

CURRICULUM VITAE

CHARLES E. ARGOFF, M.D.
Professor of Neurology
Albany Medical College
Director, Comprehensive Pain Center
Director, Pain Management Fellowship
Albany Medical Center
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DATE OF BIRTH:

June 1, 1960

EDUCATION:

1982 - B.M.S., Honors Program in Medical Education, Northwestern University
Evanston, IL

1984 - M.D. Honors Program in Medical Education, Northwestern University Medical
School, Chicago, IL

POST GRADUATE TRAINING:

1984-85 - Intern
Department of Medicine
SUNY at Stony Brook
Stony Brook, New York

1985-88 - Resident (Chief Resident 7/87-6/88)
Department of Neurology
SUNY at Stony Brook
Stony Brook, New York

1988-90 - Fellowship,
Development and Metabolic Neurology
NIH/NINDS
Bethesda, Maryland

UNIVERSITY AND STAFF POSITIONS:

March 2016- present
Director, ACGME Accredited Pain Management Fellowship (approved 3/24/16)

October 2007- present
Attending Physician

Director, Comprehensive Pain Center
Albany Medical College, Albany, NY

1992- January 2007
Attending Physician, Director, Cohn Pain Management Center
Department of Neurology
North Shore University Hospital, Manhasset and Syosset, New York

1992-2000
Co-Founder/Pain Medicine Consultant
Pain Management Associates of St. John's, Smithtown, New York

1992-1995
Director, Neurologic Rehabilitation
North Shore University Hospital, Manhasset, New York

1992-1995
Deputy Chairman
Department of Neurology
(Glen Cove)
North Shore University Hospital, Manhasset, New York

1991-1992
Chief of Neurology
Northport VAMC, Northport, New York

1991-1992
Attending Neurologist
Stony Brook University Hospital, Stony Brook, New York

7/90-6/91
Assistant Director
Pain Program
Spaulding Rehabilitation Hospital, Boston, Massachusetts

Other Positions:

November 2011 – May 2012
Consultant/Medical Director
Asante Communications, LLC, 800 Third Avenue, 23rd Floor, New York, NY 10022

January, 2007- October, 2011
Consultant/Medical Director
McMahon Publishing Group, 545 West 45th Street, New York, NY 10036

Board Certification:

American Board of Psychiatry & Neurology (Neurology) – 1990 - present

American Board of Psychiatry and Neurology Subspecialty Certification in Pain Medicine (2000/2010)

American Board of Pain Medicine (Pain Medicine) -1994

Academic Appointments:

October 2007- present

Professor of Neurology

Albany Medical College, Albany, NY

January 1996- 2007

Assistant Professor of Neurology

New York University Medical School, New York, New York

1992-1996

Assistant Professor of Neurology

Cornell University Medical College, New York, New York

1991-1992

Assistant Professor of Neurology

SUNY at Stony Brook, Stony Brook, New York

Professional Society Memberships (current):

American Academy of Neurology

International Association for the Study of Pain

American Pain Society

American Academy of Pain Medicine (President, American Academy of Pain Medicine Foundation)

New York State Neurological Society

New York State Pain Society (Founding Member and Current President 4/18-4/20)

Medical Society of the State of New York

Awards and Honors:

2019 Presidential Commendation, American Academy of Pain Medicine

2018 Presidential Commendation, American Academy of Pain Medicine

2016 John Bonica Award and Lecture for contributions to Pain Medicine, Eastern Pain Society (regional society of American Pain Society)

2014 Distinguished Service Award, American Academy of Pain Medicine

2013 Honorary Chairperson/Speaker US Pain Foundation Gala, April 20, 2013 White Plains, NY

2012 Elizabeth Narcessan Award for Outstanding Educational Achievements, American Pain Society – awarded May, 2012 at the American Pain Society Annual Scientific Meeting, Honolulu, HI

2011 Academic Pain Educator of the Year Award- American Society of Pain Educators

1990 Young Investigator Travel Award (Fifth International Congress of Inborn Errors of Metabolism)

National/Regional Committees:

American College of Graduate Medical Education Pain Management Milestones Committee

Member- 2014

FDA-Patient Safety Workgroup

Member, 2012- 2016

American Academy of Neurology:

Councilor, Member of Executive Committee, Pain and Palliative Care Section: 2011-2016

Member, Quality Standards Subcommittee 2003-2009

Chair, Pain and Palliative Care Section: 2002-2005

American Board of Psychiatry and Neurology

Member and ABPN representative, Examination Committee, Pain Medicine Subspecialty Certification Exam (joint effort among American Board of Anesthesia,

American Board of Physical Medicine and Rehabilitation, American Board of Psychiatry and Neurology) 2005- 2014

American Pain Society:

Fundamentals of Pain Management Course Steering Committee Co-founder and Chair (2002 – present- recently renamed to Fundamentals of Translational Pain Management)

Scientific Program Committee Chair 2014 meeting

Scientific Program Committee Co-Chair 2013 meeting

Scientific Program Committee Member 2012, 2011, 2003 and 2000 meetings

Chair, APS Managing the Patient in Pain Skills Seminar 2011

Education Committee Member 2009 (Roger Fillingim, Chair)

Continuing Medical Education Committee Member 2003-2004 (Judith Paice, Chair)

Educational Task Force 2003 and 2005 (Judith Paice Chair)

Professional Development Courses Committee, Member 1999.

Nominating Committee Member, 2004, 2005 and 2012

American Academy of Pain Medicine

Research Committee Member, 2011- present

Medical School Curriculum Committee Member, 2012 – present

New York State Liaison for State Initiative Campaign
2009-present

American Board of Pain Medicine Foundation

President 2012- present

Member and Secretary, Board of Directors March 2011-2012

American Board of Pain Medicine

Member, Credentials Committee 1999-2000

Eastern Pain Society

Chair, Nominating Committee 2018

Member, Board of Directors 2017- present

State Committees:

Workers Compensation Board Medical Advisory Committee convened to rewrite Chronic Pain Treatment Guidelines

Member, September 2011- completion of advisory committee activities

New York State Prescription Drug Abuse Taskforce (Steven Kipnis, M.D. Chair)

Member 2011- completion of taskforce activities

Medical Education and Scientific Foundation Medical Society of the State of New York

Chair, MESF Pain Management Task Force- 2006-7

Editorial Board Member:

Editorial Board: Applied Neurology, BMC Neurology, Clinical Journal of Pain, Pain Medicine

Journal Reviewer:

Reviewer: Anesthesia and Analgesia, Archives of Physical Medicine and Rehabilitation, BMC Neurology, Brain, Clinical Drug Investigation, Clinical Journal of Pain, Current Medical Research and Opinion, JAMA, Journal of Medical Economics, Journal of Musculoskeletal Pain, Journal of Pain, Journal of Pain and Symptom Management, Lancet Gastroenterology and Hepatology, Neurology, Pain, Pain Medicine, Pain Reports.

