

## **Curriculum Vitae**

**February 18, 2014**

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## **Current Positions**

**Sanford M. Silverman, MD, PA**  
**Comprehensive Pain Medicine, *Pompano Beach, FL***  
June 1997 – present

**Lorsand Continuing Medical Education, LLC,**  
Founding partner, November 2009-2011

## **Certifications**

**Diplomate of the American Board of Anesthesiology,**  
April 1991

**Certificate of Added Qualifications in Pain Management, American Board of Anesthesiology,**  
September 1994, *Recertification*, October 2004

**Diplomate American Board of Pain Medicine, Feb. 1997**

**Certified Addiction Medicine, American Society**  
Addiction Medicine, December 9, 2006

**Diplomate American Board of Addiction Medicine,**  
March 2009-March 2016

**Expert Medical Advisor, Florida Division of Workers**  
Compensation, September 2008-present

## **Appointments/Positions**

**United States Army Medical Corps, Captain,** Letterman Army Medical Center, Presidio San Francisco, CA June 1986- June 1987; Ft. Sam Houston, San Antonio , TX, 1987-1990

**United States Army Medical Corps, Major,** William Beaumont Army Medical Center, Ft. Bliss, TX, July 1990- June 1994

**Chief, Anesthesia and Operative Service,  
Director Pain Clinic  
William Beaumont Army Medical Center,**  
Major, Medical Corps, US Army,  
El Paso, TX July 1990- June 1994

**Assistant Professor of Anesthesiology,**  
Texas Tech University Health Sciences Center  
El Paso, TX Sept. 1992- June 1994  
**El Paso Anesthesia Specialists, P.A.,** El Paso, TX  
Jan 1995 - August 1996

**Anesthesiology Solo Practice,** El Paso, TX  
June 1994 - Jan 1995

**Hollywood Anesthesia Associates P.A.,** Hollywood, FL  
Sept. 1996 - June 1997

**Clinical Assistant Professor, Dept. Surgery, Division  
of Anesthesiology Nova Southeastern University,**  
Davie , FL, Oct. 2010- *present*

**Cypress Care , Healthcare Solutions**, Pharmacy and Therapeutics Committee, March 2011- present

**Voluntary Assistant Professor Medicine**, University of Miami, Miller School of Medicine.

**Affiliate Assistant Professor of Clinical Biomedical Science**, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL June 2013.

### **Education**

**Tufts University**, BS Chemical Engineering 1981  
Magna Cum Laude. MS, Chemical Engineering, 1982

**New York Medical College**, MD, June 1986

### **Internship**

**Transitional Internship**,  
**Letterman Army Medical Center**, San Francisco, CA  
July 1986-June 1987

### **Residency**

**Anesthesiology**,  
**Brooke Army Medical Center**, San Antonio, TX  
July 1987 - June 1990

PGY4 year - Clinical Scientist and Cardiac Anesthesia  
Commander's Award for Research  
Chief Resident rotating  
Pain Management Clinic

PGY3 year - Children's Hospital of Philadelphia,  
Pediatric Anesthesia; University of Texas San Antonio, Obstetrical Anesthesia; US Army Burn Unit

## **Publications**

Meldon JH, Silverman SM, Myers LA. ***Computerized Analysis of Blood-Gas Equilibria, Part II, Prediction and Interpretation of Experimental Results.*** Chemical Engineering Communications, Vol. 47, pp. 125-133, 1986.

Silverman SM, Castro T. ***A Comparison of Serum Lidocaine Levels Using Two Variations of the Axillary Block.*** Presented at the **International Anesthesia Research Society**, 63<sup>rd</sup> Congress, Orlando, Florida, March 1989 and at the 43<sup>rd</sup> **Postgraduate Assembly in Anesthesiology**, New York City, December 1989.

Silverman SM, Culling RD, Middaugh, RE. ***Rapid Sequence Orotracheal Intubation: A Comparison of Three Techniques***, Anesthesiology 73: 244-248, 1990.

Silverman SM, Kingsley CP, Ward JA. ***The Effects of Ketamine and Thiopental on Myocardial Contractility and Function in Hypovolemic Swine.*** Presented at the **Society of Cardiovascular Anesthesia** 12<sup>th</sup> Annual meeting, Orlando, Florida, May 1990.

