

Curriculum Vitae

Vijay Singh, M.D.
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◆ EDUCATION

<i>Graduate Degree</i>	University of Allahabad, India Bachelor of Medicine & Bachelor of Surgery
<i>Medical College</i>	Motilal Nehru Medical College -- Allahabad, India August 1972 to November 1976
<i>Premedical College</i>	Jamna Christian College – Allahabad, India July 1971 to April 1972

◆ POST GRADUATE TRAINING

<i>September 1, 1986 to August 31, 1989 (PGY 2, 3, 4)</i>	Anesthesiology , University of South Florida; Tampa General – Tampa, Florida 8 Months training in Cardiac Anesthesia 6 Months training in Pain Management Training and experience in Long-Term Epidural Catheter placement
<i>January 1981 to June 1983 (PGY 2 to 4)</i>	Neurological Surgery , Memorial Sloan Kettering Cancer Center – New York
<i>September 1980 to December 1980 (PGY 2)</i>	Anesthesiology , Brookdale Hospital Medical Center – Brooklyn, New York
<i>September 1979 to September 1980 (PGY 1)</i>	General Surgery , Brookdale Hospital Medical Center – Brooklyn New York
<i>February 1978 to September 1978 (PGY 2)</i>	Ophthalmology , State Institute of Ophthalmology – Allahabad, India
<i>December 1976 to December 1977 (PGY 1)</i>	Rotating Internship , Motilal Nehru Hospital – Allahabad, India

◆ CERTIFICATION

<i>October 4, 2007</i>	Recertified by The American Board of Anesthesiology in sub-specialty Pain Management
<i>March 2004</i>	Fellow of Interventional Pain Practice from the World Institute of Pain, Section of Pain Practice
<i>September 07, 1996</i>	Board Certified by The American Board of Anesthesiology in sub-specialty Pain Management
<i>April 7, 1995</i>	Diplomate American Board of Pain Medicine
<i>September 25, 1992</i>	Diplomate American Board of Anesthesiology – Certificate #21720
<i>August 1982</i>	FLEX #550207003
<i>September 4, 1979</i>	ECFMG #307-531

◆ LICENSURE

Virginia	Illinois	Indiana
Michigan	Wisconsin	Florida

◆ PRACTICE EXPERIENCE

Medical Director: Developed Multi-Specialty Pain Management program in an outpatient surgery center located in Niagara, Wisconsin (Niagara Health Center). This is an advanced program that provides invasive pain treatment modalities including intra-discal procedures, radiofrequency lesioning, spinal cord stimulators, infusion pumps, myelography, and other nerve blocks. Niagara Health Center is Medicare certified and accredited by the Joint Commission on Accreditation of Healthcare Organizations.

Developed programs for spinal cord stimulation implantation, continuous intra-spinal infusion system, and long term epidural infusion system.

Developed multi-specialty pain management program in Dickinson County, October 1989 to December 1996.

Anesthesiology and Acute and Chronic Pain Management at Dickinson County Memorial Hospital (DCMH) Iron Mountain, Michigan

◆ HOSPITAL PRIVILEGES

11/89 to Present	Dickinson County Healthcare System , Iron Mountain, MI—Active Staff
01/97 to Present	Niagara Health Center , Niagara, WI—Active
06/96 to Present	Bell Memorial Hospital , Ishpeming, MI—Consulting

◆ HOSPITAL PRIVILEGES - *Continued*

07/06 to Present	Columbia St. Mary's , Ozaukee Division, Mequon, WI—Associate
05/07 to Present	Associated Surgical & Medical Specialists , The Surgery Center, Franklin, WI—Provisional
12/07 to Present	Oshkosh Surgery Center (ThedaClark Medical Center) , Oshkosh, WI
01/08 to Present	Berlin Memorial Hospital , Berlin, WI – Consulting
02/08 to Present	Orthopedic & Sports Surgery Center , Appleton, WI
09/08 to Present	Appleton Medical Center (ThedaClark Medical Center) , Appleton, WI – Associate
10/08 to Present	West Allis Memorial Hospital , West Allis, WI – Courtesy/Provisional

◆ MEMBERSHIP

American Society of Interventional Pain Physicians
 – Past President, 2007
 – President, 2006
 – Lifetime Board Member

International Spinal Injection Society
 Michigan State Medical Society
 North American Spine Society
 Wisconsin Medical Society
 Wisconsin Society of Interventional Pain Physicians
 – President

