

CURRICULUM VITAE' (Updated August 21, 2018)

Jeffrey Fudin, RPh, BSPHarm, PharmD, DAIPM, FCCP, FASHP, FFSMB

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VAMC Office, (Gov't Related Business Only, per request)

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EDUCATION:

DEGREES:

Albany College of Pharmacy (Union University): Pharm.D. Completed May 1998

Albany College of Pharmacy (Union University): B.S. Pharmacy completed May 1981

Pharm.D. Rotations:

06/16/97-07/25/97: Counsel Administration with the New York State Counsel of Health-system Pharmacists
New Karner Road Albany, NY
Preceptor: Mary Andritz, Pharm.D.

07/28/97-08/29/97: Anesthesiology/Pain Management at Albany Medical Center Hospital, AMCH Pain Clinic (Hackett Blvd, Albany), and VAMC (Holland Ave, Albany)
Preceptor: Howard S. Smith, M.D.

01/05/98-02/06/98: Ambulatory Care, The Endocrine Group
4 Executive Park Drive
Albany, NY 12203
Preceptor: Michael Kane, Pharm.D.

02/09/98-03/13/98: HIV / Pharmacotherapy
Albany Medical Center Hospital
New Scotland Ave.
Albany, NY 12208
Preceptor: Bonnie Purdy, Pharm.D.

03/23/98-04/24/98: Clinical Pharmacy
St. Peter's Hospital
New Scotland Ave.
Albany, NY 12208
Preceptor: Lynn Hamil, Pharm.D.

04/27/98-05/29/98: Cardiology
Albany Medical Center Hospital
New Scotland Ave.
Albany, NY 12208
Preceptor: Laura Bartels, Pharm.D.

Veterans Administration Medical Center: Course: Management Assessment Training Program, completed 1987.

Clinical Oncology Pharmacy Fellowship. Upstate Medical Center, SUNY, Syracuse, New York. Activities Included: Admixture of chemotherapeutic medications, monitoring blood parameters of oncology and hematology patients and recommending necessary adjustments to the attending oncologist. Lectured to pharmacists, medical students, oncology fellows, nurses, and physicians. Participated in clinical research with cancer drugs. Participated in daily rounds and monitored drug therapy for those patients who were referred to oncology service. Completed October 1981

AWARDS

2017: Fellow to the Federation of State Medical Boards

2015: Fellow to the American Society of Health-system Pharmacists.

2015: March 2015 The Pain Community Hero. <http://paincommunity.org/>

2014: American Academy of Pain Medicine's (AAPM) Presidential Commendation, in recognition as "a voice for scientific integrity and an advocate for people in pain." Presented March 8, 2014 at the AAPM Annual Meeting in Phoenix AZ.

(Internal VAMC Awards since 1982, too numerous to list; available upon request only)

2011: Cambridge Who's Who Among Executives and Professionals.

2010: Cambridge Who's Who Among Executives and Professionals.

2010: Elected Finalist in the "Lifetime Achievement" category of the Next-Generation Pharmacist Awards.

2010: Fellow to the American College of Clinical Pharmacy.

2009: Who's Who Among Executives and Professionals, 2008-2009 "Honors Edition".

2008: Who's Who Among Executives and Professionals, 2008-2009 "Honors Edition".

- 2007: Who's Who in Medicine and Healthcare
- 2006: Who's Who in Medicine and Healthcare
- 2006: International Health Professional of the Year. Nominated by the Research and Advisory Board at the International Biographical Centre in Cambridge, England.
- 2006: Honors Edition of The United Who's Who Registry.
- 2005: The Outstanding Service to the Profession of Pharmacy Award honoring an alumnus or alumna who has made an exceptional contribution to the profession.
- June 16, 2003: NYS Assembly Bill #K1117 ADOPTED: "Honoring Dr. Jeffrey Fudin upon the occasion of his selection as Grand Marshal of the Albany Memorial Day Parade in Albany, NY. WHEREAS, Individuals who give of their time and energies and serve the best interests of their communities are an asset beyond remuneration and cannot be sufficiently extolled; and WHEREAS, Dr. Jeffrey Fudin has given not only of his time and energies but also of his competence, intelligence and leadership and consequently has been designated for special honor; and WHEREAS, This Assembled Body is justly proud to honor Dr. Jeffrey Fudin upon the occasion of his selection as Grand Marshal of the Albany Memorial Day Parade; and WHEREAS, Dr. Jeffrey Fudin was selected for this esteemed honor not only for his devoted work at the Stratton Veterans Administration Medical Center, but also for his dedication to the protection of patients at the VA..."
- 2003: Appointed as Grand Marshal for the 5/26/03 Albany Memorial Day Parade by the City of Albany Joint Veterans Committee, for display of bravery in defending rights of veteran patients.
- 2003: Certificate of Commendation presented for serving as faculty at the Dept. of Veterans Affairs 3rd National Leadership Conference on Pain Management and End of Life Care.
- 2001: Certificate of Appreciation for Professional Commitment and Expertise, and for Partaking in Educational Efforts to Provide High-Quality Care through Better Pain Management to the Veterans Served by the VA New York Harbor Healthcare System. Presented at the New York Campus, VA NYHHS June 27, 2001.
- 2001: Certificate of Commendation presented for serving as faculty at the Dept. of Veterans Affairs 2nd National Leadership Conference on Pain Management and End of Life Care.
- 1997: Phi Delta Chi, Distinguished Pharmacist Alumni of the Year
- 1996: Unrestricted Research Grant, Dilaudid Stability and Cost Effectiveness. Granted by Knoll Pharmaceuticals
- 1992: Who's Who Among Rising Young Americans
- 1991: Who's Who Among Rising Young Americans
- 1990: Who's Who Among Rising Young Americans

- 1989: MSD Award for Superior Achievement in Pharmacy Practice
- 1986: Syntex Pharmacist Preceptor of the Year Award
- 1981: Smith, Kline and French Award for Superior Achievement in Clinical Pharmacy
- 1981: Clinical Oncology Pharmacy Fellowship awarded by the American Cancer Society through Upstate Medical Center

EXPERIENCE

03/01/2016 – Chief Executive Officer & Chief Medical Officer, Remitigate LLC
Delmar, New York 12054

07/1982 – present: Samuel Stratton Dept. of Veterans Affairs Medical Center
113 Holland Avenue Albany, New York 12208

- 6/1/2016-present: WOC (without compensation) volunteer in same capacity as listed below
- 4/2012-present: Director, PGY2 Pharmacy Pain Residency
- 6/1994-present: Clinical Pharmacy Specialist, Pain Management
- 7/2002-10/2003: Clinical Pharmacy Specialist, Primary Care & Pain Mgmt
- 3/1987-6/1994: Clinical Pharmacy Specialist, Research/Oncology/Hematology
- 7/1982-3/1987: Staff Pharmacist

Current Activities Focus: The Clinical Pharmacy Specialist (CPS) works in close collaboration with medical staff members in the management of various acute and chronic pain disease states. After a diagnosis/diagnoses has/have been made and is/are documented in the electronic medical record, a specific request may be made by a physician or mid-level for the CPS to monitor a disease state(s) or assess a medication regimen and adjust, initiate, or discontinue therapy for individual patients. The CPS may also order and interpret lab tests necessary to monitor and support drug therapy upon such a request.

Specific Patient Care Activities Include:

- Conduct comprehensive appraisals of patients' health status by taking health and drug histories. Relevant findings must be documented in the patient's medical record.
- Evaluate drug therapy through direct patient care involvement, with clinical assessment and objective findings relating to patient's responses to drug therapy and communicating and documenting those findings and recommendations to appropriate individuals and in appropriate records (i.e., patient's medical record).
- Develop and document therapeutic plans utilizing the most effective, least toxic, and most economical medication treatments.
- Provide patient and health care professional education.
- Order, perform, review, and analyze appropriate laboratory tests and other diagnostic studies necessary to monitor and support the patient's drug therapy.

- Prescribe medications, devices, and supplies to include, but not limited to: initiation, continuation, discontinuation, monitoring and altering therapy, based upon established protocols.
- Perform the physical measurements necessary to ensure the patients appropriate clinical responses to drug therapy.
- Assist in the management of medical emergencies, adverse drug reactions, and acute and chronic disease states.
- Identify and take specific corrective action for drug-induced problems. Order consults (i.e., Anesthesia interventionalists, imaging, dietician, social work, psychology), as appropriate, to maximize positive drug therapy outcomes.

Activities have previously and/or currently include:

- Development of PGY2 Pharmacy Pain Residency
- Develop and incorporate telemedicine options for remote VA patients
- Monthly inservices to primary care providers on various pain topics.
- Pharmacokinetic screening and serum analysis of opioid therapy
- Development and implementation of Stratton VA Pain Clinic
- Ambulatory Care Chronic Pain Clinic
- Participate in daily pain management inpatient rounds to monitor and review pain management regimens on those patients referred to our service for chronic or acute pain management and/or PCA
- Pain Management Multidisciplinary Team Member
- Pain Management Multidisciplinary Team Chair
- Director, Pharmaceutical Care Pain Clinic
- Write Drug Utilization Review (DUR) and guidelines
- Coordinate and ran weekly Pharmaceutical Care Neurosurgery Pain Management Clinic. Activities
- Include patient evaluation, counseling, physical assessment, prescription writing and patient follow-up.
- Design, conduct and participate in drug studies, audits and evaluations concerning the utilization review of analgesic and antineoplastic drugs under the auspices of Therapeutic Agents and Pharmacy Review Committee, Quality Assurance and Research and Development Committee.
- Instrumental in the development of a Multidisciplinary Pain Management Team. This included development of policies and procedures in conjunction with other health professionals, patient rounds, pain evaluation, and the management of pain with a multidisciplinary team. In addition, all referrals for Patient Controlled Analgesic (PCA) ambulatory infusion pumps had been coordinated, monitored, and followed up by the Oncology Pharmacist.
- Member of the VAMC VISN Eastern Regional Pain Task Force.
- Initiated, developed, and supervised the Oncology Satellite. This included establishing a multidisciplinary team and writing initial policies for safe handling of cytotoxic drugs within the VA Hospital. We were the first hospital in the northeastern New York State to establish such policies, and our policies were used as a model for pharmacies throughout New York State.
- Evaluate drug literature by analysis of experimental design and conclusions, in order to compare and contrast therapeutic regimens and uses for new drug therapies.

- Designed antineoplastic drug dosage regimens utilizing pharmacokinetic principles and specific patient parameters, when requested by the attending physician.
- Provided drug information to various health care providers on all investigational drugs being utilized in the Medical Center and ensured availability of current drug information in Pharmacy, Medical and Nursing Services. Responsibilities included meeting with various investigative sponsors, writing and editing protocols, educating pharmacy, nursing and medical staff, and procuring, preparing, and dispensing medication.
- Prepared bulletins, newsletters and policy memos to inform physicians, nurses, pharmacists and other staff on the appropriate utilization of medications.
- Served as a consultant to the Therapeutic Agents and Pharmacy Reviews Committee on the selection of antineoplastic drugs for formulary listing.
- Attended Tumor Board meetings on a regular basis and aided in the selection of appropriate antineoplastic drug therapy.
- Developed and co-coordinated the high tech Homecare department at the V.A.
- Coordinated Pharmacy Grand Rounds, educational seminars for pharmacy, medical, and nursing staff.

Committees Have or Currently Include:

- Cancer Committee
- Chairman, Pain Oversight Committee – VAMC, Albany
- Clinical Pharmacy Practice Office (CPPO) Pain Management SME Workgroup
- Education Subcommittee (Implementing Pain as “The Fifth Vital Sign”)
- Ethics Committee
- Integrated Ethics Committee
- Human Studies Committee (voting member and non-voting member)
- Infectious Disease Journal Club
- National VA Pain Committee
- National VA Pain Research Committee
- National VA Pain Website Development Committee
- National VA Institute for Health Care Improvement (IHI) Pain Task Force
- National VA Pharmacy Pain Education Committee
- Palliative Care Committee
- Pharmacy and Therapeutics Committee
- Pressure Ulcer Committee
- Research and Development (voting member and non-voting member)
- Stratton VAMC Integrated Ethics Committee
- Surgical PCA Task Force
- Tumor Board
- VISN NE United States Pain Committee – VAMC, Albany

Primary Care Responsibilities:

- Medication Monitoring
- Polypharmacy
- Adverse drug reactions
- Drug interactions

- Medication compliance
- Laboratory monitoring for patients newly placed on antilipemic agents and dose titration as necessary.
- Frequent vital sign and laboratory monitoring for patients newly placed on antihypertensive agents and dose titration as necessary.
- Diabetic or asthmatic patients needing follow-up after a medication regimen change.
- Patient follow-up after recent formulary agent change to a nonformulary agent.
- Interim therapeutic drug monitoring for agents such as phenytoin, carbamazepine, digoxin, theophylline, etc.
- Patients recently initiated on warfarin in need of extensive education.

