

## CURRICULUM VITAE



**KENNETH D. CANDIDO, M.D.**  
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**Elmhurst, IL., 60126**  
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Place of Birth: East Orange, New Jersey

### **EDUCATION**

B.A.	Rutgers College, New Brunswick, NJ	5/79
M.D.	Universidad del Noreste, México (Diploma)	1980-83
Fifth Pathway	New York Medical College	1984
M.D. Degree	New York State Board of Regents	1991
Internship	Internal Med; New York Medical College	7/86-6/87
Residency	Anesthesiology CA1-2; New York Medical College	1/85-6/86 (18 mos)
Fellowship:	Pain and Regional Anesthesia; University of Illinois at Chicago	7/87-6/88

Residency	University of Illinois at Chicago	7/88-3/89 (9 mos)
Chief Resident	University of Illinois at Chicago	12/88-3/89 (3 mos)

**MEDICAL LICENSURE**

New York	#161553	1985
Illinois	#036-075131	1987
New Jersey	#51536 (inactive)	1988

**CERTIFICATIONS**

American Board of Anesthesiology	4/89
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Added Qualifications in Pain Medicine	9/94
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Recertified	9/04
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Recertified	10/14
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Advanced Cardiac Life Support (ACLS)

Instructor: American Heart Association	1987
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Recertified Instructor	1999
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Completed: State of Illinois Obstetric Hemorrhage Project Advocate Illinois Masonic Medical Center, Chicago	2009
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**BOARD OF DIRECTORS**

American Society of Interventional Pain Physicians (ASIPP):	2014-2017
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American Society of Interventional Pain Physicians (ASIPP):	2018-2023
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Named RUC Representative	April 2014-2016
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### UNIVERSITY APPOINTMENTS

University of Illinois College of Medicine Chicago Clinical <b>Professor</b> of Anesthesiology	2/01/08-Present
Clinical <b>Professor</b> of Surgery, UIC at Chicago	8/01/16-Present
Loyola University Chicago <b>Associate Professor</b> of Anesthesiology	1/05-6/06
<b>Professor</b> of Anesthesiology	7/06-2/01/08
Northwestern University Feinberg School of Medicine/North- Western Memorial Hospital <b>Associate Professor</b> of Anesthesiology	9/01-01/05
Rush Medical College Assistant Professor of Anesthesiology	1998-2002
University of Illinois at Chicago Assistant Clinical Professor of Anesthesiology	1989-1995
University of Illinois at Chicago Assistant Professor of Anesthesiology	3/89-7/89
Royal Society of Medicine-London (Member in Good Standing)	02/16/21

### HOSPITAL AND TEACHING APPOINTMENTS

Thorek Memorial Hospital 850 W. Irving Park Rd., Chicago, IL., 60613 Anesthesia and Pain Privileges	11/21-Present
Norwegian Hospital / Humboldt Park Health 1044 N. Francisco Ave., Chicago, IL., 60622 Pain Privileges	10/22-Present
Summit Center for Health 1S210 Summit Ave., Oakbrook Terrace, IL., 60181 Director of Anesthesia and Pain Management	05/21-Present
Advocate Illinois Masonic Medical Center Chairman, Department of Anesthesiology (2007-2021) 836 W. Wellington Ave., Suite 4815, Chicago, IL 60657 Chicago Anesthesia Pain Specialists CEO and President 3000 N. Halsted St., Suite 700, Chicago, IL 60657	12/07-Present
Advocate Good Samaritan Hospital 3815 Highland Avenue Downers Grove, IL 60515	01/22-Present
Pain Center of Illinois 360 West Butterfield Rd., Suite 100 Elmhurst, IL 60126	01/22-Present
<b>Fellowship Director:</b> Pain Medicine Fellowship. Advocate	07/20-08/22

Illinois Masonic Medical Center (ACGME Approved)

Clinical **Professor of Anesthesiology** 01/08-Present

University of Illinois at Chicago College of Medicine

Clinical **Professor of Surgery**

University of Illinois at Chicago College of Medicine

8/01/16-Present

Loyola University Chicago

Director, Division of Pain Management

1/05-2/08

Director, Pain Management Committee

1/05-2/08

Director, Pain Management Fellowship Program

6/07-2/08

**Professor of Anesthesiology**, Loyola University Medical School

Northwestern University Feinberg School of Medicine/North-

Western Memorial Hospital

Director, Division of Acute Pain Management

6/02-01/05

Cook County Hospital

Attending Physician, Department of

Anesthesiology and Pain Management

1997-2001

Chairman, Residency Selection

1998-2001

Executive Medical Staff Member

1999-2001

Lenox Hill Hospital

Assistant Adjunct Attending: Anesthesiology and

Division of Regional Anesthesia and Pain Management

7/89-1/92

Adjunct Attending Anesthesiologist

1/92-1/97

### **EDITORIAL POSITIONS**

<b>Editorial Staff:</b> <i>Regional Anesthesia and Pain Medicine</i> (Reviewer)	2002-present
<b>Editorial Staff:</b> <i>Anesthesia &amp; Analgesia</i> (Reviewer)	2004-present
<b>Editorial Staff:</b> <i>Journal of Clinical Anesthesia</i> (Reviewer)	2008-present
<b>Editorial Staff:</b> Pain Physician: <b><i>Editorial Board</i></b>	2008-present
<b>Editor-In-Chief:</b> <i>Midwest Pain Society Update</i> ; A publication of The Midwestern Regional Section of the American Pain Society	2003
<b>Editorial Staff:</b> <i>Local and Regional Anesthesia and Analgesia</i> Dove Medical Press, Auckland, New Zealand	2008-present
<b>Editorial Staff:</b> Faculty of 1,000 Medicine	2008-2012
<b>Editor-In-Chief:</b> <u>Pain.Com</u> monthly review of pain articles	2004-2011
<b>Editorial Board:</b> <i>World Journal of Anesthesiology</i>	2011-present
<b>Editorial Staff:</b> <i>Southern Medical Journal</i> (Reviewer)	2011-present
<b>Editorial Staff:</b> <i>Expert Opinion of Investigational Drugs</i> (Reviewer)	2011-present
<b>Editorial Staff:</b> <i>Neuromodulation</i> (Reviewer)	2011-present
<b>Editorial Board:</b> <i>Spine Journal</i>	2012-present
<b>Editorial Board:</b> <i>World Journal of Anesthesiology</i>	2012-present
<b>Editorial Reviewer:</b> <i>British Medical Journal</i>	2014-present
<b>Editor-in-Chief:</b> <i>Interventional Pain Management Case Reports</i>	2016-2019

### **COMMITTEES**

**INSTITUTIONAL REVIEW BOARD LOYOLA UNIVERSITY:** Committee Member; appointed August 2005

**SOCIETY FOR PAIN PRACTICE MANAGEMENT:** Leawood, KS, Cadaver Course Director; 2006-Present

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Subcommittee on Chronic and Cancer

Pain: Elected 2007-2009

**AMERICAN SOCIETY OF REGIONAL ANESTHESIA:** Gaston Labat Award Committee:  
2007-Present

**AMERICAN SOCIETY OF REGIONAL ANESTHESIA:** Meeting Program Chairman  
Spring 2008 Meeting; Playa del Carmen, Mexico.

**AMERICAN SOCIETY OF REGIONAL ANESTHESIA:** Meeting Program Chairman  
Fall 2008 Meeting; Huntington Beach, CA.

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Subcommittee on Regional Anesthesia  
and Acute Pain: Elected 2009-2010

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Committee on Pain Medicine: Elected  
2008-2010

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Committee on Pain Medicine: Elected  
2012-2013

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Abstract Review Subcommittee on  
Chronic and Cancer Pain: Elected 2012-2013

**AMERICAN SOCIETY OF ANESTHESIOLOGISTS:** Abstract Review Subcommittee on,  
Regional Anesthesia and Acute Pain: Elected 2012-2013

**ADVOCATE ILLINOIS MASONIC MEDICAL CENTER:** Procedural Sedation Committee;  
Chairman; 2010-Present

**MIDWEST ANESTHESIA RESIDENT'S CONFERENCE (MARC):** Chairman of Annual  
Meeting; 2017 Meeting; Chicago, IL.

## AWARDS

Bruce L. Cherkala, M.D.: <i>Outstanding Researcher</i> U of I @ Chicago: Anesthesiology	1987-1988
Bruce L. Cherkala, M.D.: <i>Outstanding Researcher</i> U of I @ Chicago: Anesthesiology	1988-1989
<i>Outstanding Attending Physician and Teacher:</i> <b>Cook County Hospital</b> , Department of Anesthesiology	1999-2000
<i>Outstanding Attending Physician and Teacher.</i> <b>Cook County Hospital</b> , Department of Anesthesiology	2000-2001
Golden Apple Award (CA-3): Outstanding Teacher: <b>Northwestern University</b> , Department of Anesthesiology	2002-2003
Elected Fellow: <b>Institute of Medicine of Chicago</b>	3/27/03
Awarded: Program Chairman Plaque; <b>ASRA Annual Spring Meeting</b>	5/04/08
Awarded: Program Chairman Plaque; <b>ASRA Annual Fall Meeting</b>	11/21/08
Elected Member: <b>Association of University Anesthesiologists</b>	7/01/08
Physician MVP Award: <b>Advocate Illinois Masonic Medical Center</b>	6/24/09
Physician MVP Award: <b>Advocate Illinois Masonic Medical Center:</b>	Year 2009
<b>Chairman:</b> Illinois Society of Anesthesiologists / Midwest Anesthesia Conference	11/13/10
Illinois <b>People's Choice Award:</b> Favorite Physician	2008



Illinois <b>People's Choice Award</b> : Favorite Physician	2009
Illinois <b>People's Choice Award</b> : Favorite Physician	2010
Illinois <b>People's Choice Award</b> : Favorite Physician	2011
Illinois <b>People's Choice Award</b> : Favorite Physician	2012
AHC <b>Research Forum Day</b> at AIMMC: First Place Award: Research	5/10/11
The Alon P. Winnie Honorary Lecture Award (Dannemiller)	6/28/13
The Academic Achievement Award (ASIPP)	4/15/16
<b>Marquis Who's Who</b> in American Medicine Lifetime Achievement Award	11/2019
<b>Marquis Who's Who</b> : A Lifetime of Achievement: Executive Spotlight	2020
American Society of Interventional Pain Physicians (ASIPP): Racz Award	2021

### **APPOINTMENTS**

<b>Medical Director</b> : City of Chicago, Police and Fire Death Benefit Fund	03/18-Present
<b>Board Member</b> : Illinois Prescription Monitoring Program (IPMP)	12/18-Present

### **CLINICAL TRIALS**

- Conducted over 100 multicenter clinical trials (phases I-IV) as Principal Investigator or Sub-Investigator in the area of anesthesiology, regional anesthesia and pain management

- Collaborated with Quintiles, INC Research, Parexel, PPD, PRA, I3, ICON, Kendle, PSI, Inventivhealth, Pfizer, AstraZeneca, Biogen, Covidien, Purdue, Mallincrodt, St. Jude Medical, Boston Scientific, Novo Nordisk, Novartis, Merck-Sharp-Dome, Takeda, Abbott, Bristol-Myers, Eisai, Glaxo-Smith-Kline, Sanofi-Aventis, Bayer, Teijin, Cubist, Endo Pharmaceuticals, Depomed, etc.

### **SCIENTIFIC PRESENTATIONS // INVITED LECTURES // CME COURSES GIVEN**

1. "*Monoclonal anti-Clq Binding Immune Complexes and Hypocomplementemia in AIDS.*" **Poster** Presentation: Third Annual International Conference on AIDS, Washington, D.C., June 1987.
2. "*A Complete Regional Anesthesia Technique for Cardiac Pacemaker Insertion.*" **Oral** Presentations: Midwest Anesthesia Resident's Conference (MARC), Chicago, IL, April 1988.
3. "*pH Adjusted Mepivacaine for Upper Extremity Surgery.*" **Poster** Presentation: MARC Meeting, Chicago, IL, April 1988.
4. "*pH Adjusted Bupivacaine for Lower Extremity Surgery.*" **Poster** Presentation: MARC Meeting, Chicago, IL, April 1988.
5. "*pH Adjusted Mepivacaine for Lower Extremity Surgery.*" **Poster** Presentation: MARC Meeting, Chicago, IL, April 1988.
6. "*A Complete Regional Anesthesia Technique for Cardiac Pacemaker Insertion.*" **Oral** Presentation: American Society of Anesthesiologists (ASA) Annual Meeting, San Francisco, CA, October 1988.
7. "*The Use of Ropivacaine for Brachial Plexus Anesthesia.*" **Oral** Presentation. Hospital for Special Surgery Department of Anesthesiology Grand Rounds, New York, NY, January 1989.
8. "*Ropivacaine 0.5% for Brachial Plexus Block.*" **Oral** Presentation: American Society of Regional Anesthesia (ASRA) Annual Meeting, Boston, MA, April 1989. "*pH Adjusted Mepivacaine for Lower Extremity Surgery.*" **Poster** Presentation: ASRA Annual Meeting, Boston, MA, April 1989.

9. "*pH Adjusted Mepivacaine for Upper Extremity Surgery.*" **Poster** Presentation: ASRA Annual Meeting, Boston, MA, April 1989.
10. "*pH Adjusted Bupivacaine for Lower Extremity Surgery.*" **Poster** Presentation: ASRA Annual Meeting, Boston, MA, April 1989.
11. "*New Frontiers in Obstetric Pain Management.*" **Oral** Presentation: Lenox Hill Hospital Obstetric Department Distinguished Lecture Series. New York, NY, May 1991, 1994, 1996.
12. "*Post-Operative Pain Management.*" **Oral** Presentation: Lenox Hill Hospital Surgery Department Distinguished Lecture Series. New York, NY, December 1991.
13. "*Intra- and Post-Operative Pain Management.*" **Oral** Presentation: Lenox Hill Hospital Surgery Department Distinguished Lecture Series. New York, NY, May 1992.
14. "*Continuous Plexus Blocks for the Trauma Patient.*" **Oral** Presentation: Chicago Medical Society Midwest Clinical Conference, February 1999.
15. "*Continuous Lower Extremity Plexus Anesthesia for the Trauma Patient.*" **Oral** Presentation: ITACCS 1999 Annual Meeting, Chicago, IL.
16. "*Buprenorphine for Post-Operative Pain Management Following Out-Patient Upper Extremity Surgery.*" **Poster** Presentation: ASRA Annual Meeting, Orlando, FL, April 2000. (Presented by M.A. Khan at MARC, 1999, Columbus, Ohio, 1<sup>st</sup> place Oral; and by M.A. Khan at SAMBA, 2000, Washington, D.C., 1<sup>st</sup> place Poster).
17. "*Interventional Pain Management*". **Oral** Presentation: Rush Medical College; Seminar on Pain Management in Addictive Disorders. October 24, 2001.
18. "*Pain Management for Scoliosis and Spinal Deformity*". **Oral** Presentation: Northwestern Memorial Hospital. Seminar at Northwestern Scoliosis and Spinal Deformity Support Group. (Medtronic Sponsored). March 2002.

19. "*Epidural Postoperative Pain Management for Vascular Surgery*". **Oral** Presentation. Northwestern University Medical School/Department of Surgery Ground Rounds. April 16, 2002.
20. "*Bradycardia and Hypotension Associated with Spinal Anesthesia*". **Oral** Presentation. Northwestern University/Feinberg School of Medicine Anesthesiology Grand Rounds. April 2002.
21. "*The Endless Variations of Supraclavicular Brachial Plexus Block*". **Oral** Presentation. American Society of Regional Anesthesia Annual Meeting. Chicago, IL, April 2002.
22. "*Combined Spinal-Epidural Anesthesia for Surgery and Obstetrics*". **Oral** Presentation. Northwestern University/Feinberg School of Medicine Anesthesiology Grand Rounds. September 6, 2002.
23. "*The Infragluteal-Parabiceps Approach to Sciatic Nerve Block-Effect of Evoked Motor Response on Latency and Success Rate of Block*". **Oral** Presentation. American Society of Anesthesiologists Annual Meeting. Orlando, FL. October 2002.
24. "*Reflex Sympathetic Dystrophy: A Case Presentation and Discussion*". **Oral** Presentation. Illinois State Society of Anesthesiologists Annual Meeting. Oak Brook, IL., November 10, 2002.
25. "*Sciatic Nerve Block, Saphenous Nerve Block, Ankle Block.*" **Oral** Presentation/Workshop. American Society of Regional Anesthesia Annual Meeting. San Diego, CA, April 2003.
26. "*Central Neuraxial Blockade in the Patient Taking Anticoagulants.*" **Oral** Presentation/Case Discussion. American Society of Regional Anesthesia Annual Meeting. San Diego, CA, April 2003.
27. "*Update on Peripheral Nerve Blocks*". **Oral** Presentation. Midwest Anesthesia Conference Annual Scientific Meeting & Exhibition. Chicago, IL, May 2, 2003.
28. "*Differential Neural Blockade for Diagnosis of Pain Mechanisms*". **Oral** Presentation. Dannemiller Memorial Education Foundation Intensive Review of Pain Management. Chicago, IL. September 7, 2003.

29. "*Intrathecal and Epidural Neurolysis for Management of Cancer Pain*" **Oral** Presentation. Dannemiller Memorial Education Foundation Intensive Review of Pain Management., Chicago, IL, September 9, 2003.
30. "*Complex Regional Pain Syndrome*". **Oral** Presentation. Dannemiller Memorial Education Foundation Intensive Review of Pain Management. Chicago, IL, September 10, 2003.
31. "*Acute Herpes Zoster and Postherpetic Neuralgia*". **Oral** Presentation. Dannemiller September 10, 2003 Memorial Education Foundation Intensive Review of Pain Management. Chicago, IL.
32. "*Neurostimulation Assisted Femoral Nerve Block (FNB): Anatomical Indicators for Seeking the Optimal Motor Response*". **Oral** Presentation. American Society of Anesthesiologists Annual Meeting. San Francisco, CA, October 14, 2003.
33. "*Brief Review of Cardiovascular Complications Following Epidural Anesthesia*". **Oral** Presentation. Northwestern University/Feinberg School of Medicine Department of Anesthesiology Grand Rounds. Chicago, IL, December 5, 2003.
34. "*Update on Peripheral Nerve Block Techniques of the Upper and Lower Extremities*". **Oral** Presentation. University of Illinois Department of Anesthesiology Grand Rounds. Chicago, IL., December 8, 2003.
35. "*Complex Regional Pain Syndrome*". **Oral** Presentation. Dannemiller Memorial Education Foundation 14<sup>th</sup> Annual Review of Pain. January 17, 2004, Scottsdale, AZ. "*The Use of Steroids in the Management of Pain*". **Oral** Presentation. Dannemiller Memorial Education Foundation 14<sup>th</sup> Annual Review of Pain. Scottsdale, AZ., January 18, 2004.
36. "*Intrathecal and Epidural Neurolysis for Managing Cancer Pain*". **Oral** Presentation. Dannemiller Memorial Education Foundation 14<sup>th</sup> Annual Review of Pain. Scottsdale, AZ., January 19, 2004.
37. "*Interscalene and Intersternocleidomastoid Brachial Plexus Blocks*". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) Annual Meeting. Orlando, FL., March 12, 2004.
38. "*Steroids for Interventional Pain Management*". **Oral** Presentation. Society for Pain Practice Management. Scottsdale, AZ., March 18, 2004.

39. "*Interventional Pain Practice Techniques*" **Oral** Presentation. Society for Pain Practice Management. Boston, MA, July 16, 2004.
40. "*Peripheral Nerve Block Techniques for Upper and Lower Extremity Surgery*". **Oral** Presentation. Northwestern University/Feinberg School of Medicine Department of Anesthesiology Grand Rounds. Chicago, IL., August 6, 2004.
- 41.-47.: Lectures at the Dannemiller Intensive Review of Pain Management Course: **Oral** Presentations: Topics: *Complex Regional Pain Syndrome; Differential Neural Blockade as a Diagnostic Tool in Pain Management; The Use of Steroids in Pain Management; Subarachnoid Neurolytic Blocks for The Management of Cancer Pain; Acute Herpes Zoster and Postherpetic Neuralgia*; Chicago, IL., August 28-September 2, 2004.
48. "*Neurologic Complications following Interscalene Brachial Plexus Block for Shoulder and Upper Extremity Surgery.*" **Oral** Presentation: American Society of Anesthesiologist's Annual Meeting. Las Vegas, NV. (A-1120), October 26, 2004.
49. "*Neuropathic Pain States Including Complex Regional Pain Syndrome.*" **Oral** Presentation: St. Louis University (SLU) Medical College Department of Anesthesiology Grand Rounds. St. Louis, MO., December 15, 2004.
50. "*The Use of Steroidal Medications for Interventional Pain Management.*" **Oral** Presentation: Loyola University Pain Grand Rounds. Maywood, IL, January 13, 2005.
- 51.-56.: Lectures at The Dannemiller Intensive Review of Pain Management Course: **Oral** Presentations: Topics: *Regional Anesthetic Techniques for the Pain Specialist; Steroids for Pain Management; Complex Regional Pain Syndrome; Herpes Zoster and Postherpetic Neuralgia; Differential Neural Blockade for Pain Diagnoses; Intrathecal and Epidural Neurolysis for Cancer Pain*; Scottsdale, AZ., January 15-19, 2005.
57. "*Herpes Zoster and Postherpetic Neuralgia.*" **Oral** Presentation: Loyola University Pain Grand Rounds. Maywood, IL., January 27, 2005.
58. "*RSD and Complex Regional Pain Syndrome.*" **Oral** Presentation: Loyola University Pain Grand Rounds. Maywood, IL., February 10, 2005.

- 59." *Regional Blocks for the Management of Pain of the Extremities.*" **Oral** Presentation: Loyola University CA-3 weekly lecture series. Maywood, IL., February 15, 2005.
- 60." *How to Use Steroids in Your Pain Practice.*" **Oral** Presentation: Society for Pain Practice Management (SPPM). Scottsdale, AZ., March 15, 2005.
- 61." *Neurolytic Blocks for Cancer Pain Management.*" **Oral** Presentation: Loyola University Pain Grand Rounds. Maywood, IL, March 24, 2005.
- 62.-67.: Lectures for Northwest Anesthesia Seminars: "Winning Topics in Anesthesia": **Oral** Presentations: Topics: *How to Make Regional Anesthesia of the Upper Extremity Work; How to Make Regional Anesthesia of the Lower Extremity Work; Herpes Zoster and Postherpetic Neuralgia; Reflex Sympathetic Dystrophy; Neurolytic Blocks in Pain Management; Steroids in Pain Management*; Las Vegas, NV., April 12-15, 2005.
- 68." *Twelve Questions That Form the Foundation of The Pain History Evaluation Process*". **Oral** Presentation: Loyola University Pain Grand Rounds. Maywood, IL., May 5, 2005.
- 69." *Regional Anesthesia of the Upper and Lower Extremities*". **Oral** Presentation: Midwest Anesthesia Conference (MAC). Chicago, IL, May 20, 2005.
- 70." *Update on Peripheral Nerve Block Techniques for Upper and Lower Extremity Surgery*". **Oral** Presentation: Grand Rounds; Department of Anesthesiology, Loyola University-Stritch School of Medicine, Maywood, IL., June 1, 2005.
- 71." *Sympathetically-Mediated Pain States*". **Oral** Presentation: Grand Rounds; Department of Physical Medicine and Rehabilitation, Loyola University-Stritch School of Medicine, Maywood, IL, June 14, 2005.
- 72.-74. Lectures for the St. Louis University Anesthesia Review. St. Louis, MO. **Oral** Presentations. Topics: *"Postoperative Care of the Surgical Patient", "Regional Block Techniques for Upper Extremity Surgery", "Regional Block Techniques for Lower Extremity Surgery"*. June 20, 2005.
- 75.-78. Lectures for the Northwest Anesthesia Seminars Meeting. Chicago, IL. **Oral** Presentations. Topics: *"Making Regional Anesthesia of the Upper Extremity Work", "Making Regional Anesthesia of the Lower Extremity Work", "Steroids and Pain Management", "Herpes Zoster and Post-Herpetic Neuralgia"*., July 9-10, 2005.

- 79.-80. "*Pharmacology of Local Anesthetics*"; "*Toxicity of Local Anesthetics*". **Oral** Presentations and Examination. CA-1 Orientation Lecture Series. Loyola University, Department of Anesthesiology, Maywood, IL, July 21, 2005.
81. "*Nociceptive Pain: Diagnosis and Treatment*". **Oral** Presentation. Grand Rounds; Department of Anesthesiology/Pain Management. Loyola University, Maywood, IL., July 21, 2005.
- 82.-89. Lectures for The Dannemiller Memorial Education Foundation Pain Board Review Course (Also, Served as **Course Co-Director**). August 27-31, 2005, Chicago, IL. **Oral** Presentations. Topics: "*Nociceptive Pain*", "*Sympathetic Nervous System Pain*", "*Trauma and Surgical Pain Management*", "*Pelvic Pain-Diagnosis and Management*", "*Steroids for Pain Management*", "*Spinal and Epidural Blocks*", "*Regional Anesthesia of the Upper Extremity*", "*Regional Anesthesia of the Lower Extremity*".
- 90.-91. "*Use of Steroids in Interventional Pain Management*", "*Regional Anesthesia for Managing Pain of the Upper and Lower Extremities*". **Oral** Presentations. Society for Pain Practice Management (SPPM). November 12 & 13, 2005, St. Louis, Mo.
- 92.-95. "*Interventional Pain Management-An Overview*", "*Controversies in the Use of Steroids for Pain Management Including Transforaminal vs. Interlaminar Injection Techniques*", "*Regional Blocks for Upper Extremity Pain*", "*Regional Blocks for Lower Extremity Pain*". **Oral** Presentations. Dannemiller Memorial Education Foundation 16<sup>th</sup> Annual Review of Pain Management. Also-**Course Co-Director**. Scottsdale, AZ, January 13-15, 2006.
96. "*Pain Management of the Extremities Using Regional Block Techniques*". **Oral** Presentation. Loyola University Department of Anesthesiology CA-3 Lectures. Maywood, IL. January 24, 2006.
97. "*How to Use Steroids for Interventional Pain Management*". **Oral** Presentation. Loyola University Department of Anesthesiology Grand Rounds Lectures. Maywood, IL. February 8, 2006.
98. "*Epidural Anesthesia*". **Oral** Presentation. Loyola University Department of Anesthesiology CA-1 Lecture Series. Maywood, IL. March 9, 2006.
99. "*Integrating Regional Anesthesia into Acute Pain Management*". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) Annual Meeting. Palm Springs, CA. April 6, 2006. (**Refresher Course Lecture**)



100. "*Panel Discussion on Spinal Anesthesia in Outpatients*". **Oral** Presentation. ASRA Annual Meeting. Palm Springs, CA. April 7, 2006.
101. "*Regional vs. General Anesthesia for Hip Fracture Surgery*". **Oral** Presentation. ASRA Annual Meeting. Palm Springs, CA. April 8, 2006.
102. "*Update on Regional Anesthesia for Upper Extremity Surgery.*" **Oral** Presentation. Northwest Anesthesia Seminars, International Trauma Anesthesia and Critical Care Society (ITAACCS) Meeting. Cozumel, Mexico. April 23-28, 2006.
103. "*Update on Regional Anesthesia for Lower Extremity Surgery.*" **Oral** Presentation. ITAACCS Meeting. Cozumel, Mexico. April 23-28, 2006.
104. "*Trauma Pain Management*". **Oral** Presentation. ITAACCS Meeting, Cozumel, Mexico. April 23-28, 2006.
105. "*Intensive Review of Spinal and Epidural Block*". **Oral** Presentation. ITAACCS Meeting, Cozumel, Mexico. April 23-28, 2006.
106. "*Local Anesthetic Pharmacology*". **Oral** Presentation. Loyola University Department of Anesthesiology CA-1 Lecture Series. Maywood, IL. June 8, 2006. "*Steroids for Pain Management*". **Oral** Presentation. Northwest Anesthesia Seminars (NWAS). Chicago, IL., June 29, 2006.
107. "*Complex Regional Pain Syndrome*". **Oral** Presentation. NWAS Meeting. Chicago, IL., June 29, 2006.
108. "*Sympathetic Nervous System Pain*". **Oral** Presentation. NWAS Meeting. Chicago, IL., June 29, 2006.
109. "*Interscalene and Infraclavicular Brachial Plexus Blocks*". **Oral** Presentation. NWAS Meeting. Chicago, IL., July 1, 2006.
110. "*Neurologic Complications of Interscalene Brachial Plexus Blocks*". **Oral** Presentation. NWAS Meeting. Chicago, IL., July 1, 2006.

