

SPINE ACROSS THE SEA 2009



**spine
across the
sea**
July 26-30, 2009

July 26-30, 2009
The Ritz-Carlton, Kapalua
Maui, Hawaii

Jointly sponsored by the
North American Spine Society
and the Japanese Society for
Spine Surgery and Related Research



PRELIMINARY PROGRAM

Welcome to Spine Across the Sea 2009!

Aloha! On behalf of the North American Spine Society (NASS) and the Japanese Society for Spine Surgery and Related Research (JSSR), we invite you to attend Spine Across the Sea to be held July 26-30, 2009 on the beautiful island of Maui, Hawaii. This meeting will provide physicians an opportunity to share current information and concepts relating to spinal problems. While most will come from the United States and Japan, participants from Asia, the Americas and Europe are also expected to attend.

Spine Across the Sea will be held at one of Maui's premier golf resort hotels, The Ritz-Carlton, Kapalua. This resort is surrounded by three golf courses and a historic pineapple plantation overlooking the Pacific Ocean and is located north of the whaling village of Lahaina.

This unique meeting is presented every three years and offers a wealth of benefits: scientific paper presentations, electronic posters and symposia; a technical exhibit hall; plus breakfasts and networking breaks. The Opening Reception on Sunday, July 26 is a great opportunity to meet with colleagues.

We look forward to seeing you in Hawaii. Mahalo!

James D. Kang, MD

North American Spine Society Program Chairman

Kensei Nagata, MD

Japanese Society for Spine Surgery and Related Research Program Chairman

Planning Committee

Alexander J. Ghanayem, MD, NASS Overall Chair
Shinichi Kikuchi, MD, JSSR Overall Chair

JSSR Organizing Committee

Joji Mochida, MD
Kazuo Yonenobu, MD
Yutaka Nohara, MD
Munehito Yoshida, MD

NASS Program Committee

James D. Kang, MD, Chair
Charles L. Branch, Jr., MD
Joseph Cheng, MD
Susan Dreyer, MD
K. Daniel Riew, MD
Kenneth Yonemura, MD

JSSR Program Committee

Kensei Nagata, MD, Chair
Shouichi Kokubun, MD
Kazuhiro Chiba, MD
Yukihiro Matuyama, MD
Kuniyoshi Abumi, MD

2009 Spine Across the Sea Scientific Program Reviewers

NASS thanks these volunteers who spent numerous hours reviewing abstracts:

| | |
|--------------------------|---------------------------|
| Kuniyoshi Abumi, MD | Yoshihiro Mikawa, MD |
| Sigurd Berven, MD | Joji Mochida, MD, PhD |
| Kazuhiro Chiba, MD, PhD | Kensei Nagata, MD |
| Alex Ching, MD | Ahmed Nassr, MD |
| Steven D. Glassman, MD | Kotaro Noshida, MD |
| Edward Hanley, MD | Yutaka Nohara, MD |
| Yushin Ishii, MD | Ravi Ponnappan, MD |
| Motoki Iwasaki, MD | Tetsuro Sato, MD, PhD |
| James D. Kang, MD | Tateru Shiraishi, MD |
| Mamoru Kawakami, MD, PhD | Kazuhiro Takahashi, MD |
| Shoichi Kokubun, MD | Toshihiko Yamashita, MD |
| Joon Yung Lee, MD | Kazuo Yonenobu, MD |
| Jeffrey C. Lotz, PhD | Munehito Yoshida, MD, PhD |
| William S. Marras, MD | |
| Yukihiro Matsuyama, MD | |
| Robert F. McLain, MD | |

General Information

MEETING OBJECTIVES

The purpose of this meeting is to:

- Promote discussion of new scientific developments and best practices within spine care organizations.
- Foster research and training through didactic sessions and interactive discussions.
- Provide an environment for the exchange of ideas in spine care with experts and peers from around the globe.
- Analyze international health policy trends and their impact on societies.
- Provide opportunities to strengthen professional relationships worldwide.
- Foster young investigator development.

