8:41 | Audience vote: Who convinced you?                       |                 |
| 8:45 | <b>Refreshment Break with Exhibit Viewing</b>           | KOKOPELLI FOYER |

## Session 4: Controversies in Degenerative Scoliosis

KOKOPELLI 2-3

Moderators: D. Chou &amp; S. Kim

|         |   |           |
|---------|---|-----------|
| 9:00 am | Introduction  | D. Chou   |
|         | <b>CASE DEBATE #1   Degen Lumbar Scoliosis with Stenosis</b>  |           |
| 9:02    | Case Introduction   | D. Chou   |
| 9:05    | Audience vote: What is your preferred treatment option?   |           |
| 9:09    | ▪ T10 to pelvis, just get it over with  | K. Kwan   |
| 9:13    | ▪ Even T10 to the pelvis results in T3 to the pelvis; it never ends so why go big?  | S. Kim    |
| 9:17    | ▪ Limited fusion is best, treat the Cobb angle L2-L5  | D. Chou   |
| 9:21    | ▪ The fractional curve causes most of the problems, just fuse L4-S1, and you've solved most problems.                     | V. Nemani |
| 9:25    | ▪ Decompression alone is the best first step, even if it eventually fails. You can sometimes hit a home run without metal | R. Härtl  |
| 9:29    | ▪ Interbodies are critical in adult scoliosis to alleviate up-down stenosis and improve fusion                            | N. Anand  |
| 9:33    | ▪ Posterior-only surgery is all that is needed  | L. Tan    |
| 7:32    | Discussion  |           |
| 7:38    | Audience vote: Who convinced you?   |           |
|         | <b>CASE DEBATE #2   Previous L4-5 Fusion Now with Flat Back Syndrome</b>  |           |
| 9:50    | Case Introduction   | S. Kim    |
| 9:53    | Audience vote: What is your preferred treatment option?   |           |
| 9:57    | ▪ PSO gets you the best lordosis  | Z. Sardar |
| 10:01   | ▪ Interbodies and PCOs do just as well with much less morbidity   | S. Kim    |
| 10:05   | Discussion  |           |

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10:12 Audience vote: Who convinced you?

10:15 Adjourn

**10:25 am Summer Spine Symposium Challenge Cup: Golf Tournament Begins** **CANYONS GOLF CLUBHOUSE**  
By advanced signup only. Inquire at the Registration Desk for directions and details about the golf tournament.

**10:50 am Trap Shooting Excursion: Meet Shuttles** **MAIN ENTRANCE**  
By advanced signup only. Inquire at the Registration Desk for directions and details.

**3:30 pm Beer and Appetizers with Exhibit Viewing** **KOKOPELLI FOYER**

### Session 5: Peds/Pre-Op/Pain

**KOKOPELLI 2-3**

*Moderators: K. Illingworth & M. Weidenbaum*

4:15 pm Advances in Teenage Scoliosis and Kyphosis *K. Illingworth*

4:20 Discussion

4:23 Merits and challenges of a preoperative adult spine patient evaluation and optimization *M. Weidenbaum*

4:30 Pathways to best manage the opioid-addicted patient going through and recovering from spine surgery *K. Wittnebel*

4:37 Q&A

**4:40 Keynote Lecture: Defining the Frailty Phenotype for Better Prediction: Physical Metrics, Radiomics and Epigenetics** **Christopher Ames**

#### Technology Updates

4:58 Non-CME Tech Update #1 | Supported by Medtronic Data and Patient-Specific Implants: How Technology is Changing my Practice *R. Lehman*

5:23 Non-CME Tech Update #2 | Supported by Acuity Surgical AcuPac—What It Is and Why I Use It *L. Lenke*

### Session 6: My Coolest Advanced Tech Case

**KOKOPELLI 2-3**

*Moderators: R. Härtl & P. Johnson*

5:48 pm Case # 1: Cedars *D. Skaggs*

5:53 Case # 2: Och *P. Park*

5:58 Case # 3: Cedars *T. Kim*

6:03 Case # 4: Och *R. Iyer*

6:08 Discussion

6:15 Adjourn

**6:20 pm Course Reception in Exhibit Hall** **KOKOPELLI 1 & KOKOPELLI FOYER**  
Enjoy the company of colleagues and our supporters with drinks, hors d'oeuvres, and a chance to win the Longest Lasso competition!

# Program

## SATURDAY, JULY 15

6:45 am Registration Opens KOKOPELLI FOYER

6:45 Breakfast with Exhibit Viewing KOKOPELLI 1 & KOKOPELLI FOYER

### Session 7: Cervical Degenerative

KOKOPELLI 2-3

Moderators: *T. Kim & C. Mandigo*

7:15 am Welcome L. Lenke

#### CASE DEBATE #1 | Cervical Radiculopathy from Neuroforaminal Stenosis or HNP

7:18 Case Introduction: Single Level C. Mandigo

7:21     ▪ ACDF A. Pugely

7:27     ▪ Foraminotomy C. Kong

7:33     ▪ Cervical disc replacement P. Park

7:39 Discussion

7:44 Audience vote

#### CASE DEBATE #2 | Multilevel DDD, Spondylolisthesis and Deformity

7:47 Case Introduction: C4-7 DDD, C4-5 Spondylolisthesis, Stenosis T. Kim

7:50 Anterior only K. Woods

7:56 Posterior only A. Jada

8:02 Anterior and Posterior M. Pham

8:08 Discussion J.P. Johnson

7:58 Audience vote

### Session 8: When Enabling Technology Falts

KOKOPELLI 2-3

Moderators: *T. Kim & J. Lombardi*

8:17 Cedars Experience with Robotic Technology T. Kim

8:23 Och Experience with Robotic Technology J. Lombardi

8:29 Discussion  
Panel: *E. Nomoto, M. Pham, Z. Sardar, R. Hartl, J. P. Johnson, A. Villaviencio*