111. "*Spinal and Epidural Block*". **Oral** Presentation. NWAS Meeting. Virginia Beach, VA., August 3, 2006.
112. "*Combined Spinal-Epidural Block*". **Oral** Presentation. NWAS Meeting. Virginia Beach, VA., August 3, 2006.
113. "*Regional Anesthesia for Arm Surgery*". **Oral** Presentation. NWAS Meeting. Virginia Beach, VA., August 3, 2006.
114. "*Regional Anesthesia for Leg Surgery*." **Oral** Presentation. NWAS Meeting. Virginia Beach, VA., August 3, 2006.
115. "*Steroids in Pain Management*". **Oral** Presentation. NWAS Meeting. Virginia Beach, VA., August 3, 2006.
116. "*Celebrex for Acute Pain Management*". **Oral** Presentation. Pfizer Sponsored Meeting for Orthopaedic Surgery Residents. Chicago, IL., August 24, 2006.
- 117-124. "*Nociceptive Pain*", "*Sympathetic Pain Mechanisms*", "*Trauma Pain Management*", "*Pelvic Pain Anatomy*", "*Pelvic Pain Diagnosis and Treatment*", "*Steroids for Pain Management*", "*Upper Extremity Regional Anesthesia for Pain Management*", "*Lower Extremity Pain Management*", "*Spinal and Epidural Block*". **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Review of Pain Management and Board Review Course (**Course Co-Director**). Chicago, IL., August 26 –August 30, 2006.
125. "*Regional Blocks for Pain Management*". **Oral** Presentation. Loyola University Department of Anesthesiology CA-3 Lecture Series. Maywood, IL., September 5, 2006.
126. "*Integrating Regional Anesthesia into the Acute Pain Service*". **Oral** Presentation. Grand Rounds Invited Professorship Lecture. Hospital for Special Surgery, New York, N.Y., September 14, 2006.
127. "*Journal Club Moderator: Friday Morning HSS Journal Club*". **Oral** Presentation. Hospital for Special Surgery, New York, N.Y., September 15, 2006.
128. "Case Presentation and Discussion: *Cervical Radiculopathy*". **Oral** Presentation. Society

for Pain Practice Management, Kansas City, MO. Also-**Course Director**. September 28, 2006.

129. "Case Presentation and Discussion: *Internal Disc Disruption*". **Oral** Presentation. Society for Pain Practice Management, Kansas City, MO., September 28, 2006.
130. "Case Presentation and Discussion: *Vertebral Compression Fracture*". **Oral** Presentation. Society for Pain Practice Management, Kansas City, MO., September 29, 2006.
131. "Case Presentation and Discussion: *Metastatic Spinal Lesion*". **Oral** Presentation. Society for Pain Practice Management, Kansas City, MO., September 29, 2006.
132. "Case Presentation and Discussion: *Cauda Equina Syndrome*". **Oral** Presentation. Society for Pain Practice Management, Kansas City, MO., September 29, 2006.
133. "*Radiofrequency Techniques: Theory and Practice*". **Oral** Presentation. Society for Pain Practice Management, Kansas City, MO., October 1, 2006.
134. "*Transforaminal and Midline Epidural Steroid Injections: Indications, Techniques, and Controversies*". **Oral** Presentation. American Society of Regional Anesthesia Annual Fall Pain Meeting, San Francisco CA., November 19, 2006.
134. "*Epidural Block for Surgery and Pain Management*". **Oral** Presentation. Loyola University Department of Anesthesiology CA-1 Lecture, Maywood, IL. January 25, 2007.
135. "*Integrating Regional Anesthesia into Postoperative Pain Management*". **Oral** Presentation. Illinois Masonic Medical Center Department of Anesthesiology Invited Grand Rounds Lecture, Chicago, IL., February 20, 2007.
136. "*Radiofrequency Ablation*". **Oral** Presentation. Stryker Interventional Pain Cadaver Course and Didactic Session, Chicago, IL. Also-**Course Director**. *March 10, 2007*.
137. "*Advanced Techniques of Interventional Pain Management*". **Oral** Presentation. SPPM Annual Meeting, Scottsdale AZ. Also-**Course Director**. *March 14, 2007*.
138. "*Transforaminal vs. Interlaminar Epidural Steroid Injections*". **Oral** Presentation. Society for Pain Practice Management Annual Meeting, Scottsdale AZ. *March 16, 2007*.

139. "*Radiofrequency Use in Interventional Pain Management*". **Oral** Presentation. University of Cincinnati College of Medicine, Cincinnati OH. Also-**Course Director**. March 17, 2007.
140. "*Non-Opioid Analgesics For Perioperative Pain Control: A Multimodal Approach*". **Oral** Presentation. Loyola University Medical Center Pain Management Committee Meeting, Maywood, IL. March 27, 2007.
141. "*Managing Regional Anesthetic-Related Complications*". **Oral** Presentation. American Society of Regional Anesthesia Annual Meeting, Vancouver, April 19, 2007. (**Refresher Course Lecture**)
142. "*Brachial Plexus Blocks Below the Clavicle*". **Oral** Presentation and Workshop. ASRA Annual Meeting, Vancouver, April 19, 2007.
143. "*Continuous Nerve Blocks/Upper Extremity*". **Oral** Presentation and Workshop. ASRA Annual Meeting, Vancouver, April 19, 2007.
144. "*Thoracic Epidural Blocks*". **Oral** Presentation and Workshop. ASRA Annual Meeting, Vancouver, April 20, 2007.
145. "*Regional Blockade: Neuraxial Anatomy and Spinal and Epidural Analgesia*". **Oral** Presentation. ASRA Annual Meeting, Vancouver, April 20, 2007.
146. "*Brachial Plexus Blocks Above the Clavicle*". **Oral** Presentation and Workshop. ASRA Annual Meeting, Vancouver, April 21, 2007.
147. "*Techniques and Approaches in Regional Anesthesia*" (**Moderator**). ASRA Annual Meeting, Vancouver, April 22, 2007.
148. "*Local Anesthetic Pharmacology*". **Oral** Presentation. Loyola University Medical Center Department of Anesthesiology CA-I Lecture. Maywood, IL, April 26, 2007.
149. "*Managing Regional Anesthesia Related Complications.*" **Oral** Presentation. Loyola University Medical Center Department of Anesthesiology Grand Rounds Lecture. Maywood, IL, May 2, 2007.

- 150-157. Lectures of the Baylor College of Medicine via Northwest Anesthesia Seminars Lecture Series. **Oral** Presentations (8): *“Upper Extremity Regional Anesthesia”*; *“Lower Extremity Regional Anesthesia”*; *“Spinal and Epidural Block”*; *“Combined-Spinal-Epidural Block”*; *“Cardiovascular Complications of Epidural Block”*; *“Managing Regional Anesthesia-Related Complications”*; *“Herpes Zoster and Postherpetic Neuralgia”*; *“Steroids for Pain Management”*. Atlanta, GA, May 3-6, 2007.
- 158-165. Lectures of the Baylor College of Medicine via Northwest Anesthesia Seminars Lecture Series. **Oral** Presentations (8): *“Making Upper Extremity Brachial Plexus Block Work in Your Practice”*; *“Making Lower Extremity Regional Anesthesia Work in Your Practice”*; *“Complex Regional Pain Syndrome”*; *“Steroid Use in Pain Management”*; *“Combined Spinal-Epidural Block for Surgery and Obstetrics”*; *“Cardiovascular Complications of Epidural Block”*; *“Hypotension and Bradycardia after Epidural Block”*; *“Epidural Block for Vascular Surgery”*. Anaheim, CA, June 25-28, 2007.
166. *“Radiofrequency: Theory and Practice.”* **Oral** Presentation. Medical College of Wisconsin Department of Pain Management Conference and Cadaver Workshop. Also-**Course Director**. Waukesha, WI, July 21, 2007.
167. *“Local Anesthetic Pharmacology.”* **Oral** Presentation. Loyola University Medical Center Department of Anesthesiology CA-1 Lecture Series. Maywood, IL, August 16, 2007.
168. *“Radiofrequency Fundamentals for Interventional Pain Physicians.”* **Oral** Presentation. Loyola University Medical Center Pain Management Grand Rounds. Maywood, IL, August 16, 2007.
169. *“Discography: Theory and Practice.”* **Oral** Presentation. Loyola University Medical Center Pain Management Grand Rounds. Maywood, IL, August 23, 2007.
- 170-180. *“Nociceptive Pain; Sympathetic Nervous System Pain Management; Trauma Pain Management; Pelvic Pain Anatomy; Pelvic Pain Treatment; Steroids for Pain Management; Upper Extremity Pain Management; Lower Extremity Pain Management; Head and Neck Nerve Blocks for Pain Management; Spinal and Epidural Block for Pain Management.”* **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Review of Pain Management and Board Review Course. Also served as **Course Co-Director**. Chicago, IL, August 26-33, 2007.
181. *“Nerve Blocks of the Head and Neck for Chronic Pain Management”*. **Oral** Presentation. Loyola University Department of Pain Management Grand Rounds Lecture. Maywood, IL, September 6, 2007.

- 182-186. "*Interventions for Pain of the Head and Neck; Case Studies: Head and Neck Pain; Provocation Manometric Discography: Role in Discogenic Pain Diagnosis; Case Studies in Low Back Pain; Radiofrequency: Theory and Practice.*" **Oral** Presentations. Society for Pain Practice Management Cadaver Course. Also served as **Course Director**. Hilton Head, SC, September 26-30, 2007.
187. "*Acute Pain Service: From PCEA to PCRA.*" Moderator and Panel Discussion. **Oral** Presentation. American Society of Anesthesiologists Annual Meeting. San Francisco, CA, October 17, 2007.
188. "*Integrating Regional Anesthesia into Postoperative Pain Management.*" **Oral** Presentation. Alexian Brothers Hospital Network CME Consortium: The Second Annual Pain Management Symposium: War on Pain. Hoffman Estates, IL, October 27, 2007.
189. "*Epidural Analgesia.*" **Oral** Presentation. Loyola University Medical Center Department of Anesthesiology CA-1 Lecture Series. Maywood, IL, November 1, 2007.
190. "*The Acute Pain Service: Setting it up Right.*" **Oral** Presentation. Loyola University Medical Center Department of Anesthesiology Pain Management Grand Rounds. Maywood, IL, November 1, 2007.
191. "*Ultrasound Guided Femoral Nerve Blocks.*" **Oral** Presentation and Live Model Workshop Demonstration. Illinois Society of Anesthesiologists Annual Meeting. Chicago, IL, November 2, 2007.
192. "*Ultrasound Guided Sciatic and Femoral Nerve Blocks.*" **Oral** Presentation and Live Model Workshop Demonstration. Illinois Society of Anesthesiologists Annual Meeting. Chicago, IL, November 3, 2007.
193. "*The Acute Pain Service: Setting it up Right.*" **Oral** Presentation. Illinois Society of Anesthesiologists Annual Meeting. Chicago, IL, November 3, 2007.
194. "*Zygapophyseal Joint Pain: Chronic Head and Neck Pain.*" **Oral** Presentation. American Society of Regional Anesthesia Annual Meeting. (ASRA) Boca Raton, FL, November 15, 2007.
195. "*Atlanto-Axial and Atlanto-Occipital Joint Pain Workshop.*" **Oral** Presentation and Session Moderator. ASRA Annual Meeting. Boca Raton, FL, November 15, 2007.

196. "*Neurolytic Agents for Cancer Pain.*" Problem-Based Learning Discussion/**Oral** Discussion. ASRA Annual Meeting. Boca Raton, FL, November 15, 2007.
197. "*Workshop: Discography, Intradiscal Procedures/Oral Discussion.*" ASRA Annual Meeting. Boca Raton, FL, November 16, 2007.
198. "*Workshop: Celiac Plexus Block, Splanchnic Nerve Block, Lumbar Sympathetic Block.*" **Oral** Presentation." ASRA Annual Meeting. Boca Raton, FL, November 16, 2007.
199. "*Failed-Spine Surgery Syndrome.*" Problem-Based Learning Discussion/**Oral** Presentation. ASRA Annual Meeting. Boca Raton, FL, November 16, 2007.
200. "*Neurolytic Agents for Pain Management.*" **Oral** Presentation and Session Moderator. ASRA Annual Meeting. Boca Raton, FL, November 17, 2007.
201. "*The Use of Non-Steroidal Antiinflammatory Medications for Perioperative Pain Control.*" **Oral** Presentation. Loyola University Department of Anesthesiology Pain Grand Rounds. Maywood, IL, December 6, 2007.
202. "*Brachial Plexus Blocks: Update and the Year in Review.*" **Oral** Presentation. NYSORA (New York School of Regional Anesthesia) Annual Meeting. New York, N.Y., December 15, 2007.
203. "*Peripheral Nerve Block Techniques of the Lower Extremity.*" **Oral** Presentation and Live Model Demonstration. NYSORA Annual Meeting. New York, N.Y., December 16, 2007.
204. "*Brachial Plexus Blocks For Upper Extremity Surgery: Update for 2007.*" **Oral** Presentation. Loyola University Department of Anesthesiology Pain Grand Rounds. Maywood, IL, December 20, 2007.
205. "*Spinal Anesthesia for Surgery.*" **Oral** Presentation. Loyola University Department of Anesthesiology CA-1 Lecture Series. Maywood, IL, January 24, 2008.
206. "*Multi-Modal Analgesia in the Perioperative Period.*" **Oral** Presentation. Illinois Masonic Medical Center Department of Internal Medicine Grand Rounds. Chicago, IL, February 13, 2008.

207. "*Brachial Plexus Blocks: An Update and Review of the Literature*". **Oral** Presentation. Rush Presbyterian St. Luke's Medical Center Department of Anesthesiology **Grand Rounds Presentation**. Chicago, IL, February 27, 2008.
208. "*Update on Brachial Plexus Anesthesia*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Lecture Series. Chicago, IL, February 28, 2008.
209. "*Epidural Steroid Injections: Interlaminar vs. Transforaminal: Resolving the Controversies*". **Oral** Presentation. Society for Pain Practice Management. 21<sup>st</sup> Annual 2-Day Interventional Anatomical Course. Also served as **Course Director**. Phoenix, AZ, March 6-7, 2008.
210. "*Use of Steroids for Interventional Pain Management*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Lecture Series. Chicago, IL, April 9, 2008.
211. "*Spinal Anesthesia: Theory and Practice*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Lecture Series. Chicago, IL, April 24, 2008.
212. "*Brachial Plexus Blocks above the Clavicle*". **Oral** Presentation and Workshop. American Society of Regional Anesthesia (ASRA) Annual Meeting. Cancun, Mx, May 1, 2008. (Also served as **Meeting Chairman**).
213. "*Femoral, Lateral Femoral Cutaneous Nerve and Obturator Nerve Block*". **Oral** Presentation and Workshop. ASRA Annual Meeting. Cancun, Mx, May 2, 2008. (Also served as **Meeting Chairman**).
214. "*Upper Extremity Blocks for Surgery*". **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Meeting. Chicago, IL, May 6, 2008.
215. "*Lower Extremity Blocks for Surgery*". **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Meeting. Chicago, IL, May 6, 2008.
216. "*Radiofrequency in Pain Management*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Lecture Series. Chicago, IL, May 14, 2008. "*Upper Extremity Blocks for Surgery*". **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Meeting. Chicago, IL, May 6, 2008.



217. "*Upper Extremity Blocks for Surgery*". **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Meeting. San Antonio TX, June 10, 2008.
218. "*Lower Extremity Blocks for Surgery*". **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Meeting. San Antonio TX, June 10, 2008.
219. "*Brachial Plexus Blocks for Upper Extremity Surgery*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. June 24, 2008.
220. "*Ultrasound for Nerve Blocks*". **Oral** Presentation and Workshop Moderator. Sonosite Medical Innovations Series 2008. Chicago, IL. June 26, 2008.
221. "*Spinal Anesthesia for Surgery*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology CA-1 Lecture Series. Chicago, IL. July 27, 2008.
222. "*Vertebroplasty and Spinal Cord Stimulation: Two Case Discussions*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. August 5, 2008.
- 223-233. "*Trauma Pain Management*"; "*Sympathetic Nervous System Pain*"; "*Nociceptive Pain*"; "*Pelvic Pain: Anatomy and Physiology*"; "*Pelvic Pain Management*"; "*Steroids for Use in Interventional Pain Management*"; "*Upper Extremity Block in Pain Management*"; "*Lower Extremity Block in Pain Management*"; "*Head and Neck Blocks for Managing Pain*"; "*Spinal and Epidural Blocks: Basic Science and Clinical Considerations*". **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Pain Board Review Course. Also served as **Course Co-Director** Chicago, IL. August 22-28, 2008.
234. "*Reflex Sympathetic Dystrophy and Complex Regional Pain Syndrome*". **Oral** Presentation. Workers' Compensation Lawyers Association 2008 Medical Seminar Meeting. Chicago, IL. September 26, 2008.
235. "*Radiofrequency Techniques-Basic and Clinical Science*". **Oral** Presentation. Also: Cadaver Workshop: **Program Director**. Hinsdale Orthopaedic Center. Hinsdale, IL., September 27, 2008.

236. "Should Epidural Catheter Removal Carry the Same Scrutiny as Insertion"? Pro-Con. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. September 30, 2008.
- 237-238. "Case Studies-Cervical Spine". "Case Studies-Lumbar Spine". **Oral** Presentations. Also served as **Course Director**, Anatomical Cadaver Workshops. Society for Pain Practice Management. Kansas City, MO., October 2-5, 2008.
239. "Pelvic Pain-The Interventionalist's Perspective". **Oral** Presentation/Invited Guest Lecture. Advocate Illinois Masonic Medical Center Department of Obstetrics & Gynecology Grand Rounds. Chicago, IL. October 14, 2008.
240. "Successful Pulsed Radiofrequency of the Lateral Femoral Cutaneous Nerve after Multiple blocks for Meralgia Paresthetica". **Poster & Oral** Presentation. American Society of Anesthesiologists' Annual Meeting. Orlando, FL., October 20, 2008.
241. "Bilateral Infraclavicular Block for Bilateral Upper Extremity Fractures". **Poster & Oral** Presentation. American Society of Anesthesiologists' Annual Meeting. Orlando, FL., October 20, 2008.
242. "Reduced Concentration Phenol Caudal Epidural Block for Intractable Rectal Pain due to Cancer". **Poster & Oral** Presentation. American Society of Anesthesiologists' Annual Meeting. Orlando, FL., October 20, 2008.
243. "Phantom Limb Pain". **Oral** Presentation. American Society of Anesthesiologists' Annual Meeting. Orlando, FL., October 20, 2008.
244. "Cervical Medial Branch Blocks and Radiofrequency for Chronic Head and Neck Pain". **Oral** Presentation. American Society of Anesthesiologists' Annual Meeting. Orlando, FL., October 20, 2008.
245. Session Moderator: Refresher Course Lectures (15). American Society of Regional Anesthesia Annual Fall Pain Meeting and Workshops. (Also served as **Meeting Chairman**). Huntington Beach, CA. November 20, 2008.
246. "Transforaminal Lumbar Epidural Steroid Injections" **Oral** Presentation and Workshop. American Society of Regional Anesthesia Annual Fall Pain Meeting and Workshops. (Also served as **Meeting Chairman**). Huntington Beach, CA. November 21, 2008.

- 247-248. "*Fluoroscopic Anatomy Review for Interventional Pain Management Procedures*". **Oral** Presentation and Workshop. American Society of Regional Anesthesia Annual Fall Pain Meeting and Workshops. (Also served as **Meeting Chairman**). Huntington Beach, CA. November 21, 2008.
249. Session Moderator: Complications of Interventional Pain Management Procedures (4). American Society of Regional Anesthesia Annual Fall Pain Meeting and Workshops. (Also served as **Meeting Chairman**). Huntington Beach, CA. November 22, 2008.
250. "*Radiofrequency Techniques for Managing Pain of the Cervical Spine*". **Oral** Presentation. American Society of Regional Anesthesia Annual Fall Pain Meeting and Workshops. (Also served as **Meeting Chairman**). Huntington Beach, CA. November 22, 2008.
251. "*Interventional Pain Management*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Nursing Education and Palliative Care Grand Rounds. Chicago, IL., December 8, 2008.
252. "*Update on Muscle Relaxants*". **Oral** Presentation. Ingalls Memorial Hospital Department of Anesthesiology **Grand Rounds**. Olympia Fields, IL, January 31, 2009.
253. "*Local Anesthetics: A Basic Review*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. February 4, 2009.
254. "*Spinal and Epidural Anesthesia*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. February 11, 2009.
255. "*Brachial Plexus Blocks for Surgery of the Upper Extremity*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL., February 18, 2009.
256. "*Lower Extremity Nerve Blocks for Surgery of the Lower Extremity*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL., February 25, 2009.
257. "*Sympathetic Nervous System and Pain Management*". **Oral** Presentation. Advocate

Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. March 4, 2009.

258. "*Neuropathic Pain: DPN and PHN*". **Oral** Presentation. Pri-Med Midwest Conference (Harvard Medical School). Rosemont, IL. March 6, 2009.
259. "*Trauma Pain Management*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. March 26, 2009.
260. "*Spinal Interventions for Chronic Pain Management*". **Oral** Presentation. Society for Pain Practice Management (SPPM). Phoenix, Az., April 1, 2009. (Also: Course Director: Cadaver Workshops).
261. "*Managing Head and Neck Pain-Case Studies*". **Oral** Presentation. Society for Pain Practice Management (SPPM). Phoenix, Az., April 1, 2009. (Also: Course Director).
262. "*Managing Low Back and Radicular Pain-Case Studies*". **Oral** Presentation. Society for Pain Practice Management (SPPM). Phoenix, Az., April 1, 2009. (Also: Course Director).
264. "*Provocation Manometric Discography; Disc Stimulation; Discogenic Pain*". **Oral** Presentation. Society for Pain Practice Management (SPPM). Phoenix, Az., April 3, 2009. (Also: Course Director).
265. "*Regional Anesthesia in the Patient with a Preexisting Neuropathy*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL., April 28, 2009.
266. "*Managing a Regional Anesthesia Complication-Medical and Legal Perspectives*". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) Annual Spring Meeting. Phoenix, Az., April 30, 2009.
267. "*Regional Anesthesia and the Patient with a Preexisting Neuropathy*". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) Annual Spring Meeting. Phoenix, Az., May 1, 2009.
268. "*Femoral, Lateral Femoral Cutaneous, Obturator, Psoas Blocks*". **Oral** Presentation and Workshop. American Society of Regional Anesthesia (ASRA) Annual Spring Meeting.

Phoenix, Az., May 1, 2009.

269. “*Continuous Femoral, Lateral Femoral Cutaneous, Obturator, Psoas Blocks*”. **Oral** Presentation and Workshop. American Society of Regional Anesthesia (ASRA) Annual Spring Meeting. Phoenix, Az., May 2, 2009.
- 270-274. “*Regional Anesthesia for Upper Limb Surgery*”; “*Regional Anesthesia for Lower Limb Surgery*”; “*Ultrasound-Basic Science and Clinical Applications for Regional Anesthesia*”; “*Ultrasound Guided Nerve Block Hands-On Workshop*” (**Course Director**). **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Review Course Meeting. Chicago, IL. May 13, 2009.
- 275-277. “*Regional Anesthesia for Upper Limb Surgery*”; “*Regional Anesthesia for Lower Limb Surgery*”; “*Ultrasound-Basic Science and Clinical Applications for Regional Anesthesia*”; “*Ultrasound Guided Nerve Block Hands-On Workshop*” (**Course Director**). **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Review Course Meeting. San Antonio, Tx. June 16, 2009.
278. “*Local Anesthetic Pharmacology: A Basic Science and Clinical Review*”. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL. July 17, 2009.
- 279-288. “*Trauma Pain Management*”; “*Sympathetic Nervous System Pain*”; “*Nociceptive Pain*”; “*Pelvic Pain: Anatomy and Physiology*”; “*Pelvic Pain Management*”; “*Steroids for Use in Interventional Pain Management*”; “*Upper Extremity Block in Pain Management*”; “*Lower Extremity Block in Pain Management*”; “*Head and Neck Blocks for Managing Pain*”; “*Spinal and Epidural Blocks: Basic Science and Clinical Considerations*”. **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Pain Board Review Course. Also served as **Course Co-Director** Chicago, IL. August 22-27, 2009.
289. “*Society for Pain Practice Management Two-Day Cadaver Workshop for Pain Management*”. **Course Director**. Kansas City, MO., September 26-27, 2009.
290. “*Ultrasound Guided Nerve Blocks*”. **Workshop** Presentation. Illinois Society of Anesthesiologists Annual MAC Meeting. Chicago, IL. September 26, 2009.
291. “*Pain Management in Obstetrics and Gynecological Surgery*”. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Obstetrics and Gynecology Grand Rounds. Chicago, IL. September 29, 2009.

292. "*Regional Anesthesia in the Opioid Tolerant Patient*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds. Chicago, IL., October 16, 2009.
293. "*Head and Neck Blocks*". **Oral** Presentation and Cadaver Workshop. American Society of Anesthesiologists Annual Meeting. New Orleans, LA., October 17, 2009.
294. "*Perioperative Regional Anesthesia in the Opioid Tolerant Patient for Knee Replacement Surgery*". **Oral** Presentation. Panel Discussion. ASA Annual Meeting. New Orleans, LA., October 19, 2009.
295. "*Buprenorphine Enhances and Prolongs the Postoperative Analgesic Effect of Bupivacaine in Patients Receiving Infragluteal Sciatic Nerve Block at the Expense of Increased Nausea and Vomiting*". **Poster and Oral** Presentation. ASA Annual Meeting. New Orleans, LA., October 19, 2009.
296. "*Perioperative Fatal Hemispheric Embolic CVA after Radical Prostatectomy*": A Calling for Urgent Strategic Management and Revisit Definition of "Patient Last Seen Neurologically Normal at Induction Time". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.
297. "*Rise in End Tidal CO<sub>2</sub> Precedes Subcutaneous Emphysema in Laparoscopic Robotic Surgery*". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.
298. "*Cesarean Section in a Patient with Postlaminectomy, Cervical Kyphosis and Partially Treated Type I Chiari Malformation with Syringomyelia*". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.
299. "*Post-Brain Tumor Resection Magnetic Resonance Imaging (MRI) is Essential Prior To Spinal Blockade for Parturients Undergoing Cesarean Section*". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.
300. "*Nitroglycerine Administered with Sevoflurane Provided Superior Uterine Relaxation than Sevoflurane Alone for Retained Placenta: A Case Report*". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.
301. "*Pain Management of Parsonage-Turner Syndrome*". **Poster** Presentation. ASA Annual Meeting. New Orleans, LA., October 18-19, 2009.

302. Session Moderator: ASA Scientific Abstracts; Acute Pain Medicine. ASA Annual Meeting. New Orleans, LA., October 20, 2009.
303. "*Improving Safety in Interventional Pain Management*". **Oral** Presentation. American Society of Regional Anesthesia Annual Fall Meeting. San Antonio, TX. November 19, 2009. (**Refresher Course Lecture**)
304. "*Pain Management for Brachial and Lumbar Plexopathies*". **Oral** Presentation. American Society of Regional Anesthesia Annual Fall Meeting. San Antonio, TX. November 20, 2009.
305. "*Transforaminal 5% Phenol Neurolysis for the Treatment of Intractable Cancer Pain.*" **Oral** and **Poster** Presentation. American Society of Regional Anesthesia Annual Fall Meeting. San Antonio, TX. November 21, 2009.
306. "*Head and Neck Blocks*". **Oral** Presentation and Workshop. American Society of Regional Anesthesia Annual Fall Meeting. San Antonio, TX. November 21, 2009.
307. "*Improving Safety in Interventional Pain Management*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds Presentation. November 24, 2009.
308. "*Monitoring of Neurological Status under Anesthesia*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Medical Leadership Monthly Meeting. Chicago, IL, November 25, 2009.
309. "*Introduction to Chemical Neurolytic Agents*". **Oral** Presentation. Vanderbilt University Department of Anesthesiology, Division of Pain Medicine, Grand Rounds. Nashville, TN., February 18, 2010.
310. "*Minimizing Risks in Interventional Pain Medicine*". **Oral** Presentation. Vanderbilt University Department of Anesthesiology Grand Rounds Lecture. Nashville, TN., February 19, 2010.
311. "*Improving Safety in Interventional Pain Management.*" **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds

Presentation. Chicago, IL., March 2, 2010.

