

## Curriculum Vitae

### **Richard M. Rosenthal, M.D.**

Nexus Pain Specialists  
3585 North University Avenue, Suite 150  
Provo, Utah 84604  
Phone: (801) 356-6100; Fax: (801) 356-2113

#### **Present Positions**

Medical Director

Nexus Pain Specialists

*(Developed comprehensive integrated pain program, developed uniform approach to patient care used by all providers based on patient substantiated diagnosis, targeted treatment, rehabilitation and prevention, developed extensive internal systems including: written evidenced based templates for diagnosis and treatment of painful conditions, operating room templates; mid-level and fellowship training curriculum; standard operating procedure manuals for all areas of the clinic; pain management dictionary; financial reporting systems; tiered management structure, etc.)*

Fellowship Director

Utah Center for Pain Management & Research, Inc.

*(Developed Interventional Pain Management Fellowship program including extensive written curriculum outlining specific weekly study topics, unique method of teaching needle handling skills using beef simulation model, tiered approach to learning procedures, rigorous written preparation requirement prior to procedure performance, and weekly lectures/journal review; oversees the training of 3 fellows each year in minimally invasive spinal procedures and interventional pain management.)*

#### **Hospital Appointments**

Staff Physician

Utah Valley Regional Medical Center, Provo, Utah.

Staff Physician

Orem Community Hospital, Orem, Utah.

Staff Physician

Mountain View Hospital, Payson, Utah.

Staff Physician

Timpanogos Regional Hospital, Orem, Utah.

Staff Physician

American Fork Hospital, American Fork, Utah.

#### **Birth Date**

September 28, 1953

#### **Citizenship**

United States

## **Educational Background**

May 1985      University of Utah, Salt Lake, Utah - M.D.  
May 1979      University of Wyoming, Laramie, Wyoming - B.S. Biology

## **Postgraduate Training**

1990-1993      *Residency, Anesthesiology*  
University of Texas Health Sciences Center, San Antonio, Texas  
1986.              *Internship, Internal Medicine*  
University of Utah School of Medicine, Salt Lake City, Utah

## **Professional Background**

2006-Present      *Fellowship Director, Utah Center for Pain Management & Research*  
  
2003-Present      *Medical Director, Nexus Pain Specialists*  
  
1998-2003          *Medical Director, Origin Pain & Spine Center*  
  
2001-2002          *Attending Physician, Intermountain Spine Institute*  
  
1998-2000          *Director, HealthSouth Pain Management Program*  
  
1996-1998          *Attending Physician, Alpine Pain Medicine*  
  
1997.                  *Partner, Wasatch Anesthesia Associates*  
Associated with Paracelsus Health Care  
  
1996.                  *Medical Director, Wasatch Pain Medicine*  
Associated with Wasatch Anesthesia  
  
1993-1995          *Staff Anesthesiologist, FHP Hospital*  
  
1987-1990          *Attending Physician, Emergency Department*  
Evanston Regional Hospital, Evanston, WY  
  
1990.                  *Medical Director*  
Wyoming Downs Race Track, Evanston, WY  
  
1987.                  *Attending Physician*  
Instacare of Wyoming-Casper, WY

## **Licensure and Certification**

Medical License:      Utah                  #180329  
                                 Wyoming              # 3961A

**Board Certification**              Diplomate American Board of Anesthesiology,  
September 13, 1994. No. 24874

Diplomate American Board of Pain Medicine, February 19, 1996.

Diplomate American Society of Addiction Medicine,  
December, 1998. No. 80193

Fellow of Interventional Pain Physicians, March 23, 2004.

Diplomate American Board of Addiction Medicine (ABAM)  
May 2, 2009.

### **Professional Affiliations**

American Society of Interventional Pain Physicians

International Spine Intervention Society

International Spine Intervention Society Education Committee Member (2005-2014)

Education Advisory Board, Pain Physician.org

Staff Physician for Dannemiller website, pain.org

Utah Society of Interventional Pain Physicians, Past President (2008-2014)

American Academy of Pain Medicine

World Institute of Pain

International Neuromodulation Society

Christian Medical and Dental Society

Utah State Society of Anesthesiologists

### **Presentations at National Annual Meetings.**

Use of Platelet Rich Plasma (PRP) in musculoskeletal Medicine. ASIPP 16<sup>th</sup> Annual Meeting, New Orleans, LA (April 4-6, 2014)

ISIS 21<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Invited Speaker. New York, NY. July 2013. "Emergency Protocols in Interventional Pain." (Presented)

ISIS 20<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Invited Speaker. Las Vegas, NV. July 2012. "Emergency Protocols in Interventional Pain." (Presented)

ISIS 19<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Invited Speaker. Chicago, IL. August 2011. "Clinical Features of Spondylolithesis." (Presented)

ISIS 13<sup>th</sup> Annual Scientific Meeting. International Spinal Intervention Society. Invited Speaker. New York, NY. July 2005. "Use of Pulsed Radiofrequency in the Treatment of Spinal Pain." (Presented)

## **Special Awards**

**2011 Excellence in Pain Practice Award**, presented by the **World Institute of Pain**, was awarded to the Utah Center for Pain Management & Research (DBA Nexus Pain Specialists) in recognition of its high standards of pain practice, for its multidisciplinary clinical pain practice and for its excellence in providing education and training to fellows and other physicians in the field of pain practice.

