

University of New  
England College  
of Osteopathic  
Medicine Department  
of Anatomy

Biddeford, Maine

Workshop Dates

Friday, Saturday & Sunday  
May 7-9, 2010

# International Spine Intervention Society Intensive Anatomy & Imaging

International Spine  
Intervention Society  
161 Mitchell Blvd  
Suite 103  
San Rafael, CA 94903

First Class Mail  
US Postage  
PAID  
Permit #925  
San Francisco, CA



Registration open online,  
fax or mail [www.spinalinjection.com](http://www.spinalinjection.com)

➤ **REGISTRATION IS LIMITED!**  
**FIRST COME, FIRST SERVED.**

## who may attend

ISIS members who are interested in a unique opportunity to improve their understanding of relational spinal anatomy, pain pathophysiology, spinal imaging and anatomical correlation, evidence-based medical decision making for spine interventions, severe neurological complications and their causes, and injection skills through an exceptional tightly coordinated workshop combining gross and radiographic anatomy, spinal imaging, and their relationship with established injection techniques.

## educational goals and objectives

The field of spinal intervention is rapidly changing. The impact of advances in diagnostic and therapeutic techniques and new treatment technologies has profoundly influenced patient outcomes. The widespread adoption of spinal interventions across multiple specialties has also been criticized on the basis of rising complication rates. The overall goals of this course are to enhance patient care by providing participants with critically important medical decision-making skills based on an solid understanding of the “hidden” implications of an evidence-based approach to spine care, and to improve the safety of spine interventions by providing participants with unique and detailed exposure to the anatomical basis upon which these interventions are based. A detailed review of contemporary concepts in peripheral and spinal facilitation and the anatomy and physiology of pain will also be provided. Time will be provided for ample one-on-one faculty interaction.

This course is specifically designed to provide:

- An in-depth review of the anatomy and physiology of spine pain
- A thorough understanding of relational anatomy of spinal pain generators through observation and examination of gross and microscopic dissections
- An in-depth awareness of correlative spinal imaging with gross anatomy through unique and specially prepared cadaveric sections
- A clear understanding of the influence of relational anatomy on the safe performance of diagnostic and therapeutic cervical, thoracic and lumbar injection procedures
- The maximum opportunity to interface with experts in neuroanatomy, neuroradiology, and spinal interventions in small group sessions
- An understanding of multi-planar fluoroscopic imaging findings with regional anatomic correlation to improve the attendees’ grasp of image-guided injection skills
- A clearer understanding of the logical and evidence-based underpinnings of precision spinal diagnosis, and treatment implications

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**At the conclusion of this unique integrated hands-on cadaveric course, participants should develop a more in depth understanding of the**

- Neuroanatomy and pathophysiology of peripheral and central spinal pain facilitation pathways and known sources of spine pain
- Three-dimensional soft tissue, neurological, and osseous cervical and lumbar spinal anatomy
- Correlation of neuraxial imaging with gross anatomical findings
- Position of relevant soft tissue, neurological, and osseous cervical and lumbar structures as related to injection targets under multi-planar fluoroscopic imaging
- Basis for precision needle placement for various cervical, thoracic and lumbar injection procedures including:
  - Foraminal injection
  - Zygapophysial joint injection
  - Selective dorsal ramus medial branch injection
  - Sacroiliac joint injection
- Potential mechanisms of injury to non-target spinal vascular and neurological structures

**Participants will receive intensive small-group instruction, demonstration, and practice in the following areas:**

- The neuropathophysiology of spine pain
- Correlative cervical and lumbar spinal gross anatomy
- Correlative cervical and lumbar radiological spinal imaging
- Correlative cervical and lumbar multiplanar fluoroscopic imaging
- Anatomical bases for complications arising from spine intervention procedures
- Critical evidence-based thinking applied to risk-based approaches towards injection and treatment of spinal structures based on anatomy, imaging, and fluoroscopy
- Minimizing risks in commonly performed spine interventions

**ISIS bio-skill workshops are created to enhance physician understanding of the complexity of performing these procedures. ISIS advises participants to continue to have proctoring, mentoring and additional experience prior to treating patients.**

