Advancing Multidisciplinary Spine Care Across the Globe Through Science, Evidence and Technology
Renaissance Bangkok Ratchaprasong Hotel, Bangkok, Thailand

NASS Overall Chair:
Patrick C. Hsieh, MD, MS (USA)

Program Committee:
Charles A. Reitman, MD, Chair (USA)
David R. O’Brien, Jr., MD, Co-Chair (USA)
Jeffrey C. Wang, MD, Co-Chair (USA)
Pornpavit Sripirom, MD, Co-Chair (Thailand)
Yan Wang, MD, Co-Chair (China)

International Associate Co-chairs:
China Orthopaedic Elite Club--Yan Wang, MD
Singapore Spine Society--Gabriel Liu, MD
Korean Minimally Invasive Spinal Surgery Society--Jin-Sung Luke Kim, MD, PhD

Upon completion of this meeting, participants will gain strategies to:
• Promote discussion of new scientific developments and best practices within spine care organizations;
• Demonstrate the application of current techniques, procedures and research;
• Practice evidence- and value-based medicine relative to spine care;
• Provide an environment for the exchange of ideas in spine care with experts and peers from around the globe;
• Provide opportunities to strengthen professional relationships worldwide.

Meeting Schedule:

Thursday, July 30
7:00 a.m.-5:00 p.m.  Registration/Speaker Information Center
Royal Maneeya Ballroom Foyer

7:30 a.m.-5:00 p.m.  Technical Exhibition
ePosters
Royal Maneeya Ballroom B

7:30-9:00 a.m.  Symposium: Updates in Treatment of Cervical Radiculopathy
Royal Maneeya Ballroom A

Faculty will address the efficacy and safety of cervical epidural injections, results and outcomes of posterior cervical foraminotomy, cervical arthroplasty, and anterior cervical discectomy and fusion as the “Gold Standard.” Participants also will learn how to minimize and avoid adjacent segment disease, and about outcomes and complications for endoscopic cervical decompression.
7:30-7:45 a.m. Cervical epidural injections: What is the efficacy and safety?
7:45-8:00 a.m. Results and outcomes of posterior cervical foraminotomy
8:00-8:15 a.m. Anterior cervical disectomy and fusion is still the “Gold Standard”
8:15-8:30 a.m. Cervical arthroplasty: Patient selection, indications and contraindication
8:30-8:45 a.m. Endoscopic cervical decompression: Outcomes and complications
8:45-9:00 a.m. How to minimize and avoid adjacent segment disease
9:00-9:15 a.m. Multilevel cervical arthroplasty and hybrid constructs for multilevel cervical degenerative disease: Indications and clinical outcomes
9:15-9:30 a.m. Discussion, Questions and Answers

9:00-10:30 a.m. Abstract Paper Presentations
Royal Maneeya Ballroom A

10:30-11:00 a.m. Break/Technical Exhibition
Royal Maneeya Ballroom B

11:00 a.m.-12:30 p.m. Symposium: Lumbar Degenerative Disease
Royal Maneeya Ballroom A

Faculty will discuss how to identify the pain generators for diagnosing and managing axial back, multidisciplinary medical treatment for chronic axial back pain, and indications, surgical options and clinical outcomes for lumbar spondylosis and axial back pain. Participants will hear about biological repair of degenerative disc disease for lumbar spondylosis, as well as the efficacy and long-term outcome of spinal neuromodulation and endoscopic discectomy and annular ablation for lumbar spondylosis and axial back pain.

11:00-11:10 a.m. Diagnosing and managing axial back pain: Where are the pain generators and how to identify them?
11:10-11:20 a.m. Multidisciplinary medical treatment for chronic axial back pain: What’s effective?
11:20-11:30 a.m. Lumbar fusion for lumbar spondylosis and axial back pain: Indication, surgical options, and clinical outcomes?
11:30-11:40 a.m. Minimally invasive spine surgery for lumbar spondylosis
11:40-11:50 a.m. Endoscopic discectomy and annular ablation for lumbar spondylosis axial back pain: Patient selection, technical consideration, and outcomes
11:50-12:00 p.m. Efficacy and long term outcome of spinal neuromodulation for lumbar spondylosis and axial back pain
12:00-12:15 p.m. Biological repair of degenerative disc disease for lumbar spondylosis: Stem cell, PRP, and growth factors
12:15-12:30 p.m. Discussion, Questions and Answers

12:30-1:30 p.m. Lunch (Sponsored Workshops)
Bytes Room, Studio R8, Studio R9

1:30-3:00 p.m. Symposium: Minimally Invasive Spine Surgery Lumbar Spine
Royal Maneeya Ballroom A
Participants will gain insight about MIS for lumbar spine, MIS laminectomy for lumbar stenosis, MIS for TLIF, MIS for adult spinal deformity, MIS for lumbar lateral interbody fusion, as well as navigation and robotics in MIS.