**Master Instructor – International Spine Intervention Society.** With more than ten years of dedication to educational service.

### **US News & World Report Top Doctor Award**

**Elected by his peers for inclusion in Best Doctors in America® from 1994 to 2004**

## **Teaching Positions and Special Projects**

Co-Chairman, Regenerative Medicine Committee, American Society of Interventional Pain Physicians (ASIPP)

Manuscript Reviewer, Pain Medicine Journal

Editor for Interventional Pain, Practical Pain Management Journal.

Member, International Spine Intervention Society Education Committee (2008-2014)

Medical Director, Advanced Radiofrequency Techniques Workshop. May 2009, May 2010, April 2011, June 2012, May 2014. Salt Lake City, Utah.

President – USIPP (Utah Society of Pain Physicians) (2008-2014)

Executive Director, Utah Society of Interventional Pain Physicians

Master Instructor, International Spine Intervention Society

Organizer and first President, Utah Spinal Injectionists

Lecturer, Interventional Pain Institute

Staff Physician, Dannemiller Memorial Foundation Website-Pain.com

Center of Excellence, PEHP Healthcare

Preceptor, Kirksville College of Osteopathic Medicine

## **Educational Leadership**

2012 -Master Instructor – International Spine Intervention Society. With more than ten years of dedication to educational service.

2005-2014. International Spine Intervention Society Education Committee member: I have played an active role on the International Spine Intervention Society (ISIS) Education Committee in the evaluation

and selection of prospective instructors, I have acted as a Course Director. I have also written Emergency Protocol procedures which have been adopted by ISIS, and I continue to work on the development of instructional materials and guidelines.

Director, Interventional Pain Management Fellowship. I am presently the medical director of an Interventional Pain Fellowship. My responsibilities include instructing fellows through guided readings, didactic presentations, hands on interventional procedure experience, and publication of scientific articles. Ours is the only private clinic providing Interventional Pain instruction in Utah. In addition, I am able to provide one or two day instructional clinics for doctors in private practice around the U.S. who come to Utah specifically to learn more about interventional pain.

International Spine Intervention Society, Senior Instructor. My teaching involves the training of practicing, board certified physicians in Interventional Pain with the main focus on diagnostic and therapeutic spinal injections, and spine interventions, utilizing fluoroscopy. This includes precise needle placement in and around the spine, as well as the interpretation of fluoroscopic imaging.

Editor for Interventional Pain, *Practical Pain Management Journal*.

I provide articles for each monthly journal publication sometimes enlisting the knowledge of other interventional pain professionals. I also act in an advisory position for Interventional Pain issues.

Recipient Multi-Disciplinary Clinical Pain Practice Award from World Institute of Pain The World Institute of Pain (WIP) Excellence in Pain Practice (EPP) Award is an award given in recognition of specific criteria established by WIP and an inspection of the pain center by a WIP representative at the invitation of the director of the pain center. The award is presented in recognition of excellence in pain management and training of physicians, and is granted for a five year period.

Consultant, Medical Equipment Companies (Stryker, Boston Scientific, Neurotherm). I am a consultant for medical equipment companies and act as a mentor to proctor doctors.

### **Manuscript Reviews**

“Intrathecal administration of **Infumorph<sup>®</sup>** versus compounded morphine for treatment of intractable pain using the **Prometra<sup>®</sup>** Programmable Pump”. American Academy of Pain Medicine October 28, 2012.

“Quality of Life Assessment and Outcomes Following Sacral Nerve Stimulation” American Academy of Pain Medicine. March 21, 2012

### **Fellows Trained by Dr. Richard Rosenthal:**

Jay Rosenfeld, M.D. January 2006-January 2007  
Michael J. Behrend, M.D. April 2006-May 2007  
William C. Scott, D.O. July 2007-June 2008  
Alex Phan, M.D. July 2007-June 2008  
Michael M. Chen, D.O. July 2007-June 2008  
Peter R. Bodnar, M.D. November 2007-October 2008  
Tao Li, M.D. July 2008- July 2009  
Zeeshan Tayeb, M.D. November 2008-October 2009  
Chad Austin, M.D. July 2009-July 2010  
Rebeca M. Monreal, D.O. September 2010-August 2011  
Syed R. Ahmed, M.D. November 2010-October 2011  
Casey A. Chamberlain, D.O. August 2011-July 2012  
Jeremy Kokkonen, D.O. July 2012-July 2013  
Shawn Furst, D.O. October 2012-september 2013  
James Wilson, M.D. August 2013-July 2014  
Eric J. Brimhall, M.D., July 2014-December 2015