### **course description**

This intensive 2.5 day workshop will include didactic lectures, hands-on work examining professionally prepared cadaveric sections, gross dissections, intensive exposure to radiographic imaging and gross anatomical correlation, and some hands-on work with cadaveric specimens under fluoroscopic imaging. *This workshop is for dedicated members and experienced interventionalists who wish to go beyond the basics and achieve a deeper level of understanding of essential diagnostic and therapeutic interventions for spine pain, their indications, and strategies for avoiding complications. This course is NOT designed to teach specific spinal interventions. Participants should dress in causal attire or scrubs, no opened toed shoes. Leaded aprons and thyroid shields will be provided please bring your own protective eyewear.*

**Due to the intensive nature of this course and the extensive prior preparation required, the registration fee is \$4,950.00. Enrollment will be limited to a total of 21 participants. Please fill out the enclosed registration form and return it with payment.**

### **registration information**

ISIS membership is required prior to registration. Participants who are confirmed into this workshop will receive notice by email. If you do not receive a confirmation, please contact the ISIS office. All applications are accepted on a first come, first serve basis (online, fax & mail) until the course is full. In the event that a registration is received after the workshop is filled, registrants will be placed on a waiting list in case there are cancellations.

ISIS requires a 14-day cancellation notice prior a course to receive a refund less a \$100 administrative fee. Cancellation less than 14 days prior to a course will result in forfeiture of all fees. Additional \$150 fee may apply for course materials.

ISIS reserves the right to cancel this workshop upon reasonable notice and will assume no financial obligation to registrants for cancellation of the course for reasons beyond its control. Registration fees will be refunded, however, costs incurred by the registrants such as airline or hotel fees or penalties, are the responsibility of the registrants.

# workshop agenda

## Friday, May 7

6:45	Shuttle leaves from Kennebunkport Inn for transport to UNE
7:00	Registration/Continental Breakfast
7:30	Welcome, Opening Comments – Course Director
8:00–10:00	Didactic Lecture: Correlative Imaging Part I & II
10:00	Rotation I: Workstation I, II or III (Attendees will rotate through one workstation each of anatomy, radiology, indications and complications)
1:00	Lunch
2:00	Rotation II
6:00	Lab Adjourns – Shuttle returns to Kennebunkport Inn

## Saturday, May 8

6:45	Shuttle leaves from Kennebunkport Inn for transport to UNE
7:00	Continental Breakfast
8:00	Didactic Lecture: Anatomy and Physiology of Pain, Part I
9:00	Didactic Lecture: Anatomy and Physiology of Pain, Part II
10:00	Rotation III
1:00	Lunch
2:00	Combined Interactive Session of all faculty and attendees
6:00	Session Adjourns – Shuttle returns to Kennebunkport Inn
7:00	Dinner – Kennebunkport Inn's "Port Tavern & Grille"

## Sunday, May 9

6:45	Shuttle leaves from Kennebunkport Inn for transport to UNE
7:00	Continental Breakfast
8:00	Review Rotation I
9:00	Review Rotation II
10:00	Review Rotation III
11:00	Closing Discussion – Faculty/Participants
12:00	Meeting Adjourns – One Shuttle goes directly to Portland International Airport, second returns to Kennebunkport Inn

### continuing medical education

The International Spine Intervention Society is accredited by the *Accreditation Council for Continuing Medical Education* to provide continuing medical education for physicians.

The International Spine Intervention Society designates this educational activity for a maximum of **21 AMA PRA Category 1 credit(s)**<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

### instructors

**Charles Aprill MD**

Radiology  
New Orleans LA

**Frank Willard PhD**

Professor of Anatomy  
Biddeford ME

**Way Yin MD**

**Program Director**  
Anesthesiology  
Bellingham WA

### program organizer

**Mary Stachnik Lingsch**  
biker@spinalinjection.com  
415.939.9591 mobile

### ISIS

161 Mitchell Blvd, Suite 103  
San Rafael, CA 94903  
888.255.0005 toll free in US  
415.457.4747 office  
415.457.3495 fax  
www.spinalinjection.com

### Americans with Disabilities

ISIS only contracts with facilities that are in compliance with the Americans with Disabilities Act. Please call us at least 90 days prior to your arrival if you have special needs or dietary limitations that we can address to make your participation more enjoyable.



## registration form

Complete and return this form with payment of \$4950 via fax, mail or go online to register at [www.spinalinjection.com](http://www.spinalinjection.com). *Registration is limited to 21 participants.*

ISIS needs your valid email address, please write it clearly in the box provided.