04/2002-6/2002: Regional Medical Liaison for Amgen – Upstate New York Area (subcontract through BestMed, a subsidiary of Saachi and Saachi)

02/1989 – 10/1989:

Director Clinical Pharmacy Affairs

O.P.T.I.O.N. Care

57 Phila Street

Saratoga, N.Y. 12866

O.P.T.I.O.N. Care

58 Hackett Boulevard

Albany, N.Y. 12208

Activities Include:

- Planning, setting up, and registering 2 pharmacies at locations listed above. Pharmacies to include clean rooms and all appropriate and equipment as required by New York State and Federal law.
- Extensive 2 week course in I.V. admixture, home health care design, billing, clinical pharmacy in the home care setting, review of ambulatory pumps, review of drug therapies in the home setting including central and peripheral lines, etc. This course took place at O.P.T.I.O.N. Care corporate office in Chico, California.
- As an owner, all requirements for development of a Professional corporation had to be met as well as those tax and other legal requirements to commence a professional business in New York State.
- Professional activities included marketing, joint visits to physician clinics with patients. House calls to patients' homes, parenteral drug administration to patients, programming pumps, admixing medication, inventory control.

11/1981-07/1982: Staff Pharmacist, The Cornwall Hospital, Cornwall, New York.

ACADEMIC AFFILIATIONS & TEACHING ACTIVITIES

October 1998-present: Adjunct Associate Professor of Pharmacy Practice, **Albany College of Pharmacy & Health Sciences/Union University in Albany NY.**

- Initiated new elective course in Pain Management Therapeutics (1/2012), *Pain Management Pharmacotherapy PHM 551.*

April 2014-present: Adjunct Associate Professor, **Western New England University College of Pharmacy**

July 2013-present: Adjunct Assistant Professor of Pharmacy Practice, **University of Connecticut School of Pharmacy in Storrs CT.**

- Instructor for elective course in Pain Management, *Advanced Clinical Concepts in Pain Management PHRX 4055.*

2008 – present: Adjunct Advanced Practice Clinical Instructor for Advanced Pharmacy Practice, **State University of New York College of Pharmacy at Buffalo NY.**

2008 – 2010: Adjunct Advanced Practice Clinical Instructor for Advanced Pharmacy Practice, **St. John Fisher College of Pharmacy at Rochester NY.**

January 1997-present: Adjunct Instructor for Advanced Pharmacology (NSG 622), **SAGE** Graduate School of Nursing, Nurse Practitioner Program. Albany, NY

June 1997-2005: Adjunct Instructor for Psychopharmacology (NSG 624), **SAGE** Graduate School of Nursing, Nurse Practitioner Program. Albany, NY

January 2000-2004: Adjunct Instructor for Pharmacotherapeutics. **SAGE** Graduate School of Physical Therapy

October 2003-August 2004: Preceptor, **Albany Medical College.** Evidence Based Health Care, SURGERY. Instructor, Palliative Care Medical Fellowship

January 1999-July 2000:
Anesthesiology Medical Fellowship Committee, **Albany Medical College.** Albany, NY

January 1998-2001:
Hudson Valley Community College (Physician Assistant Program w/ Albany Medical College)
Instructor for Geriatric Pharmacology. Albany, NY

PROFESSIONAL ASSOCIATIONS (past and present)

- American Cancer Society, Northeastern Chapter
- American Academy of Pain Medicine (current)
 - Director-at-Large for the 2016-2017 American Academy of Pain Medicine Foundation Board of Directors
- American Academy of Pain Management (current)
- American College of Clinical Pharmacy, since 7/98 (current)
 - Pain Practice Research Network Group (Chairman), ACCP, 9/1998-11/1999, 11/2003-10/2004)
 - Pain Practice Research Network Group (Sec-Treas), ACCP, 11/99-11/2003
- American Hospice Association
- American Pain Society
- American Pharmaceutical Association (current)
- American Society of Health-system Pharmacists, since 1978 (current)

- International Society of Chronobiology
- New York State Pain Society (current)
- Northeastern NYS Council of Health-system Pharmacists (current)
 - (Public and Legal Affairs Representative for Northeastern Chapter, since 1982- 1992)
- NYS Chapter of American College of Clinical Pharmacy
- Pharmaceutical Society of the State of New York (PSSNY)
- Phi Delta Chi Pharmaceutical Fraternity (Faculty Advisor May 1987 - Present) (current)
- The New York Academy of Sciences

PROFESSIONAL LICENSURE AND BOARD CERTIFICATION

- Registered Pharmacist in New York State (License 34085)
- Credentialed as a Diplomate to the Academy of Integrative Pain Management
- Diplomate to the American Academy of Pain Management
- American Heart Association BLS for Healthcare Providers (CPR and AED), certified through 01/2019
- TIRF REMS Access Program, Recertification 04/25/2017

SCHOLARLY ACTIVITY

- **PUBLICATIONS**

Peer Reviewed and Professional Journals (Pharmacy, Medical, Scientific, Nursing, Other)

Bettinger JJ, Wegrzyn EL, **Fudin J**. Urine drug monitoring. Practical Pain Management. 2018. September 18(6):52-55.

Donovan SM, Raouf M, **Fudin J**. How can cyproheptadine help to manage complications in chronic pain treatment? Practical Pain Management. 2018. September 18(6) In print.

Bettinger JJ, Trotta ND, **Fudin J**, Wegrzyn EL, Schatman ME. Understanding the differences between pharmaceutical and illicit fentanyl and their analogues could save the opioid crisis. Practical Pain Management. 2018. July/August 18(5):59-67.

Bettinger JJ, Wegrzyn EL, **Fudin JF**. Urine Drug Monitoring. Practical Pain Management. 2018 July/August. In print.

Raouf M, Dragic L, **Fudin J**. Given the potential role for abuse, should reliance on gabapentin / pregabalin be limited? Practical Pain Management. 2018. April/May 18(3):22-23.

Raouf M, Bettinger JJ, **Fudin J**. A Practical Guide to Urine Drug Monitoring. Federal Practitioner. 2018 April; 35(4): 38-44.

Wegrzyn EL, Chaghtai AM, Argoff CE, Fudin J. The CDC Opioid Guideline: proponent interpretation has led to misinformation. *Clinical Pharmacology & Therapeutics*. 2018 Jun;103(6):950-3.

Fudin J, Raouf M, Wegrzyn EL, Schatman ME. Safety concerns with the Centers for Disease Control opioid calculator. *Journal of Pain Research*. 2018;11:1.

Dragic LL, Wegrzyn EL, Schatman ME, **Fudin J**. Pharmacogenetic guidance: testing results in enhanced pain outcomes. *Journal of Pain Research* 2017:10. In press. Available at https://www.dovepress.com/articles.php?article_id=36141

Fudin J, Bettinger JJ, Raouf M. Expanding the Pharmacist's Role in Preventing Opioid Abuse: Understanding Abuse-deterrent Formulations and Identifying Risks. Power-Pak CE, continuing education for pharmacists. December 22, 2017. Available at <https://www.powerpak.com/course/preamble/115940>.

Gruber MR, **Fudin J**. Opioid Abuse-Deterrent Formulations: What Clinicians Need to Know. CME Zone, Applied Clinical Education. November 8, 2017. Available at <https://www.cmezone.com/activities/mm177/2450/>.

Argoff CE, Alford DP, **Fudin J**, Adler JA, Bair MJ, Dart RC, Gandolfi R, McCarberg BH, Stanos SP, Gudin JA, Polomano RC. Rational Urine Drug Monitoring in Patients Receiving Opioids for Chronic Pain: Consensus Recommendations. *Pain Medicine*. 2017 Dec 1.

Fudin J, Raouf M, Wegrzyn EL, Schatman ME. Safety concerns with the Centers for Disease Control opioid calculator. *Journal of Pain Research*. 2018;11:1.

Dragic L, Raouf M, **Fudin J**. Ask the expert: What Type of Withdrawal Symptoms from Tramadol Might a Patient Experience? *Practical Pain Management*. 2017. Available at <https://www.practicalpainmanagement.com/treatments/what-type-withdrawal-symptoms-tramadol-might-patient-experience>.

Fudin J, Raouf M, Wegrzyn WL. Opioid Drug policy: Pharmacological Considerations Regarding Equianalgesic Dosing. *The Pain Practitioner*. 2017. 27(5): 19-22.

Fudin J, Raouf M, Wegrzyn WL. Pharmacological Considerations Regarding Equianalgesic Dosing. A White Paper from the Academy of Integrative Pain Management. September 2017.

Fudin J, Bettinger JJ, Wegrzyn. Ask the expert: Would morphine offer a viable pain management option for patients who do not respond to oxycodone or codeine? *Practical Pain Management*. 2017. September 17(7):13-15.

Dragic L, **Fudin J**. Alcohol Screen Recommended to Reduce Opioid-Induced Depression Overdose. *Practical Pain Management*. 2017. September 17(7):45-49.

Cleary J, Brennan M, **Fudin J**. Opioid Rotation From Opana ER Following FDA Call for Removal. *Practical Pain Management*. 2017. July/August 17(6):50-57.

Mahatme S, Atkinson TJ, Spallone A, **Fudin J**. The Preliminary Impact of Pain Management Integration into an HIV Specialty Clinic. *Scientific Pages Anesth Pain Manag* 2017, 1(1):7-12.

Fudin J, Bettinger JJ, Wegrzyn EL. Treatment of Neuropathic Pain. In *Central Nervous Health-Systems* ed. *Pharmacy Times*. 2017. March 1(2). Online ed, at <http://www.pharmacytimes.com/publications/health-system-edition/2017/March2017>.

Bettinger JJ, Wegrzyn EL, **Fudin J**. Pain management in the elderly: focus on safe prescribing. *Practical Pain Management*. 2017. April; 17(3): 32-38.

Raouf M, Glogowski AJ, Bettinger JJ, **Fudin J**. Serotonin-norepinephrine reuptake inhibitors and the influence of binding affinity (K_i) on analgesia. *Journal of Clinical Pharmacy and Therapeutics*. 2017 May 15.

Fudin J, Wegrzyn E, Raouf M, Schatman M. Pain as a 5th Vital Sign Policy Brief. Issue 8. January 2017.

Raouf M, Atkinson TJ, Crumb MW, **Fudin J**. Rational dosing of gabapentin and pregabalin in chronic kidney disease. *Journal of Pain Research*. 2017, 1:275-277.

Fudin J, Wegrzyn EL, Raouf M, Schatman M. An Important View on Pain as the 5th Vital Sign. *PAINS Project Educational Brief*. January 2017. In press.

Ciccone TG, **Fudin J**, Wegrzyn EL, Kwon S. Commentary on the ICER Psoriasis Drug Cost Report. January 2017. In press. Also available at <https://www.practicalpainmanagement.com/resources/news-and-research/commentary-icer-psoriasis-drug-cost-report?page=0,1>

Gudin J, **Fudin J**. Opioid-Induced Constipation: New and Emerging Therapies – Update 2016. *Practical Pain Management*. 2016 December; 16(10): 56-63.

Fudin J, Wegrzyn EL. Clinical Challenge for Opioid Medications: Dosages, Adverse Events, and Patient Education. Available at http://paindr.com/wp-content/uploads/2017/05/Opioid-Medications-DAEPE-CE-Monograph_APhA_12-2016.pdf

Fudin J, Pham TC, Cleary J. Abuse-Deterrent Formulations: Clinical Applications and Utility in Chronic Pain. *PowerPak CE*. December 2016. Online at <http://www.powerpak.com/course/content/113829>.

Mathew RO, Bettinger JJ, Wegrzyn EL, **Fudin J**. Pharmacotherapeutic considerations for chronic pain in chronic kidney and end-stage renal disease. *Journal of Pain Research*. 2016, 12:1191-1195.

Fudin J, Atkinson TJ, Raouf M, Schatman. Can we not work together to help

family practitioners become more effective pain managers? 2016, 9:803–806.

Elzey MJ, **Fudin J**, Edwards ES. Take-home naloxone treatment for opioid emergencies: a comparison of routes of administration and associated delivery systems. *Expert Opinion on Drug Delivery*. 2016:1-14.

Safeer S, Cleary JP, **Fudin J**. A Perspective on Tapentadol Therapy. *Practical Pain Management*. 2016 September 16(6): 12-14.