### **Medical Expert Testimony**

Glenna Stewart, Plaintiff and Appellee, v. Charles Bova, M.D., and Pioneer Valley Hospital, Defendants and Appellants. Civil No. 20100036-CA. May 2014

Wendy Harris, Plaintiff vs. Shopko Stores, Inc., and Does 1-10, Inclusive, Defendants. Civil No. 070101906. July 2009

Kimberly Strode and Shane Strode, Plaintiffs vs. Mountain Medical Urgent Care, LLC, Defendants. Case #060400315. September 2011.

### **Expert Case Review**

Matthew Hindmon; Caregivers: Glen Kunkel, M.D., Kevin Pickens, CRNA. August 2010.

John Dinan vs. Robert P Wills, M.D.: Case No. D-1-GN-10-002761. 53<sup>rd</sup> Judicial Court, Travis County, TX. April 2011

### **Expert Witness Qualifications**

- Four Board Certifications including certifications in both pain medicine and interventional pain medicine
- Author of multiple scholarly articles including book chapters
- Director of one year fellowship in interventional pain medicine – graduated 15 fellows to date
- Master Instructor – International Spine Intervention Society (ISIS) – taught over 50 courses on various spinal procedures for this society
- Past President – Utah Society of Spinal Interventionists
- Principle investigator and author of multiple clinical studies
- Instructor and lecturer for over 125 courses on spinal procedures
- Multiple presentation at national meetings
- Author of a series of “Emergency Protocols for the Spinal Injectionist” used to aid physicians in resuscitation due to emergencies arising from a spinal injection procedure. This is the first time emergency protocols have been developed specially to treat emergencies arising from a spinal procedure (they are similar to ACLS protocols). Guidelines published on ISIS site and available in app store.

## **Publications**

Richard Rosenthal, Enrique Galang, George C. Chang Chien. Regenerative Medicine. "Treatment of Chronic Pain Conditions: A Comprehensive Quick Reference Handbook." Timothy Deer and Jason Pope, Springer 2015.

Rosenthal, Richard M. & Brimhall, Eric J. "Consider the Benefits of ESI" Letter to the Editor. *Practical Pain Management*. January/February 2015 Volume 15, Issue #1.

Rosenthal, Richard M. "Radiofrequency Lesioning." In *Pain Management*. 2<sup>nd</sup> edition. Ed. Steven D. Waldman. Philadelphia: Elsevier Publications. 2011. 1331-60.

Rosenthal, Richard M. "Emergency Protocols for the Spinal Injectionist." *Practical Pain Management*. 10.3 (2010): 54-58.

Rosenthal, Richard M. "Avoiding Complications from Interventional Spine Techniques." *Practical Pain Management*. 10.2 (2010): 77-87.

Rosenthal, Richard M. "Use of Pulsed Radiofrequency in Clinical Practice." *Practical Pain Management*. 9.5 (2009): 11-23.

Rosenthal, Richard M. "Pulsed Radiofrequency Procedures in Clinical Practice." In *Image Guided Spine Interventions*. 2<sup>nd</sup> edition. Eds. John Mathis and Stanley Golovac. New York: Springer. 2010. 175-206.

Rosenthal, Richard M. "Lumbar Spinal Nerve Block." In *Interventional Pain Management*. 2<sup>nd</sup> edition. Ed. P. Prithvi Raj. Philadelphia: Saunders. 2008. 337-43.

Rosenthal, Richard M. "Prospective Study of a Lumbar Back Brace in an Interventional Pain Practice." *Practical Pain Management*. 11.6 (2011): 106-10.

Rosenthal, Richard M. "50 Patient Observational Study of SCS for Axial Low Back Pain and Radicular Pain." Poster session presented at the American Academy of Pain Medicine. Orlando, FL. February 2008.

Rosenthal, Richard M. and Michael Behrend. "Acquisition of Spine Injection Skills Using a Beef Injection Simulator." *Pain Physician*. 10. (2007): 591-98.

Rosenthal, Richard M. "Successful Control of Back and Leg pain with a Next Generation Spinal Cord Stimulation (SCS) Device Following Initial Treatment Failure: Case Reports." Poster session presented at the North American Neuromodulation Society Annual Meeting. Las Vegas, NV. December 2006.

Rosenthal, Richard M., John Oakley, Kerry Bradley, et al. "Electronically Generated Lead (EGL) Scan: Report of First Clinical Use." North American Neuromodulation Society (NANS) Annual Meeting Booklet. December 7-10, 2006.