312. "*Managing Facet Joint Pain*". **Oral** Presentation. Society for Pain Practice Management 23<sup>rd</sup> Annual Cadaver Course and Workshops. Also served as **Course Director**. Phoenix, AZ., March 3-5, 2010.
313. "*Regional Anesthesia for the Patient with Previous Laminectomy Surgery*". **Oral** Presentation. New York School of Regional Anesthesia (NYSORA) World Anesthesia Conference (NWAC) Meeting. Dubai, UAE, March 8, 2010.
314. "*Regional Anesthesia for the Patient with a Preexisting Neuropathy*". **Oral** Presentation. NWAC Meeting, Dubai, UAE, March 9, 2010.
315. "*Managing Pain of the Cervical and Lumbar Facets*". **Oral** Presentation. NWAC Meeting, Dubai, UAE, March 10, 2010.
316. "*Cervical and Lumbar Transforaminal Injections*". **Oral** Presentation. NWAC Meeting, Dubai, UAE, March 10, 2010.
317. "*Regional Anesthesia and the Opioid Dependent Patient*". **Oral** Presentation. NWAC Meeting, Dubai, UAE, March 11, 2010.
- 318-320. Lectures for the Dannemiller Memorial Education Foundation Annual Anesthesia Review Course: **Oral** Presentations. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Use in Regional Anesthesia: Fact or Fiction?*" San Antonio, TX, April 14, 2010.
321. "*Regional Anesthesia and Orthopedic Surgery-Past, Present and Future*". **Moderator**. ASRA Annual Meeting, Toronto, Ontario CA, April 23, 2010.
322. "*Continuous Peripheral Nerve Blocks for Upper Extremity Surgery*". **Oral** Presentation and hands-on workshop. ASRA Annual Meeting, Toronto, Ontario CA, April 24, 2010.
323. "*Continuous Peripheral Nerve Blocks for Lower Extremity Surgery*". **Oral** Presentation and hands-on workshop. ASRA Annual Meeting, Toronto, Ontario CA, April 24, 2010.



324. "*Ultrasound Guided Nerve Blocks: Realty vs. Fiction*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, May 3, 2010.
325. "*Regional Anesthesia for Upper Extremity Surgery*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Anesthesiology Grand Rounds Lecture. Chicago, IL, May 4, 2010.
326. "*Regional Anesthesia for Lower Extremity Surgery*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, May 6, 2010.
327. "*Spinal and Epidural Block: The Basics*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, May 7, 2010.
328. "*Head and Neck Blocks for Chronic Pain Management.*" **Oral** Presentation. Dannemiller Memorial Education Foundation Advocate Illinois Masonic Medical Center Annual Cadaver Workshop using Fluoroscopy and Ultrasound Guidance. Chicago, IL, May 15, 2010. Also served as **Course Director**.
329. "*Regional Anesthesia for the Patient Chronically Consuming Opioids.*" **Oral** Presentation. Grand Rounds Invited Guest Lecture: University of Illinois College of Medicine at Chicago Department of Anesthesiology. Chicago, IL, June 9, 2010.
- 330-332. Lectures for the Dannemiller Memorial Education Foundation Annual Anesthesia Review Course: **Oral** Presentations. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Use in Regional Anesthesia: Fact or Fiction?*" Chicago, IL, June 22, 2010.
333. "*Local Anesthetics.*" **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, July 16, 2010.
334. "*Spinal and Epidural Anesthesia.*" **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, July 26, 2010.
- 335-344. "*Trauma Pain Management*"; "*Sympathetic Nervous System Pain*"; "*Nociceptive Pain*"; "*Pelvic Pain: Anatomy and Physiology*"; "*Pelvic Pain Management*"; "*Steroids for Use in Interventional Pain Management*"; "*Upper Extremity Block in Pain Management*"; "*Lower Extremity Block in Pain Management*"; "*Head and Neck Blocks for Managing Pain*"; "*Spinal and Epidural Blocks: Basic Science and Clinical Considerations*". **Oral**

Presentations. Dannemiller Memorial Education Foundation Annual Pain Board Review Course. Also served as **Course Co-Director** Chicago, IL. August 22-27, 2010.

345. "*Head and Neck Blocks: Fluoroscopy and Ultrasound*"; **Oral** Presentation and Cadaver Workshop. Also served as Course Moderator. American Society of Anesthesiologists Annual Meeting. San Diego, CA, October 16, 2010.
346. "*Spinal Injections for the Diagnosis and Management of Chronic Pain*"; **Oral** Presentation. **Refresher Course Lecture**. ASA Annual Meeting. San Diego, CA, October 17, 2010.
347. "*Intra-Articular and Wound Infiltrations for Acute Pain Management*"; **Oral** Presentation and Panel Discussion. ASA Annual Meeting. San Diego, CA, October 18, 2010.
348. "*Sympathetic Blocks for Pain Management*"; **Oral** Presentation. Dannemiller Memorial Education Foundation / University of Texas SouthWestern Cadaver and Didactic Workshop Course. San Antonio, TX, November 6, 2010.
349. "*Disc Stimulation and Intradiscal Procedures for Pain Management*"; **Oral** Presentation. Dannemiller Memorial Education Foundation / University of Texas SouthWestern Cadaver and Didactic Workshop Course. San Antonio, TX, November 6, 2010.
350. "*Regional Anesthesia for Orthopedic Surgery in Patients Chronically Consuming Opioids*"; **Oral** Presentation. Midwest Anesthesia Conference / Illinois Society of Anesthesiologists Annual Meeting. **Also Served as Meeting Chairman**. Chicago, IL, November 13, 2010.
351. "*Head and Neck Blocks*"; **Oral** Presentation and Cadaver Fluoroscopy and Ultrasound Workshop. American Society of Regional Anesthesia Annual Fall Meeting. Phoenix AZ, November 18, 2010.
352. "*Neurolysis for Chronic Pain Management*"; **Oral** Presentation. Resident Program. ASRA Annual Fall Meeting. Phoenix, AZ, November 19, 2010.
353. "*Neurolysis for Cancer Pain Management*"; **Oral** Presentation. Parallel Session. ASRA Annual Fall Meeting. Phoenix, AZ, November 19, 2010.
354. "*Head and Neck Blocks*"; **Oral** Presentation and Cadaver Fluoroscopy and Ultrasound Workshop. American Society of Regional Anesthesia Annual Fall Meeting. Phoenix AZ,

November 20, 2010.

355. "*Upper Extremity Regional Anesthesia*", **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, January 12, 2011.
356. "*Interventional Pain Management*", **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Family Practice Grand Rounds Lecture. Chicago, IL, January 21, 2011.
357. "*Regional Anesthesia for Lower Extremity Surgery.*" **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, February 14, 2011.
358. "*Regional Anesthesia in the Opioid Dependent Patient*". **Oral** Presentation. Indiana State Society of Anesthesiologists Annual Meeting. Indianapolis, IN, February 19, 2011.
359. "*Ultrasound-Guided Stellate Ganglion Block*". **Oral** Presentation. Society for Pain Practice Management Lectures, Ultrasound Live-Model, and Cadaver Workshops. **Also served as Course Director.** Also conducted workshops on Head and Neck Blocks; Cervical Facet Joint Blocks; Stellate Ganglion Blocks; Las Vegas, NV, March 3-6, 2011.
360. "*Spinal and Epidural Block*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, April 6, 2011.
- 361-363. Lectures for the Dannemiller Memorial Education Foundation Annual Anesthesia Review Course: **Oral** Presentations. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Use in Regional Anesthesia: Fact or Fiction?*" San Antonio, TX, April 7, 2011.
- 362-366. Lectures for the NWAC World Anesthesia Congress: **Oral** Presentations: "*Neuraxial Opioids in Patients with Sleep Apnea*"; "*Pain Medicine Session Chair-Parallel Session Michelangelo II*"; "*Transforaminal vs. Interlaminar Injections*"; "*RF Procedures-Thermal, Water-Cooled*"; "*Moderator-Parallel Session Bramante 6-7*" Rome, Italy, April 11-15, 2011.
367. "*Ultrasound Guided Regional Anesthesia for Upper Extremity Surgery.*" **Oral** Presentation: Advocate Illinois Masonic Medical Center First Annual Didactic and Live Demonstration Workshop. Advocate Illinois Masonic Medical Center. Chicago, IL, April 23, 2011.

368. "Treatment of Neuropathic Pain Must Include Multiple Pharmacological Agents with Differing Mechanisms of Action." **Oral** Presentation. The Pain Management Summit. Philadelphia, PA, April 30, 2011.
- 369-370. "Head and Neck Blocks"; "Radiofrequency Techniques for Managing Chronic Spinal Pain: Conventional, Pulsed, Water-Cooled". **Oral** Presentations. Dannemiller Memorial Education Foundation / Advocate Illinois Masonic Medical Center Annual Cadaver Workshop using Fluoroscopy and Ultrasound Guidance. Chicago, IL, May 14, 2011. Also served as **Course Director**.
371. "Obstructive Sleep Apnea and Opioid Use". **Oral** Presentation. Advocate Illinois Masonic Medical Center Departmental Lecture. Chicago, IL, June 27, 2011.
- 372-374. Lectures for the Dannemiller Memorial Education Foundation Annual Anesthesia Review Course: **Oral** Presentations. "Regional Anesthesia for Upper Extremity Surgery"; "Regional Anesthesia for Lower Extremity Surgery"; "Ultrasound Use in Regional Anesthesia: Fact or Fiction?" San Antonio, TX, June 23, 2011.
- 375-376. Lectures for the Society for Pain Practice Management Ultrasound Pain Course and Live Demonstration: **Oral** Presentations. "Ilioinguinal, Iliohypogastric and Genitofemoral Nerve Blocks"; "Axillary Block of the Brachial Plexus". San Diego, CA, July 9-10, 2011.
377. "Spinal and Epidural Block." **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL, July 25, 2011.
378. "Regional Anesthesia for Upper Extremity Surgery." **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL, July 27, 2011.
379. "Regional Anesthesia for Lower Extremity Surgery." **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL, July 28, 2011.
380. "Ultrasound-Guided Nerve Blocks." **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL, July 29, 2011.
- 381-390. "Nociceptive Pain; Sympathetic Nervous System Pain; Trauma Pain Management; Regional Anesthesia for Upper Extremity Pain; Regional Anesthesia for Lower Extremity Pain; Steroid Use in Chronic Pain Management; Sympathetic Blocks for Pain Management; Interventional Pain Management Update Parts I & II; Head and Neck

*Blocks.*” **Oral** Presentations: Dannemiller Memorial Education Foundation Annual Review and Pain Board Course. Also served as **Course Co-Director**. Chicago, IL, August 26-September 1, 2011.

391. “*Head and Neck Blocks.*” **Oral** Presentation and Cadaver and Ultrasound Workshop Proctor: American Society of Anesthesiologists Annual Meeting. Chicago, IL, October 15, 2011.

392. “*Ultrasound Guided Upper Extremity Blocks: Evidence Review.*” **Oral** Presentation. Combined ASRA / ASA Invited Panel Discussion and Lecture. American Society of Anesthesiologists Annual Meeting. Chicago, IL, October 17, 2011.

393-394. “*Ultrasound Guided Stellate Ganglion Block*”; “*Head and Neck Blocks for Managing Chronic Pain.*” **Oral** Presentations. Society for Pain Practice Management Didactic Course and Anatomical Workshops. Also served as **Course Director**. Kansas City, MO, November 4-6, 2011.

395. “*Head and Neck Blocks*”; **Oral** Presentation and Anatomical Workshop. American Society of Regional Anesthesia Annual Fall Meeting. New Orleans, LA, November 17, 2011.

396. “*Spinal Cord Stimulation: Patient Selection and Complications*”; **Oral** Presentation and Anatomical Workshop. American Society of Regional Anesthesia Annual Fall Meeting. New Orleans, LA, November 18, 2011.

397. “*Comparing Midline vs. Lateral Parasagittal Approaches During Fluoroscopically-Guided Interlaminar Epidural Steroid Injections*”; **Oral** Presentation-**Best Of Abstracts Award Winner**. American Society of Regional Anesthesia Annual Fall Meeting. New Orleans, LA, November 18, 2011.

398. “*Celiac Plexus Blocks and Lumbar Sympathetic Nerve Blocks*”; **Oral** Presentation and Anatomical Workshop. American Society of Regional Anesthesia Annual Fall Meeting. New Orleans, LA, November 19, 2011.

399. “*Cervical Interlaminar and Transforaminal Epidural Steroid Injections*”; **Oral** Presentation and Anatomical Workshop. American Society of Regional Anesthesia Annual Fall Meeting. New Orleans, LA, November 19, 2011.

400-401. “*Ultrasound Guided Brachial Plexus Blocks for Pain Management*”; “*Morton’s*

*Neuroma and Plantar Fascia Blocks Using Ultrasound Guidance*". **Oral** Presentations and Live Demonstration Workshops. Society for Pain Practice Management (SPPM) Meeting. Orlando, FL, January 14-15, 2012.

402. "Multi-Modal Analgesia in the Perioperative Period"; **Oral** Presentation. Society of Milwaukee Anesthesiologists (SOMA) invited guest professor lecture. Wauwatosa, WI, January 31, 2012.

403-410. "Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Opioid-Dependent Patients with Hepatitis C Cirrhosis" (A-323-0025-00510); CT-Guided Gasserian Ganglion Injection for the Treatment of Recalcitrant Pain Associated with Herpes Simplex-I Infection of the Trigeminal Nerve" (A-323-0025-00507"); Comparing Midline vs. Lateral Parasagittal Approach During Fluoroscopically-Guided Interlaminar Epidural Steroid Injection" (A-323-0025-00708); "The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection" (A-323-0025-00709); "The Effect of Lumbar Epidural Steroid Injections of Quality of Life and Everyday Functionality" (A-323-0025-00710); "Removing Polyethylene Glycol from Methylprednisolone Makes Suspension Safer for Intrathecal Use" (A-323-0025-00504); "Management of HIV-Related Polyneuropathy with Spinal Cord Stimulation: A New Clinical Indication" (A-323-0025-00509); "Long-Term Effectiveness of Neuromodulation in the Treatment of Post-Surgical Radicular Pain" (A-323-0025-00799). **Poster** Presentations: World Institute of Pain (WIP) Annual Meeting, Miami, FL, February 3-4, 2012.

411-414. **Oral** Presentations and Cadaver Fluoroscopic Workshop: Epidural, Transforaminal and Facet Joint Injections. **Poster Presentations (3)**: "Comparing Midline vs. Lateral Parasagittal Approach During Fluoroscopically-Guided Interlaminar Epidural Steroid Injection"; "The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection"; Poster, **Oral Presentation and First Place Award Winner**: "The Effect of Lumbar Epidural Steroid Injections of Quality of Life and Everyday Functionality". American Academy of Pain Medicine Annual Meeting (AAPM), Palm Springs, CA, February 23, 2012.

415-416. **Oral** Presentations and Ultrasound Pain Management Workshops: "Ultrasound-Guided Stellate Ganglion Blocks", "Brachial Plexus Blocks Performed Using Ultrasound". Society for Pain Practice Management (SPPM) Annual Meeting, Las Vegas, NV, March 3-4, 2012.

417-419. **Oral** Presentation and Live Ultrasound Demonstrations (3 consecutive days): *Basics of Ultrasound Guided Nerve Block—Physics, Knobology, and Transducer-Needle Manipulation*. American Society of Regional Anesthesia (ASRA) Annual Meeting and

Workshops. San Diego CA; March 15-17, 2012.

420. **Poster** Presentation (#134): *Three Patients with Painful Brachial Plexus Impingement Following Pacemaker Generator Insertion*. Candido, KD, Puppala V, Knezevic NN, Razminia M, Kozlov G. American Society of Regional Anesthesia Annual Meeting. San Diego CA, March 17, 2012.
421. **Oral** Presentation. *Putting a Stop to the Overuse of Addictive Drugs in Workers' Compensation Claims*. The 2012 Illinois Workers' Comp Forum. Westin Lombard Yorktown Center, Lombard IL, March 20, 2012.
422. **Oral** Presentation. *Multi-Modal Analgesia for Managing Perioperative Pain*. St. Louis Society of Anesthesiology Invited Guest Lecture. St. Louis, MO., April 10, 2012.
423. "*Pediatric Regional Anesthesia*". **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL, July 29, 2011.
- 424-428. **Poster** Presentations: "*Comparing Midline vs. Lateral Parasagittal Approach During Fluoroscopically-Guided Interlaminar Epidural Steroid Injection*"; "*The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection*"; "*The Effect of Lumbar Epidural Steroid Injections of Quality of Life and Everyday Functionality*". **Oral** Presentations: "*Interventional Pain Management Procedures-Current Controversies*"; "*Thoracic Epidural Blocks for Managing Pain in the Perioperative Period*". NWAC Annual Meeting. Istanbul, Turkey, April 24-27, 2012.
- 429-431. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Use for Regional Anesthesia*". **Oral** Presentations. Dannemiller Memorial Education Foundation Anesthesia Review Course. San Antonio, TX, May 3, 2012.
432. "*The Effect of Lumbar Epidural Steroid Injections of Quality of Life and Everyday Functionality*". **Poster-Oral** Presentation: Association of University Anesthesiologist's Annual Meeting. Cleveland, OH, May 19, 2012.
433. "*Evidence-Based Best Practices in Interventional Pain Management*". **Oral** Presentation and Keynote Lecture: Florida Society of Interventional Pain Physicians Annual Meeting (FSIPP). Kissimmee, FL, May 19, 2012.

- 434-436. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Use for Regional Anesthesia*". **Oral** Presentations. Dannemiller Memorial Education Foundation Anesthesia Review Course. Chicago, IL, June 21, 2012.
- 437-439. "*Comparing Midline vs. Lateral Parasagittal Approach During Fluoroscopically-Guided Interlaminar Epidural Steroid Injection*"; "*The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection*"; "*The Effect of Lumbar Epidural Steroid Injections of Quality of Life and Everyday Functionality*". **Oral** Presentations: The World Congress of Pain Clinicians 15<sup>th</sup> Annual Meeting. Granada, Spain, June 28, 2012.
440. "*Multimodal Analgesia for Managing Perioperative Pain*". **Oral** Presentation. Case Western Reserve University Hospital Department of Anesthesiology **Grand Rounds Lecture**. Cleveland, OH, July 10, 2012.
- 441-450. "*Nociceptive Pain; Sympathetic Nervous System Pain; Trauma Pain Management; Regional Anesthesia for Upper Extremity Pain; Regional Anesthesia for Lower Extremity Pain; Steroid Use in Chronic Pain Management; Sympathetic Blocks for Pain Management; Interventional Pain Management Update Parts I & II; Head and Neck Blocks; Spinal and Epidural Blocks*". **Oral** Presentations: Dannemiller Memorial Education Foundation Annual Review and Pain Board Course. Also served as **Course Co-Director**. San Antonio, TX, July 21-July 26, 2012.
451. "*Multimodal Analgesia for Managing Perioperative Pain*". **Oral** Presentation. Texas Society of Anesthesiologists Annual Meeting. San Antonio, TX, September 07, 2012.
452. "*Multimodal Analgesia for Managing Perioperative Pain*". **Oral** Presentation. **Grand Rounds Lecture**, Medical College of Wisconsin, Milwaukee, WI, September 21, 2012.
- 453-454. "*Cervical Medial Branch and Facet Joint Blocks*"; "*Trigeminal Nerve Blocks and Stellate Ganglion Blocks*". **Oral** Presentations and Workshop Mentoring. Society for Pain Practice Management (SPPM) Cadaver and Ultrasound Hands On Workshops. Also served as **Course Director**. Advocate Illinois Masonic Medical Center, Chicago, IL, September 22-23, 2012.
455. "*Trauma Pain Management*". **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, September 26, 2012.



456. "Local Anesthetic Pharmacology". **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, October 10, 2012.
- 457-466. **Poster** Presentations at the Advocate Research & Innovation Forum: October 9, 2012: "Pneumocephalus as Complication of Epidural Analgesia After Using Loss of Resistance to Air Technique"; "High Airway Pressure Secondary to Tracheal Compression Caused by Cloward Retractor during Anterior Cervical Discectomy as a Predictor for Ipsilateral Recurrent Laryngeal Nerve Palsy"; "Anesthetic Management for Occiput to Upper Cervical Fusion for Unstable Occiput to C1 Fracture Dislocation"; "Long-Term Effectiveness of Neuromodulation in the Treatment of Post-Surgical Radicular Pain"; "Comparing Midline vs. Lateral Parasagittal Approach During Fluoroscopically-Guided Lumbar Epidural Steroid Injection"; "The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection"; "The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality"; "Three Patients with Painful Brachial Plexus Impingement Following Pacemaker Generator Placement"; "Neuroanesthesia and Neurocritical Considerations for In-House Transtentorial Herniation Secondary to Traumatic Expanding Intracranial Hematoma: Review of Fundamentals"; "Underlying Preoperative Asymptomatic Lumbar Spondylosis May Enhance Neurologic Deficit Following Subarachnoid Block". Chicago, IL.
- 467-478. American Society of Anesthesiologists Annual Meeting. **Oral** Presentation. "Comparison of Two Different Approaches during Interlaminar Lumbar Epidural Steroid Injections-A007."; **Oral** Presentation. "Correlation between Concordant Pressure Paresthesia during Interlaminar Lumbar Epidural Steroid Injections and Pain Relief-A202."; **Oral** Presentation. "Managing Pain in the Perioperative Period in Patients Addicted to Opioid Analgesics."; **Poster/Oral** Presentation. "Quality of Life and Everyday Functionality Improvement after Interlaminar Lumbar Epidural Steroid Injections-A871."; **Hands-On Cadaver Lecture/Workshop**: Interventional Pain Procedures Performed Using Ultrasound Guidance.; **Poster Presentations**: "Meralgia Paresthetica: Is A New Systematic Approach Necessary?"; "Delayed Onset of Symptomatic Phrenic Nerve Blockade after Interscalene Brachial Plexus Block in a Middle-Aged Patient"; "Centrally Mediated Pulseless Electrical Activity during Craniotomy Surgery for Subdural Hematoma."; "Complete Recovery after Antepartum Massive Intracerebral Hemorrhage In An Atypical Case of Sudden Eclampsia". "Perioperative Stroke Due To Undiagnosed Protein S Deficiency."; "Five Day Continuous Spinal Analgesia for Postthoracotomy Pain."; (October 14, 2012); **Session Moderator**: Regional Anesthesia and Acute Pain: Outcomes of Acute Postoperative Pain-OR16-3; Washington DC, October 13-17, 2012.
479. "The Hyperalgesic Patient and Management of Perioperative Pain". **Oral** Presentation/**Refresher Course Lecture**. Midwest Anesthesia Conference/Illinois Society of Anesthesiologists Annual Meeting. Chicago, IL, November 10, 2012.

480. "*Spinal and Epidural Block*". **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, November 15, 2012.
- 481-486. Presentations at the 11<sup>th</sup> Annual American Society of Regional Anesthesia & Pain Medicine Meeting: **Refresher Course Lecture**: "*Interventional Pain Management for Chronic Cancer Pain*"; **Session Moderator**: "*Interventional Procedures for Head and Neck Pain*"; "*Splanchnic Nerve Block and Celiac Plexus Block*"; **Poster** Presentations: Interlaminar Midline vs. Parasagittal Interlaminar Epidural Steroid Injections: Effect of Pressure Paresthesias; Success Rates; Pain Reduction and Improvement of Functioning after Parasagittal Interlaminar Epidural Steroid Injections Compared with Midline Interlaminar Epidural Steroid Injections; Cryoablation of the Saphenous Nerve Using Ultrasound Guidance for Intractable Neuropathic Pain Following Trauma. Miami, FL, November 16-18, 2012.
487. "*The Hyperalgesic Patient and Management of Perioperative Pain*". **Oral** Presentation. University of Illinois College of Medicine/Department of Anesthesiology **Grand Rounds Lecture** (with Professor Alain Borgeat). Chicago Yacht Club, Chicago, IL, November 30, 2012.
488. "*Spinal Cord Stimulation*". **Oral** Presentation. AORN Chicago Meeting; Feinberg School of Medicine of Northwestern University Medical Center, Chicago, IL, January 02, 2013.
- 489-490. "*Ultrasound-Guided Brachial Plexus Block in Pain Management*"; "*Ultrasound-Guided Stellate Ganglion Block*". **Oral** Presentations. Society for Pain Practice Management (SPPM) Didactic Program and Live Demonstration Workshops. Orlando, FL, January 19-20, 2013.
491. "*Perioperative Pain Management in Patients Chronically Consuming Opioids*"; **Oral** Presentation. **Grand Rounds Lecture**. Rush University Department of Anesthesiology. Chicago, IL, January 30, 2013.
- 492-493. "*Evidence-Based Interventional Pain Management Therapies for Managing Chronic Spinal Pain*"; "*Complex Regional Pain Syndrome: State of the Art of Diagnosis and Treatment*". **Oral** Presentations. 9<sup>th</sup> Annual Sarasota Winter Pain Symposium. Sarasota, FL, February 16-17, 2013.
- 494-496. "*Ultrasound-Guided Brachial Plexus Blocks*"; "*Ultrasound and Fluoroscopically-Guided Stellate Ganglion Blocks*"; "*Cervical Medial Branch Blocks*". **Oral** Presentations and Clinical Anatomical and Cadaver Workshops. Society for Pain Practice Management Course. Las Vegas, NV, March 1-3, 2013.

497. "*Brachial Plexus Block for Perioperative Pain Management in Upper Extremity Surgery*"; **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, March 06, 2013.
498. "*Trauma Anesthesia*"; **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, March 28, 2013.
499. "*Pediatric Regional Anesthesia*"; **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, April 03, 2013.
- 500-504. Lectures at the Fourth Annual NWAC Meeting: **Oral** Presentations. "*Discogenic Pain-An Overview*"; "*Radiofrequency-What is the Evidence?*"; "*Interventional Pain Therapies for Low Back Pain-Master Class*"; "*Topical Therapies for Pain Management*"; "*Pulsed Radiofrequency-Master Class*". Bangkok, Thailand, April 23-26, 2013.
505. "*Headache Pain Management Using a Novel Delivery System*". **Poster** Presentation. Fourth Annual NWAC Meeting. Bangkok, Thailand, April 23-24, 2013.
- 506-508. Lectures at the Dannemiller Memorial Education Foundation Annual Review Course. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Basics of Ultrasound Guided Peripheral Nerve Blocks*". **Oral** Presentations. San Antonio, Tx, April 30, 2013.
- 509-515. Presentations at the 38<sup>th</sup> Annual Meeting of the American Society of Regional Anesthesia and Pain Medicine. **Oral** Presentations: PBLD: "*Best Adjuvants to Use with Local Anesthetics in Peripheral Nerve Blockade*"; Workshops: "*Basics of Ultrasound*" (workshop 205; workshop 304). Poster Presentations: TX360®: A Non-invasive Technique for Sphenopalatine Ganglion Nerve Block in the Treatment of Trigeminal Neuralgia; Efficacy and Safety of Three Different Approaches for Ultrasound Guided Femoral Nerve Block for Patients Undergoing Total Knee Arthroplasty; Delayed Onset of Symptomatic Phrenic Nerve Block after Interscalene Brachial Plexus Block in a Middle-Aged Patient; The Use of Regional Block in a Patient with Phantom Limb Pain. Boston, MA, May 2-5, 2013.
516. "*CRPS: Current State of the Art in Diagnosis and Treatment*". **Oral** Presentation. Florida Society of Interventional Pain Physicians (FSIPP) Annual Meeting. Orlando, FL, May 18, 2013.
- 517-519. Lectures at the Dannemiller Memorial Education Foundation Annual Review Course.

*“Regional Anesthesia for Upper Extremity Surgery”*; *“Regional Anesthesia for Lower Extremity Surgery”*; *“Basics of Ultrasound Guided Peripheral Nerve Blocks”*. **Oral Presentations**. Chicago, IL, June 27, 2013.

520. *“Spinal Injections for Chronic Pain Management”*. **Oral Presentation**. **Grand Rounds Lecture**; Rehabilitation Institute of Chicago/Northwestern University. Chicago, IL, July 24, 2013.
- 521-532. Lectures at the Dannemiller Memorial Education Foundation Annual Pain Review Course. Also served as **Course Co-Director**: **Oral Presentations**. *“Nociceptive Pain”*; *“Trauma Pain Management”*; *“Sympathetic Nerve Blocks”*; *“CRPS-State of the Art of Diagnosis and Treatment”*; *“Spinal Injections for Chronic Spinal Pain-Parts I and II”*; *“Upper Extremity Pain Management”*; *“Lower Extremity Pain Management”*; *“Head and Neck Blocks”*; *“Spinal and Epidural Blocks”*; *“Spinal Drug Delivery Systems and Pharmacology”*. Chicago, IL, July 27-31, 2013.
533. *“Spinal and Epidural Anesthesia”*. **Oral Presentation**. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, August 03, 2013.
- 534-536: *“Ultrasound-Guided Shoulder Examination”*; *Ultrasound-Guided Interscalene Brachial Plexus Block*; *“Ultrasound-Guided Stellate Ganglion Block”*. **Oral Presentations**. Society for Pain Practice Management Lectures and Workshops. San Diego, CA, August 17-19, 2013.
537. *“Non-Opioid Analgesics for Post-Operative Pain Management”*. **Refresher Course Lecture/Oral Presentation**. Wisconsin Society of Anesthesiologists Annual Meeting. Milwaukee, WI, September 06, 2013.
- 538-541. *“Cervical Medial Branch Blocks”*; *“Cervical Radiofrequency Procedures”*; *“Stellate Ganglion Blocks”*; *“Gasserian Ganglion and Trigeminal Nerve Blocks”*. **Oral Presentations and Hands-On Cadaver Fluoroscopic and Live Ultrasound Workshops**. AIMMC and SPPM. Also Served as **Course Director**: Chicago, IL., September 21-22, 2013.
542. *“Adjuvants for Neuraxial and Peripheral Nerve Blocks; Magnesium; Dexamethasone; Buprenorphine”*. Invited Professor **Grand Rounds Lecture**. Weill Cornell University/Hospital for Special Surgery. New York, NY, October 3, 2013.
543. *“Basic Fluoroscopy-Guided Interventional Pain Procedures”*. **Oral Presentation**. Also served as Workshop Moderator. American Society of Anesthesiologists Annual Meeting. San Francisco, CA, October 12, 2013.