8:44 Vote

8:45 Refreshment Break with Exhibit Viewing KOKOPELLI FOYER

# Program

## Session 9: Lumbar Degenerative

KOKOPELLI 2–3

Moderators: *Z. Sardar & A. Tuchman*

|                 |  |                      |
|-----------------|--|----------------------|
| 9:00 am         | Introduction   |                      |
|                 | <b>CASE DEBATE #1   Deg L4-5 Grade 1 Spondylolisthesis with Leg&gt;Back Pain</b>             |                      |
| 9:00            | Case Introduction  | <i>A. Tuchman</i>    |
| 9:05            | Audience vote: What is your preferred treatment option?                                      |                      |
| 9:06            | ▪ Lumbar Decompression   | <i>J. Lin</i>        |
| 9:10            | ▪ Lumbar Decompression and Posterolateral Fusion   | <i>Z. Sardar</i>     |
| 9:14            | ▪ TLIF   | <i>P. Angevine</i>   |
| 9:18            | ▪ ALIF/LLIF/OLIF   | <i>A. Tuchman</i>    |
| 9:22            | Discussion   |                      |
| 9:32            | Audience vote: Who convinced you?  |                      |
|                 | <b>CASE DEBATE #2   Previous L4-5 Fusion Now with Flat Back Syndrome</b>                     |                      |
| 9:35            | Case Introduction  | <i>Z. Sardar</i>     |
| 9:38            | Audience vote: What is your preferred treatment option?                                      |                      |
| 9:41            | ▪ Revision Microdiscectomy   | <i>J. Li</i>         |
| 9:45            | ▪ Endoscopic Discectomy  | <i>G. Blumstein</i>  |
| 9:49            | ▪ Disc Replacement   | <i>E. Nomoto</i>     |
| 9:53            | ▪ Fusion (ALIF or TLIF)  | <i>E. Beauchamp</i>  |
| 9:57            | Discussion   |                      |
| 10:07           | Audience vote: Who convinced you?  |                      |
| 10:10           | Adjourn  |                      |
| <b>10:35 am</b> | <b>Whitewater Rafting Adventure: Meet Shuttles</b>   | <b>MAIN ENTRANCE</b> |
|                 | <i>By advanced signup only. Inquire at the Registration Desk for directions and details.</i> |                      |
| <b>12:20 pm</b> | <b>Horseback Mountain Trail Ride: Meet Shuttles</b>  | <b>MAIN ENTRANCE</b> |
|                 | <i>By advanced signup only. Inquire at the Registration Desk for directions and details.</i> |                      |

# Program

3:30 pm Beer and Appetizers with Exhibit Viewing

KOKOPELLI FOYER

## Session 10: The Future of Spine Surgery

KOKOPELLI 2-3

Moderators: L. Lenke & D. Skaggs

|         |   |               |
|---------|---|---------------|
| 4:15 pm | Welcome & Introduction  |               |
|         | <b>Part 1   ASC's and Ambulatory Spine Surgery</b>  |               |
| 4:18    | Surgeon #1: Och   | R. Härtl      |
| 4:21    | Surgeon #2: Cedars   Outpatient robots  | E. Nomoto     |
| 4:24    | Surgeon #3: Och   | J. Lombardi   |
| 4:27    | Surgeon #4: Cedars   Reoperative anterior spine surgery   | R. Rao        |
| 4:30    | Discussion  |               |
| 4:35    | Panel Discussion   Pros and Cons of Ambulatory Cases<br>Panel: G. Baum, J. Kim, R. Rao, J. P. Johnson, E. Nomoto  |               |
|         | <ul style="list-style-type: none"> <li>▪ Risks (e.g. multilevel ACDFs)</li> <li>▪ What are the financial benefits for surgeons and patients?</li> <li>▪ What are future cases we will be doing in ASCs?</li> </ul>                          |               |
|         | <b>Part 2   IONM—State of the Art with Lumbar Nerve Root Monitoring: How Accurate Are We Now?</b>   |               |
| 4:40    | Och   | E. Thuet      |
| 4:48    | Cedars  | A. Nguyen     |
| 4:56    | Panel Discussion   How accurate is your current IONM team and how can we improve Nerve Root Monitoring sensitivity and specificity? Any reason NOT to stimulate all TL Pedicle screws?<br>Panel: J. Lin, J. Osorio, L. Ross, K. Illingworth |               |
|         | <b>Technology Updates</b>   |               |
| 5:08    | Non-CME Tech Update #1   Supported by Globus Medical<br>Advancing Technology in the Field of Spine Surgery  | J. P. Johnson |
| 5:33    | Non-CME Tech Update #2   Supported by Playback Health<br>Playback Health: Giving Clinicians More Time to Care, Build their Networks, and Grow Revenues  | G. Baum       |

## Session 11

KOKOPELLI 2-3

Moderators: L. Lenke & D. Skaggs

|      |                                       |                       |
|------|---------------------------------------|-----------------------|
| 6:00 | Spine Injuries in High Level Athletes | R. Watkins            |
| 6:10 | Debate: The Future of MIS Deformity   | N. Anand vs. L. Lenke |
| 6:30 | <b>Meeting Adjourns</b>               |                       |