Cleary JP, Nicewicz K, **Fudin J**. Life-Saving Naloxone: Review of Currently Approved Products. *Practical Pain Management*. 2016 September 16(7): 47-51.

Fudin J, Raouf M, Wegrzyn EL. Oxycontin was submitted and justifiably approved by the agency as a 12-hour dosage form. *Journal of Pain Research*. 2016, 9:609-612.

Atkinson TJ, Pratt Cleary J, **Fudin J**. 10 Pain Medication Myths: Challenges In Selecting the Appropriate Analgesic. *Practical Pain Management*. 2016 July/August 16(5): 63-70.

Fudin J, Raouf M. Quit stigmatizing naloxone. *Drug Topics*. 2016 July;7-8.

Raouf M, **Fudin J**. A Review of Skeletal Muscle Relaxants for Pain Management. *Practical Pain Management*. 2016 June; 16(4): 42-60, 72.

Schatman M, **Fudin J**. The Myth of Morphine Equivalent Daily Dosage. *Medscape*. 2016 May. <http://www.medscape.com/viewarticle/863477>

Kominek C, Brooks A, **Fudin J**. The forgotten opioid: Could levorphanol levitate above methadone misadventure? *PainWeek Journal*. 2016 April; 4(1):28-34.

Fudin J, Pratt Cleary J, Schatman ME. The MEDD myth: the impact of pseudoscience on pain research and prescribing-guideline development. *Journal of Pain Research*. 2016 March; 9:153-156.

Fudin J. Transdermal Fentanyl Calculations. *Practical Pain Management*. 2016 March; 16(2); 14-15.

Bettinger JJ, Cleary JP, **Fudin J**. What is the difference between Zohydro and Hysingla—hydrocodone extended release agents? *Practical Pain Management*. 2016 March; 16(2): 16-19.

Cleary, JP, Fudin J. Response to: Letters to the Editor: Naloxone, Opioid Tolerance, Polyarthropathy. *Practical Pain Management*. 2016 Jan-Feb; 16(1):6.

Boglish P. **Fudin J**. As The Expert: Is Tapentadol a Glorified Tramadol? *Practical Pain Management*. 2016 Jan-Feb; 16(1): 19-20.

Gudin, J, **Fudin J**. and Nalamachu S. Levorphanol use: past, present and future.

Postgraduate Medicine. 2016 January; 128(1): 46-53.

Gudin J, **Fudin J**, Laitman A, Kominek C. Opioid-Induced Constipation: New and Emerging Therapies. Practical Pain Management. 2015 December; 15(10): 38-45.

Ahmed N, Horlacher RJ, **Fudin J**. Opioid Withdrawal: A New Look at Medication Options. Practical Pain Management. 2015 November; 15(9): 58-66.

Schneider J, **Fudin J**. Ask The Expert: Oxycodone Metabolism. Practical Pain Management. 2015 November; 15(9): 16-17.

Chambers J, Gleason RM, Kirsh KL, Twillman R, Webster L, Berner J, **Fudin J**, Passik SD (In Press). An Online Survey of Patients' Experiences Since the Rescheduling of Hydrocodone: The First 100 Days. Pain Medicine. 2015.

Argoff, CE., Brennan MJ, Camilleri M, Davies A, **Fudin J**, Galluzzi KE, Gudin J, Lembo A, Stanos SP, and Webster LR. Consensus Recommendations on Initiating Prescription Therapies for Opioid-Induced Constipation. Pain Medicine. 2015 December;16(12): 2324-2337.

Brooks A, Kominek C, Pham T, **Fudin J**. Exploring the Use of Chronic Opioid Therapy for Chronic Pain: When, How, and for Whom? Medical Clinics of North America. 2016 January; 100(1): 81–102.

Fudin J, Pham TC. Dodging Elusive and Miscalculated Opioid Risks. PainWeek Journal. 2015 June; 3(3):1656-63.

Fudin J. New Naloxone Technologies To Reduce Opioid Overdose Fatalities. CME. Medscape Medscape Education Neurology & Neurosurgery. 2015 July.

Fudin J. The Economics of Opioids: Abuse, REMS, and Treatment Benefits. Part 3 of Continuing education module - Use of Opioid Analgesics in Managed Care Practice: Challenges, Controversies, REMS, and Optimizing Patient Management. August 2015; 21(9): 165-196

Linares OA, Schiesser WE, **Fudin J**, Pham TC, Bettinger JJ, Mathew RO, Daly-Linares A. In silico ordinary differential equation/partial differential equation hemodialysis model estimates methadone removal during dialysis. Journal of Pain Research. 2015 July; 8: 417–429.

Linares O, Michel T, **Fudin J**, Boston RC, Daly AM. Integrating Clinical Pharmacokinetics, Pharmacogenetics, and Quantitative Cytochrome P450 Polymorphic Gene Drug-Drug Interactions (DDIs) [Letter]. Pain Physician. 2015; 18: 439-446.

Linares OA, **Fudin J**, Daly-Linares A, Schiesser WE, Boston RC. Methadone Recycling Sustains Drug Reservoir in Tissue. Journal of Pain & Palliative Care Pharmacotherapy. 2015 September; 29(3): 261-271.

Pham TC, **Fudin J**, Raffa RB. Is Levorphanol a Better Option Than Methadone? Pain Medicine. 2015 September; 16(9):1673-1679.

Pham TC, **Fudin J**, Desai AP, Faxon JL. Neuropathy in HIV Patients: Pain Concerns. Practical Pain Management. 2015 May; 15(4): 41-47.

Atkinson TJ, **Fudin J**, Pham TC. Combined Fentanyl and Methadone Induced Serotonin Syndrome is Called Into Question [Letter]. Pharmacotherapy. 2015 June; 35(6): 111-4.

Fudin J, Kominek C. Naloxegol Descheduled. Practical Pain Management. 2015 February; 15(2): 17.

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Patents

TEST RESULT ASSESSMENT Patent Pending (application #62131203). This is a patent pending on a urine drug screen / pharmacogenetics software application developed for PC's, smart pones, and tablets.

Non-Peer Reviewed Forums (Pharmacy, Medical, Nursing, Other)

Blogs (Posted at <http://paindr.com/blog/>, Fudin as owner and editor)

Pain Chatter has close to 100 active blog posts that contain Interactive communications with nationally recognized clinicians, public health specialists, law enforcement, and others.

Freelance Writer for Pharmacy Times

(<http://www.pharmacytimes.com/contributor/jeffrey-fudin>)
September 2014-present. Too numerous to list – link)

Guest Blogger at Pain-topics-org

A “PROMPT” Response to the PROP Opioid Petition. Fudin J. 8/20/2012. (<http://updates.pain-topics.org/2012/08/a-prompt-response-to-prop-opioid.html>)

Select Recent Interviews (Peer Reviewed & Non-Peer Reviewed Journals, Blogs, Other)

There are countless articles published on and off the Internet, in professional journals, newspapers, newsletters, continuing education platforms (CME, CEU, other) etc. that have interviewed Dr. Fudin for various opinions. They are too numerous to list and these do not include television or taped interviews. Below are some examples.

- Opioid Abuse-Deterrent Formulations: What Clinicians Need to Know. CME Zone. Applied Clinical education. November 2017. <https://www.cmezone.com/activities/MM177/2450/>
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INVITED PRESENTATIONS:

Professional Meeting Designations:

N=National, INT=International, S=State, R=Regional, L=Local, CE= Accredited for Continuing Education other than Pharmacy, ACPE (Accreditation Council for Pharmacy Education, CE approved), ABAM (American Board of Addiction Medicine), CPS=Consultant Private Sector Activity. Note: State, Regional, or Local presentation may be for areas outside of NYS as indicated.

(N, CPS, ACPE, CME) PainWeek September 2018 at the Cosmopolitan Hotel. Las Vegas NV.

- ADFs: Gimmick or Godsend?, 9/7/2018
- Fudin vs Gudin. Debate on 4 HOT Topics!, 9/7/2018
- Are Bootleg Fentanyl's the New Pill Mills?, 9/8/2018

(N, S, R, CE, CME, ACPE) May 6, 2018 – Presented collaboratively with Christopher Gharibo , MD. Extended Release and Long Acting Opioid Analgesics: Risk Evaluation and Mitigation Strategy (REMS). An educational grant-supported program by Rockpointe/Global ER/LA Opioid Analgesic REMS program. This was fully compliant with the Extended-Release/Long-Acting Opioid Analgesics REMS education requirements issued by the US Food & Drug Administration. Sheraton Raleigh Hotel, Raleigh NC.

(N, S, R, CE, CME, ACPE) April 15, 2018 – Presented collaboratively with Lynn Webster, MD. Extended Release and Long Acting Opioid Analgesics: Risk Evaluation and Mitigation Strategy (REMS). An educational grant-supported program by Rockpointe/Global ER/LA Opioid Analgesic REMS program. This was fully compliant with the Extended-Release/Long-Acting Opioid Analgesics REMS education requirements issued by the US Food & Drug Administration. West Palm Beach Hilton, West Palm Beach FL.

(S, ACPE) April 22, 2018 – **Fudin J.** 1. The Opioid Epidemic: Myths and Facts. 2. Demystifying Opioid Conversion Calculations: Case Studies on Appropriate and Accurate Conversion. New York State Council of Health-system Pharmacists Annual Assembly. Saratoga Hilton, Saratoga NY.

(S, R, CE, CME, BBH CE) April 5, 2018 – **Fudin J.** Buprenorphine and Indications Beyond Addiction. Montana Pain Conference. University Center, University of Montana, Missoula MT

(N, CME, CPE, CNE, or AANP) April 16, 18, 24 and 26 - Gudin J, **Fudin J**, D'Arcy Y. A live webinar with Q&A session! Challenging Cases in Oncology: Managing Opioid-Induced Constipation in Cancer Patients. Available at http://forms.coronapro.com/JeIUHise?utm_source=MediCom+Oncology+Digest&utm_campaign=9f5c61b768-mo_digest_2018-04-03&utm_medium=email&utm_term=0_1bc59b1bd6-9f5c61b768-13772901

(N, CE, ACPE) December 4-7, 2017 - Debate: Focus on Naloxone: Lifesaver or Addicts' Rescue (E Dole v. **J Fudin**). Presented 12/4/2017 at the American Society of Health-System Pharmacists (ASHP) 2017 Midyear Clinical Meeting and Exhibition in Orlando FL.

(ACPE) September 30, 2017 – Pain Management and the Opioid Epidemic
Where are we today? Tri-State Health System Pharmacy Summit. The DoubleTree in Tarrytown NY.

(N, CPS, ACPE, CME) PainWeek September 2017 at the Cosmopolitan Hotel. Las Vegas NV.

- Pharmacogenetics: To Test or Not to Test? 9/6/2017
- PharmasKnowGenetics vs Pharmacogenetics Unveiled 9/7/2017
- HeSAID, SheSAID: The Real Facts on NSAIDs 9/7/2017
- Fudin vs Gudrin: Can Overprescribing Be Defended in Court? 9/7/2017

(ACPE) June 4, 2017 - American Pharmacists Association Institute on Alcoholism and Drug Dependencies at the Utah University in Salt Lake City, UT.

- Opioid Calculation and Conversion: 101 from 8:00am to 9:00am
- A Case Study of Opioid Dose De-escalation” from 9:00am to 9:30am
- Teaming Up for Safer Pain Management: Strategies for Effective Collaboration from 9:45am to 11:15am, with Lynn Webster, MD.

(S, ACPE) April 29, 2017 - The New York State Council of Health-system Pharmacists 56th Annual Assembly. Hot Topics for Debate in Pain Management: Risk Mitigation, Multi-modal Analgesia, and Management of Frequent ED Flyers. (with Dr.s Jacqueline Cleary and Erica Wegrzyn). At the Sagamore Resort in Bolton Landing NY.

(ACPE) American Pharmacists Association (APhA) Annual Meeting and Exposition at the Moscone Convention Center in San Francisco, CA.

- APhA Pain Institute Ask the Experts Pre-registration symposium:
 - Managing Opioid Tapering. Co-presented with Dr. Lynn Webster, March 24 and 25, 2017.
 - Pain Institute Expert Debate: Managing Pain During the Opioid Epidemic. Co-presented with Dr. Christopher Herndon, March 24, 2017.

(CME) American Academy of Pain Medicine (AAPM) 33rd Annual Meeting in Orlando, Florida, at the Loews Sapphire Falls Resort.

