

## **CURRICULUM VITAE**

February, 2013

### **PERSONAL INFORMATION**

**Name:** Santhanam Suresh, MD, FAAP  
Anesthesiologist-in-Chief

**Born:** February 11, 1959, Madras, India

**Marital Status:** Married, Nina L. Suresh, PhD

**Office Address:** Department of Pediatric Anesthesiology  
Ann & Robert H. Lurie Children's Hospital of Chicago  
225 East Chicago Avenue, Box 19  
Chicago, IL 60611

**Office Phone:** 312-227-5147  
**Office Fax:** 312-227-9730  
**E-Mail Address:** ssuresh@luriechildrens.org

**Home Address:** 401 E. Ontario Street, Apt. 1909  
Chicago, IL 60611  
**Home Phone:** 773-318-3664

**Citizenship:** United States of America

### **EDUCATION**

**Undergraduate:** University of Madras  
Stanley Medical College  
Madras, India, 1985– Degree: MBBS

### **GRADUATE MEDICAL EDUCATION**

**Residency:** Pediatrics, Cook County Hospital  
Chicago, Illinois, 1985-1988

Anesthesiology, Loyola University Medical Center  
Maywood, Illinois, 1988-1990

**Fellowship:** Pediatric Anesthesiology, Children's Memorial Hospital  
and Northwestern University Medical School  
Chicago, Illinois, 1990-1991

**POST-DOCTORAL RESEARCH TRAINING** (not applicable)

## BOARD CERTIFICATION and MEDICAL LICENSURE

**Board Certifications:** Diplomate, American Board of Pediatrics, 1988  
Fellow, American Academy of Pediatrics, 1989  
Diplomate, American Board of Anesthesiology, 1993  
Certified, Pain Medicine, ABA, 1998  
American Board of Anesthesiology Re-Certification, 2001  
Re-Certified, Pain Medicine, ABA, 2007  
American Board of Anesthesiology Re-Certification, 2009

**Licensures:** State of Illinois, No. 036-073766

**MILITARY SERVICE** (not applicable)

## FACULTY APPOINTMENTS

1991-1995  
Instructor in Anesthesiology  
Northwestern University Medical School  
Chicago, Illinois

1995-2003  
Assistant Professor of Anesthesiology  
Northwestern University Feinberg School of Medicine  
Chicago, Illinois, 1995-2003

2003-2008  
Associate Professor of Anesthesiology and Pediatrics  
Northwestern University Feinberg School of Medicine  
Chicago, Illinois

2008 to Present  
Professor of Anesthesiology and Pediatrics  
Northwestern University Feinberg School of Medicine  
Chicago, Illinois

1991-1993  
Provisional Attending Staff Anesthesiologist  
Children's Memorial Hospital  
Chicago, Illinois

1993 to Present  
Attending Staff Anesthesiologist  
Children's Memorial Hospital  
Chicago, Illinois

## **HOSPITAL APPOINTMENTS**

1993 to Present  
Attending Staff Anesthesiologist  
Northwestern Memorial Hospital  
Chicago, Illinois

1997 to Present  
Consulting Anesthesiologist  
Rehabilitation Institute of Chicago  
Chicago, Illinois

## **ADMINISTRATIVE APPOINTMENTS**

1994 to Present  
Director, Pain Medicine  
Children's Memorial Hospital  
Chicago, Illinois

1994 to Present  
Chair, Pain Practices Committee  
Children's Memorial Hospital  
Chicago, Illinois

1995 to Present  
Ethics Advisory Board  
Children's Memorial Hospital  
Chicago, Illinois

2000 to Present  
Credentials Committee  
Children's Memorial Hospital  
Chicago, Illinois

2002 to Present  
Patient Care Quality/Safety Committee  
Children's Memorial Hospital  
Chicago, Illinois

2005 to 2012  
Credentials Committee  
Children's Memorial Hospital  
Chicago, Illinois

2005 to Present  
Director of Research, Department of Pediatric Anesthesiology  
Children's Memorial Hospital  
Chicago, Illinois

**ADMINISTRATIVE APPOINTMENTS Cont.**

2006 to Present

Chair, Pain Practices Committee  
Children's Memorial Hospital  
Chicago, Illinois

2008 to Present

Transition and Occupancy Planning Team  
Ann & Robert H. Lurie Children's Hospital of Chicago

2009 to Present

Children's Physician Ambassador  
Children's Memorial Hospital  
Chicago, Illinois

2010 to 2012

Vice Chairman  
Department of Pediatric Anesthesiology  
Children's Memorial Hospital  
Chicago, Illinois

2011 to Present

Drug Utilization Committee  
Children's Memorial Hospital  
Chicago, Illinois

January 2012 to Present

Anesthesiologist in Chief  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Chicago, Illinois

December 2012 to present

Ex-officio Board Member

**COMMITTEE SERVICE**

**National Committees:**

2000 to Present  
Education Committee  
Society for Pediatric Anesthesia

2004 to Present  
Part II Oral Boards Examiner  
American Board of Anesthesiology

2004 to Present  
Adjunct Member, Committee on Regional Anesthesia  
American Society of Anesthesiologists

2005 to Present  
Committee on Scientific and Educational Exhibits  
American Society of Anesthesiologists

2005 to 2006  
Educational Committee Member  
European Society of Regional Anesthesia.