544. Abstract Review Moderator: (Live Sessions) Three Sessions at the American Society of Anesthesiologists Annual Meeting (10-11; 11-12; 3-4 pm). San Francisco, CA, October 13, 2013.
545. “*Role of Adjuvants in Regional Anesthesia: Magnesium; Dexamethasone; Buprenorphine*”. **Oral** Presentation. American Society of Anesthesiologists Annual Meeting. San Francisco, CA, October 13, 2013.
546. “*Acute Postoperative Pain Management-Adjuvants to Local Anesthetics*”. **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, October 17, 2013.
547. “Educating Clinicians and Creating Discussions on Opioid Underuse, Overuse and Misuse”. **Oral** Presentation. REMS and AHME (Association for Hospital Medical Education). Advocate Illinois Masonic Medical Center, Chicago, IL, November 04, 2013. (Grant Supported; 3.0 CME).
- 548-9. “*Ultrasound-Guided Brachial Plexus Blocks-Interscalene and Supraclavicular Techniques*”; “*Ultrasound-Guided Stellate Ganglion Blocks*”. **Oral** Presentations. Society for Pain Practice Management (SPPM) Meeting and Workshops. Phoenix, AZ, November 09-10, 2013.
- 550-554. American Society of Regional Anesthesia and Pain Medicine Annual Meeting Presentations: **Oral** Presentations and Workshop Lead Role. “*Head and Neck Blocks*” (X2) November 21, 2013; “*Introduction to Basic Fluoroscopy for Residents*” (11/23/13); “**Sympathetic Nerve Blocks**” (11/23/13); Problem-Based Learning Discussion: “*Role of Sympathetic Nerve Blocks-What is the Evidence*” (#19); (11/23/13). Phoenix, AZ.
- 555-556. “*Ultrasound-Guided Brachial Plexus Blocks-Interscalene and Supraclavicular Techniques*”; “*Ultrasound-Guided Stellate Ganglion Blocks*”. **Oral** Presentations. Society for Pain Practice Management (SPPM) Meeting and Workshops. Orlando, FL, January 18-9, 2014.
- 557-558. “*Complex Regional Pain Syndrome Diagnosis and Treatment-An Update*”; “*Concordant Pressure Paresthesias and Interlaminar Epidural Steroid Injections*”; **Grand Rounds Oral** Presentations and Journal Club Moderator: Department of Anesthesiology and Pain Management. Medical College of Wisconsin, Milwaukee WI, February 20, 2014.

- 559-562. "*Anatomy of the Shoulder in Health and Disease-Ultrasound Diagnostics*"; "*Ultrasound Use for Brachial Plexus Blocks*"; "*Stellate Ganglion Block under Ultrasound Guidance-Is it Safer?*"; "*Platelet Rich Plasma-An Introductory Course*". **Oral** Presentations and Workshops. Society for Pain Practice Management (SPPM) Meeting and Workshops. Las Vegas, NV, February 28-March 02, 2014.
563. "*Multimodal Analgesia in the Perioperative Period*". **Oral** Presentation. American Osteopathic College of Anesthesiologist's Annual Meeting. Chicago, IL, March 15, 2014.
564. "*Complications of Epidural Steroid Injections*". **Oral** Presentation. Departmental Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL, March 19, 2014.
565. "*Are Transforaminal Epidural Steroid Injections Better than Caudal and Interlaminars?*" **Oral** Presentation. American Society of Interventional Pain Physician's Annual Meeting. New Orleans, LA, April 04, 2014.
566. "*Ultrasound Use for Interventional Pain Management*". **Oral** Presentation. American Society of Interventional Pain Physician's Annual Meeting. New Orleans, LA, April 04, 2014.
567. "Workshop Chair: Ultrasound Use in Chronic Pain Management. **Oral** Presentation and Hands-On Workshop. **Course Director**. American Society of Interventional Pain Physician's 14<sup>th</sup> Annual Meeting. New Orleans, LA, April 05, 2014.
568. "*Magnesium, Dexamethasone, Buprenorphine Used as Additives for Regional Anesthesia*". **Oral** Presentation. **Grand Rounds Lecture**. University of Illinois College of Medicine, Department of Anesthesiology. Chicago, IL, April 09, 2014.
- 569-570. "*Ultrasound Use for Acute and Chronic Pain Interventions: Evidence-Based Approach and Billing Strategies*". **Oral** Presentation. "*Complex Regional Pain Syndrome: State of the Art of Diagnosis and Treatment*". **Oral** Presentation. Lectures Presented at the Georgia Society of Interventional Pain Physician's (GSIPP) 10<sup>th</sup> Annual Meeting. Greensboro, GA, April 26, 2014.
- 571-575. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Ultrasound Basics for Regional Anesthesia*"; "*Ultrasound for Upper Extremity Surgery*"; "*Ultrasound for Lower Extremity Surgery*". **Oral** Presentations. Lectures at the Dannemiller Memorial Education Foundation Anesthesia Review Course. Lectures and Hands-On Ultrasound Workshops. San Antonio, TX, May 01-02, 2014.

- 576-580. "A Meta-Analysis of Efficacy of Transforaminal Epidural Steroid Injections vs. Interlaminar Epidural Steroid Injections", **Oral** Presentation. "Regular Quantitative urine Toxicology Analysis Can Assist in Patient Compliance and Opioid Dose Adjustment"; "Do We Adequately Address the Constipation Problem in Patients Using Pain Medications for Chronic Non-Cancer Pain?"; "The Importance of Proper Patient Selection for Spinal Cord Stimulation for Relief of Non-Malignant Chronic Pain"; "Effects of Methylprednisolone Acetate with and without Preservatives on Rats Dorsal Root Ganglion Sensory Neurons". **Poster** Presentations. Presented at the World Institute of Pain Meeting, Maastricht, Netherlands, May 07-09, 2014.
581. "Interventional Pain Management Treatments for Radicular Low Back Pain: A Critical Appraisal of the Evidence", **Oral** Presentation. Florida Society of Interventional Pain Physicians' Annual Meeting (FSIPP), Orlando FL, May 17, 2014.
- 582-592. "Nociceptive Pain"; "Trauma Pain Management"; "Sympathetic Nervous System Related Pain"; "CRPS: State of the Art Diagnosis and Treatment"; "Evidence-Based Medicine and Spinal Injections Parts I & II"; "Regional Anesthesia for Upper Extremity Pain"; "Regional Anesthesia for Lower Extremity Pain"; "Head and Neck Blocks"; "Spinal and Epidural Block"; "Spinal Medications for Acute and Chronic Pain Management". **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Pain Board Review. San Antonio, TX, July 26-29, 2014.
- 593-597. "Adjuvants to Local Anesthetics for Nerve Blocks-2014"; "Alternatives to Opioids for Pain Management"; "Interventions for Chronic Pain Management"; "Update of Regional Anesthesia for Orthopedic Surgery"; "Ultrasound Use for Chronic Pain". Dannemiller Memorial Education Foundation Meeting: **Oral** Presentations: Updates; Maui, HI, August 4-7, 2014.
598. "Trauma Anesthesia: Preventing Chronic Pain from Acute Pain"; **Oral** Presentation/Department Lecture. Advocate Illinois Masonic Medical Center Department of Anesthesiology. Chicago, IL, August 14, 2014.
- 599-601. "Ultrasound Basics for Chronic Pain Management"; "Intraarticular Joint Injections using Ultrasound Guidance for Chronic Joint Pain"; "Automated Percutaneous Lumbar Disc Decompression". **Oral** Presentations. American Society of Interventional Pain Physicians (ASIPP) Annual Cadaver Workshops and Ultrasound Guided Review Course. **Also, Served as Course Co-Director**. Las Vegas, NV, August 22-24, 2014.
- 602-603. "Spinal Cord Stimulation for Management of Chronic Pain States"; "Head and Neck

*Blocks: Cervical Facet; Medial Branch; and Radiofrequency Procedures*". **Course Director:** Seventh Annual SPPM / AIMMC Cadaver and Ultrasound Workshops and Didactic Sessions for Chronic Pain Management. Chicago, IL, September 20-21, 2014.

604-605. *"Interlaminar vs. Transforaminal Injections for the Management of Unilateral Lumbar Radicular Pain: A Systematic Review and Meta-Analysis of All Literature"*. **Oral Presentation.** *"Head and Neck Blocks using Fluoroscopic Guidance"*. *Cadaver Lab and Workshop.* American Society of Anesthesiologists' Annual Meeting, New Orleans, LA, October 12-13, 2014.

606-609. *"Head and Neck Blocks Using Fluoroscopic Guidance"*; *"Head and Neck Blocks Using Ultrasound Guidance"*. **Oral Presentation and Cadaver Lab and Live Model Demonstration Workshop.** *"Trigeminal Neuralgia: Diagnosis and Treatment"*; *"The MPA Steroid Safe Use Recommendations: A Critical Evaluation. Will They Improve Safety?"* **Oral Presentations:** American Society of Regional Anesthesia and Pain Medicine (ASRA) 13<sup>th</sup> Annual Pain Medicine Course. San Francisco, CA, November 14-16, 2014.

610-611. *"Ultrasound Guidance for Stellate Ganglion Block and Interscalene Block of the Brachial Plexus"*; *"Ultrasound Guidance for Ilioinguinal, Iliohypogastric, and Genitofemoral Nerve Blocks"*. **Oral Presentations/Workshops** at the Society for Pain Practice Management Meeting (SPPM). Orlando, FL, January 17-18, 2015.

612-613. *"Introduction to Cervical Spine Related Pain"*, *"Complex Regional Pain Syndrome: Diagnosis and Treatment. State of the Art"*. **Oral Presentations.** Sarasota Annual Pain Meeting. Sarasota, FL, February 14-15, 2015.

614-616. *"Ultrasound Guided Interventional Pain Procedures-Introduction"*; *"Ultrasound Guided Diagnostic and Therapeutic Shoulder Evaluations"*; *"Ultrasound Used for Stellate Ganglion Block and Interscalene Block of the Brachial Plexus"*. **Oral Presentations.** American Society of Interventional Pain Physicians (ASIPP) Annual Las Vegas Meeting and Workshops. Also served as **Course Director.** Las Vegas, NV, February 27, 2015.

617. *"Use of Platelet Rich Plasma (PRP) for Interventional Pain Medicine"*. **Oral Presentation.** Society for Pain Practice Management (SPPM). Didactic Course and Hands on Workshops. Las Vegas, NV. February 28-March 01, 2015.

618-621. Lectures at the American Academy of Pain Medicine (AAPM) Annual Meeting. **Oral Presentations.** *"Interlaminar Steroid Injections are Superior to Transforaminal"*; *"Fluoroscopy is Superior to CT Scan Use for Cervical Injections"*; *"The Workman's Compensation Patient May Benefit From Interventional Pain Management"*; *"Spinal Cord*



*Stimulator Use is Best Therapy for Failed Back Surgery Syndrome and Morbid Obesity with Painful Diabetic Peripheral Neuropathy*. National Harbor, MD, March 20-21, 2015.

- 622-623. Lectures at the Iowa Society of Anesthesiologists Annual Meeting. **Oral** Presentations. "*Brachial Plexus Block for Upper Extremity Surgery: Does Ultrasound Use Improve Outcomes?*"; "*Regional Anesthesia for Lower Extremity Surgery: Does Ultrasound Use Improve Outcomes?*". Des Moines, IA, March 28, 2015.
624. "*Evidence Based Medicine: The Truth About Epidural Steroid Injections; Caudal, Interlaminar, Transforaminal*". **Oral** Presentation. American Society of Interventional Pain Physicians' Annual Meeting. Orlando, FL, April 9, 2015.
- 625-629. "*Regional Anesthesia for Upper Extremity Surgery*"; "*Regional Anesthesia for Lower Extremity Surgery*"; "*Basics of Ultrasound Use in Anesthesia*"; "*Ultrasound Use for Upper Extremity Nerve Block*"; "*Ultrasound Use for Lower Extremity Nerve Block*". **Oral** Presentations. Lectures for the Dannemiller Memorial Education Foundation Annual Review Course and Hands-On Workshops. San Antonio, TX, April 23, 2015.
- 630-631. "*Ultrasound Use for Elbow Injections (Medial and Lateral Epicondylitis)*"; "*Ultrasound Use for Stellate Ganglion Block and Brachial Plexus Block*". **Oral** Presentations and Hands-On Workshops. Society for Pain Practice Management (SPPM). Teaneck, NJ, April 25-26, 2015.
- 632-640. "*Pharmacology of Opioids*"; "*Pharmacology of NSAIDs*"; "*Pharmacology of Local Anesthetics*"; "*Pharmacology of Steroids*"; "*Psychology of Pain Management: Behavioral-Cognitive Therapy*"; "*Cancer Pain Diagnosis and Treatment*"; "*Cervical Spinal Pain: Diagnosis and Treatment*"; "*Interventional Pain Management: Back and Neck Blocks*"; "*Interventional Pain Management: Central Nerve Blocks*". **Oral** Presentations. Also Served as **Course Co-Director**: Lectures for the Society for Pain Practice Management Board Review Course (SPPM). Chicago, IL, July 8-9, 2015.
- 641-643. "*Cancer Pain: Diagnosis and Treatment*"; "*Neuropathic Pain*"; "*Complex Regional Pain Syndrome: State of the Art of Diagnosis and Treatment*". **Oral** Presentations. Also Served as **Course Co-Director**: Lectures for the American Society of Interventional Pain Physicians (ASIPP) Board Review Course. Chicago, IL, July 19-21, 2015.
644. "*Spinal and Epidural Blocks for Surgery and Pain Management*". **Oral** Presentation. Resident Lecture, Advocate Illinois Masonic Medical Center Department of Anesthesia. Chicago, IL, July 31, 2015.

- 645-651. *“Head and Neck Pain”; “Trauma Pain Management”; “Upper Extremity Nerve Blocks for Chronic Pain Management”; “Lower Extremity Nerve Blocks for Chronic Pain Management”; “Sympathetic Nerve Blocks for Pain Management”; “Nociceptive Pain”; “Pelvic Pain-Diagnosis and Management”*. **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Board Review Course. Chicago, IL, August 15-20, 2015.
- 652-653. *“Head and Neck Fluoroscopic Nerve Blocks; Medial Branch and Epidural Steroid Injections”; “Stellate Ganglion and Trigeminal Nerve Blocks Performed Using Fluoroscopic Guidance.”* **Oral** Presentations. Also served as **Course Director**: 8<sup>th</sup> Annual Advocate Illinois Masonic Medical Center/SPPM Ultrasound and Cadaver Fluoroscopy Workshops and Didactic Course. Chicago, IL, September 19-20, 2015.
654. *“Perioperative Acute Pain Management.”* **Oral** Presentation. Resident Lecture, Advocate Illinois Masonic Medical Center Department of Anesthesia. Chicago, IL, October 01, 2015.
655. *“Effective and Underutilized Approach for Lumbar Epidural Steroid Injections That Can Reduce the Cost of Interventional Pain Management.”* **Poster** Presentation. American Academy of Pain Management 32<sup>nd</sup> Annual Meeting. Palm Springs, CA., February 18, 2016.
656. *“Smoking and Obesity do Not Interfere with Efficacy of Spinal Cord Stimulators (SCS).”* **Poster** Presentation. American Academy of Pain Management 32<sup>nd</sup> Annual Meeting. Palm Springs, CA., February 18, 2016.
- 657-659. *“Regenerative Medicine: Basic and Clinical Sciences State of the Art”; “PRP and Stem Cells; A Primer on Procedures and Practices”; “Fluoroscopy vs. Ultrasound for Interventional Pain Management”*. **Oral** Presentations. Society for Pain Practice Management Lectures and Hands On Workshops. Las Vegas, NV, March 5-6, 2016.
- 660-661. *“Interventional Techniques in Worker’s Compensation Patients”; “Epidural Steroid Injections: Which Patient? Which Drug? Which Approach?”* **Oral** Presentations. Cleveland Clinic Pain Management Symposium, 18<sup>th</sup> Annual Meeting. San Diego, CA, March 8-9, 2016.
662. *“Spinal Cord Stimulation: Basic Principles and State of the Art”*. **Oral** Presentation. Dannemiller Memorial Education Foundation Didactic and Cadaver Workshops. San Antonio, TX, March 12-13, 2016.

663. *“Role of Adjuvants Added to Local Anesthetics for Peripheral and Central Neuraxial Blocks: Magnesium Sulfate; Dexamethasone; Buprenorphine”*. **Oral** Presentation. Invited Professorship **Grand Rounds Lecture**. Rutgers University Department of Anesthesiology. Newark, NJ, April 06, 2016.
- 664-665. *“Ultrasound vs. Fluoroscopy for Interventional Pain Management: What the Evidence Shows”*; *“Cancer Pain Management Using Interventional Pain Treatment Options”*. **Oral** Presentations of the American Society of Interventional Pain Physicians (ASIPP). Dallas, TX, April 15-16, 2016.
- 666-670. *“Regional Anesthesia for Upper Extremity Surgery: Evidence-Based Practice”*; *“Regional Anesthesia for Lower Extremity Surgery: Evidence-Based Practice”*; *“Basics of Ultrasound Use in Regional Anesthesia”*; *“Ultrasound-Guided Upper Extremity Nerve Blocks”*; *“Ultrasound-Guided Lower Extremity Nerve Blocks”*. **Oral** Presentations of the Dannemiller Memorial Education Foundation Annual Anesthesia Review Course. Also, Hands-On US-Guided Workshops, upper and lower extremity blocks. San Antonio, TX, May 19-20, 2016.
- 671-672. *“Infection Control in Interventional Pain Management: Implantable Devices”*; *“Rational Use of Epidural Steroids in Managing Chronic Radicular Pain”*. **Oral** Presentations of the Florida Society of Interventional Pain Physicians’ Annual Meeting. Orlando, FL, May 21-22, 2016.
673. *“Interventional Pain Management: The Use of Epidural Steroid Injections in Chronic Radicular Pain: “S.E.E. Principles: Safety-Efficacy-Economics”*. **Oral** Presentation. Cornell University Department of Anesthesia Pain Management Visiting Professor Lecture. New York, NY, June 03, 2016.
- 674-5. *“The Future of Pain Management”*; *“Key Evolving Issues in Anesthesia”*. **Oral** Presentations. Becker’s 14<sup>th</sup> Annual Spine and Orthopedic and Pain Management Conference. Chicago, IL, June 10, 2016.
676. *“Uptake and Distribution of Inhalation Anesthetics I”*; Including Dannemiller Memorial Education Foundation Edmond I. Eger, M.D., Lecture. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesia Resident Lecture. Chicago, IL, July 19, 2016.
677. *“Uptake and Distribution of Inhalation Anesthetics II”*; Including Dannemiller Memorial Education Foundation Edmond I. Eger, M.D., Lecture. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesia Resident Lecture. Chicago, IL,

July 21, 2016.

678. *“Trauma Anesthesia and Pain Management”*; **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesia Resident Lecture. Chicago, IL, August 11, 2016.
- 679-685. *“Nociceptive Pain”*; *“Trauma Pain Management”*; *“Sympathetic Nervous System Related Pain”*; *“Head and Neck Blocks”*; *“Upper Extremity Pain Management”*; *“Lower Extremity Pain Management”*; *“Spinal and Epidural Blocks”*. **Oral** Presentations. Dannemiller Memorial Education Foundation Annual Board Review in Chronic Pain Management. Chicago, IL, August 13-15, 2016.
- 686-687. *“Head and Neck Blocks for Chronic Pain Management: Fluoroscopic Techniques”*; *“Lumbar Transforaminal, Interlaminar, Caudal Epidural Steroid Injections: Indications and Techniques”*. **Oral** Presentations: Society for Pain Practice Management (SPPM) 9<sup>th</sup> Annual Didactic and Cadaver, Fluoroscopy and Ultrasound Workshops. Also served as **Course Director**. Advocate Illinois Masonic Medical Center, Chicago, IL. September 17-18, 2016.
688. *“Ultrasound Use for Regional Anesthesia and Chronic Pain Management. What Does the Literature Tell Us in Terms of Safety and Efficacy?”* **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident and Faculty Lecture, Chicago, IL. September 28, 2016.
689. *“Local Anesthetics. Basic Science and Clinical Applications.”* **Oral** Presentation: Advocate Illinois Masonic Medical Center Resident and Faculty Lecture, Chicago, IL. November 02, 2016.
690. *“Ultrasound Use in Chronic Pain Medicine. What is the Data and How Does it Compare to Use of Fluoroscopy?”* **Oral** Presentation. New York and New Jersey Societies of Interventional Pain Physicians Annual Meeting. Hoboken, NJ, November 03, 2016.
- 691-692. *“PRP and Stem Cells Used in Chronic Pain Management.”*; *“Ultrasound Use in Chronic Pain Management. How Does it Compare to Fluoroscopy?”* **Oral** Presentations. Society for Pain Practice Management Ultrasound Course; Didactic and Clinical Workshops. Phoenix, AZ, November 5-6, 2016.
- 693-695. *“PRP and Stem Cells Used in Chronic Pain Management.”*; *“Ultrasound Use in Upper Extremity Pain (Brachial Plexus and Stellate Ganglion Blocks)”*; *“Carpal Tunnel Blocks Under Ultrasound Guidance.”* **Oral** Presentations. Society for Pain Practice Management Ultrasound Course; Didactic and Clinical Workshops. Orlando FL, January 14-15, 2017.

696. “*Spinal Cord Stimulator Use for Chronic Pain Management.*” **Oral** Presentation and Cadaver Workshop Presentations. Dannemiller Memorial Education Foundation. San Antonio, Tx, February 24-26, 2017.
- 697-700. “*Regional Anesthesia for Upper Extremity Surgery*”; “*Regional Anesthesia for Lower Extremity Surgery*”; “*Ultrasound Use for Regional Anesthesia-The Basics*”; “*Ultrasound-Guided Upper Extremity Nerve Blocks*”. **Oral** Presentations and Hands-on Workshops. Dannemiller Memorial Education Foundation Annual Review Course in Anesthesia. San Antonio, TX., April 13-14, 2017.
701. “*Guidelines for Interventional Pain Management; ASIPP; SIS; ASRA; ASA; and Others.*” **Oral** Presentation. American Society of Interventional Pain Physicians’ (ASIPP) 19<sup>th</sup> Annual Meeting. Las Vegas, NV, April 21, 2017.
702. “*Guidelines for Interventional Pain Management; ASIPP; SIS; ASRA; ASA; and Others.*” **Oral** Presentation. Florida Society of Interventional Pain Physicians’ (FSIPP) Annual Meeting. Orlando, FL., April 28, 2017.
- 703-704. “*Atlanto-Axial, Atlanto-Occipital Nerve Blocks*”; “*Gasserian Ganglion Blocks and Sphenopalatine Ganglion Blocks Performed Using Fluoroscopic Guidance.*” **Oral** Presentations and Cadaver Workshop Demonstrations. University of Barcelona Department of Anatomy and Pain Management 12<sup>th</sup> Annual Pain Management Course. Barcelona, Spain, May 5-6, 2017.
705. “*Upper Extremity Regional Anesthesia: State of the Art and Comparison of Ultrasound Use and Neural Stimulation.*” **Oral** Presentation. Advocate Illinois Masonic Medical Center Resident and Faculty Lecture. Chicago, IL., May 17, 2017.
- 706-707. “*The Challenges of Sports Medicine. What’s New in Sports Medicine*”?; “*The Future of Pain Management*”. **Oral** Presentations and Panel Discussions. Becker’s 15<sup>th</sup> Annual Spine, Orthopedic and Pain Management-Driven ASC Conference and the Future of Spine. Chicago, IL, June 23, 2017.
- 708-709. “*Update on Guidelines for Interventional Pain Management-Comparison from Five Pain Societies*”; “*Avoiding Catastrophes in Interventional Pain Management.*” **Oral** Presentations. Georgia Society of Interventional Pain Physicians’ 13<sup>th</sup> Annual Pain Meeting. Reynolds at Lake Oconee, Greensboro, Ga, July 08, 2017.

- 710-712. *“Neuropathic Pain”; “CRPS”; “Cancer Pain”*. **Oral** Presentations. American Society of Interventional Pain Management Review Course 2017. Chicago, IL, July 26, 2017.
- 713-716. *“Brachial Plexus Block: State of the Art and Update”; “Role of Magnesium, Dexamethasone, and Buprenorphine for Neuraxial and Perineural Injections”; “Basic Principles of Neuroaugmentation”; “Lower Extremity Nerve Blocks: PNS vs. US: State of the Art”*. **Oral** Presentations. Dannemiller Memorial Education Foundation Hawaiian Anesthesia Seminar 2017. Honolulu, HA, July 31-August 03, 2017.
- 717-723. *“Nociceptive Pain”; “Trauma Pain Management”; “Sympathetic Nervous System Related Pain”; “Head and Neck Pain”; “Brachial Plexus Block Update: State of the Art: PNS vs. US”; “Lower Extremity Nerve Blocks: State of the Art: PNS vs. US”; “Spinal & Epidural Blocks Including Spinal Medications for Acute and Chronic Pain Management”*. **Oral** Presentation. Dannemiller Memorial Education Foundation Annual Pain Review Course 2017. Chicago, IL, August 19-21, 2017.
724. *“Complications in Interventional Pain Management”*; **Oral** Presentation. California Society of Interventional Pain Physicians (CASIPP) Annual Meeting. Santa Monica, CA, September 17, 2017.
725. *“The Role of Opioids in Chronic Pain Management”*; **Oral** Presentation. Illinois State Medical Society; The Horton Group Meeting: “Feeling the Pain”. Oakbrook, IL, September 20, 2017.
- 726-727. *“Spinal Cord Stimulation: State of the Art”*; **Oral** Presentation and Workshop. *“Vertebral Augmentation: Vertebroplasty vs. Kyphoplasty”*; **Oral** Presentation and Workshop. Society for Pain Practice Management 10<sup>th</sup> Annual Ultrasound, Didactic, and Cadaver Workshops. Advocate Illinois Masonic Medical Center, Chicago, IL, September 23-24, 2017. Also Served as **Course Director**.
- 728-729. *“Update on Comparison of Ultrasound and Fluoroscopy for Interventional Pain Management: What Does the Literature Show Us?”; “Ultrasound Use for Head and Neck Procedures in Interventional Pain Management”*. **Oral** Presentation and Hands-On Workshop. New York-New Jersey Societies of Interventional Pain Physicians’ Annual Meeting and Workshops. Jersey City, NJ, October 26-29, 2017.
730. *“Update on Brachial Plexus Anesthesia for Upper Extremity Surgery: What Does Contemporary Literature Tell Us About Success Rates and Complications?”* **Oral** Presentation. Advocate Illinois Masonic Medical Center Resident Lecture. Chicago, IL., November 01, 2017.

731. "*The Opioid Epidemic in America: Implications for Surgical Patients*". **Oral** Presentation and Invited **Distinguished Professor Lecture**. The University of Illinois College of Medicine at Chicago. Department of Surgery. Chicago, IL., January 12, 2018.
732. "*The Opioid Crisis in America: Fact or Fiction? Implications for Surgical Patients*". **Oral** Presentation. Grand Rounds Lecture. Department of Anesthesiology, Advocate Illinois Masonic Medical Center, Chicago, IL., March 06, 2018.
- 733-740. "*Avoiding Complications of Interventional Pain Management*"; "*Research and Publications as Part of Your Practice in Interventional Pain Management*"; "*Research and Publications in Interventional Pain Management*"; "*Transforaminal Injections: Cervical, Thoracic, Lumbar. Risks: Do We Still Need Them?*" "*Strategies to Overcome Denials: Show Them the Evidence*"; "*Steroids in Epidural Injections: Do We Need Them?*"; "*Relevant Pharmacology of Antithrombotics*". **Oral** Presentations. American Society of Interventional Pain Physicians Annual Meeting, Orlando, FL. March 15-18, 2018.
- 741-742. "*Pain; Gender; and Opioids: The Role of Sex Hormones in Chronic Pain Conditions*"; "*Interventional Pain Management in Palliative Care*". **Oral** Presentations. Beautiful Mind in Palliative Care 6<sup>th</sup> Annual Meeting. Mondello Beach, Palermo, Sicily. April 13-14, 2018.
- 743-745. "*The Opioid Crisis and It's Implication for Surgical Patients*"; "*Avoiding Pitfalls in Interventional Pain Management*"; "*Dealing with Insurance Company Denials for Interventional Pain Management*". **Oral** Presentations. Georgia Society of Interventional Pain Physicians (GSIPP) 14<sup>th</sup> Annual Meeting. Greensboro, Georgia. April 21-22, 2018.
- 746-748. "*Atlanto-Axial and Atlanto-Occipital Nerve Blocks for Chronic Headache Pain Management*"; "*Dorsal Root Ganglion Block of C2, C3-C6 for Chronic Cervical Neuropathic Pain*"; "*Dorsal Root Ganglion (DRG) Spinal Stimulation for Chronic Abdominal, Chronic Knee, and Chronic Lower Extremity Neuropathic Pain including Causalgia*". **Oral** Presentations and Anatomical Hands-On Workshops. Advanced Course in Interventional Pain Procedures for the Management of the Chronic Pain Patient. University of Barcelona, Barcelona, Spain. May 05-06, 2018.
- 749-750. "*Radiofrequency of the Extremities*"; "*The Evidence for Intrathecal Drug Delivery Systems*". **Oral** Presentations and Panels. The West Virginia Society of Interventional Pain Physician's Annual Pain Meeting. Pain 2018. Also served as **Course Co-Director**. Miami, FL., May 31-June 02, 2018.
- 751-754. "*Interventional Management of Neuropathic Pain*"; "*Interventional Pain Management for Spinal Stenosis: Beyond Epidurals and Adhesiolysis*"; "*Current Status and Future Potential of Radiofrequency in Managing Facet Joint Pain*"; "*Neuromodulation for CRPS*".