- Opioid and NonOpioid Medications Management: Filling in the Gaps, Prescribing for the Whole Patient. *NSAIDs for Acute and Chronic Pain*. Presented March 16, 2017.
- Opioid Prescribing Guidelines: Practical and Ethical Considerations with Clinical Pearls for PCP and Specialty Pain Management Pharmacologic and Medical Literature. *Considerations When Prescribing Opioids for Continuous Use in NonCancer Pain Management*. Presented March 17, 2017.
- Research Update on Controversies in Pain Medicine: A Pearls Session. *Morphine Equivalent Daily Dosage (MEDD) and Susceptibility to Opioid Induced Respiratory Depression/Naloxone Use*. Presented March 19, 2017.

An Interdisciplinary Team Approach to Safely and Effectively Treat Chronic Pain and Reduce the Potential for Opioid Abuse. Presented at the Abuse-Deterrent Formulation Summit. March 8, 2017 at Embassy Suites by Hilton Old Town in Alexandria VA.

(N, CE, ACPE) December 4-8, 2016 - Debate: CDC Opioid Prescribing Guidelines: Controversy, Opiophobia, and the Role of the Pharmacist (E Dole v. **J Fudin**). Presented 12/5/2016 at the American Society of Health-System Pharmacists (ASHP) 2016 Midyear Clinical Meeting and Exhibition in Las Vegas NV.

(N, CPS, ACPE, CME) PainWeek September 2016 at the Cosmopolitan Hotel. Las Vegas NV

- What is the Role of Buprenorphine in Chronic Pain?, 9/6/2016
- Beyond Chronic Pain in the Opioid-Managed Patient: Addressing Comorbid Sleep and Psychiatric Disorders, 9/7/2016
- If 6 Were 9: The CDC's Prescribing Guidelines and the Veil of Secrecy, 9/7/2016
- Risk Tool to Qualify Patients for Take Home Naloxone, 9/8/2016
- You're in Control or Urine Control: Clinical Pearls of Drug Testing Case Studies, 9/9/2016
- Pharmacogenomics: 3 Wise Men Discuss Effects on Holy Tablets, 9/9/2016
- The MEDD Myth: Practice and Research Implications, 9/10/2016

(N, ACPE) Opioid Therapy and Pharmacotherapeutic Challenges Facing Pharmacists; A Clear Role for Clinical Expertise and Collaboration. Presented at the American Medicaid Pharmacy Administrators Association, Marriott Marquis in New York City NY. June 27, 2016.

(N) FDA NSAID Safety Update and Pain Management Options. American Association of Nurse Practitioners National Conference at the Henry B. Gonzalez Convention Center in San Antonio TX. June 22, 2016.

(R, CE, ACPE) Pain Management Opioids: Risks and Pharmacological Management of Chronic Pain. VISN 3 Hot Topics and Innovations in Primary Care, At the James J. Peters VA Medical Center in Bronx NY. June 3, 2016.

(N, CME) Clinical Dialogues: What Is the Role of Buprenorphine in Chronic Pain? Presented at the American Pain Society Annual Meeting with Drs. Jeffrey Gudim and Richard Rauck. At the Austin Convention Center in Austin TX. May 13, 2016.

(R, CME) Pharmacogenetics in Pain Management. Presented at the NYS Pain Society Annual Meeting at The Renaissance Westchester Hotel in West Harrison NY. April 2, 2016.

(N, ACPE) Teaming Up for Safer Pain Management Strategies. Presented at the American Pharmaceutical Association 2016 Annual Meeting & Exposition with Dr. Lynn Webster. At the Baltimore Convention Center in Baltimore MD. March 6, 2016.

(N, ACPE) Resisting Temptation: Can Abuse-Deterrent Formulations Curb Opioid Abuse? Presented at the American Pharmaceutical Association 2016 Annual Meeting & Exposition with Dr. Shellie Keast. At the Baltimore Convention Center in Baltimore MD. March 5, 2016.

(N, ACPE) Point/Counterpoint: Opioids, Overdoses, and Pain Management. Presented at the American Pharmaceutical Association 2016 Annual Meeting & Exposition with Drs. Christopher Herndon and Anthony Tommasello. At the Baltimore Convention Center in Baltimore MD. March 5, 2016.

(N, CME) Clinical Dialogues: What Is the Role of Buprenorphine in Chronic Pain? Presented at the American Academy of Pain Medicine 32nd Annual Meeting with Drs. Jeffrey Gudim and Richard Rauck. At the Palm Springs Convention Center in Palm Springs CA. February 20, 2016.

(N, CME) Addressing Comorbid Sleep Disorders and Psychiatric Disorders. Presented at the American Academy of Pain Medicine 32nd Annual Meeting with Drs Michael Brennan and Martin Chartle. At the Palm Springs Convention Center in Palm Springs CA. February 19, 2016.

(S, AABM) Pharmacogenomics. Presented at New York State Society of Addiction Medicine (NYSAM) 12th Annual Intersection of Science, Treatment and Policy Conference. At The Crowne Plaza Times Square Hotel in New York NY. February 6, 2016.

(N, CME, ACPE) Recommendations on Initiating Prescription Therapies for Opioid-Induced Constipation. Presented with Argoff C, Camilleri M, Snodgrass B. American Academy of Pain Medicine Webinar Parts I and II. January 13 and 21, 2016.

(R, CME, ACPE) November 13, 2013 – Two lectures: Understanding and Interpreting Unexpected Urine Drug Tests and Naloxone: Access, Pharmacology, Practicality, and Politics. As part of day long symposium, Controversies in Pain Management Opioids: Misconceptions in Pain Management. Presented at Quillen College of Medicine at Millennium Center in Johnson City, TN.

(R) November 4, 2015 - Day Long Opioid Symposium. Presented for the New Jersey Society of Oral and Maxillofacial Surgeons at Hotel Woodbridge MetroPark in Iselin NJ.

(R, CPS, ACPE, CME) October 24, 2015 – Two lectures:
1. Dodging Elusive and Miscalculated Opioid Risks 2. Non-Opioid Analgesics: Anticonvulsants, Antidepressants, and Skeletal Muscle Relaxants. Presented at PainWeekEnd 2015 at Baltimore Marriott Waterfront Hotel in Baltimore MD.

(N, CE, ACPE) October 20, 2015 – Pain and Palliative Care PRN Focus Session—Best Practices in Prevention and Treatment of Opioid Overdose. Identifying Patients at Risk for Serious, Unintended Opioid-Related Adverse Events. The 2015 American College of Clinical Pharmacy Global Conference in San Francisco CA.

(R, CPS, ACPE, CME) October 3, 2015 – Two lectures:
1. Dodging Elusive and Miscalculated Opioid Risks 2. Non-Opioid Analgesics: Anticonvulsants, Antidepressants, and Skeletal Muscle Relaxants. Presented at PainWeekEnd 2015 at Hilton Woodcliff in Woodcliff Lake, NJ.

(R, CME) September 19, 2015 - Case Studies in Pain Management: Avoiding Medical Errors in Prescribing Appropriate Analgesia. Albany Medical College's Current Topics in Primary Care and Neurology. Update for the Primary Care Practitioner. The Conference Center at Lake Placid in Lake Placid NY

(N, CPS, ACPE, CME) PainWeek 2015 at the Cosmopolitan Hotel. Las Vegas NV

- September 12, 2015 – Could Levorphanol Levitate Above Methadone Misadventure? (with Drs. Courtney Kominek and Abigail Brooks)

- September 11, 2015 – Naloxone Kudos vs Kinetics: A Debate on Emergency Response and Comparative Routes of Administration (IN, IM, Auto-IM) (with Drs. Courtney Kominek and Abigail Brooks)
- September 10, 2015 – Fudin vs Gudin: The Gloves Come Off (with Dr. Jeffrey Gudin)
- September 8, 2015 – State Dosage Thresholds and Their Potential Impacts on Pain and Overdose Prevention. (with Dr. Stephen Zielger)

(INT, CPS, ACPE, CME) June 8, 2015 – Dodging Elusive and Miscalculated Opioid Risks: A Primer on Pharmacogenetics and Unsuspected Drug Interactions (with prescribed and illicit synthetics) at the International Conference on Opioids, Harvard Medical School in Boston MA.

(R, CME) April 29, 2015 – Understanding and Interpreting Unexpected Urine Drug Screens. Presented for “MD Day” at Castle Point Veterans Administration Medical Center, Hudson Valley Healthcare System. Wappingers Falls NY.

(R, CPS, ACPE, CME) April 11, 2015 – Two lectures:

1. Dodging Elusive and Miscalculated Opioid Risks 2. Non-Opioid Analgesics: Anticonvulsants, Antidepressants, and Skeletal Muscle Relaxants. Presented at PainWeekEnd 2015 at the Hartford Hilton in Hartford CT.

(N, CME) March 18, 2015 - Pharmacogenetic Testing (PGT) & Medication Monitoring (UDT): Helping Clinicians to Individualize Safer Opioid Management. Presented with Michael Brennan MD, Naissan Hussainzada PhD, and Kenneth Kirsh PhD at the American Academy of Pain Medicine 31st Annual Meeting. Gaylord National Resort and Convention Center in National Harbor, MD.

(L, CME) March 4, 2015 - Personalizing Medication Management PGT in Pain. Medical grand Rounds at St. Peters Hospital. Albany NY.

(N, CE, ACPE) December 8-12, 2014 - The Great Debates: Evidence-based Management of Chronic Non-Cancer Pain. (1) Method for Converting Methadone (ML McPherson v. J Fudin). (2) Using Urine or Blood as the Preferred Medium for Opioid Drug Monitoring (J Strickland v. J Fudin). Presented 12/10/2014 at the American Society of Health-System Pharmacists (ASHP) 2014 Midyear Clinical Meeting and Exhibition in Anaheim CA.

(R, CME, ACPE) November 14, 2014 – Dodging Inconspicuous and Miscalculated Opioid Risks in Chronic Noncancer Pain. As part of day long symposium, Controversies in Pain Management Opioids: On the Horns of a Dilemma. Presented at Quillen College of Medicine Millennium Center in Johnson City, TN.

(S, ACPE) November 7, 2014 - New York State Society of Health-system Pharmacists (NYSCHP). Pain Management Practice Based Certificate Program. Program Moderator for 10 hour live and home study course development. Instructor for Acute and Chronic Opioid Therapy in Cancer and Non-Cancer Pain, Examining the Balance between Pain Management and Abuse: A Primer on REMS, Neuropathy, Pathophysiology, A Contemporary Approach to Pre-emptive Analgesia in the Acute Pain Model and Pharmacy, and Pain Jeopardy Course Review. St. Johns Fisher College of Pharmacy in Rochester NY.

(R, ACPE) November 6, 2014 – Primer on Inconspicuous and Miscalculated Risks of Chronic Opioid Therapy. Central Chapter: NYS Council of Health-system Pharmacists. St. Joseph's Hospital in Syracuse, NY.

(R, ACPE) November 5, 2014 – Pharmacogenomics: Personalizing Medication Management with Pharmacogenetic Testing (PGT) in Pain. Northeast Chapter: NYS Council of Health-system Pharmacists. Normanside Country Club in Delmar, NY.

(N,CPS) October 20, 2014 - Joint Federal Pharmacy Seminar at the Gaylord National Resort and Convention Center in National Harbor, MD.

- Personalizing Medication Management: A demystifying Focus on Pharmacogenetic Testing (PGT) & Managing Unexpected Urine Drug Test (UDT) Results
- Opioid Induced Constipation: The Science, the Struggle and a New Treatment Option

(R) October 10, 2014 – Medical Grand Rounds. Interpreting and Responding to Unexpected Urine Drug Testing (UDT) Results. Presented by Videoconference for Department of Veterans Affairs Medical Systems at the Aleda E. Lutz VA Medical Center in Saginaw MI.

(N, CPS, ACPE, CME) American Academy of Pain Management 2014 Annual Clinical Meeting at the JW Marriott Desert Ridge in Phoenix, Arizona.

- September 19, 2014 – The Great Pain Policy Debate with Stephen Ziegler, PhD, JD; Bob Twillman, PhD, FAPM
- September 20, 2014 - Selective Pain Pharmacology and Interactions with Miscalculated Risks

(N, CPS, ACPE, CME) PainWeek 2014 at the Cosmopolitan Hotel. Las Vegas NV

- September 3, 2014 – Controversies in Pain Medicine: Calculating Methadone Conversions. A deliberation of the issues with Mary Lynn McPherson, PharmD, BCPS, CPE, FACPE.
- September 4, 2014 – “My Grandma’s Not A Zombie” Medication Monitoring & Pharmacogenetic Testing (PGT) for Safer Opioid Management.
- September 5, 2014 – NSAID Pharmacotherapy: New Oral and Injectable Options.

(R, CPS, ACPE, CME) June 14, 2014 – Two lectures:

1. Rational Polypharmacy 2. Adjuvants & Co-Analgesics. Presented at PainWeekEnd 2014. at the Tarrytown Marriott in Tarrytown NY.