WHO SHOULD ATTEND

Join the leading authorities in spine care, representing a multidisciplinary community that includes: Orthopedic surgeons, Neurosurgeons, Radiologists, Physiatrists, Pain Management Specialists, Anesthesiologists, Psychologists, Chiropractors, Physician Assistants, Nurse Practitioners, Nurses, Researchers, Administrators and other health care professional with an abiding interest in the spine.

ABOUT NASS

The North American Spine Society (NASS) is a multidisciplinary organization with over 5,000 members in North America and abroad. The membership consists of orthopedic surgeons, neurosurgeons, physiatrists and other specialists involved in spine care.

The leading multidisciplinary organization in the field of spinal disorders, NASS' mission is to foster the delivery of quality spine care.

ABOUT JSSR

The Japanese Society for Spine Surgery and Related Research (JSSR) is the largest Japanese organization representing members in the field of spine and spinal cord disorders. JSSR has more than 3,300 members, mainly orthopedic surgeons. They hold an annual meeting and publish its official journal to promote basic research and clinical innovation.

CONTINUING MEDICAL EDUCATION CREDIT

This activity has been planned and implemented in accordance with the Essential Areas and Standards of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the North American Spine Society (NASS) and The Japanese Society for Spine Surgery and Related Research (JSSR). NASS is accredited with commendation by the ACCME to provide continuing medical education for physicians and takes responsibility for the content, quality and scientific integrity of this CME activity.

NASS designates this educational activity for a maximum of 20.0 *PRA Category 1 Credits*[™]. Participants should only claim credit commensurate with the extent of their participation in the activity.

The American Medical Association has determined that physicians not licensed in the U.S. to participate in this CME activity are eligible for *AMA PRA Category 1 Credits*[™].

The AAPA accepts Category 1 credit from AOACCME prescribed credit from AAFP and AMA Category 1 CME credit for the Physician's Recognition Award from organizations, such as NASS, accredited by the ACCME.

For credit that may be acceptable to state medical associations, specialty societies or state boards for medical licensure, please contact those organizations for their requirements.

CME CERTIFICATES

A web link for the evaluation and certificate will be e-mailed to all registered attendees after the meeting. Once you have completed your meeting evaluation, you will be able to print your CME certificate and meeting summary of your CME credits.

General Information

DISCLOSURE INFORMATION

Financial Conflict of Interest Disclosure Policy

As a sponsor accredited by the ACCME, the North American Spine Society must ensure balance, independence, objectivity and scientific rigor in all its sponsored activities. Therefore, anyone speaking at Spine Across the Sea must provide disclosure of potential conflicts of interest. Disclosure information will be made available orally and visually on a PowerPoint® slide before the presentation begins.

New Disclosure Policy

In October 2008, the NASS Board of Directors approved a new disclosure policy. The new policy requires speakers to not only define the type of relationship and the organization with which that relationship exists, but also the estimated amount of financial and non-financial remuneration provided as a result of that relationship. Go to www.spine.org to view the policy in its entirety.

FDA Disclosure

If a device or drug requiring FDA approval is identified as an important component of a presentation, the authors must indicate the FDA status of those devices or drugs as Approved, Investigational or Not Approved for distribution within the USA. This program includes all FDA status information. Certain medical devices and drugs identified at Spine Across the Sea may have FDA clearance for use for specific purposes only, or for use in restricted research settings. The FDA has stated it is the responsibility of the physician to determine the FDA status of each drug or device he or she wishes to use in clinical practice and to use these products in compliance with applicable law.

Commercial Support Disclosure

All individuals participating in a sponsored activity are expected to disclose to the audience any financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation, and (2) with any commercial supporters of the activity. (Financial interest or other relationships may include: grants or research support, employee, consultant, major stockholder, member of the speaker's bureau, etc.) The Final Program will indicate whether the

authors have this type of relationship. The intent of this disclosure is to ensure that all conflicts of interest, if any, have been identified and have been resolved prior to the speaker's presentation. By doing so, the North American Spine Society has determined that the speaker's or author's interests or relationships have not influenced the presentation with regard to exposition or conclusion; nor does the Society view the existence of these interests or commitments as necessarily implying bias or decreasing the value of the presentation.