Silverman SM, Olson KW. ***Avoiding Unintentional Arterial Cannulation.*** Letter to the Editor, Critical Care Medicine, May 1990 and Canadian Journal of Anaesthesia, Nov. 1989.

Ward JA, Kingsley CP, Silverman SM. ***Computer Software for the On-Line Measurement of the Left Ventricular End-Systolic Pressure-Dimension Relationship.*** Journal of Cardiothoracic and Vascular Anesthesia 5:6, 554-562, 1991.

Silverman SM. ***Epidural Anesthesia and Anticoagulation: II.*** Letter to the Editor, Anesthesiology 79: 204, 1993.

***A Practical Guide for Prescribing Controlled Substances***, (contributing author) PainBalance, Alparma, Inc., First Edition, 2007

Helm S., Trescot A., Colson J., Sehgal N., **Silverman S.** *Opioid Antagonists, Partial Agonists, and Agonists/Antagonists: The Role of Office-Based Detoxification*, Pain Physician 2008; 11: 225-235.

Silverman SM. *Opioid Induced Hyperalgesia: Clinical Implications for the Pain Practitioner*, Pain Physician 2009; 12:679-684

Daneshvari R. Solanki, MD, Dhanalakshmi Koyyalagunta, MD, Rinoo V. Shah, MD, **Sanford Silverman, MD**, and Laxmaiah Manchikanti, MD *Monitoring Opioid Adherence in Chronic Pain Patients: Assessment of Risk of Substance Misuse*; Pain Physician 2011; 14:E119-E131 • ISSN 2150-1149

Marion Lee, MD, **Sanford Silverman, MD**, Hans Hansen, MD, Vikram Patel, MD, and Laxmaiah Manchikanti, MD; *A Comprehensive Review of Opioid-Induced Hyperalgesia*; Pain Physician 2011; 14:145-161 • ISSN 1533-3159

Manchikanti et al, ; **American Society of Interventional Pain Physicians (ASIPP) Opioid Guidelines Guidelines for Responsible Opioid Prescribing in Chronic Non-Cancer Pain: Parts 1 and 2**; Pain Physician 2012; 15:S1-S66, S67-S116 • ISSN 1533-3159

**Silverman, S**; Letter to the editor; **Pain Medicine News, January 2013** edition; Commentary on “Interventionalist Group Releases Updated Opioid Guidelines.”

### **Memberships/Appointments**

- Florida Society of Interventional Pain Physicians, **President, May 2012-present**
- American Academy of Pain Medicine
- American Society of Interventional Pain Physicians
- American Society of Regional Anesthesia
- American Society of Addiction Medicine
- Florida Society of Addiction Medicine

- Broward County Medical Association, *President-elect Board of Director , member Board of Trustees; 2010-present*
- Florida Medical Association
- Florida Pain Initiative, *Board of Directors (2005-2007)*
- United Way of Broward County, Commission on Substance Abuse, Prescription Medication Abuse Task Force, *Committee Member, (2008-pres)*
- United Way of Broward County Commission on Substance Abuse, *Board of Governors, 9/13/2010 - present*
- Broward County Commission, Task Force on Pain Management Clinics, *May 2010-September 2010*
- Specialty Section delegate to Florida Medical Association Meeting, 2007-2009
- Florida Workers Compensation Institute (FWCI), Educational Committee Member, Workers Compensation Annual Meeting, Orlando Florida, *2009-present*
- Pharmacy and Therapeutics Committee, Healthcare Solutions, 2011-present.
- **Expert Medical Advisor** – Florida Dept. of Labor, Division of Workers Compensation 2008-present
- **Editorial Board – Pain Physician** American Society of Interventional Pain Physicians- 2012
- **Editorial Advisory Board** - Official Disability Guidelines (ODG/ODG Treatment), 2012-present

### **Medical Licenses**

Florida

**Lectures and Presentations on Pain Medicine and Addiction Medicine;**  
**Medical and Forensic**

**Defense of Spinal Injury and Failed-Back-Surgery-Syndrome**, Hartford Insurance Co., West Palm Beach, FL, May 1998.

**Interventional Pain Management**, Humana Worker's Compensation, case management, Altamonte Springs, FL, June 1998.

**Analysis of Epidural Steroid Injections and Epidural Neuroplasty**, Presented at the Annual meeting, Florida Worker's Compensation, Orlando, FL, September 1998.