(R) June 4, 2014 - Overview of Therapeutic Dilemmas and Opioid Therapeutics. Presented by Videoconference for Department of Veterans Affairs Medical Systems at the VISN 6 Medical Grand Rounds. Beckley WV.

(S, ACPE) May 2, 2014 - The New York State Council of Health-system Pharmacists 53rd Annual Assembly. Inconspicuous and Miscalculated Opioid Risks Plus Updates on Rescheduling Hydrocodone. At the Saratoga Hilton in Saratoga Springs NY.

(R, CE) April 30, 2014 - Massachusetts Pain Initiative Spring Meeting. Individualized Pain Management: Pharmacogenetics and how do your patients metabolize opioids? At the Holiday Inn in Marlborough, MA.

(R, CE) April 10, 2014 - Eastern Massachusetts Chapter of American Society of Pain Management Nurses. Individualized Pain Management: Pharmacogenetics and how do your patients metabolize opioids? At Lantana in Randolph MA.

(R) April 18, 2014 - Medication Management of Opioid Therapy in Chronic Pain: Inconspicuous and Miscalculated Risks. Presented by Videoconference for Department of Veterans Affairs Medical Systems at the VISN 2 Primary Care Education Series. Northeastern NY.

(R) March 14, 2014 – Interpreting Urine Toxicology Screens and Unexpected Results. Presented at the VISN 3 Pain Summit, Department of Veterans Affairs Medical Systems at the JJP Medical Center in Bronx NY.

(N) March 7-8, 2014 – The Millennium Medication Monitoring Education Certification Program at American Academy of Pain Medicine. Topics included, “New and Emerging Drugs of Abuse” and “Pharmacogenetic Testing” round table discussions.

(R) February 13, 2014 – Interpreting and Responding to Unexpected Urine Drug Testing (UDT) Results. VISN 3 Pain Summit. Presented at the Bronx VA Medical Center in Bronx NY.

(N, CE, ACPE) December 8-12, 2013 - Can't We All Just Get Along? Debates in Chronic Non-Cancer Pain Management (CNCP). Debate on the Federal Rescheduling of Hydrocodone from C-111 to C-11. American Society of Health-System Pharmacists (ASHP) 2013 Midyear Clinical Meeting and Exhibition in Orlando FL.

(S, CME) October 18, 2013 - Pain Pharmacology – Prescription Drug Abuse; Recognizing & Monitoring Aberrant Behaviors in Patients Receiving Chronic Opioid Therapy. New York State Pain Society Annual Meeting in Rochester NY.

(S, CPS) October 18, 2013 - Interpreting and Responding to Unexpected UDT Results. New York State Pain Society Annual Meeting in Rochester NY.

(N, CE, ACPE) October 15, 2013 – AM PRN Focus Session: Pharmacokinetics and Pharmacodynamics of Analgesics in the Aging Patient. PM PRN Focus Session: Medication Management of Opioid Therapy in Chronic Pain. The 2013 American College of Clinical Pharmacy Annual Meeting in Albuquerque NM.

(N, CPS, ACPE, CME) September 6, 2013 - The Great Divide: The Debate on Long-Term Opioid Prescribing for Chronic Pain. Presented at Pain Week 2013 with Argoff CE, Ballantyne JC, Carr DB, Dasgupta N, Ziegler S. at the Cosmopolitan Hotel in Las Vegas NV.

(N, CE, ACPE) June 2, 2013 - Prescription Drug Harm and Death: An Epidemic. What is Being Done? The 2013 Medication Safety Collaborative at the American Society of Health-System Pharmacists 2013 Summer Meeting and Exhibition. Minneapolis, MN.

(R, ACPE) June 18, 2103 - The Big Opioid Debate: PROMPT vs PROP. Royal Counties Society of Health Systems Pharmacists. Russo's on the Bay in Queens, NY.

(R) May 29, 2013 - Veterans Administration Medical Center, Pain Pharmacology: Opioid Overview Teaching Day. A day long symposium for nursing, medical, and pharmacy staff. Syracuse NY.

(N, CPS) May 8 & 10, 2013 – “Meet the Experts” (Doctors Misha Backonja, Jeffrey Fudin, Jeffrey Gudin, John Peppin) in collaboration with Nektar at the American Pain Society 32 Annual Meeting. New Orleans LA.

(S, ACPE) May 5, 2013 – Opioid REMS: Policy, education, & Dosing Risks. New York State Society of Health-system Pharmacists (NYSCHP) 52nd Annual Assembly: Medication Safety. Turning Stone Casino in Verona NY.

(N) April 12, 2013 – Veterans Administration Medical Center. Opioid Utilization: Examining the Balance between Pain Management and Abuse. Live Grand Rounds Video Conference broadcast directly to Beckley VA Medical Center. Beckley WV.

(CPS, CE, ACPE) April 24, 2013 – PharmEd Presentation (American Health Resources). Evaluating the Risks and Benefits of ER/LA/TIRF Opioid Therapy – Incorporating Best Practices. Radisson Hotel in Nashua NH.

(S, CME) April 19, 2013 - Pain Pharmacology – What Every Practitioner Needs to Know. New York State Pain Society Annual Meeting in West Harrison NY.

(S, ACPE) April 5 & 6, 2013 - New York State Society of Health-system Pharmacists (NYSCHP). Pain Management Practice Based Certificate Program. Program Moderator for 10 hour live and home study course development. Instructor for Acute and Chronic Opioid Therapy in Cancer and Non-Cancer Pain, Examining the Balance between Pain Management and Abuse: A Primer on REMS, Neuropathy, Pathophysiology, A Contemporary Approach to Pre-emptive Analgesia in the Acute Pain Model and Pharmacy, and Pain Jeopardy Course Review. St. Johns University Fresh Meadows, NY.

(N) February 7 and 8, 2013 - Impact of Approved Drug Labeling on Chronic Opioid Therapy Part 15 Public Hearing. Bethesda Marriott in Bethesda, Maryland 20814

(S, CE) October 17, 2012 - The Nurse Practitioner Association's 28th Annual Conference. Opioid Utilization: Examining the Balance between Pain Management & Abuse plus A Pre-emptive approach with Non-Opioids for Acute Analgesia. Saratoga Hilton. Saratoga NY.

(N, CE, ACPE) September 19, 2012 – Veterans Administration Medical Center. Annual Pain Awareness Week: Opioid Dosing: Focus on Difficult Conversions. West Palm Beach VA Medical Center. West Palm Beach FL.

(ACPE) September 8, 2012 – Annual Issues in Pain Management Symposium at Albany College of Pharmacy & Health Sciences. Topic: Opioid Utilization: Dosing Dilemmas & Mitigating Risks. Albany NY.

(S, ACPE) May 18 & 19, 2012 - New York State Society of Health-system Pharmacists (NYSCHP). Pain Management Practice Based Certificate Program. Program Moderator for 10 hour live and home study course development. Instructor for Acute and Chronic Opioid Therapy in Cancer and Non-Cancer Pain, Examining the Balance between Pain Management and Abuse: A Primer on REMS, A Contemporary Approach to Pre-emptive Analgesia in the Acute Pain Model and Pharmacy and Jeopardy Course Review. Albany College of Pharmacy & Health Sciences. Albany NY.

(CPS, CE, ACPE) May 10, 2012 – Videotaped roundtable discussion & audio recording teleconference Q&A session (CME activity), with Dr. Charles Argoff. Managing Chronic Pain: Applying Knowledge of Pain Pathways to Sponsored by Quintiles Medical Education (QME).

(S, ACPE) May 4, 2012 - New York State Society of Health-system Pharmacists (NYSCHP) 51th Annual Assembly Meeting. Pain Therapeutics in the Elderly Population: Truths, Tribulations, and Trivialities. Saratoga Hilton, Saratoga Springs, NY.
Shaw KC. May 2012, Evaluation and comparison of Online equianalgesic opioid dose-conversion calculators. Presented at the Eastern States Residency Conference, Hershey, PA.

(L, CE, ACPE) March 21, 2012 – Medical Grand Rounds, Opioid Utilization: Examining the Balance between Pain Management & Abuse plus A Pre-emptive approach to Analgesia. Kingsbrook Jewish Medical Center. Brooklyn NY

(N, CE, ACPE) October 17, 2011 - Opioid REMS: Helpful or Painful? As part of Pharmaceutical Industry, Hematology/Oncology, and Pain and Palliative Care PRNs' Focus Session—The Role of Clinical Pharmacists in Risk Evaluation and Mitigation Strategies (REMS) Programs. American College of Clinical Pharmacy Annual Meeting. David L. Lawrence Convention Center. Pittsburgh, PA

(S, CE) October 5, 2011 – New Jersey Dental Surgeons Association. A Continuing Education Lecture Series on Pain Management (4.5 hours) to include pre-emptive analgesia, opioid therapy, risk management, neuropathic pain, and REMS. Presented at the Woodbridge Hilton Hotel in Woodbridge NJ.

(PS, CE, ACPE) December 9, 2011 – Palliative Care: An Interdisciplinary Symposium. The Institute for Continuing Education. The Times Center, New York NY.

(ACPE) September 18, 2011 - Pain Management Symposium at Albany College of Pharmacy & Health Sciences. Topic: Current Trends in Opioid Use to Manage Pain and Minimize Abuse. Albany, NY.

(CPS, CE, ACPE) September 27, 2011 – PharmEd Presentation (American Health Resources). Current Trends in Opioid Use to Manage Pain and Minimize Abuse. Doubletree Guest Suites. Mt Laurel NJ.

(CPS, CE, ACPE) July 30, 2011 – PharmEd Presentation (American Health Resources). 2-SESSIONS: Improving Patient Care; The Role of opioid REMS and Current Trends in Opioid Use to Manage Pain and Minimize Abuse. Marriott Charleston. Charleston, SC.

(S, ACPE) June 30, 2011 – Pharmaceutical Society of the State of NY (PSSNY) Annual Convention. Update on Opioid therapy: Recent Trends of Use and Abuse. Ft. William Henry Hotel. Lake George, NY.

(CPS, CE, ACPE) June 7, 2011 – PharmEd Presentation (American Health Resources). Current Trends in Opioid Use to Manage Pain and Minimize Abuse. Hilton Boston/Woburn Hotel. Woburn, MA.

(CPS, CE, ACPE) June 1, 2011 – PharmEd Presentation (American Health Resources). Current Trends in Opioid Use to Manage Pain and Minimize Abuse. Marriott Buffalo Niagara. Buffalo, NY.

(S, ACPE) October 8-9, 2010 - New York State Society of Health-system Pharmacists. Pain Management Practice Based Certificate Program. Program Moderator for 10 hour live and home study course development. Instructor for Acute and Chronic Opioid Therapy in Cancer and Non-Cancer Pain and Pharmacy and Jeopardy Course Review Overview. St. Johns University Fresh Meadows, NY.

(S, ACPE) May 7-8, 2010 - New York State Society of Health-system Pharmacists 49th Annual Assembly Meeting. Pain Management Practice Based Certificate Program. Program Moderator for 10 hour live and home study course development. Instructor for Acute and Chronic Opioid Therapy in Cancer and Non-Cancer Pain and Pharmacy Jeopardy Course Review Overview. Saratoga Hilton, Saratoga Springs, NY.

(L, ACPE) April 20, 2010 - Contemporary and Traditional Opioid Therapy in Cancer and Non-Cancer Pain. Northeastern NYS Counsel of Health-system Pharmacists. Victory Cafe, Albany NY.

(R, CE, ACPE) September 10, 2009 - Pharmacotherapeutic Considerations in the Treatment of Chronic, Non-Cancer Pain: Current Paradigms for NSAIDs/COX-2s, Anti-convulsants and Anti-Depressants. Sponsored by Central New York Society of Health-system Pharmacists and The New York State Society of Physician Assistants. The Genesee Grande Hotel Syracuse, NY.

(S, ACPE) May 28, 2009 – University of Connecticut College of Pharmacy, 32nd Annual Arthur E. Schwarting Pharmacy Practice Symposium: Pain Management. Lewis B. Rome Commons Ballroom, Storrs, CT Campus.

(ACPE) October 18, 2009 - Controlling Cancer Pain with Pharmacotherapy. Albany College of Pharmacy and Health Sciences Barbara M. DiLascia Lecture Series and Annual Oncology Symposium. Albany College of Pharmacy & Health Sciences. Albany, NY.

(R, ACPE) April 14, 2009 – New Directions in Pain for Pharmacy. Central Massachusetts Chapter, American Pharmaceutical Association. Clarion Hotel, West Springfield, MA.