DISCLAIMER

The material presented at Spine Across the Sea is made available by the Japanese Society for Spine Surgery and Related Research and the North American Spine Society for educational purposes only. It is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed; rather, it is intended to present an approach, view, statement or opinion of the faculty which may be helpful to others who face similar situations.

JSSR and NASS disclaim any and all liability for injury or other damages to any individual attending the meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims are asserted by physicians or any other person.

On occasion, slight changes in program content or faculty may occur after the Preliminary Program has been distributed. The Final Program will contain confirmed program content, faculty and presenters. Any further changes from the published Final Program will be announced at the beginning of the session.

General Information

SPEAKER/PRESENTER INFORMATION

Speaker Ready Room: Kauai Room

Trained staff will be available to assist with any audiovisual needs. It is REQUIRED that all speakers visit the Speaker Ready Room to submit their presentation materials or convey any last minute requests at least 3 hours prior to the scheduled session start time. Speakers may not use their own laptops for their presentations.

The Speaker Ready Room hours of operation are:

| | |
|--------------------|---------------------|
| Sunday, July 26 | 2:00–6:00 p.m. |
| Monday, July 27 | 6:30 a.m.–1:15 p.m. |
| Tuesday, July 28 | 6:30 a.m.–1:15 p.m. |
| Wednesday, July 29 | 6:30 a.m.–1:15 p.m. |
| Thursday, July 30 | 6:30 a.m.–1:00 p.m. |

Special Note to Presenters

If you are unable to present at your designated time, you must send someone in your place. E-mail Erica Taffs, Education Assistant, immediately at etaffs@spine.org if there is a change in presenters. Please note that accepted papers will not be withdrawn from the program.

General Paper Sessions

Please note that presenters have six minutes to present their research in a digital format such as PowerPoint®. The number of slides will be restricted to a maximum of 20, no exceptions. Each session will have two moderators who will keep the program on time, and time is allotted at the end of each session for audience questions.

Electronic Poster Information

All poster authors must upload their posters prior to arriving at the meeting. Specific instructions will be distributed to all poster authors. The online poster system will be available for uploads two months prior to the meeting.

There will be viewing stations for attendees to view posters throughout the duration of the meeting.

EXHIBIT HALL

Experience first-hand technology, products and services from vendors who can help you manage your professional goals and strategic objectives. The Exhibit Hall will be in The Ritz-Carlton Ballroom 3 & 4.

The Technical Exhibit Hall hours are:

| | |
|--------------------|----------------------|
| Monday, July 27 | 6:45 a.m.–12:00 p.m. |
| Tuesday, July 28 | 6:45 a.m.–12:00 p.m. |
| Wednesday, July 29 | 6:45 a.m.–12:00 p.m. |
| Thursday, July 30 | 6:45–10:00 a.m. |

Absolutely no cameras are allowed in the Exhibit Hall! Violators will be removed from the premises and cameras will be confiscated.

WINE AND CHEESE OPENING RECEPTION

The Opening Reception marks the official start of Spine Across the Sea on Sunday, July 26, from 6:00–7:30 p.m. on the Poolside Terrace at the Ritz-Carlton, Kapalua. This is an opportunity to see familiar faces and meet new colleagues.

Lodging and Transportation

LODGING

Headquarter Hotel

The Ritz-Carlton, Kapalua

One Ritz Carlton Drive

Kapalua, HI 96761

Main Telephone: (808) 669-6200

Toll Free Reservations: (800) 262-8440

Hotel Reservations

Hotel reservations can be made by calling The Ritz-Carlton Toll-Free Reservations number at (800) 262-8440, and must be made no later than **July 5, 2009**, to guarantee the room rates. Reservations are made on a first-come, first-served basis and are subject to room availability; the discounted rate may not apply after the cut-off date. There are instances where the room block can sell out prior to the cut-off.

Meeting registration must be completed and processed within two weeks of reserving your hotel room. If not, your hotel room will be cancelled without notice.

To receive the special conference hotel rates, please mention that you are attending Spine Across the Sea.

