



2018 Spine Across the Sea: Treatment of Elderly Patients with Spinal Disorders

July 29-August 2, 2018

Kauai Marriott Resort

Kauai, Hawaii

NASS Overall Chair: Jeffrey C. Wang, MD

NASS Chair: Jason W. Savage, MD

NASS Co-chair: Gregory D. Schroeder, MD

JSSR President and Overall Chair: Toshihiko Taguchi, MD

JSSR Chair: Hirotaka Haro, MD

JSSR Organizing Committee: Yasuaki Tokuhashi, MD, Vice-president, JSSR; Atushi Okawa, MD, Secretary, JSSR; Masashi Yamazaki, MD; Mamoru Kawakami, MD; Yoichi Shimada, MD

Monday, July 30

7:10-7:15 a.m.

Opening Remarks

7:15-7:30 a.m.

Advocacy Update

7:30-9:00 a.m.

Abstract Session: Adult Spinal Deformity

9:00-9:30 a.m.

Break

9:30-11:00 a.m.

Symposium: Adult Spinal Deformity

Faculty will review the evaluation and treatment of patients with adult spinal deformity (ASD) and focus on understanding radiographic parameters and alignment objectives in ASD. Additionally, faculty will debate/discuss the role of minimally invasive surgery in ASD, as well as discuss proximal junctional kyphosis/failure.

Upon completion of this session, participants should gain strategies to:

- Determine radiographic parameters and alignment objectives in adult spinal deformity;
- Review the perioperative evaluation and optimization of patients undergoing deformity correction;
- Strategically plan the “right” operation for patients with adult spinal deformity (MIS versus Open);
- Discover tips and tricks in the management and avoidance of proximal junctional kyphosis;
- Develop a better understanding of “when to go big or go home.”

*****All times are listed in Hawaii Standard Time Zone*****

Agenda

- 9:30-9:45 a.m. Understanding Radiographic Parameters and Alignment Objectives in Adult Spinal Deformity
Yu Yamato, MD, JSSR
- 9:45-10:00 a.m. Perioperative Optimization of Patients Undergoing Deformity Surgery
Satoshi Inami, MD, JSSR
- 10:00-10:15 a.m. MIS vs. Open Deformity Surgery: When, Why and How
John H. Shin, MD, NASS
- 10:15-10:30 a.m. Proximal Junctional Kyphosis: Avoidance and Management
Jason W. Savage, MD, NASS
- 10:30-11:00 a.m. Case Debate with Panel: Deformity Correction vs. Selective Decompression/Fusion
Jason W. Savage, MD, NASS; Daniel M. Sciubba, MD, NASS

11:00-11:30 a.m.

Break

11:30 a.m.-1:00 p.m.

Abstract Session: Cervical Spine

1:00 p.m.

General Meeting Adjourns

Tuesday, July 31

7:25-7:30 a.m.

Opening Remarks

7:30-9:00 a.m.

Symposium: Minimally Invasive Fusion: LIF, MIS TLIF, PPS, OLIF

Faculty will present minimally invasive approaches to common degenerative pathologies and the latest technologies. Presentations will address indications and describe technical procedures as well as tricks, pearls and complications.

Upon completion of this session, participants should gain strategies to:

- List the indications for common minimally invasive procedures in the treatment of degenerative spine disease;
- Outline the general technical approaches to minimally invasive approaches to the degenerative spine;
- Determine the differences between different minimally invasive lateral approaches to the lumbar spine.