(CPS, CE, ACPE) September 20, 2008 – Clinical Considerations for Recommending, Assessing, and Modifying Chronic Pain Treatment. PriMed. Meeting in San Francisco Four Point Sheraton.

(CPS, CE, ACPE) June 3, 2008 – Clinical Considerations for Recommending, Assessing, and Modifying Chronic Pain Treatment. PriMed. Meeting in Miami. Miami Hilton Airport Hotel.

(CPS, CE, ACPE) May 29, 2008 – Clinical Considerations for Recommending, Assessing, and Modifying Chronic Pain Treatment. PriMed. Meeting in Melville. Melville Marriott Long Island.

(CPS, CE, ACPE) May 1, 2008 – Clinical Considerations for Recommending, Assessing, and Modifying Chronic Pain Treatment. PriMed. Meeting in Philadelphia. Philadelphia Hilton.

(R, ACPE) March 13, 2008: Pharmacological Considerations in the Treatment of Chronic Non-Cancer Pain: Current Paradigms for NSAIDs, Neuropathy and Opioids. VISN-2 Pharmacy Conference. Sheraton Syracuse University Hotel. Conducted by Extension Services in Pharmacy, School of Pharmacy, University of Wisconsin-Madison.

(N, CE, ACPE) April 12, 2007 – Responsible Use of Opioids. Presented at Evolving Paradigms / Providing Health Care to Transitioning Combat Veterans. Combined National VA & Military Conference. Meeting in Las Vegas, NV Hilton.

(R, CE) April 10, 1997 - Fudin J. Albany Law Journal of Science and Technology's Symposium on Physician-Assisted Suicide, Panel expert for "Palliative Care and Pain Management", Albany Law School, Union University.

(N, ACPE) April 3, 2005 – Use of Long Acting Opioids for Chronic Pain: An Update on Issues, Research and Treatment Trends, APhA Breakfast Symposium. Presented with Dr. James Otis. (315 pharmacist attendees) Houston Conference Center. Houston, TX.

(N, CE, ACPE) March 1-3, 2005 – Department of Veterans Affairs 3rd Annual National Leadership Conference: Pain Management and End of Life Care. Presentation on Drug Selection, Regulatory Considerations, Toxicology Screening. Ft. Lauderdale, FL.

(N, ACPE) October 26, 2004 –Tales From the Front: Doing the Right Thing in the Workplace. Whistleblowing: Jeffrey Fudin PharmD, Sexual Harassment: Kay M. Utech PharmD BCPS, Failing a Student: R. Lee Evans PharmD BCPP FASHP. 2004 Annual American College of Clinical Pharmacy. Hyatt Regency. Dallas, TX.

(N, ACPE) October 25, 2004—Applying Balance to Chronic Opioid Use and Urine Toxicology Screening. A Pain PRN Focus Session at 2004 Annual ACCP Meeting. Moderator and Panel Participant: Jeffrey Fudin PharmD, Interpreting Urine and Serum Toxicology Screens, The Concept of Balance: Virginia L. Ghafoor PharmD, Regulatory Policies, Legal Issues, and Recent Controversies Surrounding Chronic Opioid Use: John J. Coleman MS MA, Bio-Psychosocial Issues in Chronic Opioid Use: Theodore V. Parran MD FACP. 2004 Annual American College of Clinical Pharmacy. Hyatt Regency. Dallas, TX.

(R) May 27, 2004 – Methadone in the Treatment of Diabetic Neuropathy; A Retrospective Review. Hartbrodt C, Fudin J, Barrows, M. ASHP Eastern States Conference for Pharmacy Residents and Preceptors in Baltimore, MD.

(R, S, CPS, CE) October 16, 2004—Innovations in Pain Management Across the Life Span. Opioids, the Concept of Balance: Drug Selection, Regulatory Concerns, & Urine Toxicology Screens when treating with Opioids. New England Pain Association. Elliot Hospital Conference Center. Manchester, NH.

(R, S, CE, ACPE) June 2, 2004 – Veterans Administration Hospitals VISN-5 Pain Symposium. Pharmacotherapeutic Management of Peripheral Neuropathy. Presented at the Maritime Conference Center in Baltimore, MD.

(N, CE) April 30, 2004 – Myths and facts About Long-acting Opioids in Chronic Cancer Pain. A CE dinner symposium at the Oncology Nursing Society 29th Annual Congress, presented as a Multidisciplinary Analysis with Christine Miaskowski, RN, PhD, FAAN and Perry G. Fine, MD in Anaheim, CA.

(CPS, CE, ACPE) December 3, 2004 –The Pain Specialist/Pharmacist Relationship: Working Together to Optimize Medical Therapy for the Patient with Chronic Pain, Presented with Dr. James Otis. Houston Conference Center. Hyatt Regency, Coral Gables, FL.

(CPS, CE, ACPE) October 1, 2004 – Use of Long Acting Opioids for Chronic Pain: An Update on Issues, Research and Treatment Trends, Pharm-Med. Presented with Dr. James Otis. (315 pharmacist attendees) Houston Conference Center. Houston, TX.

(CPS, CE, ACPE) September 9, 2004 – Use of Long Acting Opioids for Chronic Pain: An Update on Issues, Research and Treatment Trends, Pharm-Med. Presented with Dr. James Otis. (475 pharmacist attendees) Radison Hotel and Conference Center. Miami, FL

(CPS, CE, ACPE) January 23-25, 2004 – The State of Chronic Pain in America. At the JW Marriott Orlando Grande Lakes Hotel Orlando, FL. Coleman, Fudin, McCarberg, Passik; A Challenging Case in Pain Management: Abuse, Safety, and Regulatory Concerns.

(CPS) December 5-7, 2003, 2003 – Chronic Pain Advisory Board Meeting. At The Westin New York at Times Square New York, NY. Session presented by Coleman, Fudin, and Passik; A Challenging Case in Pain Management: Abuse, Safety, and Regulatory Concerns.

(CPS) October 24, 2003 – Chronic Pain Advisory Board Meeting. At Hotel Vintage Plaza. Portland, OR. Session presented by Fudin on Pharmacotherapeutic and Pharmacokinetic Considerations in Managing Chronic Pain: Focus on Opioids.

(CPS) September 19-21, 2003 – Chronic Pain Advisory Board Meeting. At The Broadmoor. Colorado Springs, CO. Session presented by Fudin on Interpretation of Urine and Serum Toxicology Screens and Interpretation of Quantitative Interpretation.

(L) Ethical Dilemmas in the Management of Chronic Pain Presented to the Capital Area Regional Ethics Board February 23, 1993.

(N, CE, ACPE) March 5, 2003 – Department of Veterans Affairs 3rd Annual National Leadership Conference: Pain Management and End of Life Care. Presentation on Pharmacotherapeutic Considerations in the Treatment of Neuropathic Pain: Antidepressants and Anticonvulsants. Alexandria, VA.

(N, CPS, CE) February 22, 2003 - Maxwell Terri L., Brookoff Daniel, Fudin, Jeffrey. New Developments in the Standard for Management of Chronic Pain: Improving Patient Functionality Through Individualized Pain Management. A Case Presentation. Presented for the American Society of Pain Management Nurses at Westin Crown Center in Kansas City, MO.

(N, CE, ACPE) March 13, 2001 – Dept. of Veterans Affairs 2nd Annual National Leadership

Conference: Pain Management and End of Life Care. Presentation on Pharmacotherapeutic Use of COX-2 Specific Inhibitors. Alexandria, VA.

(N, CE, ACPE) March 13, 2001 - Fudin J. Overview of appropriate use of COX-2 Specific Inhibitors within the Department of Veterans Affairs. AMC 2nd Annual National Leadership Conference: Pain Management and End of Life Care, Alexandria, VA.

(N, CE, ACPE) February 22, 2001 - Fudin J, Kerns RD, Rousseau P. Pain Management: Improving Assessment and Treatment. National Satellite Television Broadcast. (Geriatric Research Education and Clinical Center, Minneapolis, MN)

(N, ACPE) November 5-8, 2000 - American College of Clinical Pharmacy, 2000 Annual Meeting, Los Angeles, CA. Updates in Pain Management: Use of Opioids in Non-malignant Pain.

(N, CE, ACPE) November 20-22, 1999 - Fudin J. Veterans Affairs Pharmacotherapy Conference: Therapeutic Management of Chronic Pain in the Ambulatory Patient (Five hours of lecture presented). DoubleTree Guest Suites Hotel, Austin, TX.

(N, CE, ACPE) June 11-13, 1999 - Fudin J. Veterans Affairs Pharmacotherapy Conference: Therapeutic Management of Chronic Pain in the Ambulatory Patient (Five hours of lecture presented). DoubleTree Guest Suites Hotel, Austin, TX.

(L) February 16, 1993, The Pharmacotherapeutic Management of Chronic Pain, Psychiatry Grand Rounds, VAMC-Albany.

(I, CE) January 31, 1993 – Fudin J. Chronotherapeutics/Chronopharmacology, Education EXPO/Iowa Pharmaceutical Association & Iowa Association of Hospital Pharmacists, University Park Holiday Inn. DesMoines, Iowa.

(I, CE) Fudin, J. , July 1992 – Fudin J. Methods and Devices Currently Available for Temporal Control of Drug Delivery. Platform presentation at the Fifth International Conference of Chronopharmacology and Chronotherapeutics.

(R, ACPE) December 1991, Fudin J. High Tech Pharmacy Care in the Federal System. The University of Minnesota and Department of Veterans Affairs Central Region Chiefs of Pharmacy Conference.

- **PRIVATE SECTOR/OTHER**

- **Speakers' Bureaus, Invited Lectures, and Webinars:** Provided on request
Dr. Fudin has given over 50 invited lectures throughout the United States over the last 12 months. These have included, but are not limited to physicians, pharmacists, nurses, pharmaceutical industry training, and managed care organizations. While most of these educational forums are face-to-face live, new technologies have allowed for numerous Webinar style learning opportunities. Major academic institutions have included many prestigious universities, on and off-campus forums, various medical practice clinics, dinner meetings, etc. A full list and evaluations (where available) can be provided on request.

- **(N)** August 12 & 13, 2013 - U.S. FDA's Center for Drug Evaluation and Research, the Clinical Trials Transformation Initiative (CTTI) Collaborative Workshop on the safety and long-term efficacy of extended-release and long-acting opioid analgesics. Washington, DC.

The purpose of this workshop is to engage multiple stakeholders in discussions around approaches to develop more evidence of the long-term safety and efficacy of extended-release and long-acting opioid analgesics for the treatment of chronic non-cancer pain. Participants include representatives from the FDA and several other federal agencies, clinical experts, epidemiologists, statisticians, patient advocates, and the pharmaceutical industry. (CTTI detailed information may be found at www.ctti-clinicaltrials.org)

- **(INT, CPS, CME)** May 24, 2013 – American Educational Institute, Inc. Studio Filming for Opioid Therapeutics: Efficacy, Selection, Legal/Ethical Implications, and REMS, 2014 international education series for medicine and dental.

POSTER PRESENTATIONS:

Fudin J, Bettinger JJ, Romero NM, Brooks A, Vartan CM, DiScala S. Development of a National VA Policy for Buprenorphine Use Perioperatively for Elective and Emergency Surgeries. Presented at PainWeek 2018 at the Cosmopolitan Hotel in Las Vegas NY. September 6, 2018.

Bettinger JJ, Cleary J, **Fudin J**, Wegrzyn EL. False-Positive 6-mono acetyl morphine (6-MAM) Saliva Test Result In a Patient Taking Morphine and Aspirin: A Case Report. Presented at PainWeek 2018 at the Cosmopolitan Hotel in Las Vegas NY. September 6, 2018.

Coisson KL, Persico AL, Wegrzyn EL, Strassels SA, **Fudin J**. Assessing pharmacist compensation per state: Does the number of pharmacy schools, their location, cost of living, or increasing prevalence play a role? Poster: (2-158). American Society of Health-System Pharmacists (ASHP) 2016. Midyear Clinical Meeting and Exhibition in Orlando FL.

Bettinger JJ, Wegrzyn EL, **Fudin J**. A retrospective drug utilization review to assess the safety and efficacy of buprenorphine for chronic pain in a veteran population. Poster: (1-257). American Society of Health-System Pharmacists (ASHP) 2016. Midyear Clinical Meeting and Exhibition in Orlando FL.

Dragic LL, **Fudin J**. Quality Assurance Alcohol Monitoring by Urine Ethyl Glucuronide Screen in Patients Receiving Chronic Opioid Therapy. Poster 54. Presented at PainWeek 2017 at the Cosmopolitan Hotel in Las Vegas NY. September 7, 2017.