**Interventional Pain Management**, Heritage Summit Worker's Compensation, case management, Lakeland, FL, January 1999.

**Pain Management**, Television appearance on Healthcare Today, MediaOne cablevision, Pompano Beach, FL, March 30, 1999.

**Defense of Spinal Injury**, Insurance and Law Conference on Psychological and Neurological Injury Claims, June 14-16, 1999, LeMeridien Hotel, New Orleans, LA.

**Chronic Pain and Regulatory Issues**, presented by North Broward Hospital District, April 8, 2000, North Broward Medical Center, Pompano Beach, FL.

**Pain Management for the new Millenium**, February 2003, Unisource Worker's Compensation, Sarasota, FL

**Pain Management**, Television appearance on Healthy Living, Comcast cablevision, Pompano Beach, FL, May, 2003

**Pain Management for the new Millenium**, November 2003, Vista Healthcare, Sunrise, FL

**Complex Regional Pain Syndrome**, December 2003, Travelers Insurance, WC division, Orlando FL.

**Assessment of Abuse or Addiction in Patients Receiving Opioids for Pain**, 59<sup>th</sup> Annual Workers Compensation Educational Conference, Orlando, FL August 2004.

**Pain and Addiction: Strategies for Pain Specialists**, Annual Meeting Florida Academy of Pain Medicine, Kissimmee FL, July 29-31, 2005.

**RESPECT**, Regional Emerging Solutions in Pain through Education Communication and Treatment, Miami, FL, November 16, 2005. Case Presentation.

**Office-based Detoxification with Buprenorphine**, Comprehensive Review Course in Controlled Substances Management, American Society of Interventional Pain Physicians, Orlando, FL April 15, 2007.

**Evidence Based Pain Medicine**, Annual Meeting Florida Academy of Pain Medicine, Orlando , FL July 27-29, 2007

**Evidence Based Pain Medicine**, First Annual Pain Management Breakout, 62<sup>nd</sup> Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 12-15, 2007.

**Pain And Addiction At The Crossroads: Treatment Approaches And Strategies**, Sanford M. Silverman, MD & Bernd Wollschlaeger , MD, FAAFP, Florida Society of Addiction Medicine, Annual Meeting, Gainesville, FL, March 1, 2008

**Office-based Detoxification with Buprenorphine**, Comprehensive Review Course in Controlled Substances Management, American Society of Interventional Pain Physicians, St. Louis, MO, July 29, 2008.

**Pain And Addiction At The Crossroads: Treatment Approaches And Strategies**, Sanford M. Silverman, MD & Bernd Wollschlaeger , MD, FAAFP, Florida Medical Association, Annual Meeting, Orlando, FL, August 1, 2008.

**Risk Management for Claimants Receiving Controlled Substances for Pain**, Second Annual Pain Management Breakout, Moderator, 63<sup>rd</sup>



Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 17-20, 2008.

**The Use of Opioids with Chronic Pain**, Florida Pain Initiative, 3<sup>rd</sup> Annual Pain Summit, MD Anderson Cancer Center, Orlando FL, September 12, 2008.

**The Underdiagnosis and Undertreatment of Pain**, Haymarket Medical, Roundtable discussion, November 15, 2008, Palm Beach, FL

**The Prescription Addiction Radio Show**, February 8, 2009, 860 WGUL, Tampa Florida. Pain Management and prescription abuse.

**Prescription Drug Abuse: The Silent Epidemic**, presented at the Florida Society of Addiction Medicine (FSAM), USF College of Public Health, Tampa, FL. March 6, 2009.

**Management of Sedative and Opioid Withdrawal; Office-based Detoxification with Buprenorphine**, Comprehensive Review Course in Controlled Substances Management, American Society of Interventional Pain Physicians, Memphis, TN, May 16, 2009.