**Oral** Presentations and Panels. The Midwest Society of Interventional Pain Physicians Annual Pain Meeting. Also served on **Organizing Committee**. Chicago, IL., June 8-9, 2018.

755. “*Immediate Adverse Events in Interventional Pain and Strategies to Reduce Occurrences*”. Distinguished Professor Invited Quarterly **Grand Rounds** Discussion. **Oral** Presentation. Texas Tech University Health Sciences Center Department of Anesthesiology and Pain Management. Lubbock, TX, June 21, 2018.
756. “*Spinal and Epidural Anesthesia and Analgesia: The Basics*”. Department of Anesthesiology Morning Lecture. **Oral** Presentation. Advocate Illinois Masonic Medical Center, Chicago, IL., July 9, 2018.
- 757-759. “*MILD Procedure*” (*Hands-on Workshop and Didactics*); “*Spinal Cord Stimulators vs. Intrathecal Drug Delivery Systems*”; “*Interlaminar Parasagittal Epidural Steroid Injections for Chronic Radicular Type Pain*”. **Oral** Presentations. Florida Society of Interventional Pain Physicians (FSIPP) Annual Meeting. Palm Beach, FL., July 19-20, 2018.
- 760-761. “*Opioids for Cancer Pain Management*”; “*Adjuvants to Opioids for Chronic Pain Management: Do They Make a Difference?*”. **Oral** Presentations. Dannemiller Memorial Education Foundation Meeting on the Opioid Epidemic. Chicago, IL., August 04-05, 2018.
- 762-763. “*MSK Injections in Interventional Pain Management*”; “*Complications of Interventional Pain Management*”. **Oral** Presentation. Ohio-Kentucky Societies of Interventional Pain Management Annual Meeting. Cincinnati, OH., August 17-18, 2018.
- 764-765. “*Spinal Cord Stimulation for Chronic Pain Management: Theory and Techniques*”; “*Vertebral Augmentation: Roles of Vertebroplasty and Balloon Kyphoplasty*.” **Oral** Presentations and Hands-on Cadaver Workshops. SPPM 11<sup>th</sup> Annual Pain Management Workshops. Advocate Illinois Masonic Medical Center. Chicago, IL., September 15-16, 2018.
766. “*The Opioid Crisis in America: Strategies for Addressing this Locally and Nationally*.” **Oral** Presentation and Panel Discussion. Becker’s Hospital Review. 4<sup>th</sup> Annual Health IT + Revenue Cycle Conference. Chicago, IL., September 20, 2018.
767. “*Interventional Pain Management for Palliative Care*.” **Oral** Presentation and Panel Discussion. 22<sup>nd</sup> International Congress on Palliative Care. Montreal, Quebec, Canada. October 02, 2018.
768. “*The Opioid Crisis in America: Myth or Reality*.” Oral Presentation and Invited **Grand Rounds Lecture**. Rosalind Franklin University/Chicago Medical School. Department of Clinical Sciences. North Chicago, IL., October 10, 2018.
- 769-771. “*Complex Regional Pain Syndrome (CRPS); Interventional Therapy vs. Medical Management*”; “*Regional Anesthesia for Upper Extremity Surgery*”; “*Regional Anesthesia for Lower Extremity Surgery*”. **Oral** Presentations: Lectures for the Mexican Society of Anesthesiologists Annual Meeting. Puerto Vallarta, Jalisco, Mexico. October 31-November 02, 2018.
- 772-773. “*What’s New in Ultrasound Used for Interventional Pain Management?*”; “*Session Moderator; Ultrasound in Interventional Pain Management*.” **Oral** Presentations. New



York-New Jersey Societies of Interventional Pain Management Annual Meeting. Jersey City, NJ. November 8-9, 2018.

774. *“Spinal Cord Stimulators; Intrathecal Drug Delivery Systems; Regenerative Medicine: Considerations for the Physical Medicine and Rehabilitation Physician”*. **Oral** Presentation. **Grand Rounds** Invited Guest Professor Lecture. Rush University Medical Center; Department of Physical Medicine and Rehabilitation. Chicago, IL., January 21, 2019.
775. *“Chronic Pain and Chronic Pain Management: State-of-the-Art for 2019”*. **Oral** Presentation. Department Lecture. Advocate Illinois Masonic Medical Center. Chicago, IL., February 08, 2019.
- 776-781. *“Ultrasound Guided Wrist Blocks”; “Ultrasound Guided Elbow Blocks”; “Ultrasound Guided Shoulder Blocks”; “Ultrasound Guided Hip Blocks”; “Ultrasound Guided Foot and Ankle Blocks”; “Ultrasound Guided Pelvic Blocks”*. **Oral** Presentations and Hands On Workshops. American Society of Interventional Pain Physicians (ASIPP) Annual Didactic Series and Workshops. Orlando, FL., February 21, 2019.
- 782-786. *“Lumbar Discography; Sacroiliac Joint Injections; Lumbar Transforaminal Epidural Injections; Lumbar Intraarticular Facet Joint Injections; Percutaneous Adhesiolysis”*. Hands On Workshops. American Society of Interventional Pain Physicians (ASIPP) Annual Didactic Series and Workshops. Orlando, FL., February 23-24, 2019.
- 787-788. *“Prescribing Opioids and Controlled Substances. How to Balance the Risks and Benefits in 2019.”; “Identifying High Risk Patients with Aberrant Behavior Before Prescribing Opioids.”* **Oral** Presentations. Society for Pain Practice Management. Billing and Coding Workshops. Las Vegas, NV., March 2, 2019.
- 789-790. *“Regional Anesthesia for the Patient with a Pre-Existing Neuropathy”; “Journal Club Monitor Session”*. **Oral** Presentations. **Invited Guest Professor Lecture**. The Hospital for Special Surgery Department Grand Rounds. New York, N.Y., April 18-19, 2019.
- 791-794. *“The Opioid Epidemic in America: Past, Present, Future”; “How to Deal with Insurance Denials”; “Sedation for Interventional Pain Procedures: Adverse Consequences, Medical Necessity, and Financial Implications”*. **Oral** Presentations. The American Society of Interventional Pain Physicians (ASIPP) Annual Meeting. Las Vegas, NV, May 3-5, 2019.
- 795-796. *“The Opioid Epidemic in America: Past, Present, Future”; “Managing a Long-Term Opioid Therapy: Physician and Patient.”* **Oral** Presentations. The Midwest Component of the American Society of Interventional Pain Physicians (ASIPP) Annual Meeting. Chicago, IL., June 7-9, 2019.
797. *“Pain Management-Key Business Issues”*. **Oral** Presentation. 17<sup>th</sup> Annual Future of Spine + The Spine, Orthopedic & Pain Management-Driven ASC Conference. Chicago, IL., June 14, 2019.
- 798-799. *“Epidural Steroid Injections: Cervical, Thoracic, Lumbar. Techniques and Medications”. “Trigeminal Nerve Blocks; Stellate Ganglion Nerve Blocks”*. **Oral** Presentations. American Society of Interventional Pain Physicians (ASIPP) Interventional

Techniques Comprehensive Review Course and Cadaver Workshop. Memphis, TN., July 12-13, 2019.

800. "*Spinal and Epidural Blocks: The Basics*". **Oral** Presentation. Resident Lecture. Advocate Illinois Masonic Medical Center, Chicago, IL., July 15, 2019.
- 801-802. "*Evidence Based Guidelines for Interventional Pain Management.*"; "*Battlefield Anesthesia Management of Trauma.*" **Oral** Presentations. Florida Society of Interventional Pain Physicians (FSIPP) Annual Meeting. Hollywood, FL., July 18-21, 2019.
- 803-804. "*Moving Beyond Corticosteroids for Epidural Injections: The Emerging Role of Novel Drugs for the Treatment of Radicular Pain.*" "*Complicated Head and Neck Pain Interventional Options.*" **Oral** Presentations/Panel Discussions. The American Society of Pain & Neuroscience Annual Meeting (ASPN). Miami, FL., July 26-28, 2019.
- 805-806. "*The Use of Particulate vs. Non-Particulate Steroids for Interventional Pain Management*"; "*The History of The Opioid Epidemic in America.*" **Oral** Presentations. The Ohio-Kentucky Societies of Interventional Pain Physicians Annual Meeting. Cincinnati, OH., August 09-10, 2019.
807. "*Regional Anesthesia in the Patient with Pre-Existing Neuropathy*". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds Lecture. Chicago, IL., September 24, 2019.
- 808-809. "*Ultrasound Use for Head and Neck Regional Anesthesia*"; "*Ultrasound Use for Celiac Plexus and Abdominal Blocks for Chronic Pain*". **Oral** Presentations and Hands On Workshop Demonstrations. Mexican Congress (International) of Anesthesiology. Tijuana (Baja California), Mexico, October 16, 2019.
- 810-811. "*Regional Anesthesia in Patients with Pre-Existing Neuropathy*"; "*Use of Neuromodulation vs. Intrathecal Drug Delivery Systems for Chronic Pain.*" **Oral** Presentations. Mexican Congress (International) of Anesthesiology. Tijuana (Baja California), Mexico, October 16, 2019.
812. "*The Opioid Epidemic in America. Facts vs. Fiction*". **Oral** Presentation. Becker's ASC Annual Meeting. Chicago, IL., October 24, 2019.
- 813-815. "*Epidural Steroid Injections: Cervical, Thoracic, Lumbar. Techniques and Literature*". "*Lumbar Facet Joint Intraarticular and Medial Branch Nerve Blocks and Radiofrequency Ablation*". "*Regenerative Medicine of The Shoulder Joints.*" **Oral** Presentations. American Society of Interventional Pain Physicians (ASIPP) Annual Didactic Meeting and Workshops. Memphis, TN., November 01, 2019.
- 816-817. "*Bundled vs. Unbundled Pain Procedures. How to Get Paid for Interventional Pain Management*"; "*The History of America's Opioid Epidemic: FOFAT*". **Oral** Presentations. NY-NJ Societies of Interventional Pain Physicians (SIPP) Annual Meeting. Jersey City, NJ, November 7-10, 2019.
- 818-819. "*Bundled vs. Unbundled Pain Procedures. How to Get Paid for Interventional Pain Management*"; "*The History of America's Opioid Epidemic: FOFAT*". **Oral** Presentations. Rush University Medical Center; Department of PM&R Grand Rounds. **Invited Professor**

**Lectures.** Chicago, IL., January 04, 2020.

- 820-821. “*How to Identify Patients with Aberrant Opioid Behaviors: What Your Practice Can Do*”; “*Prescribing Opioids and Controlled Substances: How to Balance the Risks and Benefits*”. **Oral** Presentations. Society for Pain Practice Management (SPPM). Las Vegas, NV., February 21-22, 2020.
822. “*How to Identify Patients with Aberrant Opioid Behaviors: What Your Practice Can Do*”. **Oral** Presentation. Illinois Institute for Continuing Legal Education, 5<sup>th</sup> Annual Meeting. Chicago, IL., March 05, 2020.
823. “*Chronic Pain and its Management*”. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds Lecture. Chicago, IL., June 08, 2020.
824. “*Anesthesia for Orthopedic Surgery*”. **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Grand Rounds Lecture. Chicago, IL., June 18, 2020.
- 825-829. “*The Opioid Epidemic: From Past to Present*”; “*Antipyretics, Analgesics, Antidepressants, and Anticonvulsants in Pain Medicine*”; “*Complex Regional Pain Syndrome*”; “*Neuropathic Pain*”; “*Electrostimulation/SCS*”. **Oral** Presentations. American Society of Interventional Pain Physicians (ASIPP) Pain Board Review Course. Chicago, IL., July 19-26, 2020.
830. “*Spinal and Epidural Blocks: The Basics*”; **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesiology Resident Lecture. Chicago, IL., July 24, 2020.
831. “Basics of Electromyography.” **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 5, 2020.
832. “Central Pain Syndromes”. **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 7, 2020.
833. “Central Pain States: Diagnosis and Management”. **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 12, 2020.
834. “Facial Pain Syndromes”. **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 19, 2020.
835. “Headaches”. **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 21, 2020.
836. “Specific Neuromuscular Syndromes.” **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Bernard Abrams. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 26, 2020.
837. “Biology of Pain Processing-I”. **Moderator:** Dannemiller Memorial Education Foundation

- Lecture of Dr. Tony Yaksh. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., August 28, 2020.
838. "Biology of Pain Processing-II". **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Tony Yaksh. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 2, 2020.
839. "Post-Nerve Injury Pain". **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Tony Yaksh. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 4, 2020.
840. "Pharmacology of Analgesic Drugs". **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Tony Yaksh. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 9, 2020.
841. "Post-Tissue Injury Processing". **Moderator:** Dannemiller Memorial Education Foundation Lecture of Dr. Tony Yaksh. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 11, 2020.
842. Journal Club: "Improved Psychosocial and Functional Outcomes and Reduced Opioid Usage Following Burst Spinal Cord Stimulation". (Neuromodulation; 2020). **Moderator:** Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 15, 2020.
843. "Upper Extremity Nerve Blocks to Manage Chronic Pain". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 16, 2020.
844. "Head and Neck Blocks". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 18, 2020.
845. "Nociceptive Pain". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 23, 2020.
846. "Lower Extremity Nerve Blocks for Chronic Pain Management". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 25, 2020.
847. "Spinal and Epidural Blocks." **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., September 30, 2020.
848. "America's Opioid Epidemic". **Oral Presentation.** Invited Professor **Grand Rounds Lecture.** Rutgers University Department of Anesthesiology and Pain Management. Newark, NJ; Virtual Presentation. September 30, 2020.
849. "Evidence-Based Medicine: Spinal and Epidural Interventions for Chronic Pain Management-I". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., October 02, 2020.
850. "Evidence-Based Medicine: Spinal and Epidural Interventions for Chronic Pain

Management-II". **Moderator:** Dannemiller Memorial Education Foundation Lecture of **Dr. Kenneth Candido**. Pain Medicine Fellows Lecture. AIMMC., Chicago, IL., October 07, 2020.

- 851-853. "Small Independent Pain Practices or Big Corporations: Advantages and Disadvantages"; "In Court or Out of It: Legal Matters Related to Opioid Prescriptions"; "Suture Types, Sizes and Properties". **Oral** Presentations. American Society of Regional Anesthesia and Pain Medicine (ASRA) 19<sup>th</sup> Annual Pain Medicine Meeting., Chicago, IL., November 20-22, 2020.
- 854-855. "Evidence & Clinical Indications for DRG as a Salvage Therapy"; "Cost Effectiveness of Neuromodulation". **Oral** Presentations (Virtual Zoom). North American Neuromodulation Society (NANS) Annual Meeting. Delivered from Chicago, IL., December 17, 2020 (Meeting Viewing: January 15-16, 2021).
856. "Tackling Chronic Pain While Reducing Opioid Use: Strategies to Reduce the Risks and Improve Patient Care". **Oral** Presentation (Virtual Zoom). Society for Pain Practice Management (SPPM) Annual Pain Review Meeting. Delivered from Chicago, IL., January 22, 2021.
- 857-861. "Trauma Anesthesia"; "CRPS and Sympathetic Pain Management"; "Head and Neck Blocks"; "Upper Extremity Regional Anesthesia"; "Lower Extremity Regional Anesthesia". **Oral** Presentations and Updates (Virtual Zoom). Dannemiller Memorial Education Foundation Annual Pain Board Review Course. Delivered from Oakbrook, IL., January 23, 2021.
- 862-864. "Atlanto-Axial Joint Injections"; "Dorsal Root Ganglion Blocks C2, C3-C8"; "Cervical Discogenic Pain. Discography and Procedures." **Oral** Presentations and Hands-On Interventional Fluoroscopic Workshops." Interventional Procedures and Regenerative Medicine for the Management of the Chronic Pain Patient." Course V. May 7-June 15, 2021. Academy Fundolor. Barcelona, Spain, May 7-June 15, 2021.
865. "Chronic Pain Management"; **Oral** Presentation. Advocate Illinois Masonic Medical Center, Department of Anesthesia, Resident **Grand Rounds Lecture**. Chicago, IL., June 29, 2021.
866. "Interventional Pain Management for Cancer Pain"; **Oral** Presentation. Simply the Best Congress. Professor Sebastian Mercadante, Scientific Director. Palermo, Sicily, July 8-10, 2021.
867. "Cervical Facet Joint Injections; Medial Branch Blocks; Radiofrequency Ablations. Clinical Indications and Techniques." **Oral** Presentation. American Society of Interventional Pain Physicians (ASIPP) Annual Review Course Lectures (Virtual). Memphis, TN, July 24, 2021.
868. "Spinal and Epidural Analgesia and Anesthesia." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Anesthesia Grand Rounds. Chicago, IL., July 27, 2021.
869. "Steroids Used for Interventional Pain Management." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL.,

August 03, 2021.

870. "Cervical Spine Pain: Facet Joint Injections; Medial Branch Blocks; Radiofrequency Ablation." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., August 05, 2021.
871. "Sympathetic Nervous System Related Pain: From Stellate Ganglion to Celiac Plexus to Lumbar Sympathetic Blocks." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., August 06, 2021.
872. "Complex Regional Pain Syndrome Type I and Type II: Diagnosis and Treatment." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., August 11, 2021.
- 873-875. "Peripheral Nerve Stimulation for Management of Chronic Pain"; "Future in Interventional Pain Medicine." **Oral** Presentations. Florida Society of Interventional Pain Management (FSIPP) Annual Course. "Ultrasound Use in the Management of Chronic Pain"; Cadaver and Live Model Hands-On Workshop. FSIPP. Tampa, FL. August 14-15, 2021.
876. "Academic Pain Departments and Fellowship Outlook". **Oral** Presentation. Ohio-Kentucky Society of Interventional Pain Physicians Annual Meeting. Cincinnati, OH., August 21-22, 2021.
877. "Trauma Pain Management." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., August 25, 2021.
878. "Peripheral Nerve Stimulation for the Management of Chronic Pain: What Does the Evidence Show?". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., August 27, 2021.
879. "Interventional Pain Management: What is New and What Does the Evidence Show?". **Oral** Presentation. European Society of Regional Anesthesia (ESRA) Annual Meeting-2021. ESRA 2021 Virtual Congress, Berlin, Germany, September 9, 2021.
880. "Managing Pain in the Elderly Patient with Cognitive Decline"; **Oral** Presentation and Chair of Session. European Society of Regional Anesthesia (ESRA) Annual Meeting-2021. ESRA 2021 Virtual Congress, Berlin, Germany, September 10, 2021.
881. "Interventional Pain Management: What is New and What Does the Evidence Show?". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., September 15, 2021.
882. "The Opioid Epidemic in America: Origins and Current Status." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., September 17, 2021.
883. "Regional Anesthesia for Managing Pain of the Upper Extremities." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., September 22, 2021.
884. "Regional Anesthesia for Managing Pain of the Lower Extremities." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand

Rounds. Chicago, IL., September 24, 2021.

885. "Interventional Pain Management for Cancer Pain". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., September 28, 2021.
886. "Adjuvants to Local Anesthetics for Central and Peripheral Nerve Blocks". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 06, 2021.
887. "Use of Steroid Medication in Interventional Pain Management: History; Efficacy; Safety; Cost". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 08, 2021.
888. "Advance Techniques in Interventional Pain Management". **Oral** Presentation. California Society of Interventional Pain Physicians (CALSIPP) Annual Meeting. Terranea Resort, Ranchos Palos Verdes, California, October 15, 2021.
889. "Complications of Interventional Pain Management". **Oral** Presentation. California Society of Interventional Pain Physicians (CALSIPP) Annual Meeting. Terranea Resort, Ranchos Palos Verdes, California, October 15, 2021.
890. "Avoiding Complications in Interventional Pain Management". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 19, 2021.
891. "The Opioid Epidemic in America: Origins and Current Status". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 20, 2021.
892. "Medico-Legal Issues in Interventional Pain Management: Lessons Learned from the Closed Claims Study and Real Life Cases". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 26, 2021.
893. "Pelvic Pain I: Anatomy of the Pelvis". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 27, 2021.
894. "Pelvic Pain II: Painful Conditions and Their Treatment". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., October 28, 2021.
895. "The Future of Bundled Payments in Interventional Pain Management". **Oral** Presentation. New York-New Jersey Society of Interventional Pain Physicians' Annual Meeting. Jersey City, NJ. November 04, 2021.
896. Session Moderator. Novel Concepts in Ultrasound Use for Interventional Pain Management. New York-New Jersey Society of Interventional Pain Physicians' Annual Meeting. Jersey City, NJ. November 04, 2021.
897. "Interventional Pain Management Techniques for Chronic Pelvic Pain." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand

Rounds. Chicago, IL., November 11, 2021.

898. "Infusion Therapy for Chronic Pain: What's New and Supported by Literature." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., November 12, 2021.
899. "Infusion Therapy for Chronic Pain: What's New and Supported by Literature." **Oral** Presentation. American Society of Regional Anesthesia (ASRA) 20<sup>th</sup> Annual Pain Meeting. San Francisco, CA., November 17, 2021.
900. How to Perform an Independent Medical Examination (IME). **Oral** Presentation. American Society of Regional Anesthesia (ASRA) 20<sup>th</sup> Annual Pain Meeting. San Francisco, CA., November 17, 2021.
901. Workshop/**Oral** Presentation. Head and Neck Blocks Using Ultrasound Guidance. American Society of Regional Anesthesia (ASRA) 20<sup>th</sup> Annual Pain Meeting. San Francisco, CA., November 17, 2021.
902. Workshop/**Oral** Presentation. Fluoroscopy and Hands-On Fluoroscopy Anatomy. American Society of Regional Anesthesia (ASRA) 20<sup>th</sup> Annual Pain Meeting. San Francisco, CA., November 18, 2021.
903. Workshop/**Oral** Presentation. Hands-On Fluoroscopy Workshop Thoracolumbar Injections and RFA. American Society of Regional Anesthesia (ASRA) 20<sup>th</sup> Annual Pain Meeting. San Francisco, CA., November 18, 2021.
904. "Interventional Pain Management for Treatment of Malignancy Related Pain". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., December 01, 2021.
905. "Head and Neck Blocks I". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., December 08, 2021.
906. "Head and Neck Blocks II". **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., December 09, 2021.
907. "Sympathetic Nerve Blocks for Chronic Pain Management." **Oral** Presentation. Advocate Illinois Masonic Medical Center Department of Pain Management Grand Rounds. Chicago, IL., December 10, 2021.
908. "Responsible Opioid Prescribing in 2022." **Oral** Presentation. Society for Pain Practice Management (SPPM) Annual Review Course (Virtual Presentation). January 21, 2022.
- 909-911. "Atlanto-Axial and Atlanto-Occipital Nerve Blocks and Radiofrequency"; "DRG Procedures at C2 and C3-C8"; "Lumbar Interspinous Spacer Techniques for Chronic Spinal Stenosis Pain and Neurogenic Claudication". **Oral** Presentations and Hands-On Cadaver Workshops. Academy Fundolor, Annual Workshops and Lectures. University of Barcelona Hospital and Anatomy Laboratory. Barcelona, Spain, May 6-7, 2022.
- 912-915. "Diagnostic Imaging in Craniofacial Pain Syndromes"; "How to Run a Successful Independent Interventional Pain Practice"; "Visualizing Pain on the Brain: A Glimpse into the Future"; "Pain Phenotypes and Effectiveness of Minimally Invasive Spinal Procedures: Is There Any Relationship" (Moderator). **Oral** Presentations. European Society of



- Regional Anesthesia 39<sup>th</sup> Annual Meeting. Thessaloniki, Greece, June 22-24, 2022.
916. "The Opioid Epidemic in America-History and Influence of COVID-19". **Oral** Presentation. Florida Society of Interventional Pain Physicians (FSIPP) Annual Meeting. Tampa, FL., July 29, 2022.
917. "PRP: Evolution, Physiology, Acquisition, Preparation, and Technical Considerations". **Oral** Presentation. American Society of Interventional Pain Physicians (ASIPP) Annual Review Course on Regenerative Medicine (ZOOM Meeting). August 28, 2022.
918. "Facet Joint Pain; SI Joint Pain; Cluneal Nerve Pain". **Oral** Presentation. Atlantic Neuroscience Institute 16<sup>th</sup> Annual Pain Symposium: My Achy Back-Avoiding the Surgeon. Summit, NJ. September 28, 2022.
919. "Regenerative Medicine (PRP, Stem Cells) For Pain Management: Evolving Therapies". **Oral** Presentation. Evolving Approaches in Pain Management. Atlanta, GA. October 15, 2022.
920. "Novel Treatments for Post Traumatic Stress Disorder (PTSD)". **Oral** Presentation. National Spine and Pain Centers: Business of Pain Annual Meeting, Orlando, FL., October 22, 2022.
921. "Marijuana; Buprenorphine; Naltrexone for Chronic Pain Management". **Keynote Lecture**. **Oral** Presentation. Midwest Society of Interventional Pain Physician's Annual Meeting. Chicago, IL., November 11, 2022.
922. "Radiation Safety". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) 21<sup>st</sup> Annual Pain Meeting. Orlando, FL., November 17, 2022.
923. "Zebras in Pain Medicine: Update on Diagnosis and Treatment of Complex Regional Pain Syndrome". **Oral** Presentation. American Society of Regional Anesthesia (ASRA) 21<sup>st</sup> Annual Pain Meeting. Orlando, FL., November 18, 2022.
924. "Opioid Prescribing Best Practices Guidelines: 2023". Best Practices in Pain Management. **Oral** Presentation. Society for Pain Practice Management (SPPM). January 16, 2023.
925. "Regenerative Medicine Update: 2023. Role of Stem Cells in Pain Management". **Oral** Presentation. SMUD (Mexican Society of Ultrasound Guided Pain Management) Annual Meeting. Monterrey, Mexico, May 12, 2023.
926. "Update on Complex Regional Pain Syndrome (CRPS)". **Oral** Presentation. SMUD (Mexican Society of Ultrasound Guided Pain Management) Annual Meeting. Monterrey, Mexico, May 13, 2023.
927. "Regenerative Medicine for Peripheral Joints". **Oral** Presentation. ASPN (American Society of Pain and Neuromodulation) Annual Meeting. Miami, FL., July 7, 2023.

**ABSTRACTS PRESENTED AT SCIENTIFIC MEETINGS**

1. Datta S, **CANDIDO KD**. "Incidental Discovery of Carotid Artery Dissection As A Cause of Horner's Syndrome and Headache in a Patient Presenting for Follow-up of Lumbar Epidural Steroid Injection". Presented at The Midwest Anesthesia Resident's Conference MARC Annual Meeting, May 2000, (Chicago, IL).
2. Pedicini E, Fattouh M, Alosman A, Nasr N, Franco CF, Bird D, **CANDIDO KD**, Markey JA. "Neostigmine Does Not Prolong the Duration of Analgesia After Popliteal Fossa Block with Mepivacaine". Presented at MARC Annual Meeting, May 2000, (Chicago, IL), and at the American Society of Anesthesiologists Annual Meeting, October 2000, (San Francisco, CA).
3. Hussein Y, Khorasani A, **CANDIDO KD**, Saatee S. "Sonographic Determination of Anatomical Characteristics of the Internal Jugular Vein and Carotid Artery". Presented at the MARC Annual Meeting, May 1999, (Columbus, OH).
4. Khan MA, Raja DS, **CANDIDO KD**, Franco CF, Winnie AP. "Profiling the Onset and Extent of Brachial Plexus Blockade Utilizing Combinations of Amino-Amide and Ester Local Anesthetics". Presented at the MARC Annual Meeting, May 1999, (Columbus, OH). **(Second Place Award)**
5. Ghaleb A, **CANDIDO KD**, Khorasani A., Nader A., Saatee S. "Epidural Catheter Failure Following a Rescue Bolus Dose of Alkalinized 0.25% Bupivacaine". Presented at the MARC Annual Meeting, May 2001, (Milwaukee, WI). **(FIRST PLACE AWARD WINNER)**
6. Yaghmour E, Kendall M, Sukhani R, **CANDIDO KD**, Kelikian A. "Multimodal Anesthesia and Analgesia Facilitates Ambulatory Discharge of Patients Undergoing Osseous Reconstructive Ankle Surgery (RAS)". Presented at the ASA Annual Meeting, October 13, 2003, (San Francisco, CA).
7. Nader A, Kendall M, Sukhani R, **CANDIDO KD**, McCarthy R. "Interscalene Brachial Plexus Block: A Prospective Analysis of Neural Side-Effects in 400 Patients". Presented at the ASA Annual Meeting, October 15, 2003, (San Francisco, CA).
8. Kataria T, Sukhani R, Nathan N, Pai U, **CANDIDO KD**. "Femoral Nerve Anatomy: Anatomical Indicators for Neurostimulation Approach". Presented at the ASA Annual Meeting, October 15, 2003, (San Francisco, CA).
9. **CANDIDO KD**, Langen K, King M, Marra G. "Frequency Dependent Block Following Interscalene Brachial Plexus Block Using Bupivacaine". Presented at the ASRA Annual

Spring Meeting, April 8, 2006, (Richmond, VA).