This course offers 21 AMA PRA Category 1 credit(s).

last name	
first name	
specialty	degree

address
city
state
zip code
phone
fax
e-mail

check #	
visa/mc/amex	
exp date	3-digit code
signature	

### meeting location

**University of New England**  
Department of Anatomy  
Alfond Center for Health Sciences  
2nd Floor, 11 Hills Beach Road  
Biddeford, ME 04005  
[www.une.edu/com](http://www.une.edu/com)

Contact: Marolyn Bissonnette, 207-602-2589  
[mbissonnette@une.edu](mailto:mbissonnette@une.edu)

*ISIS will arrange limousine service to the University of New England (UNE) from the Kennebunkport Inn.*

### hotel accommodations

ISIS has arranged for a block of rooms at the following hotel:

**The Kennebunkport Inn**  
One Dock Square  
Kennebunkport, Maine 04046  
207-967-2621 / 800-248-2621  
[www.kennebunkportinn.com](http://www.kennebunkportinn.com)

The ISIS Room Rate is \$89 plus 7% tax. The hotel reservation cut-off date for this room rate is March 12. Please make your reservations immediately after receiving confirmation of your attendance to the workshop by calling the Inn and asking for the ISIS Room Block. Please mention ISIS when making hotel reservations!

### in-kind commercial support:

GE Healthcare  
Kimberly-Clark / Ballard Medical

All applications will be accepted on a first come, first serve basis (via online, fax & mail) until the course is full. Registrants will be confirmed via email. If you do not receive a confirmation, please contact our office. Do not book hotel accommodations or airfare until you are confirmed into the course. ISIS accepts no responsibility for airfare or accommodations that must be cancelled.

Questionnaires regarding the course, which will be sent to you in an email, must be completed online in order to receive proper CME credit for the course.

ISIS is a non-profit medical society. Revenues from this and all meetings are used for future ISIS research and educational endeavors.

### Disclosure

It is the policy of ISIS to plan and implement educational activities in accordance with ACCME's Essential Areas and Policies to ensure balance, independence, objectivity, and scientific rigor. All program faculty and planners are required to disclose any relevant financial relationships they may have or have had within the last 12 months with commercial interests whose products or services are related to the subject matter of the presentation. Any real or apparent conflicts of interest must be resolved prior to the presentation. Disclosure information will be made available to attendees at the meeting. Faculty will also be expected to disclose this information to the audience verbally and on introductory slides at the beginning of each presentation. Faculty is also required to inform program participants if any unlabeled uses of products regulated by the Food and Drug Administration will be discussed.



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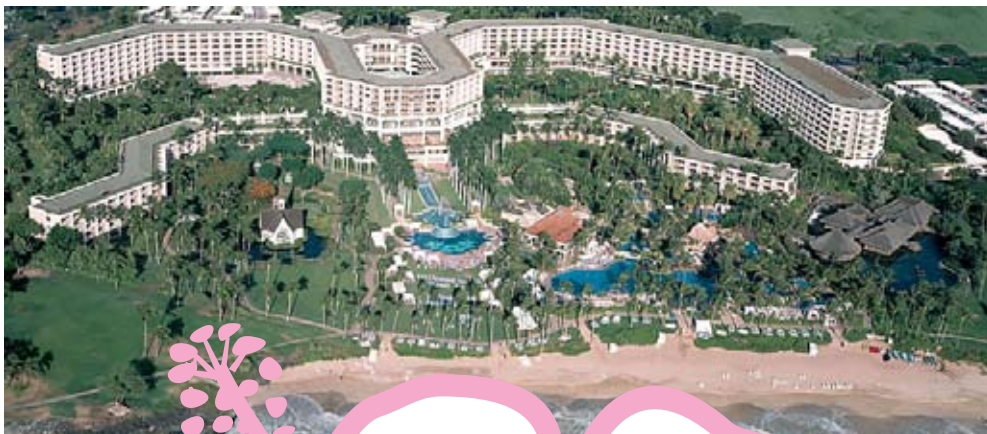
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# SAVE THE DATE!

## ISIS 18TH ANNUAL SCIENTIFIC MEETING JULY 14 – 17, 2010

Take advantage of this opportunity for you and your family to experience a fabulous Hawaiian Vacation!



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