◆ ADMINISTRATIVE EXPERIENCE

<i>January 1997 to Present</i>	Medical Director, Niagara Health Center (JCAHO accredited Outpatient Surgery Center specializing in Interventional Pain Medicine) Niagara, WI
<i>January 1, 1995 to September 1998</i>	Member Dickinson County Memorial Hospital Board of Trustees Iron Mountain, MI
<i>January 1, 1994 to December 31, 1995</i>	Medical Director, I.C.U. Committee , DCMH, Iron Mountain, MI
<i>January 1, 1994 to December 31, 1995</i>	Member Medical Executive Committee , DCMH, Iron Mountain, MI
<i>October 1, 1989 to December 31, 1993</i>	Medical Director of Anesthesia Department , DCMH, Iron Mountain, MI

◆ PUBLICATIONS

- January 2007 *Interventional Techniques: Evidence-based Practice Guidelines in the Management of Chronic Spinal Pain*, Pain Physician, January 2007; Volume 10, Number 1, pp 7-111.
- January 2007 *Systematic Review of Discography as a Diagnostic Test for Spinal Pain: An Update*, Pain Physician, January 2007; Volume 10, Number 1, pp 147-164.
- April 2006 *Percutaneous Lumbar Disc Decompression*, Pain Physician, April 2006; Volume 9, Number 2, pp 139-146.
- January 2005 *Scientific Basis for Nucleoplasty*, Techniques in Regional Anesthesia and Pain Management, January 2005; Volume 9, Issue 1, pp 13-24.
- October 2004 *Role of Percutaneous Disc Decompression Using Coblation In Managing Chronic Discogenic Low Back Pain: A Prospective, Observational Study*, Pain Physician, October 2004; Volume 7, Number 4, pp 419-425.
- July 2004 *Managing Phantom Pain*, Pain Physician, July 2004; Volume 7, Number 3, pp 365-375.
- April 2004 *The Role of Cervical Discography in Interventional Pain Management*, Pain Physician, April 2004; Volume 7, Number 2, pp 249-255.
- February 2004 *Clinical Support for the Use of Disc Nucleoplasty Percutaneous Discectomy*, Disease Management Digest, Volume 8, Number 1, pp 4-5, 12. (Published in Care Management, Volume 10, Number 1, Official Journal of the Academy of Certified Case Managers.)
- January 2004 *Percutaneous Disc Decompression for the Treatment of Chronic Atypical Cervical Discogenic Pain*, Pain Physician, January 2004; Volume 7, Number 1, pp 115-118.
- 2004 *Letter to the Editor: Monitoring of Patients Receiving Long-Term Opioid Therapy*; Anesth Analg, 2004;99 pp. 304.
- October 2003 *Evaluation of Fluoroscopic Caudal Epidural Steroid Injections*, Pain Physician, Volume 6, Number 4, pp 537-539.
- October 2003 *Screening for Controlled Substance Abuse in Interventional Pain Management Settings: Evaluation of an Assessment Tool*, Pain Physician, October 2003; Volume 6, Number 4, pp 425-433.
- October 2003 *Accuracy of Precision Diagnostic Blocks in the Diagnosis of Chronic Spinal Pain of Facet or Zygapophysial Joint Origin*, Pain Physician, October 2003; Volume 6, Number 4, pp 449-456.
- Sept-Oct 2003 *Letter to the Editor: Sacroiliac Joint Pain: Should Physicians Be Blocking Lateral Branches, Medial Branches, Dorsal Rami, or Ventral Rami?*; Regional Anesthesia and Pain Medicine, Vol. 28 No. 5 pp 488-490.
- July 2003 *Evaluation of Percutaneous Disc Decompression Using Coblation in Chronic Back Pain With or Without Leg Pain*, Pain Physician, July 2003; Volume 6, Number 3, pp 273-280.