**Pain and Addiction**, Preconference Workshop, Florida Academy of Pain Medicine, Annual Meeting, Palm Beach, FL, July 10, 2009

**Office Based Detoxification Practice for the Pain Practitioner**, Preconference Workshop Florida Academy of Pain Medicine, Annual Meeting, Palm Beach, FL, July 10, 2009

**Update on Florida's Prescription Drug Monitoring Program**, Florida Academy of Pain Medicine, Palm Beach, FL July 12, 2009.

**New Opioids and Interactions**, Florida Society of Interventional Pain Physicians, Annual Meeting, Boca Raton, FL, July 25, 2009

**Prescribing Opioids: What you need to know in these troubled times**, Florida Society of Interventional Pain Physicians, Annual Meeting, Boca Raton, FL, July 25, 2009.

**Prescription Drug Abuse in Florida:** Third Annual Pain Management Breakout, **Moderator**, **64th** Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 17-20, 2009.

**The Silent Epidemic, Prescription Drug Abuse in Florida: Program Chair**, Vince Carter Sanctuary, Bunnell, FL, *Florida Recovery Month*, Continuing Medical Education Activity, September 12, 2009.

**"The Oxycontin Express"**, television documentary, **Vanguard**, Current TV, October 14, 2009.

**Educational Forum on Prescription Drug Abuse: Program co-chair**, NOVA Southeastern University, Davie FL, Continuing Medical Education Activity, November 14, 2009.

**Florida Crossroads: "The Prescription Drug Epidemic: In-State and Out-of-Control"**, WFSU The Florida Channel, documentary , Season 22, 2010.

**Pain Medicine and Controlled Substances: Risk Management and Best Practices**, *Lorsand Continuing Medical Education, LLC*, partner and Program co-chair, March 6, 2010, Tampa, FL

**Risk Assessment Tools in Pain Practice**, Florida Society of Interventional Pain Physicians, Annual Meeting, Orlando, FL, May 22, 2010.

**Pain Medicine and Controlled Substances: Risk Management and Best Practices**, *Lorsand Continuing Medical Education, LLC*, partner and Program co-chair, June 5, 2010, Nova Southeastern University, Davie, FL

**Management of Sedative and Opioid Withdrawal; Office-based Detoxification ; Controlled Substance Pharmacology; Pharmacology of Psychotherapeutic and Adjuvant Drugs in Pain Management**, Comprehensive Review Course in Controlled Substances Management and Comprehensive Board Review Course; American Society of Interventional Pain Physicians, Chicago, IL, August 9-10, 2010.

**Pain Medicine and Controlled Substances: Risk Management and Best Practices**, *Lorsand Continuing Medical Education, LLC*, partner and Program co-chair, August 14, 2010, Valencia Community College, Orlando, FL.

**Thwarting Analgesic Dependence**: Fourth Annual Pain Medicine Breakout, **Moderator**, **65th** Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 16-18, 2010.

**Pain Medicine and Controlled Substances: Risk Management and Best Practices**, *Lorsand Continuing Medical Education, LLC*, partner and Program co-chair, November 13, 2010, Sawgrass Marriott , Ponta Veda, Jacksonville, FL.

**Management of Sedative and Opioid Withdrawal; Office-based Detoxification ; Controlled Substance Pharmacology; Terminology of Addiction, substance abuse; Substance abuse among Medical Professionals**; Comprehensive Review Course in Controlled Substances Management and Comprehensive Board Review Course; American Society of Interventional Pain Physicians, St. Louis, MO, August 1-2, 2011.

**Office Based Detoxification**, Pain Management Update 2011, August 20, 2011, St. Vincent's Medical Center, Terry Conference Center , Jacksonville, FL.

**Risk Management for Claimants receiving CS for Pain: 66th** Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 21-24, 2011

**Pain Medicine Breakout, update on FL Law**: Fifth Annual Pain Medicine Breakout, **Moderator**, **66th** Annual Meeting, Florida Worker's Compensation Educational Conference, Orlando, FL, August 21-24, 2011.