Hotel Room Rates, Fees and Cancellation Policy

Room category (room rate per night + taxes + resort fee):

| | |
|-------------------|---------------------------|
| Deluxe | \$280.00 |
| Run of Suites | \$330.00 |
| Deluxe Ocean View | \$350.00 |
| Ocean View Suite | \$400.00 (limited number) |

All reservations require a one night's deposit. Deposits will be refunded for rooms cancelled more than 48 hours prior to arrival.

Above group room rate applies to single/double occupancy and is subject to Hawaii State Excise and Transient Accommodation Taxes, which are currently 11.4166%. The above room rates will be extended to accommodate early arrivals and late departures for the nights of July 20, 2009 (three days prior) through August 4, 2009 (three days post). All extensions are subject to hotel group room and rate availability.

There will be an additional charge of fifty dollars (\$50.00) per day for each additional person eighteen (18) and over, or over two (2) people in a guest room. The maximum number of people per guest room is three (3) adults or two (2) adults and two (2) children utilizing existing bedding.

All rates are based upon the European Plan (excluding meals) and are subject to all applicable taxes at the time of your Event. The state room and sales tax is 11.4166% and is subject to change.

ADDITIONAL HOTEL CHARGES

Baggage Handling

\$8.00 plus tax, per person, based on two movements, mandatory

Golf Bag Handling

\$1.00 per bag, per movement, plus tax, mandatory

Resort Fee

\$20.00 per room, per day, inclusive of tax, mandatory

The fee includes wireless high-speed internet access, local telephone calls, toll-free telephone access, discounted golf fees and preferred tee times, Resort shuttle services (Kapalua Resort & West Maui Kapalua Airport only), use of 24-hour fitness center, Aloha Friday festivities and cultural history tours, arts & crafts, self-parking, resort charging privileges at select shops and restaurants and in-room coffee. Resort Fee is subject to change without notice.

Valet Parking

\$18.00 plus tax, per night (self-parking is complimentary)

Room Delivery (non-food)

\$2.00 per room based on 2 items, mandatory

HOTEL CONCIERGE SERVICES

The Ritz-Carlton, Kapalua, as well as the island of Maui, have exciting activities, attractions and services to offer guests. Items such as luaus, spa services, golf, tennis, jet skiing, parasailing, transportation, tours, restaurant reservations and children's services can all be accommodated through the Concierge Desk. Contact the Concierge Desk at (808) 665-7089 or at kapalua.concierge@ritzcarlton.com for inquiries and to make arrangements.

Lodging and Transportation

AIRPORT SHUTTLE SERVICES

Note that there are two airports that will allow you to reach The Ritz-Carlton Kapalua.

- **Kahului Airport** (45 minutes to The Ritz-Carlton, Kapalua): Located on the northern edge of the land bridge between Haleakala and the West Maui Mountain Range on the island of Maui. Kahului Airport offers more flight options than the Kapalua Airport.
- **Kapalua Airport** (15 minutes to The Ritz-Carlton, Kapalua): Small airport serviced with a single runway.

SpeediShuttle Airport Shuttle

Rates are as follows:

- **From Kahului Airport to The Ritz-Carlton, Kapalua** (Tax included)

| | |
|--------------------|--------------------|
| Party of 1 \$74.22 | Party of 4 \$92.89 |
| Party of 2 \$80.35 | Party of 5 \$95.75 |
| Party of 3 \$86.44 | Party of 6 \$98.98 |

Exclusive Shuttle Rate (Private) Tax and Gratuity included: \$173.50

- **From The Ritz-Carlton, Kapalua to Kahului Airport** Departure Only (Tax Included)

| | |
|--------------------|--------------------|
| Party of 1 \$72.06 | Party of 4 \$90.18 |
| Party of 2 \$78.00 | Party of 5 \$92.96 |
| Party of 3 \$83.93 | Party of 6 \$96.10 |

Exclusive Shuttle Rate (Private) Tax and Gratuity Included: \$173.50

- **From The Ritz-Carlton, Kapalua to Kahului Airport with a 10% Return discount** (Tax included)

| | |
|--------------------|--------------------|
| Party of 1 \$64.86 | Party of 4 \$81.18 |
| Party of 2 \$70.23 | Party of 5 \$83.68 |
| Party of 3 \$75.55 | Party of 6 \$86.51 |

Our Exclusive Shuttle Rate (Private) Tax and Gratuity Included: \$173.50

Shuttle Reservations: Visit www.speedishuttle.com or call (877) 242-5777. 10% discount will be applied to the departure fare when booking a round trip shuttle transfer. Reservations are recommended. Credit card is required to pre-pay your reservation.