Garfinkel MA, Dragic LL, Bettinger JJ, **Fudin J**, Cleary JH. 242604 Community pharmacy survey regarding naloxone education, access, and distribution. Poster: (5b-331). American Society of Health-System Pharmacists (ASHP) 2016. Midyear Clinical Meeting and Exhibition in Las Vegas NV.

Dragic LL, **Fudin J**. Quality Assurance Alcohol Monitoring by Urine Ethyl Glucuronide Screen in Patients Receiving Chronic Opioid Therapy. Poster: (1-254). American Society of Health-System Pharmacists (ASHP) 2016. Midyear Clinical Meeting and Exhibition in Las Vegas NV.

Song K, **Fudin J**, Shayegani R, Cleary JP, Oliva EM. Comparing Validated and Novel Risk Tools to Quantify Risk for Opioid Induced Respiratory Depression in an Electronic Medical Record. Presented at Association for Medical Education and Research in Substance Abuse (AMERSA) 40th Annual National Conference at the Fairmont Hotel in Georgetown Washington DC, November 3, 2016.

Fudin J, Raouf M, Shahzad N, Jarrett N, Wegrzyn E. A novel, validated smart phone application to quantify opioid overdose probability for justification of in-home naloxone. P342. Presented 10/24/2016 at the 2016 ACCP Annual Meeting in Hollywood FL. October 2016.

Wegrzyn E, **Fudin J**. Safety and efficacy of buprenorphine for pain: a retrospective drug utilization review. Late Breaking Poster. Presented at PainWeek 2016 at the Cosmopolitan Hotel in Las Vegas NY. September 9, 2016.

Carroll J, Cleary, JP, Stressels S, **Fudin J**. Analysis of Pain Education Deficiencies Among Student and Recent Graduate US Pharmacists. P24. SN735. Presented at PainWeek 2016 at the Cosmopolitan Hotel in Las Vegas NY. September 9, 2016.

Cleary JP, **Fudin J**, Raouf M, Nguyen U. Veteran's Hospital automated software platform to access pre-validated risk for opioid-induced respiratory depression to qualify patients for in-home naloxone. Poster no. 41. Presented at the International Conference on Opioids at Harvard Joseph B. Martin Conference Center at Harvard Medical School, Boston, MA. June 6, 2016.

Cleary JH, Raouf M, Nguyen U, Carpenter MR, **Fudin J**. C Automated Software Platform to Assess Pre-Validated Risk for Opioid-induced Respiratory Depression to Qualify Patients for In-home Naloxone. (Poster: 394). American Society of Health-System Pharmacists (ASHP) 2015 Midyear Clinical Meeting and Exhibition in New Orleans LA.

Pratt Cleary JH, Raouf M, Carpenter MR, **Fudin J**. Risk analysis of potential opioid-induced respiratory depression by RIOSORD to qualify veteran patients and their caregivers for naloxone auto-injectors and risk mitigation. P146 at PainWeek, Cosmopolitan Hotel. Las Vegas NV. September 10, 2015.

Rennick A, Atkinson TJ, Cimino N, **Fudin J**, Strassel S, McPherson ML. Variability in Opioid Equivalence. P44 at the International Conference on Opioids, Harvard Medical School in Boston MA. June 8, 2015.

Fudin J, Shahzad N, Jarrett NWD, Pham TC, Prouty E. Development of an Immunoassay Urine Drug Screen App for interpreting unexpected results. P15 at the International Conference on Opioids, Harvard Medical School in Boston MA. June 7, 2015.

Mahatme S, Atkinson TJ, Spallone A, **Fudin J.** The Preliminary Impact of Pain Management Integration into an HIV Specialty Clinic. P4 at the International Conference on Opioids, Harvard Medical School in Boston MA. June 7, 2015.

Desai A, Pham T, **Fudin J.** Comparative retrospective to prospective analysis of clinician reliability and cost effectiveness for accurately interpreting urine drug screens (UDS) for patients receiving chronic opioid therapy. (Poster: 1-101). American Society of Health-System Pharmacists (ASHP) 2014 Midyear Clinical Meeting and Exhibition in Anaheim CA.

Rennick A, Atkinson T, Cimino N, McPherson ML, **Fudin J.** Variability in Opioid Equivalence. (Poster: 9-236). American Society of Health-System Pharmacists (ASHP) 2013 Midyear Clinical Meeting and Exhibition in Orlando FL.

Fudin J, Barrows M, Shear J, Greene JG. Implementation of virtual electronic clinical pharmacist PAIN Pharmacotherapeutic Review and DUE services to enhance rational chronic opioid use and curtail potential diversion in a va healthcare primary care setting (Poster: P-158-D). ASHP 2005 Midyear Clinical Meeting in Las Vegas, NV. December 5, 2005.

Fudin J. Development and success of a fee-for-service pharmaceutical care pain management web site. Poster Presentation at American College of Clinical Pharmacy, 2001 Spring Practice and Research Forum, Salt Lake City, UT. April 24, 2001.

Carlyn CJ, Baltch AL, Smith RP, St Clair M, George Mary, Lutz J, **Fudin J.** HIV genotyping for optimizing therapy. Presented at the Infectious Disease Society of America 38th Annual Meeting, New Orleans, Louisiana, September 7-10, 2000.

Fudin J, Toledi-Binnette CS, Yu ABC, Kupiak D, Johnston KR, Smith HS, Cost Implication of Extended Stability Dating of Concentrated Subcutaneous Hydromorphone Compared to Intravenous Morphine Solutions. Poster presentation at the ASHP Midyear Clinical Meeting in New Orleans, LA presented December 1996.

Fudin J, Kupiak D, Smith HS, Johnston KR, Slavinski K. Transdermal Therapeutic System Fentanyl Dose Titration Using Fentanyl Citrate. Poster presentation at the ASHP Midyear Clinical Meeting in Las Vegas, Nevada, presented December 1995.

Mane A, Smith HS, **Fudin J,** et. al. Tramadol Use For Neurogenic Pain, Case Presentations. Poster Presentation to be presented at the New York State Society of Anesthesiologist's Post Graduate Assembly in New York, NY, presented December 1995.

Johnston, KR. **Fudin, J.** Newton D., Methods of Providing Chronotherapeutically Optimized Cancer Chemotherapy. Poster presentation at the ASHP Midyear Clinical Meeting in Atlanta, Georgia, presented December 1993.

Johnston, K.R., **Fudin, J.** Administration of Buprenorphine by Continuous Subcutaneous Infusion. Poster presentation at the ASHP Midyear Clinical Meeting in New Orleans, Louisiana, December 1991.

Garris, RE., Johnston, KR., **Fudin, J.** Use of Sucralfate Enema in the Treatment of Post-Radiation Proctitis. Thirteenth Annual Assembly of the New York State Council of Hospital Pharmacists, Bolton Landing, New York, November 1990.

Fudin J, DeConti R, Ruckdeschel JC. Chemical phlebitis due to ci-921: the role of formulation/dissolution characteristics. Proc. AACR 30:A968, 1989.

Fudin, J. Evaluation of Iontophoresis Using the Phoresor II Unit in the Treatment of Superficial Neoplasms. Poster presentation at the ASHP Midyear Clinical Meeting in Dallas, Texas, December 1988.

EDITORIAL ACTIVITIES:

- July 2018 to present: Chief Co Editors-at-Large, Practical Pain Management
- January 2018 to present: Executive Editorial Advisor, Practical Pain Management
- August 2015 to present: Editorial Board, The Journal of Pharmacy Practice (JPP) in the area of Pain Management
- September 2014 to December 2017: Senior Editor, Practical Pain Management
- June 2012 to present: Section Editor for Pain Medicine (Opioids, Substance Abuse and Addictions Section), official journal of the American Academy of Pain Medicine.
 - Pain Medicine Social Media Committee

PEER REVIEW ACTIVITIES:

- January 2018 to present: Journal of Opioid Management
- Fall 2016 to present: Journal of the American College of Clinical Pharmacy
- Fall 2013 to present: Journal of Pain Research
- October 2012-present: Peer Reviewer for Journal of Pharmacy Practice
- July 2012-present: Peer Reviewer for Journal of Pain and Palliative Care Pharmacotherapy
- Fall 2011: Peer reviewer for American Society for Pain Management Nursing Guidelines on Monitoring for Opioid-Induced Sedation and Respiratory Depression.
- 2000 to present: American Journal of Health-system Pharmacists
- 2012 to present: Drug Topics
- 2014 to present: Journal of Pharmacy Practice and Research (Society of Hosp. Pharm. of Australia)
- **Presentation Reviews:**
 - Poster and Platform Reviewer for ASHP and ACCP
- May 2001: Expert Reviewer for: Hospice and Palliative Nurses Association Monograph, Treatment of end-stage non-cancer diagnoses, Volume IV, Spring 2001. Published by Hospice and palliative nurses Association, Penn Center West One, Suite 229, Pittsburgh, PA 15276.

PROFESSIONAL SOCIETY ACTIVITIES, COMMITTEES, SERVICE, & OTHER

NATIONAL & INTERNATIONAL

January 2018 – present: National Coalition for Hospice and Palliative Care

June 20, 2017: New York State Board for Professional Medical Conduct
New York State Board for Professional Medical Conduct. Service appointment expires June 30, 2020.

2018: National Coalition for Hospice and Palliative Care, SPCP representative

2016-present: Society for Palliative Care Pharmacists (SPCP)

Founding Member (2016)

Advisory Board (2016-present)

Board of Trustees (2016)

Advisory Committee (Co-Chair, 2018)

Development Committee (2017-present)

April 2016 to present: Director-at-Large for the 2016-2017 American Academy of Pain Medicine Foundation Board of Directors

April 2016 to present: Eligible Professional Electronic Clinical Quality Measures, Potential Opioid Overuse Expert Work Group. A diverse, multi-stakeholder body for EWG, representing a range of clinical and governmental perspectives.

July 2015 to present: Society of Palliative Care Pharmacists.

Board of Trustees member. This is a newly formed group for pharmacist pain clinicians and in business development states.

June 2015 to present: **Mathematica Policy Research and the Lewin Group**

An opioid measure development work group convened as part of the Hospital Measure Development and Maintenance project.

SPPAN (State Pain Policy Advocacy Network), A project of the American Academy of Pain Management Ad-hoc workgroup: Advocating for Clinician Pain Education. <http://sppan.aapainmanage.org/>

GUIDELINE DEVELOPMENT

April 2016-present: Urine Drug Monitoring Consensus Panel for Guideline Development in collaboration with the American Academy of Pain Medicine.

July 2015: Peer reviewer for the Multimodal Pain Management for Post-hip Surgery Guidelines, U.S. Dept. of Health & Human Services. Agency for Healthcare Research and Quality Effective Health Care Program. U.S. Dept. of Health & Human Services.

March 17, 2015: National Medical Committee to establish national consensus guidelines for opioid induced constipation (OIC). Gaylord National Resort and Convention Center in National Harbor, MD.

February 21, 2014: Consultative meeting to provide feedback on draft guidelines for the proper use of urine testing in addiction medicine, hosted by the National Association of Addiction Treatment Providers (NAATP) with support from the Center for Lawful Access and Abuse Deterrence (CLAAD) and the American Society of Addiction Medicine (ASAM). Palm Beach Marriot in West Palm Beach FL.

April 2010: Peer reviewer for the Multimodal Pain Management for Post-hip Surgery Guidelines, U.S. Dept. of Health & Human Services. Agency for Healthcare Research and Quality Effective Health Care Program. U.S. Dept. of Health & Human Services.

February 2009: “Informant” for a collaborative project between the Agency for Healthcare Research and Quality (ARHQ), and The Evidence-based Practice Center (EPC) at the University of Alberta for a commissioned project to review a comparative effectiveness review of Pain Management in Hip Fracture Patients.

2007: American Pain Society peer reviewer for an Analgesic Guide, 6th edition of Principles of Analgesic Use in the Treatment of Acute Pain and Cancer Pain. November 2007.

2008: American Pain Society / service Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (3) Washington D.C.

2007: American Pain Society / American Academy of Pain Medicine Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (2) Newark, New Jersey, May 16-17, 2007.

2006: American Pain Society / American Academy of Pain Medicine Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (1) Northbrook, Illinois, September 30, 2006 through October 1, 2006.

2006: Peer reviewer for development of multidisciplinary, evidence-based Clinical Practice Guidelines for Low back Pain, a collaborative partnership between the American Pain Society and the American College of Physicians.

2010: Peer reviewer for the Multimodal Pain Management for Post-hip Surgery Guidelines, U.S. Dept. of Health & Human Services. Agency for Healthcare Research and Quality Effective Health Care Program. U.S. Dept. of Health & Human Services.