Agenda

- 7:30-8:25 a.m. Case Debate: L4-L5 Degenerative Spondylolisthesis
- 7:30-7:36 Decompression Alone with MED
Hiroaki Nakamura, MD, JSSR
- 7:36-7:42 Decompression and PSF
Dominic W. Pelle, MD, NASS
- 7:42-7:48 MIS TLIF
Wellington K. Hsu, MD, NASS

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7:48-7:54	Cortical Screws +/- TLIF <i>Takashi Kaito, MD, JSSR</i>
7:54-8:00	Endoscopic TLIF <i>Michael P. Steinmetz, MD, NASS</i>
8:00-8:06	ALIF with Percutaneous Screws <i>Thomas E. Mroz, MD, NASS</i>
8:06-8:25	Panel Discussion

8:25-8:35 Indications to Perform a Lateral Interbody Fusion (LIF)
Tetsuro Ohba, MD, JSSR

8:35-8:45 OLIF or LIF: When, Why, and How
Takanori Saito, MD, JSSR

8:45-9:00 a.m. Panel Discussion

9:00-9:30 a.m.

Break

9:30-10:30 a.m.

Abstract Session: Motion Preservation

10:30 a.m.-12:00 p.m.

Symposium: Biologics, Navigation and New Technology

New technology in spine surgery can be exciting yet confusing at the same time. With the development of novel products, techniques and software, surgeons should have a solid understanding of the science and evidence behind these technologies. During this session faculty will review the most recent literature and provide commentary on a variety of apropos spine surgery products which have been and are being developed.

Upon completion of this session, participants should gain strategies to:

- Assess the current evidence regarding commercially available biologics and its efficacy in spine fusion;
- Evaluate the literature pertaining to biologic solutions for spinal cord injury and regeneration of the intervertebral disc;
- Discuss the aptitude of current navigation and robotics systems and predict the future capabilities of further developed technologies.

Agenda

10:30-10:40 a.m. An Evidence-based Approach to Biologics
Wellington K. Hsu, MD, NASS

10:40-10:50 a.m. Regenerative Medicine for Spinal Cord Injury: Where are We Now and Where are We Going?
Narihito Nagoshi, MD, JSSR

10:50-11:00 a.m. Stem Cell Injections for Acute Spinal Cord Injuries
Richard G. Fessler, MD, PhD, NASS

11:00-11:15 a.m. Regenerative Medicine for Intervertebral Disc: Where are We Now and Where are We Going?
Daisuke Sakai, MD, JSSR

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- 11:15-11:25 a.m. The Utility of Navigation in Spine Surgery
Raymond J. Hah, MD, NASS
- 11:25-11:35 a.m. Robotics: Is This the Future?
Kevin M. Walsh, MD, NASS
- 11:35-11:45 a.m. New Imaging Techniques for Cervical Spondylotic Myelopathy
Masaya Nakamura, MD, JSSR

11:45 a.m. – 12:00 p.m. Panel Discussion

12:00-12:30 p.m.

Break

12:30-1:30 p.m.

Abstract Session: Lumbar Part I

1:30 p.m.

General Meeting Adjourns

Wednesday, August 1

7:25-7:30 a.m.

Opening Remarks

7:30-9:00 a.m.

Symposium: Treatment of Cervical Spine Disorders

A robust review and discussion of pertinent topics addressing cervical spine surgery. Experts in their respective subject areas will debate appropriate treatment for cervical radiculopathy as well as discuss treatment options for multilevel cervical myelopathy, central cord syndrome, deformity correction, and the use of neural monitoring.

Upon completion of this session, participants should gain strategies to:

- Identify treatment options and supporting evidence for 1 and 2 level cervical radiculopathy;
- Determine the state of the art literature for management of Central Cord Syndrome;
- Identify the various treatment approaches for multilevel cervical myelopathy;
- Appreciate novel techniques for cervical deformity correction;
- Determine the utility of neural monitoring during cervical spine surgery.