Journal Section Editor:

Neuropathic Pain Section Co-Editor - Pain Medicine

Pain Section (Contributing) Editor - Practical Neurology

Other Position:

Oral Examiner for American Board of Psychiatry and Neurology (Neurology)

Research:

Each of the grants listed below were received for my involvement in a clinical trial. They include multicenter randomized controlled trials as well as open label studies and investigator initiated trials. The investigator initiated trials were either written by myself or in collaboration with colleagues.

Principal Investigator - Studies completed at Albany Medical Center:

VTX16-150-102: A Phase 2, Randomized, Double-blind, Placebo-controlled, 6-Week, Parallel-design study of the Efficacy and Safety of VX-150 in Treating Subjects with Pain caused by Small Fiber Neuropathy- Vertex Pharmaceuticals, Inc.- Lead Investigator

KF7013-03: Open-label safety of intravenous neridronoic acid in subjects with complex regional pain syndrome (CRPS) - Grunenthal USA Inc.

TCH-002: Migraine Treatment with Nerivio Migraine neurostimulation device - Theranica, Ltd.

Small Fiber Polyneuropathy- A Big Clue in Refractory Chronic Pelvic Pain (Expedited Review Category 5 with Waiver from the Requirement to Obtain Informed Consent – CFR45.46.116d collection of retrospective medical record information)

TV-45070-CNS-20013- A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Topically Applied TV-45070 (4% and 8% w/w ointment) in patients with Post Herpetic Neuralgia - Teva Pharmaceutical Industries, Ltd.

KF 7013-01: A randomized, double-blind trial investigating the safety and efficacy of intravenous neridronic acid in subjects with complex regional pain syndrome type 1 (CRPS-1) Grunenthal USA, Inc.

ALD403-Clin-005: A Parallel Group, Double-Blind, Randomized, Placebo-Controlled, Dose Ranging Phase 2 Trial to Evaluate the Efficacy, Safety, and Pharmacokinetics of ALD 403 Administered Intravenously in Patients with Chronic Migraine – Alder BioPharmaceuticals

DA9801-DN-001: A phase II Randomized, Double Blind Parallel Group, Dose Ranging Placebo Controlled Study to Assess the Safety and Effectiveness of DA-9801 in the Treatment of Subjects with Diabetic Neuropathy- Dong A.

CLO-290: A Multicenter, Randomized, Double-Blind, Placebo-Controlled, 2-Arm Parallel Group Study to Determine the Efficacy and Safety of Clonidine Hydrochloride Topical Gel, 0.1% in the Treatment of Pain Associated with Painful Diabetic Neuropathy- Bio Delivery Sciences International

Assessment of Potential Mechanisms for Fibromyalgia in Peripheral Tissue Innervation that Could Predict Therapeutic Responsiveness to Minalcipran- Banked Samples (Residual research- specimens; Expedited Review Category 5 with Waiver from the Requirement for Signed Informed Consent Form (CFR 45.46.117c)- Forest Laboratories

GRT-MD-101: A Randomized, Double-Blind, Placebo, and Active-Controlled Study to Evaluate the Safety and Efficacy of GRT6005 in Patients with Moderate to Severe Chronic Pain Due to Osteoarthritis of the Knee- Forest Laboratories

A00081245: A Phase 3 Double-Blind, Randomized, Placebo-controlled, safety and efficacy study of once daily controlled release pregabalin in the treatment of patients with fibromyalgia- Pfizer Pharmaceuticals

C204: A Multicenter, randomized, Double- blind, controlled study to evaluate safety, tolerability and preliminary efficacy of two capsaicin concentration variations of NGX-1998 (10% or 20% w/w) in subjects with Post Herpetic Neuralgia

NIH (STTR): Integration of Immunochemical, Genomic and Transcriptomic Analysis of Human Skin: Phase I study comparing patients with Post Herpetic Neuralgia to controls: Immunolabeling Evaluation of Five Selected Markers in Skin Biopsies

DUL2009-FFMS: Duloxetine (Cymbalta) for Fibromyalgia: An Open-Label Pilot Study to Assess Potential Mechanisms for Fibromyalgia in Peripheral Tissue Innervation that Could Predict Therapeutic Responsiveness to Duloxetine- Eli Lilly and Co.

A4091031: A Phase 2 Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Parallel Group, Proof of Concept Study of the Analgesic Effects of Tanezumab in Adult Patients with Diabetic Peripheral Neuropathy

MIL2009-FFMS: An Open-Label Pilot Study to Assess Potential Mechanisms for Fibromyalgia in Peripheral Tissue Innervation that Could Predict Therapeutic Responsiveness to Minalcipran HCl (Savella)

Durable Education in Chronic Pain Management: Outcomes Study: A randomized, controlled study of initial and ongoing educational interventions on multidimensional assessment and opioid-based management of persistent and breakthrough pain (Exemption 2)

D0475C00009: A Phase IIa, Double-CLind, Randomized, Parallel Group, Multicenter Study to Evaluate the Analgesic Efficacy of 28 Days Oral Administration of AZD2066 Compared with Placebo in Patients with Painful Diabetic Neuropathy- AstraZenica

OPUS (Opioid Utilization Study in Chronic Non-Cancer Pain) – Endo Pharmaceuticals

A0081107: A 17 week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multi-Center Trial of Pregabalin for the Treatment of Chronic Central Neuropathic Pain after Spinal Cord Injury- Pfizer Pharmaceuticals

Use of Topical Lidocaine (Lidoderm 5% Patch) to Reduce Pain in Patients with Diabetic Neuropathy: Does the Density and Subtype of Sodium Channels Affect Response? Endo Pharmaceuticals, Inc.