Shuttle Cancellation Policy: Speedishuttle must be contacted at least 24 hours prior to the pickup time. Speedishuttle also offers service from the Kapalua Airport if needed.

RENTAL CAR DISCOUNTS

To reserve your special meeting rates, book online at www.hertz.com or call Hertz directly:

- In the U.S. and Canada (800) 654-2240
- Other (405) 749-4434

At the time of reservation, the meeting rates will be automatically compared to other Hertz rates and you'll be quoted the best comparable rate available.

Rates are as follows (July 19–August 6, 2009):

| Car Class | Daily (Per Day) | Weekly (5-7 Days) |
|------------------------|-----------------|-------------------|
| A Economy 2DR | \$49.00 | \$269.00 |
| B Compact 4DR | \$53.00 | \$289.00 |
| C Midsize 2/4DR | \$56.00 | \$299.00 |
| D Standard | \$59.00 | \$309.00 |
| F Fullsize 4DR | \$61.00 | \$319.00 |
| G Premium | \$79.00 | \$429.00 |
| I Luxury | \$109.00 | \$469.00 |
| L 4WD/AWD Standard SUV | \$109.00 | \$489.00 |
| R Minivan | \$109.00 | \$489.00 |
| U Convertible | \$99.00 | \$469.00 |

Meeting rates are guaranteed from one week prior through one week after the meeting dates and are subject to availability. Advance reservations are recommended, blackout dates may apply. Government surcharges, taxes, tax reimbursement, airport related fees, vehicle licensing fees and optional items, such as refueling or additional driver fees, are extra. Minimum rental age is 25 (exceptions apply). Standard rental conditions, qualifications and return restrictions apply. In the continental U.S. and Canada weekend rentals are available for pick-up between noon Thursday and noon Sunday and must be returned no later than Monday at 11:59 p.m. Thursday pick-up requires a minimum three day keep. Friday pick-up requires a minimum two-day keep, and Saturday and Sunday pick-up require a one-day keep. Weekly rentals are from five to seven days. Extra day rate for Weekly rentals will be charged at 1/5 of the Weekly Rate.

LUAU ARRANGEMENTS

There will not be an organized luau for meeting attendees. Contact the hotel concierge desk at (808) 665-7089 or at kapalua.concierge@ritzcarlton.com if you are interested in attending a luau on the island of Maui.

Program Schedule

| SUNDAY, JULY 26 | | |
|-----------------|---|---|
| 2:00–6:00 p.m. | Registration Speaker Ready Room Open | The Ritz-Carlton Ballroom Foyer Kauai Room |
| 6:00–7:30 p.m. | Wine and Cheese Opening Reception | Poolside Terrace |

| MONDAY, JULY 27 | | |
|----------------------|--|---------------------------------|
| 6:45 a.m.–1:15 p.m. | Registration | The Ritz-Carlton Ballroom Foyer |
| 6:45 a.m.–12:00 p.m. | Exhibit Hall Open/Poster Viewing | The Ritz-Carlton Ballroom 3 & 4 |
| 6:45–7:20 a.m. | Breakfast | The Ritz-Carlton Ballroom 3 & 4 |
| 7:20–7:30 a.m. | Opening Remarks | The Ritz-Carlton Ballroom 1 & 2 |
| 7:30–9:10 a.m. | General Session: Cervical Trauma and Spinal Cord Injury <i>Moderators: James D. Kang, MD; Kuniyoshi Abumi, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 9:10–9:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 9:30–11:00 a.m. | Symposium: Genetics and Spine Care: What We Know Now, Where We are Headed <i>Moderator: Susan Dreyer, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 11:00–11:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 11:30 a.m.–1:10 p.m. | General Session: Low Back Pain: Basic Science, Diagnostics and Treatment <i>Moderators: Jeffrey C. Wang, MD; Joji Mochida, MD, PhD</i> | The Ritz-Carlton Ballroom 1 & 2 |