- July 2003 *Guidelines for the Use of Controlled Substances in the Management of Chronic Pain, Pain Physician*, July 2003; Volume 6, Number 3, pp 233-257.
- April 2003 *Are Diagnostic Lumbar Medial Branch Blocks Valid? Results of 2-Year Follow-Up, Pain Physician*, April 2003; Volume 6, Number 2, pp 147-153.
- April 2003 *Correlates of Non-Physiological Behavior in Patients with Chronic Low Back Pain, Pain Physician*, April 2003; Volume 6, Number 2, pp 159-166.
- January 2003 *Evidence-Based Practice Guidelines for Interventional Techniques in the Management of Chronic Spinal Pain, Pain Physician*, January 2003; Volume 6, Number 1, pp 3-81.
- January 2003 *Methods for Evidence Synthesis in Interventional Pain Management, Pain Physician*, January 2003; Volume 6, Number 1, pp 89-111.
- January 2003 *Interventional Pain Management: Evolving Issues for 2003, Pain Physician*, January 2003; Volume 6, Number 1, pp 125-137.
- 2003 *Sacroiliac Joint Pain: Should Physicians Be Blocking Lateral Branches, Medial Branches, Dorsal Rami, or Ventral Rami? Regional Anesthesia and Pain Medicine*, 2003, Volume 28, Number 5, pp 488-491.
- October 2002 *Evaluation of the Prevalence of Facet Joint Pain in Chronic Thoracic Pain, Pain Physician*, October 2002; Volume 5, Number 4, pp 354-359.
- October 2002 *Is There Correlation of Facet Joint Pain in Lumbar and Cervical Spine? An Evaluation of Prevalence in Combined Chronic Low Back and Neck Pain, Pain Physician*, October 2002; Volume 5, Number 4, pp 365-371.
- October 2002 *Medical Branch Neurotomy in Management of Chronic Spinal Pain: Systematic Review of the Evidence, Pain Physician*, October 2002; Volume 5, Number 4, pp 405-418.
- July 2002 *NASPER: Balancing Substance Abuse and Medical Necessity in Interventional Pain Management, Pain Physician*, July 2002; Volume 5, Number 3, pp 294-319.
- July 2002 *Percutaneous Disc Decompression Using Coblation (NucleoplastyTM) in the Treatment of Chronic Discogenic Pain, Pain Physician*, July 2002; Volume 5, Number 3, pp 250-259.
- July 2002 *Prevalence of Cervical Facet Joint Pain in Chronic Neck Pain, Pain Physician*, July 2002; Volume 5, Number 3, pp 243-249.
- April 2002 *Role of Caudal Epidural Injections in the Management of Chronic Low Back Pain, Pain Physician*, April 2002; Volume 5, Number 2, pp 133-148.
- February 2002 *Letter to the Editor, Spine*, February 1, 2002, Volume 27, Number 3, pp. 335-336.
- January 2002 *Effectiveness of Caudal Epidural Injections in Discogram Positive and Negative Chronic Low Back Pain, Pain Physician*, January 2002; Volume 5, Number 1, pp 18-29.

- January 2002 *Evaluation of Influence of Gender, Occupational Injury, and Smoking on Chronic Low Back Pain of Facet Joint Origin: A Subgroup Analysis*, Pain Physician, January 2002; Volume 5, Number 1, pp 30-35.
- January 2002 *Understanding Psychological Aspects of Chronic Pain in Interventional Pain Management*, Pain Physician, January 2002; Volume 5, Number 1, pp 57-82.
- January 2002 *Review of Chronic Low Back Pain of Facet Joint Origin*, Pain Physician, January 2002; Volume 5, Number 1, 83-101.
- January 2002 *Letter to the Editor*, Spine, January 15, 2002, Volume 27, Number 2, pp. 215-216.
- 2002 *Epidural Lysis of Adhesions and Myelography*, Current Pain Headache Rep, Volume 6, Number 6, pp 427-435.
- December 2001 *Letter to the Editor*, Spine, December 1, 2001, Volume 26, Number 23, pp. 2641-2643.
- October 2001 *Evaluation of the Relative Contributions of Various Structures in Chronic Low Back Pain*, Pain Physician, October 2001; Volume 4, Number 4, pp 308-316.
- July 2001 *Algorithms for Interventional Techniques in Chronic Pain*, Pain Physician, July 2001; Volume 4, Number 3, pp 286-291.
- July 2001 *Evaluation of Role of Facet Joints in Persistent Low Back Pain in Obesity: A controlled, Prospective, Comparative Evaluation*, Pain Physician, July 2001; Volume 4, Number 3, pp 266-272.
- July 2001 *Provocative Discography in Low Back Pain Patients With or Without Somatization Disorder: A Randomized Prospective Evaluation*, Pain Physician, July 2001; Volume 4, Number 3, pp 227-239.
- July 2001 *Spinal Endoscopy and Lysis of Epidural Adhesions in the Management of Chronic Low Back Pain*, Pain Physician, July 2001; Volume 4, Number 3, pp 240-265.
- January 2001 *ASIPP Practice Guidelines: Interventional Techniques in Management of Chronic Pain: Part 2.0*, Pain Physician, January, 2001; Volume 4, Number 1, pp 24-96.
- January 2001 *Focused Review: The Role of Guidelines in Interventional Pain Medicine: Let Us Separate Apples and Oranges*, Pain Physician, January 2001; Volume 4, Number 1, pp 13-23.
- October 2000 *Intradiscal Electrothermal Therapy: A Preliminary Report*, Pain Physician, September 2000; Volume 3, Number 4, pp 367-373.
- January 2000 *Practice Guidelines: Interventional Techniques in Management of Chronic Pain: Part 1.0*, Pain Physician, January, 2000; Volume 3, Number 1, pp 7-42.