Validation of Positive Sensory Phenomena in Neuropathic Pain

Principal Investigator- studies completed not at Albany Medical Center

The Use of Botox for Chronic Low Back Pain (2 trials)

The Use of Botox for the treatment of Myofascial Pain associated with RSD (Reflex Sympathetic Dystrophy)

The Use of Clonidine gel for neuropathic pain

The Use of Intrathecal Prialt (Ziconotide) for Chronic Pain

Pregabalin for Painful Diabetic Neuropathy

The Use of Dilaudid (extended release) for Chronic Pain

Alvimopan for the Treatment of Opioid Induced Constipation

The Use of Oral Buccal Fentanyl for Breakthrough Pain

Sub-investigator- Studies at Albany Medical Center

Prospective Study of Conservative Ziconotide Dosing as a First Line Intrathecal Drug Therapy for Neuropathic Pain (PI Julie Pilitsis, M.D., Ph.D.)

Retrospective assessment of dosing of intrathecal Prialt as a first line agent (Expedited Review Category 5 with Waiver from the Requirement to Obtain Informed Consent CFR45.46.116d); collection of retrospective routine medical record information Jazz Pharmaceuticals (PI Julie Pilitsis, M.D., Ph.D.)

Prospective Database: Multidisciplinary Approach to Improve Care for Pelvic Pain - expedited Review Category 5 with Informed Consent; collection of routine medical record information (PI Erin Crosby, M.D.)

VMDN-002: A Phase II, Double-Blind, Randomized, Placebo-Controlled, Multicenter Study to Assess the Safety and Efficacy of VM202 in Subjects with Painful Diabetic Polyneuropathy- Viomed Co Ltd. DbA VM Biopharma (PI James Wymer, M.D., Ph.D.)

Selected Invited Presentations

Course Directed/Co-Directed:

March 2019: Course Director and speaker, Fundamentals of Translational Pain Management for residents, fellows, basic scientists and others, sponsored by the American Pain Society, Milwaukee, WI

March 2018: Course Director and speaker, Fundamentals of Translational Pain Management for residents, fellows, basic scientists and others, sponsored by the American Pain Society, Anaheim, CA.

October 2017: Course Co-Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

October 2017: Course Co-Director and speaker, The Art and Science of Pain Management, sponsored by Albany Medical College/Albany Medical Center

May 2017: Course Director and speaker, Fundamentals of Translational Pain Management for residents, fellows, basic scientists and others, sponsored by the American Pain Society, Pittsburgh, PA.

October 2016: Course Co-Director and speaker, The Art and Science of Pain Management, sponsored by Albany Medical College/Albany Medical Center

September 2016: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2016: Course Director, Fundamentals of Pain Management for residents and fellows, sponsored by the American Pain Society, Austin, TX

September 2015: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2015: Course Director and speaker, Fundamentals of Pain Management for residents and fellows, sponsored by the American Pain Society, Tampa, FL

September 2014: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2014: Chairperson, Scientific Program Committee, American Pain Society Annual Scientific Meeting, Tampa, FL

May 2014: Course Director and speaker, Fundamentals of Pain Management for residents and fellows, sponsored by the American Pain Society, Tampa, FL

May 2014: Symposium Director and speaker: "Square Bolts in Round Holes: Do Clinical Treatment Guidelines Truly Fit Our Patients' Needs? American Pain Society Annual Meeting, Tampa, FL

March 2014: Symposium Director and speaker: "Square Bolts in Round Holes: Do Clinical Treatment Guidelines Truly Fit Our Patients' Needs? American Academy of Pain Medicine Annual Meeting, Phoenix, AZ

September 2013: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2013: Course Director and speaker, Fundamentals of Pain Management for residents and fellows, sponsored by the American Pain Society

May 2013: Co-chairperson, Scientific Program Committee, American Pain Society Annual Meeting

September 2012: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

August 2012: Symposium Director and speaker, Why Skin Matters in Pain Management World Congress on Pain (International Association for the Study of Pain), Milan Italy.

May 2012: Course Director and speaker, Fundamentals of Pain Management for residents and fellows, sponsored by the American Pain Society. I developed this course in 2002 to bring residents from anesthesia, neurology, physical medicine, primary care and emergency medicine together to provide them with a strong didactic foundation in pain medicine in association with the annual scientific meeting of the American Pain Society. Residents and fellows apply for the program (it is competitive), and those who are selected by the program committee for participation attend a two-day course taught by internationally recognized clinicians and scientists prior to the annual scientific meeting of the American Pain Society. They then attend the remainder of the meeting as well as become members of the American Pain Society. They attend on a full scholarship. Approximately 100 residents attended each year. This course was originally named Essentials of Pain Management.

October 2011: Course Director and speaker, Hot Topics in Pain Management sponsored by Albany Medical College/Albany Medical Center

September 2011: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

March 2011: Course Director and speaker, Fibromyalgia Conference held for both health professionals and for patients/caregivers, sponsored by Albany Medical College/Albany Medical Center

May 2011: Course Director and speaker, Fundamentals of Pain Management, for residents and fellows, sponsored by the American Pain Society

September 2010: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2010: Course Director and speaker, Fundamentals of Pain Management, for residents and fellows, sponsored by the American Pain Society

September 2009: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2009: Course Director and speaker, Fundamentals of Pain Management, for residents and fellows, sponsored by the American Pain Society

May 2009: Course Director, Chronic Pain Conference, sponsored by Albany Medical College/Albany Medical Center

September 2008: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

May 2008: Course Director and speaker, Essentials of Pain Management, for residents and speaker, sponsored by the American Pain Society.

February, 2008: Neuropathic Pain: From Bench to Bedside, A Practical Approach to the Management of Neuropathic Pain, sponsored by Albany Medical Center/Albany Medical College, Albany, NY.

September 2007: Course Director and speaker, Current Topics in Primary Care and Neurology, sponsored by Albany Medical College/Albany Medical Center

April-May 2007: Course Director, Essentials of Pain Management, for residents and fellows, sponsored, sponsored by the American Pain Society.

September 2006: American Academy of Pain Management Breakfast Symposium: "Diabetic Peripheral Neuropathic Pain – Mechanisms and Treatment" held during the annual meeting of the American Academy of Pain Management, Orlando, FL.

June 2006: Course Director, Essentials of Pain Medicine, sponsored by the American Academy of Pain Medicine, Newport Beach, CA.- lectures given included: "Chronic Low Back Pain (Interventional)", "Acute and Persistent Pain: Neuroanatomy and Neurophysiology" and "Headache".

May 2006: Course Director, Essentials of Pain Management, for residents and fellows, sponsored, sponsored by the American Pain Society.

March 2006: Course Director, The Multiple Uses of Botulinum Toxin for Clinicians. Sponsored by the North Shore-LIJ Health System.

April 2005: Course Director, Essentials of Pain Management, for residents and fellows, sponsored by the American Pain Society

February 2005: Program Chair, CME Symposium, Chronic Pain Management: Optimizing Care in the Primary Care Setting, Fort Lauderdale, FL.