2007 to Present  
District I Delegate  
Illinois Society of Anesthesiologists

2007 to Present  
Member, Board of Directors  
Society for Pediatric Anesthesia

2008 to Present  
Member, Educational Track Subcommittee on Pediatric Anesthesia  
American Society of Anesthesiologists

2008 to Present  
Member, Committee on Scientific and Educational Exhibits  
American Society of Anesthesiologists

2010 to Present  
Member, Board of Directors  
American Board of Anesthesiology

2011 to Present  
Member, Board of Trustees  
International Anesthesia Research Society

**COMMITTEE SERVICE Cont.**

2011 to Present  
Member, Board of Directors  
American Society of Regional Anesthesia and Pain Medicine

**AWARDS, HONORS, DISTINCTIONS**

**Visiting Professorships:**

November 1999  
Pittsburgh Children's Hospital, University of Pittsburgh  
Pittsburgh, Pennsylvania

August 2000  
The Cleveland Clinic Foundation  
Cleveland, Ohio

September 2000  
St. Jude's Children's Research Hospital  
Memphis, Tennessee

November 2000  
Dartmouth-Hitchcock Medical Center  
Lebanon, New Hampshire

June 2001  
Vanderbilt University  
Nashville, Tennessee

September 2001  
University of Iowa  
Iowa City, Iowa

October 2003  
University of Chicago  
Chicago, Illinois

November 2003  
Johns Hopkins Hospital Medical Center  
Baltimore, Maryland

January 2004  
Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania

September 2004  
Texas Children's Hospital, Baylor School of Medicine  
Houston Texas

**Visiting Professorships Cont.**

February 2004

The Mount Sinai School of Medicine  
New York, New York

September 2005

University of California-Los Angeles  
Los Angeles, California

December 2005

University of Alabama School of Medicine  
Birmingham, Alabama

January 2006

Boston Children's Hospital, Harvard Medical School  
Boston, Massachusetts

June 2006

University Hospital  
Vienna, Austria

March 2008

Keynote Speaker  
Emory University  
Atlanta, Georgia

June 2008

Pfizer Visiting Professor  
The Children's Hospital of Denver  
Aurora, Colorado

August 2008

University of Wisconsin School of Medicine  
Madison, Wisconsin

September 2008

Mayo Clinic College of Medicine  
Rochester, Minnesota

May 2010

University of Iowa  
Iowa City, Iowa

May 2010

Hospital for Special Surgery  
New York, New York

**Visiting Professorships Cont.**

December 2010  
New York University  
New York, New York

January 2011  
Cooper Health System  
Camden, New Jersey

October 2011  
Weill Cornell Medical College  
New York, New York

February 2012  
IACTA Conference  
New Delhi, India

February 2012  
St. Jude Children's Research Hospital  
Memphis, TN

July 2012  
Cincinnati Children's Hospital  
Cincinnati, Ohio

August 2012  
Massachusetts General Hospital  
Boston, Massachusetts

October 2012  
Virginia Commonwealth University  
Richmond, Virginia

November 2012  
Loyola University Medical Center  
Maywood, Illinois



**Awards:**

May 2006

The 2006 Earl J. Frederick Outstanding Team Award to the Comfort, Choice and Healing Team  
Children's Memorial Hospital  
Chicago, Illinois

October 2006

3<sup>rd</sup> Place Certificate of Recognition Award

"Head and Neck Blocks in Children: An Anatomical and Video Assisted Modality for Teaching  
Their use in Routine Practice".

American Society of Anesthesiologists Annual Meeting  
Chicago, Illinois

October 2009

1<sup>st</sup> Prize –Scientific and Educational Exhibits

"Regional Anesthesia Education in Infants and Children: A Novel Computer-Based Visual Learning  
Technique to Improve Confidence and Performance in Anesthesia Residents".

American Society of Anesthesiologists Annual Meeting  
New Orleans, Louisiana

## PROFESSIONAL SOCIETY MEMBERSHIPS

- American Board of Anesthesiology
- American Society of Anesthesiologists
- American Society of Regional Anesthesia and Pain Medicine
- International Anesthesia Research Society
- The Society for Pediatric Anesthesia
- Illinois Society of Anesthesiologists
- American Academy of Pediatrics
- Council of the International Association for the Study of Pain
- Special Interest Group in Pediatric Pain

## PROFESSIONAL and SCIENTIFIC SERVICE

### Editorial Boards

1999 to Present

Editorial Board, American Board of Anesthesiology,  
Pain Subspecialty Certification Exam Committee (Joint  
Council of -ABA, ABPMNS, ABPMA boards)

Associate Editor, *Regional Anesthesia and Pain Medicine*,  
Journal of the American European, Asian and Oceanic, and Latin  
American Societies of Regional Anesthesia.