Rosenthal, Richard M. et al. "Successful Control of Back and Leg Pain with a Next Generation Spinal Cord Stimulation Device (SCS) Following Initial Treatment Failure (Case Reports)," North American Neuromodulation Society (NANS) Annual Meeting Booklet. December 7-10, 2006.

Rosenthal, Richard M., E.B. Lefever, and S. Ramamurthy. "Intrapulmonary Placement of a Pleural Catheter." *Regional Anesthesia*. 17.2. (1992): 107-09.

Rosenthal, Richard M. "Neurolytic Nerve Blocks." In *Decision Making in Pain Management*. 2<sup>nd</sup> edition. Ed. Somayaji Ramamurthy and James N. Rogers. St. Louis: Mosby. 1993. 216-17.

Rosenthal, Richard M. and Gregory J. Merdith. "Acupuncture." In *Decision Making in Pain Management*. Ed. Somayaji Ramamurthy and James N. Rogers. St. Louis: Mosby. 1993. 206-07.

### **Clinical Research Experience (past and ongoing)**

An Open-Label, Long Term Effectiveness and Safety Study of a study medication (ER) in Patients with Cancer or Neuropathic Pain.

An Open-Label, Long-term Safety and Tolerability Study of a study medication Administered Intrathecally to Patients with Chronic, Severe Pain, Sub-investigator.

5-Week, Randomized, Double-blind, Placebo-controlled Multi-center Study of a study medication in Patients with Postherpetic Neuralgia (PHN), who are Gabapentin Treatment Failures.

A Study of the Efficacy and Safety of a study medication XXX Extended-Release (HHER) Compared to Placebo in Subjects with Persistent Pain.

A 4-Week Randomized, Multicenter, Double-blind, Placebo- and Active-controlled, Parallel-group, Forced-titration Phase IIB Study Comparing Efficacy and Safety of Ascending Doses of a study medication to Placebo in Subjects With Moderate to Severe Chronic Pain Due to Osteoarthritis of the Knee.

A Randomized, Double-Blind, Placebo-Controlled Multicenter Phase IIb Study to Evaluate the Efficacy and Safety of Multiple XXXX Dosage Regimens for the Treatment of Opioid-Induced Bowel Dysfunction in Subjects with Chronic Pain of Non-Malignant Origin.

A Randomized, Double-Blind, Controlled Dose Finding Study of XXXX for the Treatment of Postherpetic Neuralgia.

A Phase 3, Randomized, Double-Blind, Fixed-Dose, Parallel-group Comparison of Controlled-Released Hydromorphone Hydrochloride HCL vs. Placebo in Subjects with Osteoarthritis.

Effectiveness of the Precision® Spinal Cord Stimulation system in patients with failed back surgery syndrome and axial low back pain. Dr. John Oakley-Principle Investigator, Dr. Richard M. Rosenthal-Site Principle Investigator, et al.

### **Courses and Lectures**

I 50. Regenerative Medicine training course: Platelet Rich Plasma (PRP) and Stem Cell Therapy. Richard Rosenthal, M.D. Course Director. Whittier, CA. March 2016.

I 49. Regenerative Medicine. "Current Landscape of Regenerative Medicine" "Ethical Aspects of Regenerative Medicine: Good, Bad, Ugly" (Presented by Richard Rosenthal, M.D.) ASIPP Educational Series. Orlando, FL. February 2016

I 48. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course.



- Richard Rosenthal, M.D. Course Director. Park City, Utah. February 2016.
- I47. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course.  
Richard Rosenthal, M.D. Course Director. Phoenix, AZ. January 2016.
- I46. "PRP and Stem Cell Therapy: Harvesting Techniques" New York & New Jersey  
Societies of Interventional Pain Physicians. Pain Medicine Symposium 2015.  
(Presented) November 2015
- I45. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. New York, NY  
(Presented) October 2015.
- I44. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course.  
Richard Rosenthal, M.D. Course Director. Dallas, TX. September 2015.
- I43. SPPM Workshop: "Introduction to Platelet Rich Plasma and Stem Cell; Clinical  
Insights: Implementing PRP and Stem Cell Treatments into Your Practice."  
(Presented) San Diego, CA. August 2015.
- I42. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Park City, UT  
Richard Rosenthal, M.D. Course Director. July 2015
- I42. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Chicago, IL  
(Presented) June 2015
- I41. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Park City, UT  
Richard Rosenthal, M.D. Course Director. May 2015
- I40. "Regenerative Medicine" Society for Pain Practice Management (SPPM) New Jersey  
(Presented) April 2015.
- I39. "Regenerative Medicine: What You Need to Know" Chiropractor Continuing  
Education Seminar Salt Lake City, UT (Presented) April 2015.
- I38. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Syracuse, FL  
Richard Rosenthal, M.D. Course Director. April 2015.
- I37. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Salt Lake City,  
UT Richard Rosenthal, M.D. Course Director. March 2015.
- I36. Platelet Rich Plasma (PRP) and Stem Cell Therapy Training course. Syracuse, FL  
Richard Rosenthal, M.D. Course Director. March 2015.
- I35. SPPM Workshop: "Introduction to Platelet Rich Plasma and Stem Cell Clinical  
Insights: Implementing PRP and Stem Cell Treatments into Your Practice." Las  
Vegas, NV (Presented) February 2015
- I34. Platelet Rich Plasma (PRP) and Stem Cell therapy Training course. Park City, UT  
Richard Rosenthal, M.D. Course Director. February 2015.