April 2004: Course Director, Essentials of Pain Management, for residents and fellows, sponsored by the American Pain Society

June 2003: Essentials of Pain Management for the Practicing Clinician: North Shore-LIJ Health System

May 2003: Program Chair, CME Teleconference Series, "The Role of Topical Analgesics in the Treatment of Chronic Pain."

April 2003: Course Director, Essentials of Pain Management, for residents and fellows, sponsored by the American Pain Society

March 2003: American Academy of Neurology Annual Scientific Meeting: Scientific Basis, Rationale and Clinical Applications of Interventional Pain, Honolulu, HI.

March 2003: American Academy of Neurology Annual Scientific Meeting: Pain Management: Principles and Practice, Honolulu, HI.

September 2002: American Academy of Pain Management Annual Meeting: The Use of Botulinum Toxin in the Treatment of Chronic Pain and Headache, Reno, NV.

April 2002: Course Director American Academy of Neurology Annual Scientific Meeting: Pain Management: Principles and Practice, Denver CO

March 2002: Essentials of Pain Management, for residents and fellows, sponsored by the American Pain Society (see explanation above)

March 2002: The use of Botulinum Toxin in the Management of Chronic Pain: North Shore-LIJ Health System

June 2001: Essentials of Pain Management for the Practicing Clinician: North Shore-LIJ Health System

November 2000: Symposium Director and Presenter, 19th Annual Meeting of the American Pain Society, Atlanta, GA: "Botulinum Toxin for the Treatment of Pain."

April 1999: Coordinator, Chronic Pain Parallel Session, 2nd International Congress in Neurorehabilitation, Toronto, CA

November 1998: Moderator symposium, "Botulinum Toxin for Pain Treatment," 17th Annual Scientific Meeting, American Pain Society, San Diego, CA.

January 1998: Management Strategies for Headache Disorders: North Shore University Hospital

January 1995: The Management of Chronic Pain and Headache Disorders: North Shore University Hospital

Bibliography:

Edwards DA, Hendrick TL, Jayaram J, Argoff C, et al. American Society of Enhanced Recovery and Perioperative Quality Initiative Joint Consensus Statement on Perioperative Management of Patients on Preoperative Opioid Therapy. *Anesth Analg*. 2019 Apr 15. Doi. 10.1213/ANE.0000000000004018.

Markman J, Gudin J, Rauck R, Argoff C, et al. SUMMIT-07: a randomized trial of NKTR-181, a new molecular entity, full mu-opioid receptor agonist for chronic low back pain. *Pain*. 2019 Feb 8, doi:10.1097/j.pain.0000000000001517

Kroenke K, Alford D, Argoff C, et al. Challenges with Implementing the Centers for Disease Control and Prevention Opioid Guideline: A Consensus Panel Report. *Pain Med*. 2019 Apr 1;20(4):724-735.

Argoff CE. Identifying Central Sensitization May Not Tell the Whole Story. *Pain Med*. 2018 Oct1;19(10):1907.

Covington E, Argoff C, Stanos SP. Opioids vs Nonopioids for Chronic Back, Hip or Knee Pain. *JAMA*. 2018 Aug7;320(5):507-8.

Bushnell DM, Blum SI, Liedgens H, et al. Mixed-methods development of a new patient-reported outcome instrument for chronic low back pain: part2-The Patient Assessment for Low Back Pain-Impacts (PAL-1). *Pain*. 2018 Oct;159(10):2066-2075.

Wegrzyn EL, Chaghtai AM, Argoff CE et al. The CDC Opioid Guideline: Proponent Interpretation Has Led to Misinformation. *Clin Pharmacol Ther* 2018 Jun;103(6):950-953.

Martin ML, Blum SI, Liedgens H et al. Mixed-methods development of a new patient-

reported outcome instrument for chronic low back pain: part 1- the Patient Assessment for Low Back Pain- Symptoms (PAL-S). *Pain* 2018 Jun;159(6):1045-55.

Chen A, De E, Argoff C. Small Fiber Polyneuropathy is Prevalent in Patients Experiencing Complex Chronic Pelvic Pain. *Pain Med* 2018 Feb 13.

Gharibo C, Argoff C, Markenson JA, et al. Opioid-sparing Effects of SoluMatrix Indomethacin in a Phase 3 Study in Patients with Acute Postoperative Pain. *Clin J Pain* 2018. Feb;34(2):138-144.

Argoff CE, Alford DP, Fudin J et al. Rational Urine Drug Monitoring in Patients Receiving Opioids for Chronic Pain: Consensus Recommendations. *Pain Med* 2018 Jan1;19(1):97-117.

Ramasamy A, Martin ML, Blum SI et al. Assessment of Patient-Reported Outcome Instruments to Assess Chronic Low Back Pain. *Pain Med.* 2017 June 1;18(6):1098-1110.

Argoff C. Pregabalin is effective in reducing fibromyalgia pain. *Evid Based Med.* 2017 Apr;22(2):70-71.

Parsons B, Argoff CE, Clair A, Emir B. Improvement in pain severity category in clinical trials of pregabalin. *J Pain Res.* 2016 Oct 7;9:779-785.

Prusik J, Argoff C, Peng S, Pilitsis JG. Use of Low Dose Ziconotide as First-Line Intrathecal Monotherapy. *Neuromodulation.* 2016 Aug 5. doi: 10.1111/ner.12486.

Belasen A, Youn Y, Gee L, Prusik J, Lai B, Ramirez-Zamora A, Rizvi K, Yeung P, Shin DS, Argoff C, Pilitsis JG. The Effects of Mechanical and Thermal Stimuli on Local Field Potentials and Single Unit Activity in Parkinson's Disease Patients. *Neuromodulation.* 2016 Oct;19(7):698-707.

Argoff CE, Emir B, Whalen E, Ortiz M, Pauer L, Clair A. Pregabalin Improves Pain Scores in Patients with Fibromyalgia Irrespective of Comorbid Osteoarthritis. *Pain Med.* 2016 Jun 1. pii: pnw098.

Stanos S, Brodsky M, Argoff C, Clauw DJ, D'Arcy Y, Donevan S, Gebke KB, Jensen MP, Lewis Clark E, McCarberg B, Park PW, Turk DC, Watt S. Rethinking chronic pain in a primary care setting. *Postgrad Med.* 2016 Jun;128(5):502-15.