◆ **LECTURES GIVEN**

- October 2007 Presented CME lecture on **Precision Diagnosis and Management of Chronic Pain** at Berlin Memorial Hospital.
- April 2007 Presented CME lecture on **Medical Management of Chronic Pain Patients** at Pine Grove Country Club, sponsored through Dickinson County Healthcare System.
- April 2005 **American Society of Interventional Pain Physicians 7th Annual Interventional Pain Management Symposium**
Served as faculty, April 1-3, 2005, New Orleans, LA
- March 2004 **ASIPP-Comprehensive Lumbar Interventional Cadaver Workshop**
Served as instructor at cadaver workshop demonstrating Discography and Nucleoplasty. March 20-21, 2004.
- August 2003 **Second Interdisciplinary Congress on Spine Care: World Spine II**
Presented lecture on “A Novel Approach in Percutaneous Disc Decompression for Back Pain” and served as moderator. August 11, 2003
- August 2003 **ASIPP-Comprehensive Lumbar Interventional Cadaver Workshop**
Served as instructor at cadaver workshop demonstrating Discography and Nucleoplasty. August 2 –3, 2003.
- June 2003 **Texas Tech University Health Science Center 20th Annual Pain Symposium**
Presented lecture on Cervical Discograms. June 14, 2003.
- May 2003 **ASIPP—Comprehensive Interventional Cadaver Workshop**
Served as instructor at cadaver workshop demonstrating Cervical Discography and Percutaneous Minimally Invasive Spinal Surgeries. May 17 - 18, 2003.
- March 2003 **ASIPP—Interventional Pain Management Symposium**
Served as faculty, presented lecture on Structural Basis of Chronic Spinal Pain and Lumbar Intradiscal Therapies, March 21 – 22, 2003.
- October 2002 **ASIPP—Comprehensive Interventional Cadaver Workshop**
Served as faculty, presented lecture on Lumbar Discography and lecture on Structural Basis of Spinal Pain, October 25, 2002.
- September 2002 **4th Annual Meeting & Interventional Pain Medicine / Practice Symposium of the American Society of Interventional Pain Physicians**
Presented lectures on Pathophysiology of Lumbar Discogenic Pain and Percutaneous Disc Decompression with Coblation, in Washington DC on September 21, 2002.
- September 2002 **EuroSpine 2002: Scientific Program**
Speaker at workshop on Nucleoplasty in Nantes, France on September 8, 2002.
- March 2002 **American Society of Interventional Pain Physicians Second Semiannual Interventional Pain Medicine / Practice Symposium**

Presented lecture on Discogenic Pain and Intradiscal Therapy, in Las Vegas, NV on March 17, 2002.