- I 133. ISIS Cervical Procedures Bio-skills Lab. International Spine Intervention Society. Memphis, TN. (Course Director) February 2015)
- I 132. SPPM Workshop: "Introduction to Platelet Rich Plasma and Stem Cell clinical Insights: Implementing PRP and Stem Cell Treatments into Your Practice." San Diego, CA (Presented) January 2015.
- I 131. Platelet Rich Plasma (PRP) and Stem Cell therapy Training course. Salt Lake City, UT Richard Rosenthal, M.D. Course Director. January 2015.
- I 130. Platelet Rich Plasma (PRP) and Stem Cell therapy Training course. Park City, UT Richard Rosenthal, M.D. Course Director. December 2014.
- I 129. Platelet Rich Plasma (PRP) and Stem Cell therapy Training course. Park City, UT Richard Rosenthal, M.D. Course Director. November 2014.
- I 128. Platelet Rich Plasma (PRP) and Stem Cell therapy Training course.. Park City, UT Richard Rosenthal, M.D. Course Director. October 2014.
- I 127. SPPM Workshop: "Introduction to Platelet Rich Plasma clinical Insights: Implementing PRP Treatments into Your Practice." San Diego, CA (Presented) August 2014.
- I 126. Platelet Rich Plasma (PRP) Course. Park City, UT (Presented) June 2014.
- I 125. Interventional Pain Cadaver Workshop –Advanced Techniques in Interventional Pain. Salt Lake City, Utah. (Medical Director and Presented) May 2014.
- I 124. Autologous Stem Cell Therapy Training. WYN Medical Foundation. Park City, UT. (May 3, 2014)
- I 123. Autologous Stem Cell Therapy Training. WYN Medical Foundation. Park City, UT. (April 25,26, 2014)
- I 122. Use of Platelet Rich Plasma (PRP) in musculoskeletal Medicine. ASIPP 16<sup>th</sup> Annual Meeting. New Orleans, LA. April 2014
- I 121. Stem Cell and Platelet Rich Plasma (PRP) Instructional course. Park City, UT. January 2014
- I 120. ISIS Comprehensive Procedures Bio-Skills Lab. International Spine Intervention Society. Memphis, TN. (Presented) October 2013
- I 119. ISIS 21<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. "Emergency Protocols in Interventional Pain." Las Vegas, NV. (Presented) July 2013
- I 118. Interventional Pain Cadaver Workshop –Advanced Techniques in Interventional Pain. Salt Lake City, Utah. (Medical Director and Presented) June 2013.

- I 17. ISIS Neurostimulation & Intrathecal Spinal Pumps Bio-Skills Lab. International Spine Intervention Society. Aurora, Colorado. (Presented May 2013)
- I 16. Radiofrequency Lab. Stryker. Tyler, TX. (Presented April 2013)
- I 15. ISIS Lumbar Bio-Skills Lab. International Spine Intervention Society. Phoenix, AZ. (Presented) January 2013
- I 14. ISIS Comprehensive Procedures Bio-Skills Lab. International Spine Intervention Society. Las Vegas, NV. (Presented) October 2012
- I 13. ISIS 20<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. "Emergency Protocols in Interventional Pain." Las Vegas, NV. (Presented) July 2012
- I 12. Interventional Pain Cadaver Workshop –Advanced Techniques in Interventional Pain. Salt Lake City, Utah. (Medical Director and Presented) May 2012.
- I 10. ISIS Lumbar Bio-Skills Lab. International Spine Intervention Society. Memphis, TN. (Presented) April 2012
- I 09. Radiofrequency Procedures. Singular Pain Clinic. Campinas, Brazil. (Guest Lecturer) February 2012
- I 08. ISIS Cervical Procedures Bio-Skills Lab. International Spine Intervention Society. Aurora, Colorado. (Presented) October 2011
- I 07. ISIS Advanced Intensive Bio-Skills Lab. International Spine Intervention Society. Memphis, Tennessee. (Presented) October 2011
- I 06. ISIS 19<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. "Emergency Protocols in Interventional Pain." and "Clinical Features of Spondylolithesis." Chicago, Illinois. (Presented) August 2011
- I 05. Disc-FX Workshop. Skyline Surgery Center. Pocatello, Idaho. (Attended) July 2011
- I 04. Interventional Pain Cadaver Workshop –Advanced Techniques in Interventional Pain. Salt Lake City, Utah. (Medical Director and Presented) May 2011.
- I 03. ISIS Lumbar Radiofrequency Bio-Skills Lab. International Spine Intervention Society. Las Vegas, Nevada. (Presented) March 2011
- I 02. ISIS Cervical Bio-Skills Lab. International Spine Intervention Society. Phoenix, Arizona. (Presented) February 2011
- I 01. ASRA 2010 Annual Pain Medicine Meeting and Workshops. "Ultrasound in Pain Medicine" Phoenix, Arizona, (Attended) November 2010.
- I 00. Neurotherm Cadaver Workshop with Focus on Radio Frequency Ablation of the SI Joint. Seattle, Washington. (Presented) November 2010