1:30-1:40 p.m.  Surgical targeting, visualization, and radiation risk MIS in lumbar spine
1:40-1:50 p.m.  MIS Laminectomy for lumbar stenosis
1:50-2:00 p.m.  MIS TLIF: Technical pearls and complication avoidance
2:00-2:10 p.m.  Surgical outcomes and complications of transpsoas MIS lumbar lateral interbody fusion
2:10-2:20 p.m.  OLIF and pre-psoas MIS lumbar lateral interbody fusion: Indication, case selection, and outcomes
2:20-2:30 p.m.  MIS for adult spinal deformity
2:30-2:40 p.m.  Intraoperative navigation and robotics in MIS
2:40-3:00 p.m.  Discussion, Questions and Answers

3:00-3:30 p.m.  Break/Technical Exhibition  
Royal Maneeya Ballroom B

3:30-5:00 p.m.  Symposium: Traumatic Spine Injuries  
Royal Maneeya Ballroom A

Faculty will update participants about treatment of spinal cord injury, spinal cord stimulation, bracing and medical treatments of thoracolumbar burst fractures, percutaneous fixation for thoracolumbar fractures, and the management of complex thoracolumbar fracture dislocations.

3:30-3:45 p.m.  Updates in treatment of spinal cord injury: What do we know in 2020
3:45-4:00 p.m.  Rehabilitation and spinal cord stimulation for treatment of traumatic spinal cord injury
4:00-4:10 p.m.  Classifications and treatment algorithm of thoracolumbar fractures
4:10-4:20 p.m.  Bracing and medical treatments of thoracolumbar burst fractures
4:20-4:30 p.m.  Short segment vs. long segment fusion for treatment of thoracolumbar burst fractures
4:30-4:40 p.m.  Indications and surgical outcomes of percutaneous fixation for thoracolumbar fractures
4:40-4:50 p.m.  Management of complex thoracolumbar fracture dislocations: Tips and pearls
4:50-5:00 p.m.  Discussion, Questions and Answers

5:00 p.m.  

5:00-6:00 p.m.  Sessions Adjourn for Day  
Royal Maneeya Ballroom AB

Friday, July 31
7:00 a.m.-5:00 p.m.  
Royal Maneeya Ballroom Foyer

7:30 a.m.-5:00 p.m.  
Royal Maneeya Ballroom B

Welcome Reception  
Registration/Speaker Information Center  
Technical Exhibition  
ePosters
Symposium: Cervical Myelopathy and OPLL

Faculty will address cervical myelopathy progression, medical treatment options for cervical myelopathy and management of cervical deformity with myelopathy. Participants will hear updates about the surgical treatment of OPLL as well as a case presentation on multilevel cervical stenosis with myelopathy and mild kyphosis.

7:30-7:40 a.m. Radiographic and clinical predictors for progression of cervical myelopathy
7:40-7:50 a.m. Medical treatment options for cervical myelopathy
7:50-8:00 a.m. Management of cervical deformity with myelopathy
8:00-8:15 a.m. Updates on surgical treatment of OPLL

Surgical Debate
8:15-8:20 a.m. Case presentation: Multilevel cervical stenosis with myelopathy and mild kyphosis
8:20-8:30 a.m. Anterior cervical discectomy and fusion
8:30-8:40 a.m. Laminoplasty
8:40-8:50 a.m. Laminectomy and fusion
8:50-9:00 a.m. Discussion, Questions and Answers

Abstract Paper Presentations

9:00-10:30 a.m. Royal Maneeya Ballroom A

Break/Technical Exhibition

10:30-11:00 a.m. Royal Maneeya Ballroom B

Symposium: Case and Panel Discussion with Experts

The faculty panel will discuss/debate dropped head syndrome/chin on chest deformity, metastatic tumor with cord compression or osteomyelitis with epidural abscess, and complication management.

11:00-11:30 a.m. Dropped head syndrome/chin on chest deformity
11:30-12:00 p.m. Metastatic tumor with cord compression or osteomyelitis with epidural abscess
2:00-12:30 p.m. Complication management (Complex CSF leak, post-laminectomy kyphosis, post-operative neurological complications, vertebral artery injury etc.)