- February 2002 **Minimally Invasive Spine Update 2002**
Served as faculty and presented lecture on Percutaneous Disc Decompression Using Nucleoplasty, in Miami, FL on February 15, 2002.
- February 2002 Instructor on **Percutaneous Disc Decompression Using Nucleoplasty & Cadaver Workshop** at University of Miami, Sports Medicine Lab, Sun Learning Center Coral Gables FL on February 11, 2002.
- June 29, 2001 **Florida Academy of Pain Medicine 2001 Annual Conference**
Served as faculty, presented lecture on *Percutaneous Disc Decompression Using Radio Frequency Nucleoplasty*.
- April 7, 2001 **Interventional Pain Medicine & Minimally Invasive Spinal Surgery Symposium Essentials and Controversies 2001**
Served as faculty, presented lecture on *Pathophysiology of Discogenic Pain* in Las Vegas.
- February 2001 **Minimally Invasive Spine Update 2001**
Served as faculty and presented lecture on Annular Denervation and Discoplasty, on February 17, 2001 in Denver, CO.
- December 2000 **1st World Congress 2000 of Minimally Invasive Spinal Medicine & Surgery**
Served as faculty presented lecture on Chronic Regional Pain Syndrome held in Las Vegas, NV on December 7 – 10, 2000.
- June 1999 **ORATEC**
Served as faculty during a workshop on Intradiscal Electrothermal Therapy, June 12 – 13.
- May 1999 **ORATEC**
Served as faculty during a workshop on Intradiscal Electrothermal Therapy, May 15-16.

◆ **CONFERENCES ATTENDED**

- August 2009 **Comprehensive Pain Medicine and Interventional Pain Management Board Review Course** Earned 44.25 hours of AMA PRA Category I, August 11 – 15, 2009, American Society of Interventional Pain Physicians and Institute for Medical Studies, New Orleans, LA.
- July 2009 **Vertos/Minimally Invasive Lumbar Decompression** Completed the Vertos Medical requirements for didactic, skills lab and cadaveric training in compliance with the product labeling and Instructions for Use and purchase of the Vertos Medical *mild*[®] devices and accessories.
- June 2009 **ASIPP 11th Annual Meeting: Evidence – Based Medicine – Essentials of Practice Management for Interventional Pain Management** Earned 21 hours of AMA PRA

Category I, June 27 – 30, 2009, American Society of Interventional Pain Physicians and Institute for Medical Studies, Washington DC.

- May 2009 **Comprehensive Review Course in Vertebroplasty, Kyphoplasty and Sacroplasty**
Earned 20.25 hours of AMA PRA Category I, May 15 – 17, 2009, American Society of Interventional Pain Physicians and Institute for Medical Studies, Memphis, TN.
- March 2009 **AxiaLIF 360 Surgeon Training** Completed the Axia LIF 360 Surgeon Training Requirements, March 6, 2009, at Pain Diagnostics Associates, Niagara, WI.
- February 2009 **Total Vein Care: Clinical and Business Perspectives on Developing and Operating a Vein Practice** Earned 12 hours of AMA PRA Category I, February 20 – 21, 2009, Nova Southeastern University, Health Professions Division through the joint sponsorship with VNUS Medical Technologies, Atlanta, GA.
- February 2008 **Vertebroplasty, Kyphoplasty and Sacroplasty Review Course & Cadaver Workshop**
Earned 20.75 hours AMA PRA Category I, February 8 –10, 2008, University of Louisville Health Sciences Center, Memphis, TN.
- November 2007 **Spinal Cord Stimulation Review Course/Spinal Cord Stimulation Cadaver Workshop** Earned 20.25 hours AMA PRA Category I, November 30 – December 2, 2007, University of Louisville Health Sciences Center, Memphis, TN.
- July 2007 **Comprehensive Imaging Review in Interventional Pain Management & Competency Certification in Fluoroscopic Interpretation and Radiation Safety** Earned 23.5 hours AMA PRA Category, July 13-16, 2007, Las Vegas, NV
- June 2007 **American Society of Interventional Pain Physicians 9th Annual Meeting & Legislative Session**
Earned 20.25 hours in AMA Category I, June 23-27, 2007, Arlington, VA
- June 2007 **Society of Interventional Pain Management Surgery Centers 2nd Annual Meeting**
Earned 7 hours in AMA Category I, June 23-27, 2007, Arlington, VA
- July 2006 **Interventional Techniques Review Course – A Comprehensive Interventional Cadaver Workshop**
Earned 22.75 hours in AMA Category I, July 7-9, 2006, University of Louisville Health Sciences Center, Memphis, TN.
- June 2006 **American Society of Interventional Pain Physicians 8th Annual Meeting & Legislative Session**
Earned 13 hours in AMA Category I, June 24-28, 2006, Arlington, VA
- April 2005 **American Society of Interventional Pain Physicians 7th Annual Interventional Pain Management Symposium**
Earned 17.5 hours in AMA Category I, April 1-3, 2005, New Orleans, LA