99. ISIS Advanced Intensive Bio-Skills Lab. International Spine Intervention Society. Memphis, Tennessee. (Presented) October 2010.
98. ISIS Cervical Radiofrequency & Discography Procedures Bio-skills Lab. International Spine Intervention Society. Aurora, Colorado. (Course Director and Presented) June 2010.
97. Neurostimulation & Intrathecal Spinal Pumps Bio-Skills Lab. International Spine Intervention Society. Park City, Utah. (Presented) February 2010.
96. ISIS 17<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Toronto, Ontario, Canada. (Attended) July 2009
95. Advanced Intensive Bio-Skills Lab. International Spine Intervention Society. Memphis, Tennessee. (Presented) June 2009
94. Interventional Pain Cadaver Workshop –Advanced Techniques in Interventional Pain. Salt Lake City, Utah. (Medical Director and Presented) May 2009.
93. Phase 2 Cervical Procedures Bio-Skills Lab.. International Spine Intervention Society. Denver, Colorado. (Presented) May 2009.
92. ISIS Phase I Lumbar Bio-Skills Lab. International Spine Intervention Society. SpineMark Facility, Plano, Texas. (Presented) April 2009.
91. 5<sup>th</sup> World Congress World Institute of Pain. New York City, New York. (Attended) March 2009
90. ISIS Phase 2 Cervical Bio-Skills Lab. International Spine Intervention Society. Phoenix, Arizona. (Presented) February 2009.
89. ISIS Phase I Lumbar Procedures Bio-Skills Lab.. International Spine Intervention Society. San Francisco, California. (Presented) January 2009.
88. ISIS Radiofrequency Bio-Skills Lab. International Spine Intervention Society. Phoenix, Arizona. (Presented) November 2008.
87. ISIS Radiofrequency Bio-Skills Lab. International Spine Intervention Society. Sine Masters Institute. Burr Ridge, Illinois. (Presented) August 2008.
86. ISIS Radiofrequency Hands-on Workshop. International Spine Intervention Society. Dallas, Texas. (Presented) April 2008.
85. Invited speaker. Neurotherm Master Class on Radiofrequency Lesioning. Neurotherm. Boston, Massachusetts. March 2008. (Presented)
84. ISIS Spinal Cord Stimulation Advanced Workshop. International Spine Intervention Society. Vancouver, British Columbia, Canada. February 2008. (Presented)
83. Brigham Young University Health Center. “Use of Opiates for Non-malignant Pain.”

- Provo, Utah. November, 2007. (Presented)
82. ISIS Radiofrequency Hands-on Workshop. International Spine Intervention Society. October 2007. (Presented)
81. Radiofrequency Lesioning Procedures. Interventional Pain Institute. September 2007. (Presented)
80. Advanced Radiofrequency Ablation Techniques. Stryker. August 2007. (Presented)
79. ISIS 15<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Baltimore, Maryland. July, 2007. (Attended)
78. ISIS Radiofrequency Workshop Using Cadavers. International Spine Intervention Society. Pittsburgh, Pennsylvania. June 2007. (Presented)
77. Radiofrequency Lesioning Procedures. Interventional Pain Institute. May 2007. (Presented)
76. ISIS Radiofrequency Hands-on Workshop.. International Spine Intervention Society. March 2007. (Presented)
75. Advanced Radiofrequency Ablation Techniques. Stryker. February 2007. (Presented)
74. Phase I Lumbar Workshop Using Cadavers. International Spine Intervention Society. Burlingame, California. January 2007. (Presented)
73. "Interventional Pain Management." Nurse Practitioner program. Brigham Young University. Provo, Utah. November, 2006.
72. ISIS Advanced Lumbar Workshop. International Spine Intervention Society. Phoenix, Arizona. November 2006. (Presented)
71. Integrated Addiction Treatment of Body, Mind, and Spirit. Albert Einstein College of Medicine, New York, New York. October 2006. (Attended)
70. ISIS Cervical & Thoracic Workshop. International Spine Intervention Society. Memphis, Tennessee. September, 2006. (Presented)
69. ISIS Radiofrequency Workshop. International Spine Intervention Society. Boston, Massachusetts. August. 2006. (Presented)
68. ISIS 14<sup>th</sup> Annual Scientific Meeting. International Spine Intervention Society. Salt Lake City, Utah. July 2006. (Attended)
67. ISIS Practice Management Seminar. International Spine Intervention Society. San Francisco, California. June 2006. (Attended)
66. ISIS Phase 4 Discography Workshop Using Cadavers. International Spine Intervention Society. Pittsburgh, Pennsylvania. May 2006. (Presented)
65. Brigham Young University Health Center. "Use of Opiates for Non-malignant Pain."