Agenda

- 7:30-7:55 a.m. Case Debate: 1 or 2-Level Radiculopathy
- 7:30-7:36 Anterior Cervical Discectomy and Fusion (ACDF)
Gregory Schroeder, MD, NASS
- 7:36-7:42 Total Disc Replacement
Wellington Hsu, MD, NASS
- 7:42-7:48 Foraminotomy
Tom Mroz, MD, NASS
- 7:48-7:55 Discussion
- 7:55-8:05 a.m. Central Cord Syndrome: Timing of Surgery
Ajit A. Krishnaney, MD, NASS

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8:05-8:30 a.m.	Treatment of Multilevel Cervical Spondylotic Myelopathy (CSM) or Ossification of the Posterior Longitudinal Ligament (OPLL)
8:05-8:10	Multilevel Anterior Cervical Discectomy and Fusion <i>Alpesh Patel, MD, NASS</i>
8:10-8:15	Posterior Decompression and Posterior Spinal Fusion <i>Jeffrey C. Wang, MD, NASS</i>
8:15-8:20	Laminoplasty <i>Morio Matsumoto, MD, JSSR</i>
8:20-8:25	Anterior or Posterior Approach <i>Toshitaka Yoshii, MD, JSSR</i>
8:25-8:30	Discussion

8:30-8:40 a.m. New Techniques for Cervical Spine Instrumentation for Spinal Deformity
Hiroataka Chikuda, MD, JSSR

8:40-8:50 a.m. Efficacy of Evoked Potential Monitoring During Cervical Spine Surgeries
Tsukasa Kanchiku, MD, JSSR

8:50-9:00 a.m. Discussion

9:00-9:30 a.m.

Break

9:30-10:30 a.m.

Abstract Session: Trauma and Tumor

10:30 a.m.-12:00 p.m.

Symposium: Osteoporosis and Sarcopenia

Faculty will evaluate the status of osteoporosis in patients undergoing spinal fusion surgery or suffering vertebral fracture, as well as address a decrease the complication rate.

Upon completion of this session, participants should gain strategies to:

- Identify the status of osteoporosis before surgery;
- Apply appropriate pharmacological treatment pre-and postoperative surgery and surgical technique;
- Choose the appropriate treatment of vertebral fractures.

Agenda

10:30-10:45 a.m. The Relationship Between Osteoporosis and Sarcopenia
Naohisa Miyakoshi, MD, JSSR

10:45-11:00 a.m. Diagnostic Workup of Osteoporosis in Patients Undergoing Spinal Fusion Surgery
Gregory D. Schroeder, MD, NASS

11:00-11:15 a.m. Pharmacological Treatment of Osteoporosis Before and After Spinal Fusion Surgery
Hiroataka Haro, MD, JSSR

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11:15-11:30 a.m. Strategies to Reduce the Incidence of Pedicle Screw Loosening, Cage Subsidence, and Pseudarthrosis after Fusion Surgery in Patients with Osteoporosis
Gen Inoue, MD, JSSR

11:30-11:45 a.m. Treatment of Osteoporotic Vertebral Fractures: Nonoperative Care and Indications to Perform Surgery
Clinton J. Devin, MD, NASS

11:45 a.m. – 12:00 p.m. Panel Discussion

12:00-12:15 p.m. **Food and Beverage Break**

12:15-1:15 p.m. **Abstract Session: Diagnostics/Imaging**

1:15 p.m. **General Meeting Adjourns**

Thursday, August 2

7:25-7:30 a.m. **Opening Remarks**

7:30-9:00 a.m. **Abstract Session: Complications**

9:00-9:15 a.m. **Break**

9:15-10:15 a.m. **Abstract Session: Lumbar Part II**

10:15-11:45 a.m. **Symposium: Help the Professor! Case Presentations**

Faculty will focus on complex case presentations including adult spinal deformity, spinal oncology, and spinal infections, as well as review the appropriate diagnostic work-up of these complex cases, explore surgical treatment options, and review “tips and tricks” of performing these complex operations.

Upon completion of this session, participants should gain strategies to:

- Determine the clinical and diagnostic work-up involved in treating complex spinal deformity, spinal infections and tumors;
- Review the “tips and tricks” of performing complex spinal reconstructions.

Agenda

10:30 a.m.-11:45 p.m. Case Presentations
Faculty Panel:
R. Douglas Orr, MD, FRCSC, NASS
Seiji Ohtori, MD, JSSR,
Daniel M. Sciubba, MD, NASS
Yukihiro Matsuyama, MD, JSSR

11:45 a.m. **General Meeting Adjourns**

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