Lunch (Sponsored Workshops)

12:30-1:30 p.m. Bytes Room, Studio R8, Studio R9

Symposium: Pain Management

Faculty will address the opioid crisis by the numbers, medical alternatives to opioids for pain management, and results of interventional procedures for treatment of chronic pain, in addition to indications and outcomes of dorsal column spinal cord stimulator and DRG and peripheral nerve implants.

1:30-1:40 p.m. Chronic pain: The epidemics by the numbers
1:40-1:55 p.m. Opioid crisis: Who is at risk?
1:55-2:10 p.m. Medical alternatives to opioids for pain management of acute and chronic pain
2:10-2:25 p.m. Interventional procedures for treatment of chronic pain: Short- and long-term results
2:25-2:35 p.m. Indications and outcomes of dorsal column spinal cord stimulator implant
2:35-2:45 p.m. Indications and outcomes of DRG and peripheral nerve stimulator implant
2:45-3:00 p.m. Discussion, Questions and Answers

3:00-3:30 p.m.
Royal Maneeya Ballroom B

3:30-5:00 p.m.
Royal Maneeya Ballroom A

**Symposium: Adult Spinal Deformity (ASD)**

Faculty will discuss medical treatment and interventional options for adult spinal deformity as well as instrumentation and biomechanical considerations in adult spinal deformity surgery. There will also be a surgical debate about correction procedures in adult spinal deformity.

3:30-5:00 p.m. Radiographic and clinical assessment of adult spinal deformity
3:30-3:40 p.m. Medical optimization and pre-operative consideration for adult spinal deformity in elderly
3:40-3:50 p.m. Management and optimization of osteoporosis in ASD surgery
3:50-4:00 p.m. Medical treatment and interventional options for adult spinal deformity
4:00-4:10 p.m. Instrumentation and biomechanical considerations in adult spinal deformity surgery
4:10-4:20 p.m. Optimizing biologics and odds of fusion in long segment fusion constructs

**Surgical Debate**

4:25-4:30 p.m. Case presentation of adult spinal deformity
4:30-4:40 p.m. Anterior approach for correction of sagittal plane deformity in ASD
4:40-4:50 p.m. Posterior osteotomy for correction of ASD
4:50-5:00 p.m. Discussion, Questions and Answers

5:00 p.m.

**Sessions Adjourn for Day**

**Saturday, August 1**

7:00 a.m.-5:00 p.m.
Royal Maneeya Ballroom Foyer

8:00-11:00 a.m.
Royal Maneeya Ballroom B

7:30-9:00 a.m.
Royal Maneeya Ballroom A

**Registration/Speaker Information Center**

**Technical Exhibition**

**ePosters**

**Symposium: Lumbar Spondylolisthesis Controversies**

Faculty will cover the controversies for lumbar spondylolisthesis, including decompression, fusion, minimally invasive lateral approach, anterior versus posterior approach and minimally Invasive TLIF.

7:30-7:40 p.m. Decompression only for Lumbar Spondylolisthesis
7:40-7:50 p.m. Radiographic and clinical predictors for failure of decompression only in lumbar spondylolisthesis
7:50-8:00 p.m. Results and clinical outcomes of endoscopic decompression for lumbar spondylolisthesis
8:00-8:10 p.m. Fusion is superior to decompression only for spondylolisthesis
8:10-8:20 p.m. Minimally invasive lateral approach for lumbar spondylolisthesis
8:20-8:30 p.m. Anterior versus posterior approach for lumbar spondylolisthesis
8:30-8:40 p.m. Minimally Invasive TLIF for lumbar spondylolisthesis
8:40-9:00 p.m. Discussion, Questions and Answers

9:00-10:30 a.m. Abstract Paper Presentations
Royal Maneeya Ballroom A

10:30-11:00 a.m. Break/Technical Exhibition
Royal Maneeya Ballroom B

11:00 a.m.-12:30 p.m. Symposium: Infections
Royal Maneeya Ballroom A

Participants will gain insight about the diagnostic criteria and clinical indicators for management of spine infections, Pott’s diseases, how to minimize surgical site infections in instrumented spine surgeries, and the epidemiology and risk factors for spontaneous spinal osteomyelitis and epidural abscess.

11:00-11:15 a.m. Epidemiology and risk factors for spontaneous spinal osteomyelitis and epidural abscess
11:15-11:30 a.m. Management of Pott’s diseases: Updates in 2020
11:30-11:45 a.m. Diagnostic criteria and clinical indicators for management of spine infections
11:45-12:00 p.m. How to minimize surgical site infections in instrumented spine surgeries?
12:00-12:15 p.m. Management of chronic spine infection with instrumentation
12:15-12:30 p.m. Discussion, Questions and Answers

12:30 p.m. Meeting Adjourns