Belasen A, Rizvi K, Gee LE, Yeung P, Prusik J, Ramirez-Zamora A, Hanspal E, Paiva P, Durphy J, Argoff CE, Pilitsis JG. Effect of low-frequency deep brain stimulation on sensory thresholds in Parkinson's disease. *J Neurosurg.* 2016 Apr 22:1-7.

Argoff C, McCarberg B, Gudin J, Nalamachu S, Young C. SoluMatrix® Diclofenac: Sustained Opioid-Sparing Effects in a Phase 3 Study in Patients with Postoperative

Pain. Pain Med. 2016 Mar 19.

Cavalier Y, Albrecht PJ, Amory C, Bernardini GL, Argoff CE. Presence of Decreased Intraepidermal Nerve Fiber Density Consistent with Small Fiber Neuropathy in Patients with Central Post-Stroke Pain. Pain Med. 2016 Aug;17(8):1569-71.

Hadley GR, Gayle JA, Ripoll J, Jones MR, Argoff CE, Kaye RJ, Kaye AD. Post-herpetic Neuralgia: a Review. Curr Pain Headache Rep. 2016 Mar;20(3):17. doi: 10.1007/s11916-016-0548-x. Erratum in: Curr Pain Headache Rep. 2016 Apr;20(4):28.

Ramineni T, Prusik J, Patel S, Lange S, Haller J, Fama C, Argoff C, Pilitsis J. The Impact of Spinal Cord Stimulation on Sleep Patterns. Neuromodulation. 2016 Jul;19(5):477-81.

Johnson DA, Argoff CE. Hot Topics in Primary Care: Management of Opioid-induced Constipation. J Fam Pract. 2015 Dec;64(12 Suppl):S4-9. Review.

Argoff CE. Yes, You Can Manage Chronic Pain. Med Clin North Am. 2016 Jan;100(1):xix-xx.

Argoff CE, Brennan MJ, Camilleri M, Davies A, Fudin J, Galluzzi KE, Gudín J, Lembo A, Stanos SP, Webster LR. Consensus Recommendations on Initiating Prescription Therapies for Opioid-Induced Constipation. Pain Med. 2015 Dec;16(12):2324-37.

Argoff C, Arnstein P, Stanos S, Robinson CY, Galer BS, Gould E, Gammaitoni A. Relationship between change in pain intensity and functional outcomes in patients with chronic pain receiving twice daily extended-release hydrocodone bitartrate. J Opioid Manag. 2015 Sep-Oct;11(5):417-24.

Youn Y, Smith H, Morris B, Argoff C, Pilitsis JG. The Effect of High-Frequency Stimulation on Sensory Thresholds in Chronic Pain Patients. Stereotact Funct Neurosurg. 2015;93(5):355-9.

Katz JA, Swerdlow MA, Brass SD, Argoff CE, Markman J, Backonja M, Katz N. Opioids for chronic noncancer pain: A position paper of the American Academy of Neurology. Neurology. 2015 Apr 7;84(14):1503-4.

Argoff CE, Clair A, Emir B, Whalen E, Ortiz M, Pauer L. Prior Opioid Use Does Not Impact the Response to Pregabalin in Patients With Fibromyalgia. Clin J Pain. 2015 Mar 7.

Peppin JF, Albrecht PJ, Argoff C, Gustorff B, Pappagallo M, Rice FL, Wallace MS. Skin Matters: A Review of Topical Treatments for Chronic Pain. Part Two: Treatments and Applications. Pain Ther. 2015 Jun;4(1):33-50.

Peppin JF, Albrecht PJ, Argoff C, Gustorff B, Pappagallo M, Rice FL, Wallace MS.

Skin Matters: A Review of Topical Treatments for Chronic Pain. Part One: Skin Physiology and Delivery Systems. *Pain Ther.* 2015 Jun;4(1):17-32.

Harden RN, Argoff CE, Williams DA. Intrathecal opioids for chronic pain: a call for evidence. *Pain Med* 2014 Nov;15(11):1823-4.

Argoff CE, Kopecky EA. Patients with chronic pain and dysphagia (CPD): unmet medical needs and pharmacologic treatment options. *Curr Med Res Opin* 2014 Dec;30(12):2543-59.

Argoff CE, Viscusi ER. The use of opioid analgesics for chronic pain: minimizing the risk for harm. *Am J Gastroenterol.* 2014 Sep 10;2(1):3-8.

Argoff CE. Recent management advances in acute postoperative pain. *Pain Pract* 2014 June;14(5):477-87.

Argoff CE, Kahan M, Sellers EM. Preventing and managing aberrant drug-related behavior in primary care: systematic review of outcomes evidence. *J Opioid Manag* 2014 Mar-Apr;10(2):119-34.

Argoff C NSAIDS or opioids- damned if you do- damned if you don't? Evidence-based selections to optimize therapeutic goals and minimize harms. *Pain Med* 2013 Dec;14 Suppl 1:S40-2.

Gibosfsky A, Silberstein S, Argoff C et al. Lower-dose diclofenac submicron particle capsules provide early and sustained acute patient pain relief in a phase 3 study. *Postgrad Med* 2013 Sep;125(5):130-8.

Anitescu M, Benzon HT, Argoff CE. Advances in topical analgesics. *Curr Opin Anaesthesiol.* 2013 Oct;26(5):555-61.

Harden RN, Kaye AD, Kintanar T, Argoff CE. Evidence-based guidance for the management of postherpetic neuralgia in primary care. *Postgrad Med* 2013 Jul;124(4):191-202.

Argoff CE, Stanos SP, Wieman MS. Validity testing of patient objections to acceptance of tamper-resistant opioid formulations. *J Pain Res* 2013 May 16;6:367-73.

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Argoff CE, ed. Medical Clinics of North America: Managing Chronic Pain. Elsevier, January, 2016.

Benzon HT, Rathmell JP, Wu CL, Turk DC, Argoff CE, Hurley R, eds/authors. Raj's Practical Management of Pain, 5th edition. Elsevier, March, 2015.

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Argoff CE, McCleane G, eds/authors. Pain Management Secrets, Third Edition. Elsevier, 2009.

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Select Book Chapters:

Smith H, Argoff CE, Kaur M and Nagaraja H. Gabapentinoids and other anticonvulsants In: Neuropathic Pain: Causes, Management and Understanding. Eds: Corey Toth and Dwight Moulin. 2014, Cambridge University Press

Argoff CE, Smith H. Botulinum toxins In: Atlas of Pain Medicine Procedures. Eds: Sudhir Diwan and Peter Staats. 2014, McGraw-Hill.