- Provo, Utah. May 2006. (Presented)
64. Utah Chiropractic Physicians Association. "Diagnosis and Treatment of Lumbar Back Pain" Salt Lake City, Utah. April 2006. (Presented)
  63. ISIS Radiofrequency Workshop: A hands-on course utilizing cadavers. International Spine Intervention Society. Dallas, Texas. April 2006. (Presented)
  62. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spine Intervention Society. Orlando, Florida. March 2006. (Presented)
  61. ISIS Radiofrequency Workshop: A hands-on course utilizing cadavers. International Spine Intervention Society. Phoenix, Arizona. February 2006. (Presented)
  60. ISIS Phase I Lumbar Workshop. International Spine Intervention Society. Burlingame, California. January 2006. (Presented)
  59. ISIS Advanced European Radiofrequency Workshop Using Cadavers. International Spine Intervention Society. Munster, Germany. October 2005. (Presented)
  58. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spine Intervention Society. Burlingame, California. October 2005. (Presented)
  57. ISIS Spinal Cord Stimulators and Intraspinal Drug Infusion Systems Workshop Using Cadavers. International Spine Intervention Society. Boston, Massachusetts. August 2005. (Presented)
  56. Interventional Pain Institute. May 2005. (Presented)
  55. Physician Assistant Conference. "Lumbar Spine Intervention Techniques" Mesquite, Arizona. April 2005. (Presented)
  54. ISIS Phase 2 Lumbar With Discography Workshop Using Cadavers. International Spine Intervention Society. Phoenix, Arizona. March 2005. (Presented)
  53. "Proper use of Opiates in the Treatment of Chronic Benign Pain." Janssen Pharmaceuticals. Provo, Utah. March 2005. (Presented)
  52. Interventional Pain Institute. February 2005. (Presented)
  51. ISIS Phase I Lumbar Workshop Using Cadavers. International Spine Intervention Society. Burlingame, California. January 2005. (Presented)
  50. ISIS Phase 4 Discography Workshop Using Cadavers. International Spinal Injection Society. Burlingame, California. November 2004. (Presented)
  49. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spinal Injection Society. Atlanta, Georgia. October 2004. (Presented)
  48. ISIS Phase I Lumbar Workshop Using Cadavers. International Spinal Injection Society. Memphis, Tennessee. August 2004. (Presented)

47. ISIS Cervical Intensive Workshop Using Cadavers. International Spinal Injection Society. Memphis, Tennessee. June 2004. (Presented)
46. Physician Assistant Conference. "Lumbar Spine Intervention Techniques" Mesquite, Arizona. April 2004. (Presented)
45. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spinal Injection Society. Dallas, Texas. April 2004. (Presented)
44. ISIS Phase 2 Lumbar & Thoracic Spinal Injection Workshop using Cadavers. International Spinal Injection Society. Phoenix, Arizona. March 2004. (Presented)
43. Interventional Pain Techniques. Park City, Utah. March 2004. (Attended)
42. A Comprehensive Interventional Cadaver Workshop/ Cervical, Thoracic, Lumbar. University of Louisville School of Medicine Continuing Health Sciences Education. March 2004. (Attended)
41. ISIS Phase 1 Lumbar Injection Workshop Using Cadavers. International Spinal Injection Society. Burlingame, California. January 2004. (Presented)
40. ISIS Phase 1 Lumbar Workshop Using Cadavers. International Spinal Injection Society. Muenster, Germany. November 2003. (Presented)
39. Western Regional Directors Conference. "Principles of Safe Opiate Prescribing." Janssen Pharmaceuticals. Newport Beach, California.
38. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spinal Injection Society. Burlingame, California. September 2003. (Presented)
37. ISIS Phase 1 Lumbar Workshop Using Cadavers. International Spinal Injection Society. Thornton, Colorado. June 2003. (Presented)
36. Physician Assistant Conference. "Opiate Use in Non-Malignant Pain" Mesquite, Arizona. April 2003. (Presented)
35. Intensive Workshop Using Cadavers. International Spinal Injection Society. Memphis, Tennessee. April 2003. (Presented)
34. Phase 2 Lumbar & Thoracic Workshop Using Cadavers. International Spinal Injection Society. February 2003. (Presented)
33. ISIS Phase 3 Cervical Workshop Using Cadavers. International Spinal Injection Society. November 2002. (Presented)
32. ISIS Phase 6 Annuloplasty, CoBlation, IDET, LASE Nucleoplasty Workshop using Cadavers. International Spinal Injection Society. July 2002. (Presented)
31. ASAM's 18<sup>th</sup> Annual Meeting with Review. American Academy of Pain Medicine. San Francisco, California. March 2002. (Attended)
30. Idaho Industrial Commission Workers Compensation Seminar. Keynote Speaker.