| TUESDAY, JULY 28 | | |
|----------------------|---|---------------------------------|
| 6:45 a.m.–1:15 p.m. | Registration | The Ritz-Carlton Ballroom Foyer |
| 6:45 a.m.–12:00 p.m. | Exhibit Hall Open/Poster Viewing | The Ritz-Carlton Ballroom 3 & 4 |
| 6:45–7:20 a.m. | Breakfast | The Ritz-Carlton Ballroom 3 & 4 |
| 7:20–7:30 a.m. | Opening Remarks | The Ritz-Carlton Ballroom 1 & 2 |
| 7:30–9:10 a.m. | General Session: Lumbar Stenosis and Spondylolisthesis <i>Moderators: Alexander J. Ghanayem, MD; Kazuhisa Takahashi, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 9:10–9:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 9:30–11:00 a.m. | Symposium: The Aging Spine <i>Moderator: Robert F. McLain, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 11:00–11:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 11:30 a.m.–1:10 p.m. | General Session: Tumors, Infections and SI Joints <i>Moderators: Robert F. McLain, MD; Kazuhiro Chiba, MD, PhD</i> | The Ritz-Carlton Ballroom 1 & 2 |

Program Schedule

| WEDNESDAY, JULY 29 | | |
|----------------------|--|---------------------------------|
| 6:45 a.m.–1:15 p.m. | Registration | The Ritz-Carlton Ballroom Foyer |
| 6:45 a.m.–12:00 p.m. | Exhibit Hall Open/Poster Viewing | The Ritz-Carlton Ballroom 3 & 4 |
| 6:45–7:20 a.m. | Breakfast | The Ritz-Carlton Ballroom 3 & 4 |
| 7:20–7:30 a.m. | Opening Remarks | The Ritz-Carlton Ballroom 1 & 2 |
| 7:30–9:10 a.m. | General Session: Spinal Deformity, Scoliosis and Spondylolisthesis <i>Moderators: Thomas Mroz, MD; Yutaka Nohara, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 9:10–9:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 9:30–11:00 a.m. | Symposium: Complications in Cervical Spine Surgery <i>Moderator: Jeffrey C. Wang, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 11:00–11:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 11:30 a.m.–1:10 p.m. | General Session: Cervical Radiculopathy, Myelopathy and OPLL <i>Moderators: Joseph Cheng, MD; Kazuo Yonenobu, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |

| THURSDAY, JULY 30 | | |
|----------------------|---|---------------------------------|
| 6:45–11:30 a.m. | Registration | The Ritz-Carlton Ballroom Foyer |
| 6:45–10:00 a.m. | Exhibit Hall Open/Poster Viewing | The Ritz-Carlton Ballroom 3 & 4 |
| 6:45–7:20 a.m. | Breakfast | The Ritz-Carlton Ballroom 3 & 4 |
| 7:20–7:30 a.m. | Opening Remarks | The Ritz-Carlton Ballroom 1 & 2 |
| 7:30–9:10 a.m. | General Session: Thoraco-Lumbar Trauma and Lumbar HNP <i>Moderators: Joon Lee, MD; Munehito Yoshida, MD, PhD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 9:10–9:30 a.m. | Break/Exhibits | The Ritz-Carlton Ballroom 3 & 4 |
| 9:30–11:00 a.m. | Symposium: Spine Trauma in the Transition Zones <i>Moderator: Joon Lee, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |
| 11:00–11:30 a.m. | Break | The Ritz-Carlton Ballroom Foyer |
| 11:30 a.m.–1:10 p.m. | General Session: Low Back Pain: Fusion/Motion Preservation <i>Moderators: Scott Blumenthal, MD; Katsuji Shimizu, MD</i> | The Ritz-Carlton Ballroom 1 & 2 |