10. **CANDIDO KD**, Kukhar I. "Anesthetic Considerations for a 7'07", 380 lb. Patient with Acromegaly". Presented at the MARC Annual Meeting, April 18, 2009, (Chicago, IL).
11. **CANDIDO KD**, Morris G. "Does Addition of Buprenorphine Prolong Postoperative Analgesia in Patients Receiving an Infragluteal Sciatic Nerve Block"? Presented at the MARC Annual Meeting, April 18, 2009, (Chicago, IL). (**FIRST PLACE AWARD WINNER**)
12. **CANDIDO KD**, Philip C. "Successful Treatment of Meralgia Paresthetica with Pulse Radiofrequency of the Lateral Femoral Cutaneous Nerve of the Thigh". Presented at the MARC Annual Meeting, April 18, 2009, (Chicago, IL).
13. **CANDIDO KD**, Yeung K. "Pain Management of Parsonage-Turner Syndrome". Presented at the MARC Annual Meeting, April 18, 2009, (Chicago, IL).
14. **CANDIDO KD**, Mackerley S. "A Case of Inadvertent Intravascular Injection during Selective C5 and C6 Nerve Root Injections". Presented at the MARC Annual Meeting, April 18, 2009, (Chicago, IL).
15. **CANDIDO KD**, Morris G. "Buprenorphine Added to the Local Anesthetic for Infragluteal Parabiceps Sciatic Nerve Block". Presented at the American Society of Regional Anesthesia (ASRA) Annual Spring Meeting. April 29, 2009, (Phoenix, AZ).
16. **CANDIDO KD**, Philip C. "Successful Treatment of Meralgia Paresthetica with Pulse Radiofrequency of the Lateral Femoral Cutaneous Nerve of the Thigh". Presented at the ASRA Annual Meeting, April 29, 2009, (Phoenix, AZ).
17. **CANDIDO KD**, Yeung K. "Pain Management of Parsonage-Turner Syndrome". Presented at the ASRA Annual Meeting, April 29, 2009, (Phoenix, AZ).
18. **CANDIDO KD**, Philip C. "Transforaminal 5% Phenol for Cancer Pain Management". Presented at the Midwest Anesthesia Resident Conference, February 20, 2010, (Cincinnati, OH). (**FIRST-PLACE AWARD WINNER**)
19. **CANDIDO KD**, Mukalel J. "Intrathecal Methylprednisolone for Managing Post-Herpetic Neuralgia Pain". Presented at the Midwest Anesthesia Resident Conference, February 20,

2010, (Cincinnati, OH). First Place Prize Award Winner.

20. **CANDIDO KD**, Childs, RS. "Post-Extubation Airway Obstruction from Occult Laryngeal Mass". Presented at the Midwest Anesthesia Resident Conference, February 20, 2010, (Cincinnati, OH). (**FIRST-PLACE AWARD WINNER**)
21. Childs RS, Ghaly RF, Knezevic NN, **CANDIDO KD**, Rise in Endtidal CO<sub>2</sub> Precedes Subcutaneous Erythema and Hypotension during Laparoscopic Robotic Surgery Presented at the Advocate Research Forum, May 19, 2010, (Chicago, IL).
22. Yeung K, **CANDIDO KD**, Pain Management of Parsonage-Turner Syndrome. Presented at the Advocate Research Forum, May 19, 2010, (Chicago, IL).
23. Knezevic NN, **CANDIDO KD**, Hennes J, Sergio Gonzalez S, Mikat-Stevens M, Pinzur M, Does Buprenorphine Prolong Postoperative Analgesia Following Infragluteal Sciatic Nerve Block? Advocate Research Forum, May 19, 2010, (Chicago, IL).
24. Kozlov GN, **CANDIDO KD**, Infraclavicular Brachial Plexus Block as Adjuvant Treatment for Painful Peripheral Vascular Disease Advocate Research Forum, May 19, 2010, (Chicago, IL).
25. Dieter ML, Ghaly RF, Knezevic NN, **CANDIDO KD**, Anesthetic Management in a Patient with Partially Corrected Type I Chiari Malformation, Syringomyelia and Cervical Kyphosis Advocate Research Forum, May 19, 2010, (Chicago, IL).
26. Philip CN, Ghaly RF, Knezevic NN, Stephenson R, **CANDIDO KD**, Post- Brain Tumor Resection MRI Is Essential Prior to Spinal Blockade for Parturients Undergoing Cesarean Section Advocate Research Forum, May 19, 2010, (Chicago, IL).
27. Ghaly RF, Trengove EM, Knezevic NN, **CANDIDO KD**, Nitroglycerine Administered with Sevoflurane Provided Superior Uterine Relaxation than Sevoflurane Alone for Retained Placenta: A Case Report Advocate Research Forum, May 19, 2010, (Chicago, IL).
28. Tharian A, **CANDIDO KD**, Chinthagada M. Epidural Hematoma during Neuraxial Block Despite Adherence to ASRA Guidelines on Clopidogrel: A Case Report Advocate Research Forum, May 19, 2010, (Chicago, IL).

29. Shanon Vargas S, Ghaly RF, Knezevic NN, **CANDIDO KD**. Perioperative Fatal Hemispheric Embolic Cerebrovascular Accident after Radical Prostatectomy: A Calling for Urgent Strategic Management and Revisit Definition of "Patient Last Seen Neurologically Normal at Induction Time". Advocate Research Forum, May 19, 2010, (Chicago, IL).
30. **CANDIDO KD**, Childs, RS. "Post-Extubation Airway Obstruction from Occult Laryngeal Mass". Presented at the American Society of Anesthesiologists Annual Meeting, October 16, 2010, (San Diego, CA).
31. **CANDIDO KD**, Rivera-Melendez, J. "Awake Fiberoptic Intubation Made Easy Outside the Operating Room: "Lidocaine Rinse and Swish" Technique". Presented at the American Society of Anesthesiologists Annual Meeting, October 16, 2010, (San Diego, CA).
32. **CANDIDO KD**, Mukalel J, Knezevic NN. "Removing Polyethylene Glycol from Methylprednisolone Makes Suspension Safer for Intrathecal Use". Presented at the American Society of Anesthesiologists Annual Meeting, October 16, 2010, (San Diego, CA).
33. **CANDIDO KD**, Ghaly R, Germanovich A. "Anesthetic Challenges in Renal Cell Carcinoma with Metastases to the Lungs and Craniocervical Junction". Presented at the American Society of Anesthesiologists Annual Meeting, October 16, 2010, (San Diego, CA).
34. **CANDIDO KD**, Saatee S, Knezevic NN. "Cerebral Oximetry as a Guide Monitor in Extreme Trendelenburg Position and Elevated Intrathoracic Pressure for Prolonged Robotic Radical Prostatectomy". Presented at the American Society of Anesthesiologists Annual Meeting, October 17, 2010, (San Diego, CA).
35. **CANDIDO KD**, Knezevic NN, McMillan Z. "Delayed Spinal Effect of Subarachnoid Blockade in 103-Year-Old Female". Presented at the American Society of Anesthesiologists Annual Meeting, October 17, 2010, (San Diego, CA).
36. **CANDIDO KD**, Ghaly R, Germanovich A, Knezevic NN. "CT-Scan Guided Gasserian Ganglion Corticosteroid Injection in an 18-Year-Old Male with Herpes Simplex Type I for 16 Months with Refractory Postherpetic Ophthalmic Neuralgia". Presented at the American Society of Anesthesiologists Annual Meeting, October 18, 2010, (San Diego, CA).

37. **CANDIDO KD**, Childs RS, Rivera-Melendez J, Knezevic NN. "Post Extubation Airway Obstruction from Occult Laryngeal Mass". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
38. **CANDIDO KD**, Rivera-Melendez J, Ghaly R, Childs RS, Knezevic NN. "Awake Fiberoptic Intubation Made Easy Outside the Operating Room: "Lidocaine Rinse and Swish". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
39. **CANDIDO KD**, Knezevic NN, Mukalel J, Knezevic I. "Removing Polyethylene Glycol from Methylprednisolone Makes Suspension Safer for Intrathecal Use". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
40. **CANDIDO KD**, Germanovich A, Ghaly R, Khorasani A, Knezevic NN. "Anesthetic Challenges in Renal Cell Carcinoma with Metastases to the Lungs and Craniocervical Junction". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
41. **CANDIDO KD**, Germanovich A, Ghaly R, Gorelick G, Knezevic NN. "CT-Scan Guided Gasserian Ganglion Injection of Dexamethasone and Lidocaine for the Treatment of Recalcitrant Pain Associated with Herpes Simplex-I Infection of the Ophthalmic Division of the Trigeminal Nerve". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
42. **CANDIDO KD**, Puppala V, Mukalel J, Knezevic NN. "Management of Postherpetic Neuralgia with Intrathecal Methylprednisolone". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
43. **CANDIDO KD**, Kozlov G, Rana M, Knezevic NN. "Reversible Locked-In Syndrome Due to Unintentional Intravascular Injection Following Transarterial Brachial Plexus Block.". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
44. **CANDIDO KD**, Ghaly R, McMillan Z, Knezevic NN. "Anesthetic Challenges in a Morbidly Obese Trauma Patient with Multiple GSW". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
45. **CANDIDO KD**, Puppala V, McMillan Z, Knezevic NN. "Management of HIV-Related Polyneuropathy with Spinal Cord Stimulator Neuromodulation: A New Clinical Indication". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL). **FIRST-PLACE AWARD WINNER**.

46. **CANDIDO KD**, Puppala V, Germanovich A, Knezevic NN. "Use of Intrathecal Morphine Delivery to Reduce Systemic Opioid Exposure in Two Narcotic-Dependent Patients with Hepatitis C Cirrhosis and HIV-Related Polyneuropathy. Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
47. **CANDIDO KD**, Saatee S, Ghaly R, Khorasani A, Knezevic NN. "Cerebral Oximetry as a Guide Monitor in Extreme Trendelenburg Position and Elevated Intrathoracic Pressure for Prolonged Robotic Radical Prostatectomy". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
48. **CANDIDO KD**, Ghaly R, Slota Y, Reid A, Khorasani A, Stephenson R, Knezevic NN. "Neuroanesthetic and Neurocritical Care Consideration for In-House Transtentorial Herniation Secondary to Traumatic Expanding Intracranial Hematoma: Review of Fundamentals". Presented at the MAC Meeting, November 13, 2010, (Chicago, IL).
49. **CANDIDO KD**, Ghaly R, Rivera-Melendez J, Childs S, Knezevic NN. "Awake Fiberoptic Intubation Outside the Operating Room: Lidocaine "Rinse and Swish" Technique. Presented at the ASRA Meeting, November 18, 2010, (Phoenix, AZ).
50. **CANDIDO KD**, Puppala V, Germanovich A, Knezevic NN. "Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Narcotic-Dependent Patients with Hepatitis C Cirrhosis". Presented at the ASRA Meeting, November 18, 2010, (Phoenix, AZ).
51. **CANDIDO KD**, Germanovich A, Knezevic NN. "CT Scan Guided Gasserian Ganglion Block for Management of Intractable Pain due to Herpes Simplex Type I Pain in the Ophthalmic Division of the Trigeminal Nerve". Presented at the ASRA Meeting, November 18, 2010, (Phoenix, AZ).
52. **CANDIDO KD**, Puppala V, Germanovich Z, Knezevic NN. "Neuromodulation for Management of HIV-Related Polyneuropathy". Presented at the ASRA Meeting, November 18, 2010, (Phoenix, AZ).
53. **CANDIDO KD**, Kozlov, Rana M, Knezevic NN. "Reversible Locked-In Syndrome Following Local Anesthetic Brachial Plexus Block". Presented at the ASRA Meeting, November 18, 2010, (Phoenix, AZ).

54. **CANDIDO KD**, Saatee S, Valdez J, Ghaly R, Khorasani A, Crystal G, Knezevic NN. "Cerebral Oximetry as a Guide Monitor in Extreme Trendelenburg Position and Elevated Intrathoracic Pressure for Prolonged Robotic Assisted Radical Prostatectomy". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
55. **CANDIDO KD**, Kozlov G, Childs R, Rana M. "A Case of Reversible Locked-In Syndrome Following Transarterial Axillary Brachial Plexus Block", Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
56. **CANDIDO KD**, Slota Y, Reid A, Ghaly R, Khorasani A, Crystal G, Knezevic NN. "Underlying Preoperative Asymptomatic Lumbar Spondylosis May Enhance Neurologic Deficit Following Subarachnoid Blockade". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
57. **CANDIDO KD**, Germanovich A, Puppala V, Knezevic NN. "Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Narcotic-Dependent Patients with Hepatitis C Cirrhosis". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL). (**FIRST-PLACE AWARD WINNER**)
58. **CANDIDO KD**, Puppala V, McMillan Z, Knezevic NN. "Management of HIV-Related Polyneuropathy with Spinal Cord Stimulation", Presented at the MARC Meeting, April 2, 2011, (Chicago, IL). (**FIRST-PLACE AWARD WINNER**)
59. **CANDIDO KD**, Reid A, Slota Y, Ghaly R, Khorasani A, Stevenson R, Knezevic NN. "Neuroanesthetic and Neurocritical Care Consideration for In-House Transtentorial Herniation Secondary to Traumatic Expanding Intracranial Hematoma: Review of Fundamentals". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
60. **CANDIDO KD**, McMillan Z, Ghaly R, Lapusca A, Puppala V, Knezevic NN. "Delayed Spinal Effect of Subarachnoid Blockade in a 103-Year Old Female". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
61. **CANDIDO KD**, Corber Z, Kukhar I, Mahdi M, Ghaly R, Knezevic NN. "High Airway Pressure Secondary to Tracheal Compression Caused by Cloward Retractor During Anterior Cervical Discectomy as a Predictor for Ipsilateral Recurrent Laryngeal Nerve Palsy". Presented at the MARC Meeting, April 2, 2011, (Chicago, IL).
62. Ghaly RF, Rivera-Melendez, JR, Childs RS, Knezevic NN, **CANDIDO KD**, Awake Fiberoptic Intubation Made Easy Outside the Operating Room: "Lidocaine Rinse and



Swish "Technique. Advocate Research Forum, Chicago, IL, May 10, 2011, (Chicago, IL).

63. **CANDIDO KD**, Mukalel J, Knezevic NN, Removing Polyethylene Glycol from Methylprednisolone Makes Suspension Safer for Intrathecal Use Advocate Research Forum, May 10, 2011, (Chicago, IL).
64. Ghaly RF, Germanovich A, Khorasani A, Knezevic NN, **CANDIDO KD**, Anesthetic Challenges in Renal Cell Carcinoma with Metastases to the Lungs and Craniocervical Junction Advocate Research Forum, May 10, 2011, (Chicago, IL).
65. Ghaly RF, McMillan Z, Lapusca A, Knezevic NN, **CANDIDO KD**, Delayed Spinal Effect of Subarachnoid Blockade in 103 Years Old Female Advocate Research Forum, May 10, 2011, (Chicago, IL).
66. Ghaly RF, Siavosh Saatee S, Knezevic NN, Khorasani A, **CANDIDO KD**, Cerebral Oximetry as a Guide Monitor in Extreme Trendelenburg Position and Elevated Intrathoracic Pressure for Prolonged Robotic Radical Prostatectomy Advocate Research Forum, May 10, 2011, (Chicago, IL).
67. Kozlov GN, Rana MV, **CANDIDO KD**, Reversible Locked-In Syndrome Due to Unintentional Intravascular Injection Following Trans-Arterial Brachial Plexus Block Advocate Research Forum, May 10, 2011, (Chicago, IL).
68. **CANDIDO KD**, Ghaly RF, Andrew Germanovich A, Gorelick G, Knezevic NN, CT-Scan Guided Intra-Gasserian Ganglion Corticosteroid Injection in an 18 Year-Old Male with Herpes Simplex Type I for 16 Months with Refractory Postherpetic Ophthalmic Neuralgia Advocate Research Forum, May 10, 2011, (Chicago, IL).
69. Puppala, VK, Germanovich A, Knezevic NN, **CANDIDO KD**, Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Narcotic Dependent Patients with Hepatitis C Cirrhosis. Advocate Research Forum, May 10, 2011, (Chicago, IL).
70. Puppala VK, Mukalel J, Knezevic NN, **CANDIDO KD**, Management of Postherpetic Neuralgia with Intrathecal Methylprednisolone Advocate Research Forum, May 10, 2011, (Chicago, IL).
71. Puppala VK, McMillan Z, Knezevic NN, **CANDIDO KD**, Spinal Cord Stimulation for

Management of HIV-Related Neuropathy Advocate Research Forum, May 10, 2011, (Chicago, IL).

72. **CANDIDO KD**, Puppala V, Knezevic NN. "Management of Postherpetic Neuralgia with Intrathecal Methylprednisolone". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
73. **CANDIDO KD**, Ghaly RF, Mills R, Knezevic NN. "Anesthetic Management for Occiput to Upper Cervical Fusion for Unstable Occiput to C1 Fracture Dislocation". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
74. **CANDIDO KD**, Kozlov G, Knezevic NN. "Brachial Plexopathy Following Pacemaker Generator Insertion". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
75. **CANDIDO KD**, Ghaly RF, Kukhar I, Corber Z, Knezevic NN. "High Airway Pressure Secondary to Tracheal Compression Caused by Cloward Retractor During Anterior Cervical Discectomy as a Predictor for Ipsilateral Recurrent Laryngeal Nerve Palsy". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
76. **CANDIDO KD**, Puppala V, Germanovich A, Knezevic NN. "Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Opioid-Dependent Patients with Hepatitis C Cirrhosis and Gastroparesis", Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
77. **CANDIDO KD**, Puppala V, Knezevic NN. "Management of HIV-Related Polyneuropathy with Spinal Cord Stimulation: A New Clinical Indication". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
78. **CANDIDO KD**, Ghaly RF, Reid A, Slota Y, Knezevic NN. "Neuroanesthesia and Critical Care Consideration for In-House Transtentorial Herniation Secondary to Traumatic Expanding Intracranial Hematoma", Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
79. **CANDIDO KD**, Ghaly RF, Ilkhchoui Y, Knezevic NN. "Neurotoxicity After Botox Injection: Is it Real?", Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).

80. **CANDIDO KD**, Ghaly RF, Thakkar A, Vargas S, Knezevic NN. "Pneumocephalus as Complication of Epidural Analgesia After Using Loss of Resistance to Air Technique". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
81. **CANDIDO KD**, Kozlov G, Rana M, Knezevic NN. "Reversible Locked-In Syndrome Without Seizure Following Trans-Arterial Plexus Block". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
82. **CANDIDO KD**, Ghaly RF, Slota Y, Reid A, Knezevic NN. "Underlying Preoperative Asymptomatic Lumbar Spondylosis May Enhance Neurologic Deficit Following Subarachnoid Blockade". Presented at the ASA Annual Meeting, October 16, 2011, (Chicago, IL).
83. **CANDIDO KD**, Knezevic NN, Germanovich A, Puppala V. "Intrathecal Drug Delivery Systems for Managing Pain in Chronic HIV-Related Pain Syndrome". Presented at the Midwest Anesthesia Conference, November 12, 2011, (Chicago, IL). **Winner: Best Abstract of Meeting Award.**
84. **CANDIDO KD**, Knezevic NN, Rana M, Puppala V, Kamerlink J, Khan MT. "Comparing Midline vs. Lateral Parasagittal Approaches during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injections". Presented at the ASRA Annual Fall Meeting, November 17-19, 2011, (New Orleans, LA). **Winner: Best Abstract of Meeting Award.**
85. **CANDIDO KD**, Knezevic NN, Tharian A, Kamerlink J, Germanovich A, Sauer R, Khan MT. "The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functioning". Presented at the ASRA Annual Fall Meeting, November 17-19, 2011, (New Orleans, LA).
86. **CANDIDO KD**, Knezevic NN, Rana M, Puppala V, Kamerlink J, Khan M. "The Role of Concordant Pressure Paresthesia in Determining Outcome During Fluoroscopically-Guided Lumbar Epidural Steroid Injection". Presented at the ASRA Annual Fall Meeting, November 17-19, 2011, (New Orleans, LA).
87. **CANDIDO KD**, Germanovich A, Puppala VK, Knezevic NN, Management of HIV-Related Polyneuropathy with Intrathecal Morphine Delivery in Two Opioid-Dependent Patients with Hepatitis C Cirrhosis 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
88. **CANDIDO KD**, Germanovich A, Ghaly RF, G. Gorelick, Knezevic NN, CT-Guided

Gasserian Ganglion Injection for the Treatment of Recalcitrant Pain Associated With Herpes Simplex-1 Infection of the Trigeminal Nerve 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).

89. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Puppala VK, Kamerlink J, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
90. **CANDIDO KD**, Knezevic NN, Rana MV, Puppala VK, Kamerlink J, Germanovich A, The Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
91. **CANDIDO KD**, Knezevic NN, Rana MV, Kamerlink J, Germanovich A, Puppala VK, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
92. **CANDIDO KD**, Knezevic NN, Mukalel JJ, Removing Polyethylene Glycol from Methylprednisolone Makes Suspension Safer for Intrathecal Use 6<sup>th</sup> Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
93. **CANDIDO KD**, MD Puppala VK, Knezevic NN, of HIV-Related Polyneuropathy with Spinal Cord Stimulation: A New Clinical Indication 6th Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
94. Ghaly RF, Germanovich A, Knezevic NN, **CANDIDO KD**, Long-term Effectiveness Of Neuromodulation In The Treatment of Post-surgical Radicular Pain 6<sup>th</sup> Congress Word Institute of Pain 2012, February 4-6, 2012, (Miami Beach, FL).
95. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Puppala VK, Kamerlink J, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection 28th Annual American Academy of Pain Medicine, February 23-25, 2012, (Palm Springs).
96. **CANDIDO KD**, Knezevic NN Rana MV, Puppala VK, Kamerlink, J, Germanovich A, The Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection. 28th Annual American

Academy of Pain Medicine, February 23-25, 2012, (Palm Springs, CA).

97. **CANDIDO KD**, Knezevic NN, Rana MV, Kamerlink J, Germanovich A, Puppala VK, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality 28th Annual American Academy of Pain Medicine, February 23-25, 2012, (Palm Springs, CA).
98. Puppala V, Kozlov G, Razminia M, Knezevic NN, **CANDIDO KD**, Three Patients with Painful Brachial Plexus Impingement Following Pacemaker Generator Placemen 37<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, March 15-18, 2012, (San Diego, CA).
99. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Puppala V, Kamerlink J, Sauer R, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection 15<sup>th</sup> WFSA World Congress of Anesthesiology, March 25-30, 2012, (Buenos Aires, Argentina).
100. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Kamerlink J, Khan MT, The Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection. 15<sup>th</sup> WFSA World Congress of Anesthesiology, March 25-30, 2012, (Buenos Aires, Argentina).
101. **CANDIDO KD**, Knezevic NN Rana MV, Puppala V, Tharian AR, Sauer R, Khan MT, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality 15<sup>th</sup> WFSA World Congress of Anesthesiology, March 25–30, 2012, (Buenos Aires, Argentina).
102. **CANDIDO KD**, Knezevic NN, Germanovich A, Rana MV, Puppala VK, Kamerlink J, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection. III NWAC World Anesthesia Convention, April 24-28, 2012, (Istanbul, Turkey).
103. **CANDIDO KD**, Knezevic NN, Kamerlink J, Rana MV, Sauer R, The Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection III NWAC World Anesthesia Convention, April 24-28, 2012, (Istanbul, Turkey).
104. **CANDIDO KD**, Knezevic NN, Kamerlink J, Rana MV, Puppala VK, Khan MT, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality III

NWAC World Anesthesia Convention, April 24-28, 2012, (Istanbul, Turkey).

105. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Puppala VK, Kamerlink J, Comparison of Two Different Approaches during Interlaminar Lumbar Epidural Steroid Injection Association of University Anesthesiologists - AUA 59th Annual Meeting, May 17-19, 2012, (Cleveland, OH).
106. Chien GCC, **CANDIDO KD**, Knezevic NN, Digital Subtraction Angiography Cannot Prevent Paraplegia from Lumbar Transforaminal Epidural Steroid Injection American Society of Inferential Pain Physicians - ASIPP Annual Meeting, June 9-13, 2012, (Washington, DC).
107. **CANDIDO KD**, Knezevic NN, Germanovich A, Rana MV, Puppala VK, Jonathan Kamerlink J, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection. 15th World Congress of Pain Clinicians, June 27-30, 2012, (Granada, Spain).
108. **CANDIDO KD**, Knezevic NN, Rana MV, Tharian A, Germanovich A, Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection 15th World Congress of Pain Clinicians, June 27-30, 2012, (Granada, Spain).
109. **CANDIDO KD**, Knezevic NN, Maunak V, Rana MV, Puppala VK, Kamerlink J, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality 15th World Congress of Pain Clinicians, June 27-30, 2012, (Granada, Spain).
110. Rahimi-Darabad R, **CANDIDO KD**, Sauer R, Knezevic NN, Tx360™ a non-invasive technique for sphenopalatine ganglion nerve block in the treatment of trigeminal neuralgia 2012 ACP Northern Illinois Associate's Day Meeting, November 2, 2012, (Chicago, IL).
111. Ghaly RF, **CANDIDO KD**, Sauer R, Knezevic NN, Complete Recovery after Antepartum Massive Intracerebral Hemorrhage in an Atypical Case of Sudden Eclampsia Neurocritical Care Society 2012 Annual Meeting, October 4-7, 2012, (Denver, CO).
112. Ghaly RF, Slota Y, Reid A, Knezevic NN, **CANDIDO KD**, Underlying Preoperative Asymptomatic Lumbar Spondylosis May Enhance Neurologic Deficit Following Subarachnoid Blockade Advocate Research Forum October 9, 2012, (Chicago, IL).

113. Ghaly RF, Knezevic NN, Germanovich A, **CANDIDO KD**. Long-term effectiveness of neuromodulation in the treatment of post-surgical radicular pain. Advocate Research Forum, October 9, 2012, (Chicago, IL).
114. Ghaly RF, Thakkar A, Vargas S, Knezevic NN, **CANDIDO KD**, Pneumocephalus as Complication of Epidural Analgesia after Using Loss of Resistance to Air Technique. Advocate Research Forum October 9, 2012, (Chicago, IL).
115. Ghaly RF, Reid A, Slota Y, Knezevic NN, **CANDIDO KD**, Neuroanesthetic and Neurocritical Care Consideration for In-House Transtentorial Herniation Secondary to Traumatic Expanding Intracranial Hematoma. Advocate Research Forum October 9, 2012, (Chicago, IL).
116. Knezevic NN, **CANDIDO KD**, Puppala V, Sauer R, Khan M, Comparing Midline vs. Lateral Parasagittal Approach during Fluoroscopically-Guided Interlaminar Lumbar Epidural Steroid Injection. Advocate Research Forum, October 9, 2012, (Chicago, IL).
117. Ghaly RF, Ivan Kukhar I, Corber Z, Knezevic NN, **CANDIDO KD**, High Airway Pressure Secondary to Tracheal Compression Caused by Cloward Retractor during Anterior Cervical Discectomy as a Predictor for Ipsilateral Recurrent Laryngeal Nerve Palsy. Advocate Research Forum October 9, 2012, (Chicago, IL).
118. Ghaly RF, Mills R, **CANDIDO KD**, Knezevic NN, Anesthetic Management for Occiput to Upper Cervical Fusion for Unstable Occiput to C1 Fracture Dislocation. Advocate Research Forum, October 9, 2012, (Chicago, IL).
119. Knezevic NN, **CANDIDO KD**, Rana MV, Germanovich A, Kamerlink J, Khan MT, The Role of Concordant Pressure Paresthesia in Determining Outcome during Fluoroscopically-Guided Lumbar Epidural Steroid Injection. Advocate Research Forum October 9, 2012, (Chicago, IL).
120. Knezevic NN, **CANDIDO KD**, Rana MV, Puppala V, Sauer R, Mohammed T Khan TM, The Effect of Lumbar Epidural Steroid Injections on Quality of Life and Everyday Functionality. Advocate Research Forum October 9, 2012, (Chicago, IL).
121. Puppala VK, Kozlov GN, Knezevic NN, Razminia M, **CANDIDO KD**. Three Patients with Painful Brachial Plexus Impingement Following Pacemaker Generator Placement. Advocate Research Forum, October 9, 2012, (Chicago, IL).