- “Pearls in Dealing with Chronic Pain Patients.” 2002. Idaho. (Presented)
29. ISIS Phase I Lumbar Spinal Injection Workshop Using Cadavers. International Spinal Injection Society. January 2002. (Presented)
  28. “Innovative Treatment Strategies with Anticonvulsants: A Focus on Neuropathic Pain. Strategic Implications. Vienna Virginia. December 2001. (Attended)
  27. Principles of Safe Opiate Prescribing. Janssen Pharmaceuticals. Las Vegas, NV. 2001.
  26. ISIS Phase 4 Discography Workshop Using Cadavers. International Spinal Injection Society. Memphis, Tennessee. October 2001. (Presented)
  25. Principles of Safe Opiate Prescribing. Janssen Pharmaceuticals St. George, Utah, 2001.
  24. Arthrocare Spine. “Percutaneous Disc Decompression.” Stanford University. Palo Alto, California. June 2001. (Presented)
  23. 11<sup>th</sup> Annual Spine Symposium. Current Issues in Spine Care: Surgery, Physiatry, Psychology. Salt Lake City, Utah, March 2001. (Presented)
  22. ISIS Cervical Spinal Injection Workshop Using Cadavers, International Spinal Injection Society. Rosemont, Illinois. March 2001. (Presented)
  21. Intradiscal Electrothermal Therapy (IDET): Advanced Concepts Workshop. Stanford University School of Medicine, Palo Alto, California. March 2001. (Attended)
  20. ISIS Phase I Lumbar Course. International Spinal Injection Society. Burlingame, California. January 2001. (Presented)
  19. 19<sup>th</sup> Annual Scientific Meeting/Professional Development Courses. American Pain Society. Atlanta, Georgia. November 2000. (Attended)
  18. Principles of Safe Opiate Prescribing. Janssen Pharmaceuticals. Provo, Utah. 2000.
  17. Principles of Safe Opiate Prescribing. Perdue Frederick. Salt Lake City, Utah. 2000
  16. World Wide Pain Conference. San Francisco, California. July 2000. (Attended)
  15. ISIS Phase 4 Discography Workshop Using Cadavers. International Spinal Injection Society. 2000. (Attended)
  14. ISIS Discography Workshop Using Cadavers. International Spinal Injection Society. Cambridge, Massachusetts. June 2000 (Attended)
  13. ASAM’s 31<sup>st</sup> annual Medical-Scientific Conference. Chicago. Illinois. April 2000. (Attended)
  12. ASAM’s Pain and Addiction: Common Threads Course. Chicago, Illinois. April 2000. (Attended)



11. ISIS Lumbar & Thoracic Spinal Injection Workshop Using Cadavers. International Spinal Injection Society. Salt Lake City, Utah. April 2000. (Attended)
10. ISIS Phase I Lumbar Course. International Spinal Injection Society. Burlingame, California. 2000. (Attended)
9. Oratec Technique for Percutaneous ElectroThermal Treatment of Discogenic Pain. September 1999. (Attended)
8. Stanford University School of Medicine Disc Puncture Workshop. Palo Alto, California. September 1999. (Attended)
7. Principles of Safe Opiate Prescribing. Janssen Pharmaceuticals. Price, Utah. 1999
6. Interventional Pain Management Techniques. Maricopa Health Systems. Redondo Beach, California. March 1999. (Attended)
5. American Society of Addiction Medicine. ASAM's Review Course in Addiction Medicine. Chicago, Illinois. October 1998. (Attended)
4. Idaho Industrial Commission Workers' Compensation Seminar "Pain Management in Worker's Compensation" Boise, Idaho. October 1998. (Presented)
3. Charles R. Drew University. "Clinical Electromedical Research Academy Symposium 1998." May 1998. (Attended)
2. American Society of Addiction Medicine. ASAM's 29<sup>th</sup> Annual Medical-Scientific Conference. New Orleans, Louisiana. April 1998. (Attended)
1. IHC Salt Lake Valley Hospitals. "Healing your patients, Protecting Your License." Salt a. Lake City, Utah. February 1998. (Presented)