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Greenberg R and Argoff CE. Abdominal Pain. In: Argoff CE, McCleane G, eds/authors. Pain Management Secrets, Third Edition. Elsevier, 2009, 134-141.

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Hanania MM and Argoff CE. Postoperative Pain Management. In: Argoff CE, McCleane G, eds/authors. Pain Management Secrets, Third Edition. Elsevier, 2009, 155-161.

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Thiessen B, Portenoy RK and Argoff CE. Adjuvant Analgesics. In: Argoff CE, McCleane G, eds/authors. Pain Management Secrets, Third Edition. Elsevier, 2009, 328-341.

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Argoff CE. Diagnosis and Assessment of Pain. In: Opioid Therapy in the 21st Century. Smith H, ed. Oxford University Press, 2008, 11-18.

Jackson III KC and Argoff CE. Skeletal Muscle Relaxants. In: Benzon HT, Rathmell JP, Wu CL, Turk DC, Argoff CE, eds/authors. Raj's Practical Management of Pain, 4th edition. Elsevier, 2008, 693-698.

Lalani I and Argoff CE. History and Physical Examination of the Pain Patient. In: Benzon HT, Rathmell JP, Wu CL, Turk DC, Argoff CE, eds/authors. Raj's Practical Management of Pain, 4th edition. Elsevier, 2008, 177-188.

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Argoff CE. Botulinum Toxin Injections. In: Pain Medicine and Management: Just the Facts, MS Wallace, P Staats, eds. USA: McGraw Hill Companies, 2005, 266-271.

Argoff CE. Assessment and treatment of the myofascial trigger point. In: The Neurologic Basis of Pain. M Pappagallo ed. New York: McGraw-Hill, 2005, 513.

Argoff CE. Interventional Pain Management. In: Pain Management Secrets 2nd edition, R. Kanner, M.D., ed. Philadelphia: Hanley & Belfus, 2003.

Galer B, Argoff CE. Post Herpetic Neuralgia. Mechanisms and Treatment In: Evaluation and Treatment of Chronic Pain, G. Aronoff, M.D., ed. Baltimore: Williams and Wilkins, 1997

Argoff CE Pregnancy, Birth and Delivery and the Post Partum Period in Women with Neurologic Conditions In: Sexual Rehabilitation in the Neurologically Impaired Patients, Mindy Aisen, M.D., Francois Eid, M.D., eds. Totowa: Humana Press, Inc., 1997

Patel, S.C., Barton, N.W., Argoff, C.E. Niemann-Pick Disease (Types A,C,D), Gaucher Disease (Types 2 and 3) and Wolman's Disease. Handbook of Clinical Neurology, P.J. Vinken, G.W., Bruyn, Klawans eds. Amsterdam: Elsevier Science Neurology Publishing Co., Inc. Spinocerebellar Degenerations, 1992

Brady, R.O., Argoff, C.E., Pentchev, P.G. Spingomyelin Lipidoses: Niemann-Pick Disease and Related Disorder The Molecular and Genetic Basis of Neurological Disease, R.N., Rosenberg, S.B., Prusiner, S., DiMauro, A.L., Barchi, L., Kunkel, eds. Boston: Butterworths, 1991

GUEST EDITOR:

Clin J Pain 2002 Nov-Dec; 18(6) Supplement: The Use of Botulinum Toxin in the Management of Chronic Pain

Current Pain and Headache Reports 2002 Oct; 6(5): Myofascial Pain

SELECTED LECTURES GIVEN:

May 2018: Headache Pathophysiology, World Institute of Pain Scientific Meeting, Dublin, Ireland

April 2018: Emerging Treatments for Neuropathic Pain, New York State Pain Society Annual Meeting, Rye, NY

April 2018: Emerging Treatments for Neuropathic Pain, American Academy of Pain Medicine Annual Scientific Meeting, Vancouver, B.C.

March 2018: Clinical Considerations: American Pain Society Fundamentals of Translational Pain Medicine, Anaheim, CA

January 2018: Management of the Patient on Systemic Opioids, North American Neuromodulation Society Annual Meeting, Las Vegas, NV

October 2017: Albany Medical Center Neurology Grand Rounds: "What's New in Pain Management?"

September 2017: Erythromelagia, Pain Week, Las Vegas, NV

September 2017: Lost in Translation: Making Sense of Clinical Treatment Guidelines, Pain Week, Las Vegas, NV

September 2016: Why Skin Matters, Pain Week, Las Vegas, NV

September 2015: Keynote Speaker, Pain Week, Las Vegas, NV: "The Deli Can Wait"

September 2015: Small Fiber Neuropathies, Pain Week, Las Vegas, NV

November 2014: Albany Medical Center Neurology Grand Rounds: "But I thought that botulinum toxin relaxes muscle..."

October 2014: "Botulinum toxin: Newer therapeutic prospects in neuropathic pain and migraine and potential mechanisms of action" International Association for the Study of Pain World Pain Congress, Buenos Aires, Argentina

October 2014: "Can Opioid Analgesics be Used Rationally for Chronic Pain?" Champlain Valley Medical Center: EXPLORE –Pain Management in the 21st Century

September 2014: "Headache Evaluation, Examination and Treatment" Pain Week Las Vegas, NV

September 2014: "Small Fiber Neuropathies" Pain Week Las Vegas, NV

September 2014: "Controversies in Pain Medicine- Is Interventional Pain Management Over or Under-Utilized" Pain Week Las Vegas, NV

September 2014: "Medical Marijuana in the Treatment of Central Nervous System Disorders" Pain Week Las Vegas, NV

July 2014: Pain Management for Primary Care Providers: "Understanding Pain Mechanisms, Classification of Pain and How This Impacts Treatment" Orlando, FL

July 2014: Pain Management for Primary Care Providers: "Developing Treatment Plans for People Experiencing Chronic Pain: A Case-Based Approach" Orlando, FL

June 2014: New York State Pain Society Annual Meeting: "Choosing appropriate candidates for short and long-term treatment with opioid analgesics"

April 2014: Nathan Littauer Hospital Grand Rounds: "An Overview of Pain Management"

April 2014: Bassett Cooperstown Hospital Grand Rounds: "An Overview of Pain Management"

March 2014: Hospital for Special Surgery Rheumatology Grand Rounds: "Opioid Analgesic Therapy: Maximizing benefit, minimizing harm"

May, 2010: California Academy of Family Physicians' 62nd Annual Scientific Assembly: Palliative and Hospice Care: San Francisco, CA

May, 2010: American Pain Society Annual Meeting: Painful Diabetic Polyneuropathies: From Bench to Plausible Management (moderator): Baltimore, MD

April 2010: American Academy of Neurology Annual Meeting: Interventional Management of Common Spine Disorders: Toronto, Ontario, Canada

April, 2009: American Academy of Neurology Annual Meeting: Neuropathic Pain: Diagnostic Strategies and Treatment Controversies: Seattle, WA.