2010: Peer reviewer for the Multimodal Pain Management for Post-hip

Surgery Guidelines, U.S. Dept. of Health & Human Services. Agency for Healthcare Research and Quality Effective Health Care Program. U.S. Dept. of Health & Human Services.

2009: “Informant” for a collaborative project between the Agency for Healthcare Research and Quality (ARHQ), and The Evidence-based Practice Center (EPC) at the University of Alberta for a commissioned project to review a comparative effectiveness review of Pain Management in Hip Fracture Patients.

2008: American Pain Society / American Academy of Pain Medicine Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (3) Washington D.C., January 18-19, 2008.

2007: American Pain Society peer reviewer for an Analgesic Guide, 6th edition of Principles of Analgesic Use in the Treatment of Acute Pain and Cancer Pain.

2007: American Pain Society / American Academy of Pain Medicine Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (2) Newark, New Jersey, May 16-17, 2007.

2006: American Pain Society / American Academy of Pain Medicine Collaborative PANEL member for developing Evidence Based Guidelines for “Clinical Practice Guidelines for the Use of opioids in Non-Cancer Pain” Meeting (1) Northbrook, Illinois, September 30, 2006 through October 1, 2006.

2006: Peer reviewer for development of multidisciplinary, evidence-based Clinical Practice Guidelines for Low back Pain, a collaborative partnership between the American Pain Society and the American College of Physicians.

2005: Expert Reviewer by the American Pain Society for Guideline for the Management of Cancer Pain in Adults and Children.

PROMPT (Professionals for Rational Opioid Monitoring & Pharmacotherapy

- August 2012: Founder/Chairman, PROMPT (Professionals for Rational Opioid Monitoring and Pharmacotherapeutics). This is a multidisciplinary group of clinicians, researchers and academicians from various fields. Some include areas of Addiction, Anesthesiology, Pain, Pharmacy, Primary Care, Psychiatry, Psychology, and various Board Certified specialties. PROMPT has serious concerns about the safety of chronic opioid use; we are therefore in favor of mitigating these risks with appropriate proactive and ongoing validated interventions intended for the benefit of patient care and public safety.

We advocate for clinician education, proactive risk stratification, and appropriate therapeutic monitoring. See <http://paindr.com/prompt-info/>

AMERICAN ACADEMY OF PAIN MEDICINE

AMERICAN COLLEGE OF CLINICAL PHARMACY

- October 15, 2013 –
Pain & Palliative Care PRN Meeting:
Presentations: Update on PROMPT, PROP, and FDA Decisions Regarding Opioid Relabeling / Update on the FDA Resolution to Walgreens Good Faith Dispensing Policy
Round Table Discussion on Federal Regulation Updates
The 2013 ACCP Annual Meeting in Albuquerque NM.
- September 2005 - September 2006: ACCP Credentials: Membership Committee.
- December 2012 – present: Selected as ACCP National Mentor for residents, fellows, and graduate students. This role requires;
 - Upholding the mentor-mentee relationship through regular communication
 - Passing along insight gained from years of training and professional experience
 - Offering an additional perspective to those provided within the mentee's institution
 - Acting as a sounding board for the mentee during times of difficulty and/or decision
 - Maintaining a confidential relationship with the mentee
 - Sharing motivations for attending the ACCP Annual Meeting
 - Giving advice regarding ACCP involvement and resources
- October 2002 – October 2004: ACCP PAIN Practice and Research Network (PRN), Chair November 1, 2003-October 26, 2004: As Pain PRN Chair for the American College of Clinical Pharmacy, coordinated and helped develop the following educational symposiums:
 - October 25, 2004—Applying Balance to Chronic Opioid Use and Urine Toxicology Screening. A Pain PRN Focus Session at 2004 Annual ACCP Meeting.
Moderator and Panel Participant: Jeffrey Fudin PharmD, Interpreting Urine and Serum Toxicology Screens, The Concept of Balance: Virginia L. Ghafoor PharmD, Regulatory Policies, Legal Issues, and Recent Controversies Surrounding Chronic Opioid Use: John J. Coleman MS MA, Bio-Psychosocial Issues in Chronic Opioid Use: Theodore V. Parran MD FACP. 2004 Annual American College of Clinical Pharmacy. Hyatt Regency. Dallas, TX.

October 26, 2004—Pain PRN Networking Meeting:
Use of Botulinum Toxin for Various Pain Syndromes,
Jimmie Overton, Pharm.D. (Allergan, Inc.)
Epidural/Intraspinal Medications for the Treatment of
Pain, Lee A. Kral, Pharm.D.(University of Iowa
Hospitals)

AMERICAN PAIN SOCIETY

- April 2013-2014

AMERICAN PHARMACEUTICAL SOCIETY

AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS

- December 2013: Midyear Clinical Meeting Poster Mentor
- March 2014- present: American Society of Health-system Pharmacists Ambulatory Care Practitioners (SAGS) for Pain and Palliative Care
- July 2011- July 2012: American Society of Health-system Pharmacists Leadership Section Advisory Group (SAGS)

PHARMACEUTICAL SOCIETY OF THE STATE OF NY

- 11-14-2005-present: Pharmacists Society of the State of New York (PSSNY), ETHICS COMMITTEE

BOARD OF PHARMACEUTICAL SPECIALTIES

- May 1-2, 2011: Selected member of Task Force for the Board of Pharmacy Specialties (BPS) role delineation study/practice analysis of pain and palliative care pharmacy. Meeting in Phoenix, AZ.

NORTHEASTERN NYS SOCIETY OF HEALTH-SYSTEM PHARMACISTS

NYS PAIN SOCIETY

Pharmacy Sessions Seminar Coordinator for the International Society of Chronobiology. Amelia Island Plantation, July 1994.

OTHER

2015-present: Director, Scientific and Clinical Affairs, REMITIGATE LLC. This is a newly established company developing personal computer and smart phone apps that offers guidance to interpret urine drug screens, pharmacogenetics, pharmacokinetics, and other important therapeutic areas.

2014-present: Clinical Expert Consultant to the Healthcare Quality Improvement Organization of NY to develop guidelines for safe opioid

use and develop appropriate risk and safety tools.

2009-present: Clinical Pharmacy Consultant to Home Medical, a private Homecare company staffed by physicians and physician extenders that see patients in their homes.

May 2012 to present: Advisor to Alpha Theta Chapter, Phi Delta Chi for Professional Community Project Development related to Opioid Therapy, Risk Management, Proper Disposal of Unused Medication, etc.

Ongoing: Developer, owner, blog creator and editor at PainDr.com (Several blog writings and refereeing may be seen at <http://paindr.com/blog/>)

July 2011-presented: Consultant to Practical Pain Management for developing an online opioid calculator and troubleshooting practical and clinical questions from the field.

December 2010: Experiential Education Subcommittee, APPE Remediation Module Development Committee, Albany College of Pharmacy & Health Sciences.

01-2007: Patient Quality Care Project (<http://www.libertycoalition.net/patient-quest>, A subsidiary of the Liberty Coalition), Executive Board Member.

01-2007: - present: Medscape's Ask the Experts: Pharmacist. Medscape's Ask the Experts allows you to ask members of a panel of leading experts for advice or information. You also have the opportunity to share your own views and insights by clicking the "Discuss this" link at the top of each response.

07-2006 – present: Clinical Consultant to Calloway Labs. Woburn, MA

2006-2009: Clinical Pain Consultant, MVP Health Care. Schenectady, NY

01/01/2000-present: NovaPain Consultants. This is a private consultant practice accepting direct self-referrals and physician referrals for medication evaluations related to pain management via the Internet. An expert witness service is provided. The practice has a website link at www.paindr.com. Website was developed and designed by Fudin.

2009 – 2011: Consultant to ACURA PHARMACEUTICAL TECHNOLOGIES, INC. to perform services relating to the development of a new medication and to prepare Acura and its personnel for the FDA Advisory Committee Meeting reviewing the new drug application.

04/05-present: Founder and Chair, VA Whistleblowers Coalition (VAWBC.com)

12/1/99-present: Medical Advisory Board Member for the Dannemiller Memorial Education Foundation. This is an on-line service for pain management practitioners and patients. Also, from 01/01/2000-present, participated in "Ask the Doctor", a consultation service provided to patients on line as a community service. The board of professionals is comprised of several MDs, one DPM, and Fudin. The site to access this service is www.pain.com

06/28/00-06/28/00: Rodale's Health Online: Expert Member of the Editorial Advisory Board.

2000-2002: Medical/Pharmacist consultant for Rodale's On-line Health Service. Listed as the expert practitioner under "Ask the Pharmacy Guy".

05/01/2000-05/01/2002: Pharmacotherapeutic consultant to cynergygroup.com for development of pain-medication information devices.

October 2003-present: Experiential Education Advisory Panel, Albany College of Pharmacy & Health Sciences

ADVISORY BOARDS

Provided on request.

Research Completed (*not listed in publications or posters above*):

2013-present: Opioid Toolbox: This is a software development program to create various tools for safe use of opioids. It includes PC, Apple, and smart phone applications for three separate programs; urine drug screen interpretation, opioid conversion calculator, opioid serum predictability, and pharmacogenetics monitoring.

2005: A Practical Formula for the Conversion of Opioids to methadone: A Retrospective Analysis of the Formula.

Primary co-investigator for the following Purdue Sponsored research grant,
A Multi-Center, Randomized, Double-Blind, Parallel Group, Placebo and Active-Controlled Study of the Safety and Efficacy of Buprenorphine TDS (transdermal Delivery System) 12.5, 25, and 50mcg/hr Applied Every Six Days for Sixty Days vs. IR 5mg Oxycodone 325mg / Acetaminophen Tablets Q6H PRN vs. Placebo in Patients with Chronic Pain Due to Osteoarthritis.

A Long-Term, Open-Label, Clinical Use Safety Study of Buprenorphine TDS (Transdermal Delivery System) 12.5, 25, and 50 mcg/hr Applied Every 6 Days for the Management of Ongoing Pain Syndromes.

MAJOR CONFERENCES ATTENDED

- On request

OTHER (COMMUNITY SERVICE)

- Fall 2001 to present: Advisor to Phi Delta Chi Pharmaceutical Fraternity for professional projects development. This involves didactic classroom learning, oversight, and delivery for a new project on opioid therapy, safe disposal, and community teaching.
- Spring 2012: Advisor to and RPh oversight for Rho Pi Phi Pharmaceutical Fraternity blood pressure monitoring program. This involved mentoring PY1 students about blood pressure, drugs that effect it and how to measure it. A clinic was conducted Blood Pressure Clinic at the Atria Center in Albany NY.
- Fall 2008 to spring 2012: Advisor to ACPHS Students in Performing Arts in the Health Care Community. The group performed music for nursing homes and hospices in the Capital Area.
- Lecturer for The American Cancer Society for Testicular Cancer self-examination.
- Member of the Board of Directors for Temple Israel, Albany, NY (July 1988 - July 1991).
- Lecturer for The American Cancer Society sponsored Grand Rounds at St. Peters Hospital, Albany, NY, March 1990.

EXTRA-CURRICULAR ACTIVITIES/HOBBIES

- 04/15/05: Websites Design, by Fudin:
Other Websites: <http://www.KolSimchaOrchestra.net>, <http://www.rwgfitness.com>
- Sports: running, swimming, baseball, basketball, tennis
- Music (saxophone, clarinet, flute)
- Bethlehem Basketball League, basketball coach, 12/95-1/99
- President, Clarksville Elementary School P.T.A., June 1992-June 1994
- Bethlehem School Administration Presidents Council, September 1992-1994
- Bethlehem Central School District, AIDS Advisory Council, September 1985-1999.
- Town of Bethlehem Soccer League, Soccer Coach, August 1988-1996
- The Woodwind Studio, 1991-1998
- This is a private self-owned music studio in which I instructed students on saxophone, clarinet, and flute. I had a student load of 14 students. Studio was approved by local school district for high school course credit.
- V.A. National Medical Music Group, CLARINET. The First Congressional Flag Day Concert w/ Judy Collins. Washington D.C. June 12, 1996
- V.A. National Medical Music Group, TENOR SAXOPHONE/CLARINET
- Constitution Hall Performance w/ Shirley Jones. Washington D.C. November, 1993.
- Bethlehem Community Orchestra, SAXOPHONE, CLARINET, FLUTE. September 1991-1993.
- V.A. National Medical Music Group, TENOR SAXOPHONE. Carnegie Hall Performance w/ Shirley Jones. New York City, New York. December 8, 1992
- The Kol Simcha Orchesta and Band of Gold (private dance bands). December 1992-present