122. **CANDIDO KD**, Knezevic NN, Rana MV, Germanovich A, Tharian A, Kamerlink J, Comparison of Two Different Approaches During Interlaminar Lumbar Epidural Steroid Injections American Society of Anesthesiologists, (ASA), Meeting 2012, October 13, 2012, (Washington, DC).
123. Ghaly RF, Klier S, Knezevic NN, **CANDIDO KD**. Unexpected Malignant Hyperthermia in a Trauma Patient American Society of Anesthesiologists, (ASA), Meeting 2012, October 13, 2012, (Washington, DC).
124. **CANDIDO KD**, Raja O, Kamerlink J, Camara A, Knezevic NN. Meralgia Paresthetica: Is A New Systematic Approach Necessary? American Society of Anesthesiologists, (ASA), Meeting 2012, October 13, 2012, (Washington, DC).
125. **CANDIDO KD**, Slota Y, Kamerlink J, Rivera-Melendez J, Knezevic NN, Delayed Onset of Symptomatic Phrenic Nerve Blockade after Interscalene Brachial Plexus Block in a Middle-Aged Patient American Society of Anesthesiologists, (ASA), Meeting 2012, Washington, DC, October 13, 2012, (Washington, DC).
126. **CANDIDO KD**, Knezevic NN, Rana MV, Kamerlink J, Tharian A, Chupatanakul L, Quality of Life and Everyday Functionality Improvement After Interlaminar Lumbar Epidural Steroid Injection American Society of Anesthesiologists, (ASA), Meeting 2012, October 15, 2012, (Washington, DC).
127. Ghaly RF, Raja O, Knezevic NN, **CANDIDO KD**. Centrally Mediated Pulseless Electrical Activity during Craniotomy Surgery for Subdural Hematoma American Society of Anesthesiologists, (ASA), Meeting 2012, October 15, 2012, (Washington, DC).
128. Ghaly RF, Klier S, Knezevic NN, **CANDIDO KD**. Complete Recovery after Antepartum Massive Intracerebral Hemorrhage in An Atypical Case of Sudden Eclampsia American Society of Anesthesiologists, (ASA), Meeting 2012, October 15, 2012, (Washington, DC).
129. Ghaly RF, Slota Y, Vargas, Stephenson R, Knezevic NN, **CANDIDO KD**, Perioperative Stroke Due to Undiagnosed Protein S Deficiency American Society of Anesthesiologists, (ASA), Meeting 2012, October 15, 2012, (Washington, DC).
130. **CANDIDO KD**, Knezevic NN, Rana MV, Puppala V, Germanovich A, Sauer R, Steroid Injections and Pain Relief American Society of Anesthesiologists, (ASA), Meeting 2012,



October 15, 2012, (Washington, DC).

131. Ghaly RF, Slota Y, Gonzalez S, Knezevic NN, **CANDIDO KD**. Five Day Continuous Spinal Analgesia for Post-thoracotomy Pain American Society of Anesthesiologists, (ASA), Meeting 2012, October 16, 2012, (Washington, DC).
132. Kamerlink J, **CANDIDO KD**, Knezevic NN, Rana MV, Tharian A, Sauer R, Midline and Lateral Parasagittal Approaches During Interlaminar Lumbar Epidural Steroid Injections are effective in Reduction Pain and Improving Everyday Functionality. MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
133. Kamerlink J, **CANDIDO KD**, Knezevic NN, Rana MV, Chupatanakul L, Correlation between Concordant Pressure Paresthesia during Interlaminar Lumbar Epidural Steroid Injections and Immediate Pain Relief. MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
134. Kamerlink J, Knezevic NN, **CANDIDO KD**, Rana MV, Chupatanakul L, Sauer R, Parasagittal Approach during Interlaminar Lumbar Epidural Steroid is better in Long-term Pain Relief and Quality of Life Improvement MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
135. Raja O, Ghaly RF, Knezevic NN, **CANDIDO KD**. Centrally Mediated Pulseless Electrical Activity during Craniotomy Surgery for Subdural Hematoma MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
136. Klier S, Ghaly RF, **CANDIDO KD**, Sauer R, Knezevic NN, Complete Recovery after Antepartum Massive Intracerebral hemorrhage in an Atypical Case of Sudden Eclampsia MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
137. Slota Y, Gonzalez S, Ghaly RF, Knezevic NN, **CANDIDO KD**, Five Day Continuous Spinal Analgesia for Postthoracotomy Pain MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
138. Klier S, Ghaly RF, Kamerlink J, Knezevic NN, **CANDIDO KD**, Unexpected Malignant Hyperthermia in a Trauma Patient. MAC, Northwestern Memorial Hospital, November 10, 2012, (Chicago, IL).
139. Knezevic NN, **CANDIDO KD**, Rana MV, Kamerlink J, Antony Tharian A, Sauer R,

Chupatanaku L, The Parasagittal Approach during Interlaminar Lumbar Epidural Steroid Injections Is Superior for Long-term Pain Relief and Quality of Life Improvement than the Midline Approach. POSTER PRESENTATION, ASRA, 11th Annual Pain Medicine Meeting, November 15-18, 2012, (Miami, FL).

140. **CANDIDO KD**, Knezevic NN, Rana MV, Puppala V, Kamerlink J, Chupatanakul L, Correlation between Concordant Pressure Paresthesia during Interlaminar Lumbar Epidural Steroid Injections and Pain Relief POSTER PRESENTATION, ASRA, 11th Annual Pain Medicine Meeting, November 15-18, 2012, (Miami, FL).
141. Knezevic NN, **CANDIDO KD**, Rana MV, Germanovich A, Tharian A, Kamerlink J, Ruben Saue R, Midline and Lateral Parasagittal Approaches during Interlaminar Lumbar Epidural Steroid Injections Are Effective in Reducing Pain and Improving Everyday Functionality POSTER ASRA, 11th Annual Pain Medicine Meeting, November 15-18, 2012, (Miami, FL).
142. **CANDIDO KD**, Kamerlink J, Thanki S, Knezevic NN, Ultrasound guided cryoablation of the saphenous nerve using a transsartorial approach for neuropathic medial ankle pain POSTER ASRA, 11th Annual Pain Medicine Meeting, November 15-18, 2012, (Miami, FL).
143. Puppala V, Knezevic, NN, **CANDIDO KD**, Ultrasound-guided 3% Phenol Neurolytic Block for Intractable Occipital Neuralgia- POSTER ASRA, 11th Annual Pain Medicine Meeting, November 15-18, 2012, (Miami, FL).
144. "Sudden Loss of Unilateral Lower Extremity SSEP's During Spinal Surgery: Review of Causes". Kamyar Bahmanpour, Ramsis F. Ghaly, N. Nick Knezevic, **CANDIDO KD**. American Society of Anesthesiologists Meeting 2013, October 12-16, 2013, (San Francisco, CA).
145. "Efficacy and Safety of Three Different Approaches for Ultrasound Guided Femoral Nerve Block for Patients Undergoing Total Knee Arthroplasty". Antony R. Tharian, Sergio Gonzalez, Nicholas Niemiec, Siavosh Saatee, Raja Omar, Ruben Sauer, Lalida Chupatanakul, **CANDIDO KD**, N. Nick Knezevic. American Society of Anesthesiologists Meeting 2013, October 12-16, 2013, (San Francisco, CA).
146. "Concordant Pressure Paresthesia during Interlaminar Lumbar Epidural Steroid Injections Correlates with Pain Relief in Patients with Low Back Pain and Unilateral Radicular Pain". N. Nick Knezevic, **CANDIDO KD**, Maunak V. Rana, Antony Tharian, Ruben I. Sauer, Lalida Chupatanakul, Vladimir Vasic. American Society of

Anesthesiologists Meeting 2013, October 12-16, 2013, (San Francisco, CA).

147. "Anesthetic Concerns for a Patient with Epstein's Anomaly and Pectus Excavatum". Scott Klier, Jani Jai, N. Nick Knezevic, Caroline Ryan, **CANDIDO KD**. American Society of Anesthesiologists Meeting 2013, October 12-16, 2013, (San Francisco, CA).
148. "Acute Aortic Dissection Requiring CPB and DHCA". Scott Klier, Arjang Khorasani, **CANDIDO KD**, N. Nick Knezevic. American Society of Anesthesiologists Meeting 2013, October 12-16, 2013, (San Francisco, CA).
149. Honari S, **CANDIDO KD**, Knezevic NN, Health Care Reform: Battling Insurance Companies American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (New Orleans, LA).
150. **CANDIDO KD**, Nafisi S, Gorelick G, Knezevic NN, Fluoroscopic Imaging Used for Determining Accuracy of Thoracic Epidural Continuous Catheter Placement American Society of Anesthesiologists Meeting (ASA) 2014, October 11-15, 2014, (New Orleans, LA).
151. Lissounov A, Ghaly RF, Knezevic NN, **CANDIDO KD**, Should Routine MRI of the Lumbar Spine be Required Prior to Lumbar Epidural Steroid Injection for Sciatica American Society of Anesthesiologists Meeting (ASA) 2014, October 11-15, 2014, (New Orleans, LA).
152. Chien GCC, **CANDIDO KD**, Knezevic NN. Systemic Review and Meta-Analysis of Comparative Studies for Lumbosacral Radicular Pain: Transforaminal versus Interlaminar Approaches to Epidural Steroid Injections American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (New Orleans, LA).
153. Knezevic NN, Khan OM, Beiranvand A, **CANDIDO KD**. Quantitative Urine Toxicology Can Help in Improving Compliance and Opioid Dose Adjustment in Chronic Pain Patients American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (New Orleans, LA).
154. Knezevic NN, **CANDIDO KD**, Knezevic A, Knezevic I. Methylprednisolone Acetate with Reduced Concentrations of Preservatives is not Toxic to Dorsal Root Ganglion Sensory Neurons. American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (new Orleans, LA).

155. Knezevic NN, Khare V, **CANDIDO KD**. Constipation Problem in Chronic Non-Cancer Patients-Is it Appropriately Addressed? American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (New Orleans, LA).
156. Bahmanpour K, Ghaly RF, Knezevic NN, **CANDIDO KD**. Anesthesiologist Prevented A Possible Maternal-Neonatal Mortality And Morbidity: a Case of Misdiagnosed Arnold-Chiari Malformation During Labor American Society of Anesthesiologists Meeting (ASA), 2014, October 11-15, 2014, (New Orleans, LA).
157. Darabad RR, Alexei Lissounov, Kovacevic M, **CANDIDO KD**, Knezevic NN, A Novel Revision to the Trans-nasal Topical Sphenopalatine Ganglion Block for the Treatment of Head and Face Pain ASRA, 13th Annual Pain Medicine Meeting, November 13-16, 2014, (San Francisco, CA).
158. Knezevic NN, Lissounov A, Ghaly RF, **CANDIDO KD**, Routine Lumbar MRI Requirements Prior To Epidural Steroid Injection for Lower Back Pain ASRA, 13<sup>th</sup> Annual Pain Medicine Meeting, November 13-16, 2014, (San Francisco, CA).
159. Knezevic NN, Knezevic I, **CANDIDO KD**. Pain and Functionality Scores Discrepancy in Patients with Low Back Pain ASRA, 13th Annual Pain Medicine Meeting, November 13-16, 2014, (San Francisco, CA).
160. Knezevic NN, Hamid A, **CANDIDO KD**. The Advantages of Parasagittal Interlaminar Approach in Lumbar Epidural Steroid Injections. ASRA, 13th Annual Pain Medicine Meeting, November 13-16, 2014, (San Francisco, CA).
161. Knezevic NN, Knezevic I, Lissounov A, **CANDIDO KD**. Extended release Gabapentin Successfully Treats Post-Amputation Limb Pain. ASRA, 13th Annual Pain Medicine Meeting, November 13-16, 2014, (San Francisco, CA).
162. Knezevic NN, **CANDIDO KD**, Nafisi S. Is It Inaccurate Placement Of Thoracic Epidural Catheter The Reason For Lack of Efficacy? 4th World Congress of Regional Anesthesia & Pain Therapy (WCRAPT 2014), November 24-28, 2014, (Cape Town, South Africa).
163. Knezevic NN, **CANDIDO KD**, Anantamongkol U, Perineural Dexamethasone Improves Postoperative Pain But Also Delays The Onset And Prolongs Motor Block When Added To Brachial Plexus Blocks 4th World Congress of Regional Anesthesia & Pain Therapy

(WCRAFT 2014), November 24-28, 2014, (Cape Town, South Africa).

164. **CANDIDO KD**, Chien GC, Knezevic NN, Transforaminal Epidural Steroid Injections Are Not Superior When Compared with Interlaminar Epidural Steroid Injections For Treating Unilateral Lumbar Pain. 4th World Congress of Regional Anesthesia & Pain Therapy (WCRAFT 2014), November 24-28, 2014, (Cape Town, South Africa).
165. Knezevic NN, **CANDIDO KD**, Rahimi-Darabad RR, A Novel Revision to the Transnasal Topical Sphenopalatine Ganglion Block for the Treatment of Head and Face Pain. 4th World Congress of Regional Anesthesia & Pain Therapy (WCRAFT 2014), November 24-28, 2014, (Cape Town, South Africa).
166. Tharian A, Gonzalez S, Knezevic NN, **CANDIDO KD**, Ghaly RS. No Need To Use Catheters In Femoral Nerve Blocks After Total Knee Arthroplasty. 4th World Congress of Regional Anesthesia & Pain Therapy (WCRAFT 2014), November 24-28, 2014, (Cape Town, South Africa).
167. Knezevic NN, Lissounov A, **CANDIDO KD**. Considerations of Spinal Cord Stimulation in Elderly Patient on Chronic Anticoagulation Therapy. 18th Annual Meeting NANS North American Neuromodulation Society, December 11-14, 2014, (Las Vegas, NV).
168. Knezevic NN, Bosquet C, Knezevic I, **CANDIDO KD**. Increased BMI Does Not Affect the Efficacy of Spinal Cord Stimulators, but Slightly Increases the Risk of Infections. 18th Annual Meeting NANS North American Neuromodulation Society, December 11-14, 2014, (Las Vegas, NV).
169. Knezevic NN, Rana MV, Knezevic I, **CANDIDO KD**. Smoking Does Not Affect the Efficacy of Spinal Cord Stimulators and Does Not Increase the Risk of Infection. 18th Annual Meeting NANS North American Neuromodulation Society, December 11-14, 2014, (Las Vegas, NV).
170. "Discrepancy Between Pain Scores and Functional Activity Levels in Patients with Chronic Low Back Pain". Knezevic N, Knezevic I, **CANDIDO KD**. American Academy of Pain Medicine Annual Meeting 2015, March 20-22, 2015, (National Harbor, MD).
171. "Importance of Considering Lateral Parasagittal Interlaminar Approach for Lumbar Epidural Steroid Injections". Knezevic N, Lissounov A, Hamid A, **CANDIDO KD**. American Academy of Pain Medicine Annual Meeting 2015, March 20-22, 2015, (National Harbor, MD).

172. "Novel Once-Daily Formulation of Gabapentin is Very Effective in Treating Post-Amputation Phantom Limb Pain". Knezevic N, Knezevic I, Lissounov A, **CANDIDO KD**. American Academy of Pain Medicine Annual Meeting 2015, March 20-22, 2015, (National Harbor, MD).
173. Knezevic N, Knezevic I, **CANDIDO KD**. Inaccurate Pain Scores Reported by Patients with Chronic Low Back Pain Negatively Correlate with Patients Satisfaction. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
174. Knezevic N, Lissounov A, Hamid A, **CANDIDO KD**. Do We Have an Alternative to Transforaminal Injections to Provide Safe and Effective Lumbar Epidural Steroid Injections to Our Patients While Minimizing the Burden to the Healthcare System? American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
175. Nafisi S, Tharian A, Knezevic N, **CANDIDO KD**. Mucinous Drainage from Spinal Needle While Trying for Placement of Needle in Subarachnoid Space for Spinal Anesthesia. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
176. Nafisi S, Tharian A, Knezevic N, **CANDIDO KD**. Persistent Post-Operative Hoarseness after General Anesthesia that Requires ENT Evaluation. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
177. Anantamongkol U, Ghaly RF, Knezevic N, Tsuruta N, **CANDIDO KD**. Airway Options for Rigid Instrumented Occipital-Cervico-Thoracic Fusion in the ICU. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
178. Voronov D, Ghaly RF, Knezevic N, **CANDIDO KD**. Ruling Out Esophageal Perforation Important Prior to Direct Laryngoscopy. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).
179. Voronov D, Moskal A, Knezevic N, **CANDIDO KD**. Transesophageal Echocardiography Useful in Detecting Cardiac Tamponade Post Coronary Artery Bypass Graft. American Society of Anesthesiologists (ASA) Annual Meeting, October 23-28, 2015, (San Diego, CA).

180. Knezevic N, **CANDIDO KD**, Knezevic I. Chronic Low Back Patients Inaccurately Reporting Pain Scores are Less Satisfied with their Pain Management. 14<sup>th</sup> Annual ASRA Pain Meeting, November 19-21, 2015, (Miami, FL).
181. Knezevic N, **CANDIDO KD**, Rana MV, Knezevic I. No Difference in Efficacy of Spinal Cord Stimulators and No Increased Risk of Infection in Smoking Patients. 14<sup>th</sup> Annual ASRA Pain Meeting, November 19-21, 2015, (Miami, FL).
182. Liang X, **CANDIDO KD**, Knezevic N. Ketamine Facilitates Patient's Recovery from Opioid-Induced Hyperalgesia, 14<sup>th</sup> Annual ASRA Pain Meeting, November 19-21, 2015, (Miami, FL).
183. Abdulsattar M, Villa E, Knezevic NN, **CANDIDO KD**, ECMO Following on Pump CABG: A Case Report. ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
184. Abdulsattar M, Tharian A, **CANDIDO KD**, Knezevic NN, Hsu E, Ebrahimi F, Lower Limbs Weakness After Epidural Analgesia For Spontaneous Vaginal Delivery. ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
185. Haroutunian A, Ghaly RF, **CANDIDO KD**, Knezevic NN. Profound Myxedema Coma Associated with Left Frontal Meningioma and Impending Herniation. ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
186. Kuser T, Ghaly RF, Knezevic NN, **CANDIDO KD**. Patient Safety Comes First ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
187. Shirani MA, **CANDIDO KD**, Moskal A, Knezevic NN. Anesthetic Management for Orthopedic Procedure in a Patient with Suspicious Amyotrophic Lateral Sclerosis: A Case Report ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
188. Kohanchi D, Ghaly RF, Tverdohle T, Knezevic NN, **CANDIDO KD**. Spinal Neuromodulation as a Novel Surgical Option for Failed Back Surgery Syndrome Following rhBMP Exuberant Bony Growth in Instrumented Lumbar Fusion: A Case Report ASA 2016 Conference, October 22 -26, 2016, (Chicago, IL).
189. Knezevic NN, Rahavard BB, Mansouri D, Knezevic I, **CANDIDO KD**. Psychological Assessment Scaling Scores as Predicting Factors for Efficacy of Spinal Cord Stimulation Therapy 20<sup>th</sup> Annual Meeting NANS North American Neuromodulation Society, January

19-22, 2017, (Las Vegas, NV).

190. Knezevic NN, Kusper T, Mansouri D, Knezevic I, **CANDIDO KD**. Improved Functional Outcomes in Obese Patients after Spinal Cord Stimulation Therapy., 20<sup>th</sup> Annual Meeting NANS North American Neuromodulation Society, January 19-22, 2017, (Las Vegas, NV).
191. Rahavard BB, Knezevic NN, Mansouri D, Knezevic I, **CANDIDO KD**. Higher Baseline Pain and Less Pain improvement Following Spinal Cord Stimulator (SCS) Placement in Patients with Higher Beck Depression Index (BDI-2) Scale Score., Annual AAPM Meeting, March 16-19, 2017, (Orlando, FL).
192. Knezevic NN, Kusper T, Mansouri D, Knezevic I, **CANDIDO KD**. The Similar Pain Relief and Better Functional Improvement in Obese Patients after Spinal Cord Stimulation Therapy., Annual AAPM Meeting, March 16-19, 2017, (Orlando, FL).
193. Ahmadi S, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with a Large Pericardial Cyst: A Case Report POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
194. Kusper T, Agarwal D, Knezevic NN, **CANDIDO KD**. Chemotherapy-Induced Burning Mouth Syndrome POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th , 2017, (Boston, MA).
195. Kusper T, Knezevic NN, **CANDIDO KD**, Complete Relief of Pain Due To Non-Systemic Vasculitis Neuropathy with Spinal Cord Stimulation. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
196. Kusper T, Mansouri D, **CANDIDO KD**, Knezevic NN, Improved Functional Outcomes In Obese Patients After Spinal Cord Stimulation Therapy. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
197. Knezevic NN, Gharedaghi MH, Mansouri D, Voronov D, **CANDIDO KD**, Tharian AR. The Long-Term Outcomes of Three Different Types of Femoral Nerve Block in Patients Undergoing Total Knee Arthroplasty. POSTER ASA, American Society of Anesthesiologist Meeting (ASA) Boston, MA, October 21-24th, 2017, (Boston, MA).
198. Gharedaghi MH, Volakola MG, Dehpour AR, Knezevic NN, **CANDIDO KD**. Halothane Increases the Susceptibility of Bile Duct Ligated Cirrhotic Rats to Epinephrine-Induced



Arrhythmias POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).

199. Zouki T, Maurer A, Gonzales SL, Tharian AR, Knezevic NN, **CANDIDO KD**. Airway Management Considerations of Klippel-Feil syndrome: Case Report using Awake Fiber-Optic Technique POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
200. Gharedaghi MH, Mahdi MA, Knezevic NN, **CANDIDO KD**. Pulmonary Edema in a Patient with a History of Cannabis and Cocaine Use Following Mandibular Surgery. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
201. Gharedaghi MH, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Stiff-Person Syndrome Secondary to an Ovarian Teratoma. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
202. Zouki T, Ghaly RF, Knezevic NN, **CANDIDO KD**. Transforaminal Epidural Steroid Injection Causing Worsening of Neurological Deficits. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
203. Ahmadi S, Ghaly RF, Knezevic NN, **CANDIDO KD**. The Application of Transcutaneous Electrical Nerve Stimulation (TENS) in Occipital Neuralgia Treatment. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
204. Ahmadi S, Tverdohle T, Ghaly RF, Knezevic NN, **CANDIDO KD**. Labor Epidural Analgesia in a Patient with History of Lumbar Intradural Ependymoma Resection. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
205. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Neurological Deterioration in a Patient with Cerebral Gliomatosis Following Spinal Cord Stimulator (SCS) Placement and Symptoms Improved Significantly Following SCS Removal. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
206. Knezevic NN, Ladjevic N, Jovicic J, Knezevic I, **CANDIDO KD**. Non-opioid Treatment Options for Patients with Non-Cancer Pain are Employed Longer in Developing Country

Versus U.S. Prior to Opioid Prescription. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).

207. Rahavard B, Knezevic NN, **CANDIDO KD**. Comparison of Response to Acute and Chronic Pain Among Various Ethnic Groups. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
208. Zouki T, Saatee S, Abdulsattar M, Knezevic NN, **CANDIDO KD**. Don't Forget to Check the Twitches. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
209. Gharedaghi MH, Ghaly RF, Nikbin F, Knezevic NN, **CANDIDO KD**. Abdominal Compartment Syndrome and Retroperitoneal Hematoma Following an Intravascular Intervention. POSTER ASA, American Society of Anesthesiologist Meeting (ASA), October 21-24th, 2017, (Boston, MA).
210. Kusper T, Monsouri D, Knezevic NN, **CANDIDO KD**. Spinal Cord Stimulation Therapy in Obese Chronic Pain Patients. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
211. Knezevic NN, Camacho A, Amari K, **CANDIDO KD**. Former Smokers had Better Pain Improvement and Less Complications After Spinal Cord Stimulation than Current Smokers. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
212. Knezevic NN, Ladjevic N, Jovicic J, Knezevic I, **CANDIDO KD**. Non-opioid Treatment Options for Patients with Non-Cancer Pain are Employed Longer in Developing Country Versus U.S. Prior to Opioid Prescription. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
213. Kusper T, **CANDIDO KD**, Knezevic NN, Successful Application of Spinal Cord Stimulation for Pain Relieve in Non-Systemic Vasculitic Neuropathy. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
214. Rahavard B, Pynadath A, Knezevic NN, **CANDIDO KD**. Circadian Patterns Exists for Various Types of Pain. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).

215. Kuser T, Agarwal D, Knezevic NN, **CANDIDO KD**. Is it Possible to relieve Pain Caused by Chemotherapy-Induced Burning Mouth Syndrome? POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
216. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Safeguards of Spinal Cord Stimulator (SCWS) Placement in a Patient with Cerebral-Oligodendroglioma. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
217. Zouki T, Lipov E, Knezevic NN, **CANDIDO KD**. Stellate Ganglion Block Improved Refractory Post-Partum Depression A Case Report. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
218. Zouki T, Ghaly RF, Knezevic NN, **CANDIDO KD**. Transforaminal Epidural Steroid Injection Causing Worsening of Neurological Deficits. POSTER ASRA, 16th Annual Pain Medicine Meeting, November 16-18, 2017, (Lake Buena Vista, FL).
219. Ghaly RF, Plesca A, **CANDIDO KD**, Knezevic NN. The Use of Transcutaneous Electrical Nerve Stimulation (TENS) in Treatment of Refractory Occipital Neuralgia. Presented at 21st Annual Meeting NANS North American Neuromodulation Society, January 11-14, 2018, (Las Vegas, NV).
220. Knezevic NN, Camacho A, Amari K, Knezevic I, **CANDIDO KD**. Better Pain Improvement and Less Complications in Former than Current Smokers after SCS. Presented at 21st Annual Meeting NANS North American Neuromodulation Society, January 11-14, 2018, (Las Vegas, NV).
221. Rahavard B, Ghaly RF, **CANDIDO KD**. Knezevic NN. Precautions in a Patient with Cerebral-Oligodendroglioma Undergoing Spinal Cord Stimulator (SCS) Placement. Presented at 21st Annual Meeting NANS North American Neuromodulation Society, January 11-14, 2018, (Las Vegas, NV).
222. Maurer A, Tharian A, **CANDIDO KD**. Gonzales S, Knezevic NN, Airway Management Considerations of Klippel-Feil Syndrome: Case Report Using Awake Fiber-Optic Technique POSTER Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
223. Kotukhov A, Bonasera L, Thanki S, **Candido KD**. Case Report of Infection-Free Neuraxial Anesthesia in Parturient With Common Variable Immunodeficiency (CVID),

Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).

224. Kotukhov A, Khorasani A, Rahavard B, Knezevic NN, **Candido KD**, Iatrogenic Esophageal Perforation in a Patient with Zenker's Diverticulum and Eventual Mediastinitis Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
225. Haroutunian A, Ghaly RF, Knezevic NN, **CANDIDO KD**, Nerve Root Avulsion is not a Contraindication for Stellate Ganglion Block in a Patient with Established CRPS, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
226. Rahavard B, Knezevic NN, Pynadath A, **CANDIDO KD**, Review of the Circadian Pattern of Various Types of Pain. POSTER, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
227. England B, Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**, Anesthesiology Consideration in a Patient with Posterior Fossa Meningioma and Obstructive Hydrocephalous. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
228. Rahavard B, Ghaly RF, Patricoski J, Knezevic NN, **CANDIDO KD**, Short Segmental Spine Fusion Surgery (SSSFS) can be used as an Adjuvant to Reduce Opioids Prescription in Patients with Adult On-Set Scoliosis (AOS). Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
229. Haroutunian A, Zouki C, Knezevic NN, **CANDIDO KD**, A Case of Emergent Cricothyroidotomy in a Patient with Trismus Secondary to Cadaveric Spasm, Anesthesiology Consideration. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
230. Kotukhov A, Malcom T, Aghajani K, Zouki C, **CANDIDO KD**, Pulmonary Complications Following Primary Total Joint Arthroplasty Nationwide Between 20014-2014. POSTER, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
231. Kohanchi D, Khorasani A, Ahmadi S, Knezevic NN, **CANDIDO KD**, The Scrupulous Airway Plan. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).