- March 2004 **Comprehensive Interventional Cadaver Workshop.** Earned 9 hours in AMA Category I, March 21-23, 2004, University of Louisville Health Sciences Center, Memphis, Tennessee.
- October 2003 **EuroSpine 2003: 5TH Annual Meeting of the Spine Society of Europe**
October 1 – 4, 2003, Prague, Czech Republic.
- September 2003 **American Society of Interventional Pain Physicians Fifth Annual Interventional Pain Management Symposium**
Earned 20 hours in AMA Category I, September 6-8, 2003, Washington, D.C.
- August 2003 **Second Interdisciplinary Congress on Spine Care: World Spine II**
August 10-13, 2003, Chicago, IL.
- June 2003 **Texas Tech University Health Science Center 20th Annual Pain Symposium**
June 14, 2003.
- May 2003 **ASIPP—Comprehensive Interventional Cadaver Workshop**
Medical Education and Research Institute, Memphis, Tennessee.
Earned 14 credit hours in category I May 17 - 18, 2003.
- March 2003 **American Society of Interventional Pain Physicians Third Semiannual Interventional Pain Management Symposium**
Earned 20 hours in AMA Category I March 21 – 23, 2003, in San Diego, CA.
- September 2002 **4th Annual Meeting & Interventional Pain Medicine / Practice Symposium of the American Society of Interventional Pain Physicians**
Earned 20 hours in AMA Category I September 21 – 23, 2002, in Washington D.C.
- March 2002 **American Society of Interventional Pain Physicians Second Semiannual Interventional Pain Medicine / Practice Symposium**
Earned 16.5 hours in AMA Category I.
- February 2002 **Minimally Invasive Spine Update 2002**
Earned 15 hours in AMA Category I.
- October 2001 **Third Annual Meeting of the American Society of Interventional Pain Physicians and Interventional Pain Medicine Symposium**
Earned 15.5 hours in Category I by attending “Survival Training for the New Millennium” held October 6-8, 2001 in Reston, VA.
- August 2001 **Percutaneous Cement Delivery: A Hands On Course**
Earned 7 hours in Category I at University of Toronto Surgical Skills Center at Mt. Sinai Hospital, August 4, 2001.
- June 2001 **Florida Academy of Pain Medicine 2001 Annual Conference**
Earned 16 hours in AMA Category I, June 29, 2001.

- April 2001 **Interventional Pain Medicine & Minimally Invasive Spinal Surgery Symposium Essentials and Controversies 2001**
Earned 21.5 hours in Category I, April 7, 2001.
- February 2001 **Minimally Invasive Spine Update 2001**
Earned 12 hours in Category I, February 16-17, 2001.
- December 2000 **1st World Congress 2000 of Minimally Invasive Spinal Medicine & Surgery**
Earned 24 hours in Category I.
- September 2000 **Second Annual Meeting of the American Society of Interventional Pain Physicians and Interventional Pain Medicine Symposium**
Earned 17.0 hours in Category I by attending “Survival Training for the New Millennium” held September 15 – 17, 2000 in Washington, DC.
- November 1999 **North American Spine Society**
Earned 24.5 hours in Category I by attending the 14th Annual North American Spine Society Meeting. October 20-23, 1999
- September 1999 **Endoscopic Spine Surgery Preceptorship Program**
Attended a laser science/safety presentation, clinical lecture hands-on cadaver lab and preceptorship for use of the Holmium Laser for spinal applications. September 15-17, 1999.
- August 1999 **International Spinal Injection Society**
Earned 16.5 hours in Category 1 by attending the ISIS 7th Annual Scientific Meeting, August 13-15, 1999.
- May 4, 1999 **Dickinson County Memorial Hospital**
Earned 1 hour of Category I for attending a presentation on Tropical Travel Medicine at the meeting held by the Dickinson-Iron County Medical Society.
- May 1, 1999 **BCBSM Continuing Medical Education**
Earned 1 hour of Category I by attending a course on the Clinical Impact of Antibiotic Resistance.
- March 2, 1999 **Dickinson-Iron County Medical Society**
Attended a seminar on Building a Compliance Program: Fraud and Abuse presented by the Michigan State Medical Society.
- March 1999 **Midwest Pain Society**
Earned 10.5 hours in Category I for attending the 23rd Scientific Meeting, March 12-13.
- March 1999 **Pain Management Experts Meeting**
Attended March 19-21
- October 15, 1998 **Dickinson County Memorial Hospital**
Earned 1 hour of Category I for attending a presentation on Back Pain.
- August 25, 1998 **Dickinson County Memorial Hospital**

Earned 1 hour of Category I for attending a course on Anti-depressants.