**Update on Florida Pain Clinic Law**, Boca Raton Regional Hospital, Sept. 2011, 1.0 hours CME.

**Comprehensive Review Course in Controlled Substances Management** American Society of Interventional Pain Physicians, Phoenix, AZ,

**February 24-25, 2012: Management of Sedative and Opioid Withdrawal; Office-based Detoxification ; Controlled Substance Pharmacology; Terminology of Addiction, substance abuse; Comparative Effectiveness Review of Opioid Therapy.**

**Controlled Substances Management Georgia Society of Interventional Pain Physicians, Greensboro, GA, May 4, 2012: Management of Sedative and Opioid Withdrawal; Office-based Detoxification ; Terminology of Addiction, substance abuse; Comparative Effectiveness Review of Opioid Therapy.**

**Controlled Substance Management:, Orlando, FL, May 17, 2012: Fundamentals of Pain and Addiction, Florida Society of Interventional Pain Physicians**

**Annual Meeting, Florida Society of Interventional Pain Physicians, May 18, 2012, Orlando , FL: Anticoagulation in Interventional Pain Medicine**

**Annual Meeting, American Society of Interventional Pain Physicians, June 10, 2012, Washington, DC; Controlled Substance Seminar, Moderator. Presentation: Buprenorphine in Pain and Chemical Dependency.**

**Annual Meeting, Florida Society of Addiction Medicine, June 15, 2012, Orlando, FL; Florida Pain Clinic Law Update**

**Comprehensive Review Course in Controlled Substances Management American Society of Interventional Pain Physicians, SF, CA. July 30-31, 2012: Management of Sedative and Opioid Withdrawal; Office-based Detoxification ; Controlled Substance Pharmacology; Terminology of Addiction, substance abuse; Comparative Effectiveness Review of Opioid Therapy.**

**Pain Medicine Breakout, “Pharmacy Utilization in Workers Compensation”: Sixth Annual Pain Medicine Breakout, Moderator, 67th Annual Meeting, Florida Worker’s Compensation Educational Conference, Orlando, FL, August 22-25, 2012**

**Centers of Excellence Lecture: “Opioid Addiction, the Cure”;** Annual Meeting, Florida Worker’s Compensation Educational Conference, Orlando, FL, August 22-25, 2012

**Update on Florida Pain Clinic Law,** Boca Raton Regional Hospital, Sept. 2012, 1.0 hours CME.

**Update on Florida Pain Clinic Law,** Medical Society of Port. St. Lucie, FL, Oct. 2012, 1.0 hours CME.

**Comprehensive Review Course in Controlled Substances Management**  
American Society of Interventional Pain Physicians, Denver, CO. November 2-3, 2012: Management of Sedative and Opioid Withdrawal; Office-based Detoxification; Controlled Substance Pharmacology; Terminology of Addiction, substance abuse

**Opioid Addiction: The Causes, Costs and Solutions;** presented at the 21st National Workers’ Compensation & Disability Conference, Las Vegas Convention Center, Las Vegas, NV, November 7-9, 2012

**Annual Meeting, Florida Society of Interventional Pain Physicians,** May 17-19, 2013, Orlando , FL: **Conference Chair for Workshop on Controlled Substances and Annual Meeting;** Fundamentals of Pain and Addiction; Office Based Detoxification, Waivered Physician and X number, What you need to know; Mock Malpractice Trial, Plaintiff’s Expert.

**Pain and Addiction,** presented by the American Society of Inteventional Pain Physicians, July 29-30, 2013 , St. Louis, MO. **Course co-chairman.**

**Pain Week, Las Vegas, NV, September 5-6, 2013.** Fundamentals of Pain and Addiction; Opioid Induced Hyperalgesia.

**Comprehensive Review Course in Controlled Substances Management**  
American Society of Interventional Pain Physicians, Denver, CO. October 4-5, 2013: Dealing with the Difficult Patient; Office-based Detoxification; Controlled Substance Pharmacology; Terminology of Addiction, substance abuse; Substance abuse amongst Health Professions.

**Risk Evaluation and Mitigation Strategies (REMS) and Common Sense  
Pain Management, Florida Medical Association, Course Co-Director  
Orlando, FL , October 25-26, 2013.**