April 2009: American Academy of Neurology Annual Meeting: Interventional Management of Common Spine Disorders: Seattle, WA.

April 2009: American Academy of Neurology Annual Meeting: Challenging Pain Cases in Neurology Practice: Seattle, WA.

August 2008: 12th World Pain Congress: The Need for Individualized Opioid Therapy: Pharmacogenomics and Pain: Clinical Implications of Opioid Pharmacogenetics: Glasgow, Scotland

May 2008: American Pain Society 27th Annual Scientific Meeting: Treatment Strategies for Patients Not Responding to Increased Doses of Opioids: An Analgesic Roadmap for Clinicians: Tampa, FL

May 2008: American Pain Society 27th Annual Scientific Meeting: Multidrug Therapy for Chronic Pain: Scientific and Clinical Considerations: Tampa, FL.

May 2008: American Pain Society 27th Annual Scientific Meeting: Lumbar Epidurals for Radicular Low Back Pain: Ongoing Controversy and Conflicting Evidence for and Against their Use in Radiculopathy- Can They Be Used Effectively in the Daily Practice of Pain Management?, Tampa, FL.

April 2008: American Academy of Neurology 60th Annual Meeting: Challenging Pain Cases in Neurology Practice: Chicago, IL

April 2008: American Academy of Neurology 60th Annual Meeting: Neuropathic Pain: Diagnostic Strategies and Treatment Controversies: Chicago, IL

April 2008: Western Pain Society Annual Meeting: Headache and The Management of Breakthrough Pain, Portland, OR

October, 2007: 5th Joint National RAMA and RADA Conference: The Art and Science of Managing Neuropathic Pain, Chicago, IL

April 2007: Nassau County Gerontology Workshops- Controlling Pain: A Comprehensive Approach Albertson, NY

October 2006: Speaker at West Virginia Pain Summit Charleston, WV

September 2006: Internal Medicine Grand Rounds- "The Art and Science of Managing Neuropathic Pain," Huntington Hospital, Huntington, NY

September 2006: Washington D.C. Regional VA Pain Management Conference, Maritime Institute Conference Center, Linthicum, M.D.: The Art and Science of Managing Neuropathic Pain.

June 2006: 32nd Annual Family Medicine Update: The Nuts and Bolts About Headache, Stony Brook University Medical School, Stony Brook, NY

April 2006: American Academy of Neurology Annual Scientific Meeting, Speaker in "Debates on Headache" course, San Diego, CA.

March, 2006: Neurological Association of New Jersey. "Neuropathic Pain, " West Orange, NJ

December 2005: Speaker at Eleventh Annual Multidisciplinary Pain Medicine Update Meeting, Johns Hopkins University Medical Center, Baltimore, MD: "Neuropathic Pain – Treatment Strategies" and "Common Pain Conditions in the Elderly and Treatment Strategies."

December 2005: Medical Grand Rounds, Good Samaritan Hospital, W. Islip, NY: "Pain Management Update."

June 2005: Medical Grand Rounds, North Shore University Hospital, Manhasset, NY: "The Art and Science of Managing Neuropathic Pain."

May 2005: Interdisciplinary Pain Conference, Sao Paulo, BRAZIL, "Topical Analgesics in Pain Management and The Use of Botulinum Toxins as Analgesics."

April 2005: American Academy of Neurology Annual Scientific Meeting, Speaker, "Pharmacological Approaches to Pain Management," course, Miami Beach, FL.

April 2005: American Academy of Neurology Annual Scientific Meeting, Speaker, "Pain Management: Principles and Practice," course, Miami Beach, FL.

February 2005: American Academy of Pain Medicine's 21st Annual Meeting, "Chronic Pain Management in the Elderly: Linking Mechanisms and Guidelines to the Realities of Clinical Practice: Pharmacologic Treatment of Common Chronic Conditions in the Elderly: Osteoarthritis, Low Back Pain and Musculoskeletal Pain," Palm Springs, CA.

February 2005: Anesthesia Grand Rounds, "The Use of Toxins to Control Pain, "Brigham and Women's Hospital, Boston, MA.

October 2004: Medicine Grand Rounds, UMDNJ, Newark, NJ, "Managing Chronic Pain in the Hospital and Outpatient Settings."

July 2004: 2nd Annual Comprehensive Pain Board Review Symposium, University of Wisconsin Medical School, Madison, WI: "Neuropathic Pain."

May 2004: Department of Veteran Affairs Annual Nurse Practitioner and Physician Assistant Conference, Northport, NY: "Pain is Inevitable, Misery is Optional. Managing Acute and Chronic Pain."

May 2004: Update in Headache & Pain Management, A Review Course for Clinicians, Michigan Head Pain and Neurological Institute, Dearborn, MI: "Fibromyalgia and Related Syndromes."

April 2004: The Annual Meeting of the Kansas Association of Osteopathic Medicine, Overland Park, KS: "Use of Antidepressants in Patients with Chronic Low Back Pain and Pain Control in Patients with Osteoarthritis and Diverticular Bleeding."

April 2004: American Academy of Neurology Annual Scientific Meeting, Speaker in "Pharmacological Approaches to Pain Management," course, San Francisco, CA.

April 2004: Speaker at "Advances in Managing Opioid Analgesic Therapy: Innovative Treatment Options and Strategies for Chronic Pain" Symposium, AMCP 16th Annual Meeting, San Francisco, CA.

March 2004: Medicine Grand Rounds, North Shore University Hospital at Glen Cove, Glen Cove, NY: "New Concepts in Pain Mechanisms: Implications for Treatment."

March 2004: Medicine Grand Rounds, Newark Beth Israel Medical Center, Newark NJ: "Managing Chronic Pain in the Hospital and Outpatient Settings."

February 2004: Frontiers of Medicine, Wyoming Medical Center, Jackson Hole, WY: "Chronic Pain Management."

January 2004: Neurological Update 2004, University of Miami School of Medicine, Miami, FL: "Pain is Inevitable, Misery is Optional: The Use of Narcotics and Analgesics in Pain Management, and "The Use of Adjunctive Medications in Pain Management."