- June 1998 **ORATEC**
Attended a course on Technique for Percutaneous Electro Thermal Treatment of Discogenic Pain
- September 1997 **Marquette General Hospital**
Earned 6 hours of Category 1 for attending the Chronic Pain Seminar
- September 1997 **Portage Health System**
Earned 13.5 credit hours for successful completion of Call to Collegiality
- July 1997 **Dannemiller Memorial Educational Foundation**
Attended the Interventional Therapies Workshop , July 11-13.
Earned 22.5 credit hours in Category 1 of The Physician's Recognition Award of the American Medical Association
- May 1997 **International Intradiscal Therapy Society**
Participated in the 10th Annual meeting earning 12 credit hours
- April 1997 **Southeast Seminars**
Earned 4 hours of classroom and 3 hours of laboratory practice in the use of video guided catheters for in site examination and treatment of the epidural canal
- March 1997 **Cervicogenic Headache Conference**
Earned 21 credit hours by attending the conference
- October 1996 **George S. Hackett Foundation**
Earned 20 credit hours by completing a course on "Basic and Advanced Hackett Prolotherapy"
- July 1996 **Sofamor Danek**
Attended a conference on Current Concepts on Spinal Endoscopy
- July 1996 Attended a conference on the subject Principles of Pain Management - A Keyword Oriented Review of the Specialty.
- July 1996 **The American Association of Physician Specialists**
Earned 10 credit hours by completing a course on "Diagnosis and Non-Operative Therapy of the Spine"
- May 1996 **International Intradiscal Therapy Society_**
Earned 8 credit hours by attending the Intradiscal Therapy Workshop
- May 1996 **International Intradiscal Therapy Society_**
Earned 12 credit hours by attending the Intradiscal Therapy Workshop
- April 1996 **Midwest Pain Society**

Earned 12.75 credit hours by participating in the 20th Scientific Meeting sponsored by Midwest Pain Society

April 1996

Radionics, Inc.

Earned 16 hours by participating in a course on Radiofrequency Techniques in the Management of Chronic Pain Radionics, Inc.

April 1996

PICOM Risk Management Education

Earned 3 credit hours by attending the course

February 1996

Dickinson County Memorial Hospital

Earned 1 credit hour by attending a course on MRI of the CNS spine and Musculoskeletal System

November 1995

Seton Medical Center, Daly City, CA

Earned 9.5 credit hours by a course through International Spine Injection Societies, Hands-On Cervical-Thoracic Spinal Injection Workshop Using Cadavers

September 1995

Seton Medical Center, Daly City, CA

Earned 11 credit hours by attending International Spinal Injection Society Course

September 1995

Radionics, Inc.

Earned 15.5 hours by participating in a course on Radiofrequency Techniques in the Management of Chronic Pain

July 1995

Seton Medical Center, Daly City, CA

Earned 7.5 credit hours by attending a course by International Spinal Injection Societies- Hands-On Lumbar Spinal Injection Workshop Using Cadavers

June 1995

Radionics, Inc.

Participated in a seminar on Radiofrequency Techniques in the Management of Chronic Pain

May 1995

Dickinson County Memorial Hospital

Earned 2 credit hours by attending courses on Treatment of Refractory Depression in a Family Practice Setting and Metformin Treatment of NIDDM

February 1995

American Academy of Pain Medicine

Earned 24 credit hours by attending the course

October 1994

Stratton-Cheeseman Management Company, Inc.

Earned 3 credit hours by attending the Risk Management Seminar

July 1994

The University of Alabama School of Medicine

Attended a course on Comprehensive Pain Medicine/Management

June 1994 **The Upper Peninsula Medical Society of Michigan**
Earned 11.5 hours by attending the course

1994 **Baptist Medical Center of Oklahoma**
Earned 12 credit hours by attending a course on Interventional Spine Diagnostic Procedures through Interventional Spine Pain Management Conference

September 1993 **The Society for Pain Practice Management**
Earned 3 credit hours by attending Spinal Cord Stimulation Workshop by Barry Straus, M.D.