232. Kohanchi D, Anantamongkol U, Ghaly RF, Knezevic NN, **CANDIDO KD**, A Rare Case of Delayed Subarachnoid Anesthetic Blockade Effects in a 103-Year-Old Female Patient. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
233. Gharedaghi MH, Aghajani K, Knezevic NN, **CANDIDO KD**. IPACK Block as a New Method of peripheral Nerve Block in Total Knee Arthroplasty for Better Pain Management. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
234. Gharedaghi MH, Ebrahimi F, Nikbin F, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Stiff-Person Syndrome Secondary to an Ovarian Teratoma. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
235. Gharedaghi MH, Knezevic NN, Valekola MG, Dehpour AR, **CANDIDO KD**. Halothane Increased the Susceptibility of Bile Duct Ligated Cirrhotic Rats to Epinephrine-Induced Arrhythmias. POSTER Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
236. Gharedaghi MH, Mahdi M, Knezevic NN, **CANDIDO KD**. Pulmonary Edema in a Patient with a History of Cannabis and Cocaine use Following Mandibular Surgery. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
237. Gharedaghi MH, Saatee S, Knezevic NN, **CANDIDO KD**. Postoperative Visual Impairment in a Patient with Shallow Anterior Ophthalmic Chambers Following Cervical Facet Joint Injections in the Prone Position. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
238. Gharedaghi MH, Khorasani A, Knezevic NN, **CANDIDO KD**. Abdominal Compartment Syndrome Secondary to Bladder Perforation During a Cystoscopy Procedure. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
239. Mandalia S, Zubair M, Ghaly RF, Knezevic NN, Thomas A, **CANDIDO KD**. Hip-Lumbar Syndrome: Definition and Review of Ten Cases. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
240. Madaus S, Thanki S, Villa E, Knezevic NN, **CANDIDO KD**. Hysteroscopy Complicated by a Gas Embolism, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).

241. Madaus S, Voronov D, Khorasani A, Knezevic NN, **CANDIDO KD**. Noonan Syndrome: Anesthesia Considerations, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
242. Aijaz T, Knezevic NN, **CANDIDO KD**. The Effect of Once Daily Gabapentin Extended Release Formulation in Patients with Post-Amputation Pain, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
243. Aijaz T, Knezevic NN, Anantamongkol U, Petrossian V, Gorelick G, **CANDIDO KD**. Determining the Accuracy of Thoracic Epidural Continuous Catheter Insertion with Confirmatory Fluoroscopic Imaging, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
244. Aijaz T, Petrossian V, Tharian A, Knezevic NN, **CANDIDO KD**. Anesthetizing Patient With Incidental Finding of Intracerebral Aneurysms. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
245. Kuser T, Ghaly RF, Knezevic NN, Neidermann S, **CANDIDO KD**. L1-2 Transforaminal Lumbar Epidural Steroid Injection (TFLESI) As Diagnostic And Therapeutic Tool For Patient With Groin Pain. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
246. Kuser T, Knezevic NN, **CANDIDO KD**. Use of Neuromodulation for Pain relief in Non-Systemic Vasculitis Neuropathy. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
247. Kuser T, Ghaly RF, Knezevic NN, Patricoski J, **CANDIDO KD**. Athletic Pubalgia (AP) Misdiagnosed as Lumbar Radiculopathy. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
248. Zouki T, Bonasera L, Knezevic NN, **CANDIDO KD**. The Unanticipated Difficult Airway Due to Lingual Tonsils Hypertrophy in the Emergency Situation: A Case Report. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
249. Zouki T, Ghaly RF, Pynadath A, Patricoski J, Knezevic NN, **CANDIDO KD**. Transforaminal Epidural Steroid Injection Leading to New Onset Neurological Deficit. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).

250. Mohammadi V, Knezevic NN, **CANDIDO KD**, Mildly Symptomatic Flu Causes Refractory Emergence Bronchospasm. Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
251. Mohammadi V, Knezevic NN, Ghaly RF, **CANDIDO KD**, Should Patient be Intubated when PAO<sub>2</sub> 40mmHg, Despite Unaltered Mental Status? Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
252. Mohammadi V, Knezevic NN, Moaddab M, **CANDIDO KD**: Practice Patterns and Attitudes of Primary Care Physicians and Pain Specialist Toward Opioid Therapy and Efficient Multidisciplinary Chronic Non-Cancer Pain Management. POSTER, Presented at the MARC Annual Meeting, April 13-15, 2018, (Cincinnati, OH).
253. Knezevic NN, Ladjovic N, Terzic B, **CANDIDO KD**. Difference in Management of Low Back Pain Between the US and a Developing Country. POSTER Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
254. Maurer A, Camacho A, Rakovic A, Knezevic NN, **CANDIDO KD**. Longitudinal Discrepancies Between Patient-Reporter and Calculated Percentage in Pain Reduction Scores in Patients with Multiple Chronic Pain Conditions. POSTER, Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
255. Mohammadi V, Knezevic NN, **CANDIDO KD**, Practice Patterns and Attitudes of Primary Care Physicians and Pain Specialist Toward Opioid Therapy and Efficient Multidisciplinary Chronic Non-Cancer Pain Management. POSTER, Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
256. Kuser T, Ghaly RF, Knezevic NN, **CANDIDO KD**, Athletic Pubalgia Misdiagnosed as Lumbar Radiculopathy. POSTER, Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
257. Kuser T, Ghaly RF, Knezevic NN, **CANDIDO KD**. L1-2 Transforaminal Lumbar Epidural Steroid Injection (TFLESI) as Diagnostic and Therapeutic tool for Patient with Groin Pain. Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
258. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Gabapentin Can lead to Suicidal Thoughts or Attempts in High Risk Patients: Case Report, POSTER, Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).

259. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Limited Spine Surgery Can be Utilized as an Adjuvant to Reduce the Opioid-Based Management in Patients with Adult Onset Scoliosis (AOS) and Complex Spine Disorders. POSTER, Presented at the ASRA Annual Meeting, April 19-21, 2018, (New York, NY).
260. Knezevic NN, Grujic Z, Knezevic I, Lipov E, **CANDIDO KD**. Use of Benzodiazepines, GABAergic Drugs and Amphetamine as Predictor for Non-Compliance in Chronic Non-Cancer Patients Taking Opioids. Presented at 34h Annual AAPM Meeting, April 26-29, 2018, (Vancouver, Canada).
261. Knezevic NN, Ladjovic N, Jovanovic F, Jovicic J, Knezevic I, **CANDIDO KD**. Difference in Opioid Utilization for Chronic Non-Cancer Pain between the USA and a Developing Country. Presented at the 34th Annual AAPM Meeting, April 26-29, 2018, (Vancouver, Canada).
262. Knezevic NN, Grujic Z, Milosavljevic K, Lipov E, **CANDIDO KD**. Are There Any Predictors for Opioid Non-compliance in Chronic Non-Cancer Patients. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
263. Zouki T, Petrossian V, Bonasera L, **CANDIDO KD**, Knezevic NN. The Unanticipated Difficult Airway Due to Lingual Tonsil Hypertrophy in the Emergency Situation: A Case Report. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
264. Zouki T, Zouki C, Tharian A, **CANDIDO KD**, Knezevic NN. An Inside Look at "Floating Rib Syndrome": A Case Report. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
265. Zouki T, Zouki C, Lipov E, **CANDIDO KD**, Knezevic NN. Stellate Ganglion Block Relieving Post-partum Depression: A Case Report. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
266. Zouki C, Tharian A, Knezevic NN, **CANDIDO KD**. Anesthesia Implications in a Patient with Urticaria Pigmentosa. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
267. Rahavard B, Mohammadi V, Ghaly R, Patricoski J, Knezevic NN, **CANDIDO KD**. Short Segmental Spinal Fusion Surgery as a Part of Multi Modal Pain Management was



Associated with Reduction in the Opioid Medication Therapy in Patients with Adult Onset Scoliosis; Two Case Reports. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).

268. Rahavard B, Ahmadi S, Ghaly R, England B, **CANDIDO KD**, Knezevic NN. Anesthesiology Management of Hypoglossal Nerve Stimulator Placement Surgery for a Patient with Obstructive Sleep Apnea. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
269. Rahavard B, Ahmadi S, Ghaly R, England B, **CANDIDO KD**, Knezevic NN. Anesthesiology Management of a Patient with Large Posterior Fossa Meningioma and Obstructive Hydrocephalus. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
270. Mauer A, Radovic A, **CANDIDO KD**, Knezevic NN. Evaluating Correlations Between Patient-reported and Calculated Percentage Pain Reduction Scores in Patients with Multiple Chronic Pain Conditions: A Longitudinal Observational Analysis. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
271. Malcolm T, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Carbon Dioxide Embolism in a Patient Undergoing Laparoscopic Hemicolectomy. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
272. Malcolm T, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Cardiac Arrest Due to Massive Pulmonary Embolus During Laparoscopic Hysterectomy. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
273. Gharedaghi MH, Saatee S, Knezevic NN, **CANDIDO KD**. Postoperative Visual Impairment in a Patient with Shallow Anterior Ophthalmic Chambers Following Cervical Facet Joint Injections in the Prone Position. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
274. Gharedaghi MH, Kusper T, Aghajani K, Knezevic NN, **CANDIDO KD**. Obstructive Uropathy and Arrest of Labor Due to Fetopelvic Disproportion. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
275. Gharedaghi MH, Lara G, Knezevic NN, **CANDIDO KD**. Significant Hemorrhage Following Cesarean Section, Hysterectomy and Removal of Placenta Percreta Invading

the Bladder Requiring Massive Transfusion and Treatment with Factor VII. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).

276. Gharedaghi MH, Aghajani K, Nikbin F, Knezevic NN, **CANDIDO KD**. Anesthetic Management for Cesarean Section in a Parturient with Moyamoya Disease - A Case Report. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
277. England B, Mansouri D, Ghaly R, **CANDIDO KD**, Knezevic NN. Anesthesiology Considerations in a Patient with Concurrent Lefort Fracture and Cervical Spine Fracture. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
278. England B, Maurer A, Jani J, **CANDIDO KD**, Knezevic NN. Severe Acute Mitral Regurgitation in Ambulatory Setting. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
279. Ahmadi S, **CANDIDO KD**, Knezevic NN. Evaluating Correlations Between Patient-reported and Calculated Percentage Pain Reduction Scores in Patients with Multiple Chronic Pain Conditions: A Longitudinal Observational Analysis. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
280. Knezevic NN, Grujic Z, Knezevic I, Lipov E, **CANDIDO KD**. Use of Benzodiazepines, GABAergic Drugs and Amphetamine as Predictor for Non-Compliance in Chronic Non-Cancer Patients Taking Opioids. 34<sup>th</sup> Annual AAPM Meeting, April 26-29, 2018, (Vancouver, Canada).
281. Knezevic NN, Tverdoleb T, Ladjovic N, Terzic B, **CANDIDO KD**. Longer Use of Non-pharmacological and Pharmacological Treatments in Chronic Low Back Pain Patients in A Developing Country. American Society of Anesthesiologists (ASA) Annual Meeting, October 12-15, 2018, (San Francisco, CA).
282. Aijaz T, Camacho A, **CANDIDO KD**, Knezevic NN. Cephalad Lead Migration of Spinal Cord Stimulator in a Patient with Hypermobility Ehlers Danlos Syndrome. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
283. Aijaz T, Camacho A, **CANDIDO KD**, Knezevic NN. Chronic Pain. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).

284. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Why CRPS can be Misdiagnosed with Cervical Radiculopathy by Primary Care Physicians. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
285. Rahavard B, Ghaly RF, Knezevic NN, **CANDIDO KD**. Occult Hip Fracture Misdiagnosed with Lumbar Disc Herniation for Nine Months Led to Chronic Intractable Pain. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
286. Zouki T, Lipov E, Knezevic NN, **CANDIDO KD**. Repaired Developmental Dysplasia of the Hip: A Chronic Problem. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
287. Kuser T, **CANDIDO KD**, Knezevic NN. The Use of Regional Anesthesia in Patients with Preexisting Neuropathies. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
288. Zouki T, Tharian A, **CANDIDO KD**, Knezevic NN. The Slipping Rib Syndrome: An Overlooked Diagnosis. The American Society of Regional Anesthesia (ASRA), November 15-17, 2018, (San Antonio, TX).
289. Knezevic NN, Aijaz T, Camacho A, Rakovic A, Stanisic B, **CANDIDO KD**. Discrepancies in Numeric Rating Scale Scores and Percentage of Pain Reduction Reported by Chronic Pain Patients. 35<sup>th</sup> Annual AAPM Meeting, March 7-10, 2019, (Denver, CO).
290. Knezevic NN, Camacho A, Aijaz T, Shamsipour S, **CANDIDO KD**. Combination of Gabapentin and Opioids is Not Superior to Opioids Alone in Pain Relief in Chronic Pain Patients, 35<sup>th</sup> Annual AAPM Meeting, March 7-10, 2019, (Denver, CO).
291. Ahmadi S, Gonzalez S, Aijaz T, Aghajani K, Knezevic NN, **CANDIDO KD**. Peri-Operative Management of Rare Bilateral Paraganglioma. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).

292. Ahmadi S, Ghaly RF, Kuser T, Knezevic NN, **CANDIDO KD**. Sciatic and Femoral Nerve Neuropathy Due to Fowler's Positioning During Labor Analgesia. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
293. Ahmadi S, Gluncic V, Knezevic NN, **CANDIDO KD**. Role of Anesthesiologist in Prevention and Management of Retained Surgical Items (RSI): Case Report and Review of Literature. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
294. Aijaz T, Camacho A, **CANDIDO KD**, Knezevic NN. Cephalad Lead Migration of Spinal Cord Stimulator in a Patient with Hypermobility Ehlers Danlos Syndrome. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
295. Aijaz T, Lipov E, Zouki T, Knezevic NN, **CANDIDO KD**. Repaired Developmental Dysplasia of The Hip: A Chronic Problem. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
296. Aijaz T, Knezevic NN, Camacho A, **CANDIDO KD**. Pain Catastrophizing Scale is Not a Prognostic Factor for the Effectiveness of Spinal Cord Stimulation. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
297. Aijaz T, Knezevic NN, Malcolm T, Haroutunian A, **CANDIDO KD**, Tharian A. Anesthetic Choice During Spinal Cord Stimulator Implantation. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
298. Cantu B, Aquino BF, Capone J, **CANDIDO KD**, Knezevic NN. Wound Hematoma and Airway Compromise Following Anterior Cervical Discectomy and Fusion. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
299. Cantu B, Aquino BF, Capone J, **CANDIDO KD**, Knezevic NN. Bezold Jarisch mediated cardiovascular collapse after spinal anesthesia for cesarean section. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
300. Gharedaghi, MH, DeRanieri A, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Peripheral Arterial Disease Undergoing Aortobifemoral Bypass Graft Placement. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
301. Gharedaghi, MH, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Emergent Sternotomy and Cardiopulmonary Bypass in a Patient Undergoing Laser Lead Extraction. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).

302. Gharedaghi, MH, Ebrahimi F, Knezevic NN, **CANDIDO KD**. Pulmonary Hemorrhage Following Atrial Cryoballoon Ablation in a Patient with Atrial Fibrillation and Sarcoidosis. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
303. Gharedaghi, MH, Rahavard BB, Ramsis F, Ghaly, Knezevic NN, **CANDIDO KD**. CRPS of Left Upper Extremity Misdiagnosed with Cervical Radiculopathy. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
304. Kortyka SM, Ebrahimi F, Gharedaghi, MH, Knezevic NN, **CANDIDO KD**. Tension Pneumoperitoneum in a Patient with Tracheal Stab Wound Injury. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
305. Kortyka SM, Villa E, Maurer AJ, Capone JW, **CANDIDO KD**, Knezevic NN. Inferobasilar Ventricular Aneurysm in Patient Undergoing Coronary Artery Bypass Graft Surgery Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
306. Kortyka SM, Ghaly RF, Gharedaghi, MH, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Massive Lower Gastrointestinal Bleeding. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
307. Kotukhov A, Ghaly RF, Knezevic NN, **CANDIDO KD**. Asleep Fiberoptic Intubation for Femur Fracture in Chronically Quadriplegic Patient with Newly Diagnosed C7 Cervical Spine Fracture. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
308. Kotukhov A, Khorasani A, Heidari A, Knezevic NN, **CANDIDO KD**. Homozygous Pseudocholinesterase Deficiency Management: A Case Report and Literature Review Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
309. Kotukhov A, Gluncic V, De Ranieri A, Knezevic NN, **CANDIDO KD**, Massive Subcutaneous Emphysema Extending to Upper Face and Periorbital Area Following Robotic Myomectomy. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
310. Kotukhov A, Ghaly RF, Knezevic NN, **CANDIDO KD**. Could We Wait More for Delivery of the Baby in Order to Increase Survival Chances? Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
311. Kremen E, Aquino BF, Gharedaghi, MH, Knezevic NN, **CANDIDO KD**. Failed Intubation in a Patient with Subglottic Stenosis Undergoing Left Atrial Appendage Closure Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).

312. Kremen E, Ebrahimi F, Gharedaghi, MH, Knezevic NN, **CANDIDO KD**. Cardiac Arrest due to Cardiac Tamponade from a Ventricular Outflow Tract Perforation in a Patient with Metastatic Heart Lymphoma. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
313. Kortyka SM, Ghaly RF, Haroutunian A, Knezevic NN, **CANDIDO KD**. A Case of Classic Trigeminal Neuralgia That Failed 10 Standard Procedures: A Review of Causes and Management Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
314. Kremen E, Ebrahimi F, Gharedaghi, MH, Knezevic NN, **CANDIDO KD**. Cardiac Arrest due to Cardiac Tamponade from a Ventricular Outflow Tract Perforation in a Patient with Metastatic Heart Lymphoma Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
315. Kremen E, Aghajani K, Gharedaghi, MH, Kuser T, Knezevic NN, **CANDIDO KD**. Acute Kidney Injury Secondary to Obstructive Uropathy from Fetopelvic Disproportion Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
316. Kremen E, Kuser T, **CANDIDO KD**, Knezevic NN. Regional Anesthesia in Patients with Preexisting Neuropathy. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
317. Madaus S, Jani J, England B, Knezevic NN, **CANDIDO KD**. Severe Acute Mitral Regurgitation in Ambulatory Setting. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
318. Madaus S, Ebrahimi F, Knezevic NN, **CANDIDO KD**. And Then There Were Two: An Unexpected Second Patient. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
319. Tverdohleb T, DeRanieri A, Knezevic NN, **CANDIDO KD**. Airway Management with Acute Respiratory Failure Secondary to Evolving Angioedema. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
320. Tverdohleb T, Ghaly RF, Mohammadi V, Moaddab M, Knezevic NN, **CANDIDO KD**. Twelve Steps to Maximize Survival from An Abdominal Aortic Aneurysm Rupture. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).

321. Tverdohleb T, Tharian A, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Wolf-Parkinson-White Syndrome. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
322. Tverdohleb T, Ghaly RF, Knezevic NN, **CANDIDO KD**. Lumbar Epidural Analgesia for Labor in a Parturient with a History of Surgery for Lumbar Intradural Ependymoma. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
323. Wood L, Petrossian V, Ghaly RF, Knezevic NN, **CANDIDO KD**. Urgent Hip Pinning in Patient with Large Thyroid Mass causing Significant Airway Compression and Deviation. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
324. Wood L, Saatee S, Knezevic NN, **CANDIDO KD**. Ehlers-Danlos Syndrome and Left Common Iliac Artery Injury: A Case Report. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
325. Wood L, Anna Moskal, Tverdohleb T, Knezevic NN, **CANDIDO KD**. Anaphylactic Shock Secondary to Isosulfate Blue Dye injection for Sentinel Lymph Node Biopsy Under General Anesthesia. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
326. Wood L, Haroutunian A, Ghaly RF, Knezevic NN, **CANDIDO KD**. Resolution of 30-year Chronic Hypertension After Spinal Cauda Equina Decompression: Does Chronic Cauda Equina Cause Chronic Hypertension? Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
327. Zubair MH, Aghajani K, Knezevic NN, **CANDIDO KD**. Airway and Anesthetic Management of a Large Thyroid Mass with Parkinsonism: Alternates to Awake Nasal Fiber Optic Intubation. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
328. Zubair MH, Aghajani K, Khorasani A, Knezevic NN, **CANDIDO KD**. Anesthetic Management of Ascending Aortic Aneurysm During Open Mitral Valve Replacement. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
329. Zubair MH, Knezevic NN, Waheed W, Aijaz T, **CANDIDO KD**. TURP Syndrome During Cystoscopy and its Management in the ICU. Presented at the MARC Annual Meeting, April 13-14, 2019, (Detroit, MI).
330. Ahmadi S, Kuser TM, Ghaly RF, Knezevic NN, **CANDIDO KD**. Sciatic and Femoral Nerve Neuropathy Due To Fowler's positioning During Labor Analgesia. Presented at the American Society of Anesthesiologists Meeting (ASA), October 19-22, 2019, (Orlando, FL).

331. Tverdohleb T, De Ranieri A, Knezevic NN, **CANDIDO KD**. Airway Management In A Patient With Acute Respiratory Failure. Presented at the American Society of Anesthesiologists Meeting (ASA), October 19-22, 2019, (Orlando, FL).
332. Tverdohleb T, Tharian A, Knezevic NN, **CANDIDO KD**. Anesthetic Management of a Patient with Wolf Parkinson White Syndrome. Presented at the American Society of Anesthesiologists Meeting (ASA), October 19-22, 2019, (Orlando, FL).
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345. **CANDIDO KD**. In Court or Out of It: Legal Matters Related to Opioid Prescriptions. Presented at the 19<sup>th</sup> American Society Regional Anesthesia and Pain Medicine Meeting (ASRA), November 20-22, 2020, (Virtual).
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81. "Long Acting Perioperative Opioids." **CANDIDO KD**, Kuser TM. In, "Perioperative Pain Management for General and Plastic Surgery". 2019 (Chapter 9). Oxford University Press. NY, NY. Pages 115-127.
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89. "A 33-Year-Old Patient with Persistent Back Pain." Zubari M, **CANDIDO KD**, Knezevic NN. In, Malik T (Editor). Practical Chronic Pain Management. 2020.
90. "A 55-Year-Old Patient with Recurrent Pain After Back Surgery." Zouki T, **CANDIDO KD**, Knezevic NN. In, Malik T (Editor). Practical Chronic Pain Management. 2020.
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“Cambridge Handbook of Anesthesiology.” Edited by Alan David Kaye and Richard D. Urman. Cambridge University Press. 2023. Chapter 28; Pages 439-447.

### **VIDEOS PRODUCED**

1. "Managing Common Pain Problems." Written, Directed and Produced by Kenneth D. Candido, MD and Lenox Hill Hospital, New York, NY.

### **INSTRUCTION MANUALS**

1. Regional Anesthesia Instruction Guide (1<sup>st</sup> Edition). Department of Anesthesiology, Feinberg School of Medicine, Northwestern University. **Kenneth Candido, M.D.**, Robert Doty, M.D., Radha Sukhani, M.D., Edward Yaghmour, M.D.; 2001.
2. Regional Anesthesia Instruction Guide (2<sup>nd</sup> Edition). Department of Anesthesiology, Feinberg School of Medicine, Northwestern University. **Kenneth Candido, M.D.**, Robert Doty, M.D., Radha Sukhani, M.D., Edward Yaghmour, M.D.; 2004.
3. Acute Pain Service Instruction Guide and Syllabus (1<sup>st</sup> Edition). Department of Anesthesiology, Feinberg School of Medicine, Northwestern University. **Kenneth Candido, M.D.**; 2004.
4. Acute Pain Service Manual for Residents and Fellows (1<sup>st</sup> Edition). Department of Anesthesiology, Loyola University Medical Center. **Kenneth D. Candido, M.D.**, 2005.

### **MISCELLANEOUS**

1. Elected **Judge**: Midwest Anesthesia Residents Conference (MARC); March 23-25, 2001, Milwaukee, WI.
2. **Co-Chair**: Regional Anesthesia Cadaver Workshop. Northwestern University/Feinberg School of Medicine Departments of Anesthesiology and Pathology. 2002-2003.
3. Newspaper Feature Article: **Anesthesiology News**: “Buprenorphine plus “Supercaine” Gives Extended Postoperative Analgesia” (from ASRA Annual Meeting). 5/26/01.

4. Newspaper Article Commentary: **Anesthesiology News**: “To Mepivacaine—Bupivacaine Axillary Block...Addition of Methylprednisolone Shortens Onset, Extends Duration”. April 2004.
5. Newspaper Article Commentary: **Anesthesiology News**: “Modified Position for Brachial Plexus Block May Enhance Analgesia”. October 2005.
6. Newspaper Feature Article: **Anesthesiology News**: “Neurolysis has Role in Pain Treatment” (from ASRA Annual Meeting). 4/14/08.
7. Newspaper Article (Feature Story): **Anesthesiology News**: “Regional Anesthesia and the Patient with a Preexisting Neuropathy”. December 2009; 35:12.
8. Newspaper Article Commentary: **Anesthesiology News**: “Nerve Block Recs Trigger Dispute Over Certain Patients On Blood Thinners”. April 2010; 36:4.
9. Newspaper Feature Article: **Pain Medicine News**: “Neurolysis in Pain Management.” March 2011.
10. Newspaper Feature Article: **Pain Medicine News-Special Edition**: “Neurolysis in Pain Management.” December 2011; Volume 9; Number 12; 29-34.
11. Medical News Feature Story (**Medscape®**): “Parasagittal Lumbar Steroid Injection Safest, Most Effective”. February 7, 2012.
12. Medical News Feature Story (**Medscape®**): “Spinal Cord Stimulation Effective for HIV Neuropathy”. February 6, 2012.
13. **AIDSMEDS** News Feature Story: “Spinal Cord Stimulation Shows Potential for Peripheral Neuropathy”. February 7, 2012.
14. Medical News Feature Story (**Becker’s Orthopedic, Spine and Pain Management®**): “Study: Modified Approach to Interlaminar Lumbar Epidural Steroid Injections Safer, More Effective”. February 8, 2012.

15. Medical News Feature Story (**Becker's Orthopedic, Spine and Pain Management®**): Study: Spinal Cord Stimulation Effective for HIV Neuropathy". February 8, 2012.
16. **ASRA News**: Pro-Con Debate; "The Case for Interlaminar Epidural Steroid Injections". February 2012 Issue. Pp. 14-17.
17. Market Watch: **Wall Street Journal**: "A Different Approach to Lumbar Epidural Steroid Injections Improves the Quality of Life and Everyday Functionality in Patients with Low Back Pain". February 24, 2012.
18. Newspaper Article (Feature Story): **Anesthesiology News**: "Evidence Points to a Better Approach for Back Injections". February 2012; 38:2. Pp. 10-11.
19. Medical News Feature Story (**Medscape®**): "Is Procedural Pain Prognostic in Lumbar Epidural Injection"? February 27, 2012.
20. **Men's Health** Magazine Article: "Are You Getting Pain Meds You Don't Need? What you need to know before you go to the hospital" December 02, 2013.
21. **ASRA News**: Pro-Con Debate; "Use of Digital Subtraction Angiography in Epidural Steroid Injections". August 2014 Edition. Pp. 9-22.
22. **ASRA News**: "A Tribute to Alon P. Winnie, M.D., Founding Father of the American Society of Regional Anesthesia". February 2015 Edition (electronic).
23. **Becker's Spine Review: Spine and Orthopedic Practice Management**: "7 Key Challenges in Pain Management Today & How To Stay Competitive". November 14, 2017. Written by Mackenzie Garrity.
24. Newspaper Featured Special Edition Article: **Anesthesiology News**: Special Edition 2018-2019: "Regional Anesthesia and the Patient With Preexisting Neuropathy." CANDIDO KD, KUSPER TM: Pages 53-61.
25. **Becker's Podcast**: Scott Becker interview. April 28, 2020. "COVID-19 and Present and Future Medical Issues; Opioid Epidemic Review. CANDIDO, KD.

26. World's First CT-Scan Guided Injection of Human Placenta-Derived Stem Cells into the Foramen Ovale for Recalcitrant **Trigeminal Neuralgia**: Monterrey, MX, Sept. 09, 2022.

### **PROFESSIONAL SOCIETIES**

American Medical Association

American Academy of Pain Medicine

American Society of Anesthesiologists

American Academy of Pain Management

American Society of Regional Anesthesia; **Annual Meeting Chairman** 2008 (Regional Anesthesia Meeting plus Pain Medicine Meeting) (2 separate meetings)

American Society of Interventional Pain Physicians; **Board of Directors** (2015-2017; 2019-2023)

Illinois State Society of Anesthesiology (Elected: **Delegate**; 2001-2003-2005-2009; 2012)

Chicago Society of Anesthesiologists (Elected: **President**; 2009-did not serve)

New York State Society of Anesthesiology (Inactive)

New York State Medical Society (Inactive)

New York County Medical Society (Inactive)

International Anesthesia Research Society

International Trauma Anesthesia and Critical Care Society

### **LANGUAGES SPOKEN**

Spanish-Fluent; Italian-Conversational