December 2003: Grand Rounds, "Managing Chronic Pain in the Hospital and Outpatient Setting," Danbury Hospital, Danbury, CT.

November 2003: Medical Grand Rounds, "Managing Chronic Pain in the Hospital and Outpatient Setting," Harbor Hospital, Baltimore, MD.

October 2003: Medical Grand Rounds, "Evidence-Based Approach to Pain Management in Hospital and Outpatient Settings," St. Johns Episcopal Hospital, Far Rockaway, NY.

November 2002: 5th International Conference on the Mechanisms and Treatment of Neuropathic Pain, Bermuda: "Topical Analgesics."

November 2002: American Society of Regional Anesthesia and Pain Medicine: Annual Meeting: Breakfast Symposium: NMDA Receptor Mediated Central Sensitization and Tolerance: Scientific Findings and Clinical Implications."

November 2002: Speaker at Primary Care Update in Pain Management Part II Conference: "Effective Treatment Strategies for Pain of Neuropathic Origin", New Jersey School of Osteopathic Medicine, Stratford, NJ.

November 2002: Lecturer at Pain Management Strategies for the Primary Care Practitioner sponsored by NYU School of Medicine

November 2002: Pennsylvania Academy of Family Physicians Clinical Education Series, "Pain Management," Baltimore, MD.

Twice annually Temple University Family Medicine Review Course since 2001 through the present. Held in Lancaster, PA

September 2002: NMDA Receptor Mediated Analgesia Dinner symposium at American Academy of Pain Management Annual Meeting, Reno, NV

August 2002: Speaker at symposium in association with the IASP meeting entitled "The Management of Chronic Muscular Pain with Botulinum Neurotoxins." San Diego, CA.

2002: Midwest Pain Society Annual Meeting: "NMDA Receptor Mediated Central Sensitization and Tolerance: Scientific Findings and Clinical Implications."

March 2002: Massachusetts Association of Physician Assistants: "Selected Topics in Pharmacology: Indications and Use of Muscle Relaxants."

November 2001: Department of Medicine Grand Rounds: "New Advances in the Treatment of Musculoskeletal Pain," Crozier Chester Medical Center, Upland, PA.

October 2001: Legal Issues Nursing Conference at New York Hospital Medical Center of Queens: "Legally Speaking: Protecting Ourselves and Our Patients." October 2001: American College of Nurse Practitioners National Clinical Symposium, "Current Issues in the Management of Musculoskeletal Pain."

September 2001: Internal Medicine Grand Rounds, Graduate Hospital, Philadelphia, PA: "Non-Malignant Pain Management."

September 2001: Long Island Chapter, National Multiple Sclerosis Society, Melville, NY: "Pain Management and MS."

August 2001: Surgical Grand Rounds, Hahnemann University Hospital, Philadelphia, PA: "Pain Management in Post-Operative Patients."

August 2001: CME Pain Management Lecture Series: "Advances in Treatment of Neuropathic Pain," Provident Hospital, Southfield, MI.

June 2001: Pain Management Update: Opportunities, Obstacles and Outcomes, LIU/Arnold & Marie Schwartz College of Pharmacy and Health Sciences, Jamaica, NY: "Advances in the Treatment of Musculoskeletal Pain."

April 2001: CME Course, Spectrums of Managing Spasticity and Painful Spasms, Rehabilitation Hospital of Connecticut, Mystic, CT: "The Use of Botulinum Toxins for Pain Reduction."

April 2001: 18th Annual Meeting of the American Association of Orthopedic Medicine Conference, Memphis, TN: "Understanding and Treating Headaches."

March 2001: Family Practice Grand Rounds, Morristown Memorial Hospital, Morristown, NJ: "Comparison of Pharmacokinetics of Long-Acting vs. Short-Acting Opioids."

March 2001: Medical Grand Rounds, "Sickle Cell and Pain," Brooklyn VA Medical Center, Brooklyn, NY.

February 2001: CME Lecture, Beth Israel Medical Center, New York, NY: "Re-evaluating Neuropathic Pain Treatment Algorithms."

January 2001: Tumor Conference, Mary Immaculate Hospital, Queens, NY: "Management of Chronic Pain in the Cancer Patient."

December 2000: Grand Rounds, St Charles Hospital, Port Jefferson, NY: "Management of Neurological Pain."

November 2000: Psychiatry Grand Rounds, Pain is Inevitable, Misery is Optional", Nassau County Medical Center, East Meadow, NY.

September 2000: Participation as a faculty member in the American Pain Society Regional Course for the Primary Care Provider held in Chicago, IL.

September 2000: Medicine Grand Rounds, St Johns Hospital: "Opioid Pain Management."

September 2000: Update on Drug Therapy, From Traditional to Alternative Medicine, Maimonides Medical Center, Brooklyn, NY: "Management of Chronic Non-Malignant Pain."

September 2000: Medicine Grand Rounds, Barnert Hospital, Paterson, NJ: "Chronic Pain Management."

June 2000: 4th International Conference on the Mechanisms and Treatment of Neuropathic Pain, "New Analgesics for Neuropathic Pain- Lidocaine Patch," Washington, D.C.

May 2000: 2nd Annual Pain Management Conference, UMDNJ School of Osteopathic Medicine, Stratford, NJ: "Botox: An Approach to Chronic Pain" and "Reflex Sympathetic Dystrophy."

2000: Annual Educational Conference, "Pain Management," National Association for Healthcare Quality.

January 2000: Medical Grand Rounds, "Chronic Pain Management," Reading Hospital and Medical Center, Reading, PA.

September 1999: Participation as a faculty member for the Pain Management for the Primary Care Clinician: American Pain Society Regional Meeting, New York, NY

June 1999: 2nd International Conference on Mechanisms and Treatment of Neuropathic Pain, Washington, D.C.: "The Neurologists Role in the Pain Clinic."

April 1999: Neurological Interventional Therapies Workshop, New England Baptist Hospital, Boston, MA: "Mechanisms of Pain."

February 1999: Neurology Grand Rounds, "Lower Back Pain," University of Wisconsin Hospital, Madison, WI.

December 1998: Medical Grand Rounds, "Anticonvulsants: Current Applications in Neurological Conditions," Staten Island University Hospital, Staten Island, NY.

October 1998: Anesthesia Grand Rounds, "Anticonvulsants: Current Applications in Neurological Conditions," Emory University Hospital, Atlanta, GA.

September 1998: Medical Grand Rounds, "Anticonvulsants: Current Applications in Neurological Conditions," St Johns Riverside Hospital, Yonkers, NY.