September 1993 **The Society for Pain Practice Management**
Earned 19 credit hours by attending the course

July 1993 **Stratton-Cheeseman Management Company**
Attended a Risk Management Seminar

April 1993 **Dickinson County Memorial Hospital**
Earned 5 Credit Hours by attending on topics such as Diagnosis and Treatment Options in Depressive Orders, Risk Management Seminar, Lumbar & Cervical Disc Disease

February 1993 **Wyndham Paradise Valley Resort, Scottsdale, Arizona**
Earned 25.2 credit hours through the course given by The Society for Pain Practice Management

June 1992 **Dannemiller Memorial Educational Foundation**
Earned 15 Credit Hours by attending Interventional Pain Management: An advanced Techniques Workshop

June 1992 **Dickinson County Memorial Hospital**
Earned 9 Credit Hours by attending on topics such as Osteoporosis, Intra-Abdominal infections, Pulmonology, Orthopedics, Urology, Emergency Medicine, etc.

October 1991 **American Society of Anesthesiologists**
Earned 45 credit hours for Continuing Education

October 1991 **Creighton University**
Earned 60 credit hours for Continuing Education

February 1991 **Albert Einstein College of Medicine**
Earned 26 credit hours for Mastery of Anesthesia Basics

August 1989 **Lake Medical Services, Inc.**
Earned 5 credit hours on “Risk Management and the Physician”

May 1986 **Benton Franklin County Medical Society CME Committee**
Earned 12 Credit Hours in Category I

◆ BOOK CHAPTERS

Manchikanti L, Singh V, Boswell M. Phantom Pain Syndromes, in: Pain Management, 1st edition, Waldman, Published by Saunders in 2007 pp. 304-315.

Manchikanti L, Singh V, Boswell M. Cervical Radiculopathy, in: Pain Management, 1st edition, Waldman, Published by Saunders in 2007 pp. 568-576.

Manchikanti L, Singh V, Boswell M. Lumbar Radiculopathy, in: Pain Management, 1st edition, Waldman, Published by Saunders in 2007 pp. 758-768.

Manchikanti L, Schultz D, Singh V. Cervical Facet Block, in: Pain Management, 1st edition, Waldman, Published by Saunders in 2007 pp. 1199-1209.

Manchikanti L, Schultz D, Singh V. Lumbar Facet Block, in: Pain Management, 1st edition, Waldman, Published by Saunders in 2007 pp. 1303-1313.

Guidelines for the Practice of Interventional Techniques, in: Weiner's Pain Management, A Practical Guide for Clinicians, Seventh Edition, Boswell, Mark V. and Cole, Eliot B. (eds), Published in 2006 by CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 847-878.

Evidence for the Use of Interventional Techniques for Chronic Spinal Pain, in: Weiner's Pain Management, A Practical Guide for Clinicians, Seventh Edition, Boswell, Mark V. and Cole, Eliot B. (eds), Published in 2006 by CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 879-908.

Cervical Facet Joint Interventions, in: Weiner's Pain Management, A Practical Guide for Clinicians, Seventh Edition, Boswell, Mark V. and Cole, Eliot B. (eds), Published in 2006 by CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 967-976.

Thoracic Facet Joint Interventions, in: Weiner's Pain Management, A Practical Guide for Clinicians, Seventh Edition, Boswell, Mark V. and Cole, Eliot B. (eds), Published in 2006 by CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 977-984.

Lumbar Facet Joint Interventions, in: Weiner's Pain Management, A Practical Guide for Clinicians, Seventh Edition, Boswell, Mark V. and Cole, Eliot B. (eds), Published in 2006 by CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 985-996.

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◆ AWARDS

- 2008 10 Years of Dedicated Service as Lifetime Director, Presented by: American Society of Interventional Pain Physicians (ASIPP)
- 2007 Exemplary Dedication to the Advancement of the Medical Specialty of Interventional Pain Management, Presented by: Dickinson County Healthcare System, Board of Trustees
- 2007 Distinguished Leadership as President of American Society of Interventional Pain Physicians, Presented by: Michigan State Medical Society
- 2004 Achievement Award for Continued Pursuit of Medical Knowledge and Clinical Excellence, Presented by: ArthroCare Spine
- 2004 President's Recognition Award for Leadership, Integrity and Compassion, Presented by: American Society of Interventional Pain Physicians