October 2007

Guest Editor, Current Issues in Pediatric Regional Anesthesia in  
De Leon-Casasola O. (Ed.) *Techniques in Regional Anesthesia and Pain Management*.  
Philadelphia, Pa. Elsevier Inc.

June 2005

Member, Editorial Advisory Board, *Pediatric Anesthesia*,  
Blackwell Publishing Ltd  
Oxford, United Kingdom

May 2012 to Present

Editorial Board Member  
The Child's Doctor CME Journal  
Children's Memorial Hospital  
Chicago, Illinois

### Journal Reviewer:

- Anesthesia & Analgesia
- Clinical Journal of Pain
- Anesthesiology
- Pediatric Anesthesia
- Medical Science Monitor
- Indian Journal of Pediatrics
- Orthopedic Knowledge Online

## Teaching

1. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Pediatric airway and lung development. August, 1991.
2. Operating Room, Ambulatory Surgery Unit, & Post Anesthesia Care Unit Staff Lecture, Children's Memorial Hospital, Chicago, IL, Pediatric caudal anesthesia. October 23, 1991.
3. Illinois Society of Anesthesiologists Annual Meeting, Oak Brook, IL, Anesthesia for non-cardiac surgery in patients with congenital heart disease. November, 1991.
4. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Mapleson anesthesia circuit classifications. November, 1991.
5. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL. December, 1991.
6. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Laser airway surgery in infants and children. February, 1992.
7. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 1992.
8. Sixteenth Annual Myelomeningocele Seminar, Chicago, IL, Latex allergy: precautions in the operating room. April 3, 1992.
9. Hangzhou Surgery Hospital, Hangzhou, Zhejiang Province, The People's Republic of China Intraosseous fluid resuscitation lecture, demonstration and skills course. May 2, 1992.
10. Grand Rounds, Hangzhou Surgery Hospital, Hangzhou, Zhejiang Province, The People's Republic of China Intravenous patient controlled analgesia. May 2, 1992.
11. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago IL June, 1992.
12. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The single shot caudal for postoperative analgesia. June, 1992.
13. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Pediatric airway and lung development. July, 1992.
14. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Bronchopulmonary dysplasia. August, 1992.
15. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Postoperative apnea of prematurity. October, 1992.
16. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Laser airway surgery in infants and children. December, 1992.
17. Grand Rounds, Northwestern University Department of Pediatrics, Chicago, IL Pediatric pain management. January 27, 1993.
18. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Minimum alveolar concentration in infants and children. February, 1993.
19. Pharmacy Services Conferences, Children's Memorial Hospital, Chicago, IL, Recent advances in acute pain management. March 2, 1993.
20. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL March, 1993.
21. Grand Rounds, Tribhuvan University Teaching Hospital, Kathmandu, Nepal Recent advances in pediatric fluid and infusion therapy. April 14, 1993.
22. Woman's Board Annual Spring Seminar, Children's Memorial Hospital, Chicago, IL Pediatric pain management. April 26, 1993.
23. Seventeenth Annual Myelomeningocele Seminar, Chicago, IL, Latex allergy in spina bifida: an update. May 7, 1993.

**Teaching Cont.**

24. Managing Pediatric Pain in the 90's Conference, Children's Memorial Hospital, Chicago, IL  
Pediatric pain: perception and reality. May 20, 1993.
25. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology,  
The infant with pyloric stenosis. June, 1993.
26. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago,  
IL, July, 1993.
27. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Pediatric airway and lung development. August, 1993.
28. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Mapleson anesthesia circuit classifications. October, 1993
29. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital,  
Chicago, IL, December, 1993
30. Division of Respiratory Care Conference, Children's Memorial Hospital, Chicago, IL  
Pediatric pain management – new directions. December 16, 1993.
31. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Minimum alveolar concentration in infants and children. January, 1994.
32. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL  
March, 1994.
33. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology,  
Laser airway surgery in infants and children. April, 1994.
34. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Subarachnoid block in the preterm infant. June, 1994.
35. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital,  
Chicago, IL July, 1994.
36. Little People, Big Problems: Pediatric and Neonatal Transport Issues Conference, Chicago, IL  
Update on acute pain control in pediatrics. September 29, 1994.
37. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology,  
The single shot caudal for postoperative analgesia. October, 1994.
38. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL  
December, 1994.
39. International Trauma Anesthesia and Critical Care Society Conference on Perioperative  
Anesthetic Management of the Trauma Patient, Chicago, IL Pain management in  
pediatric trauma. December 18, 1994.
40. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology,  
Anesthesia for the child with cerebral palsy. January, 1995.
41. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Epidermolysis Bullosa. March, 1995.
42. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL,  
March, 1995.
43. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Bronchopulmonary dysplasia. May, 1995.
44. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital,  
Chicago, IL, June, 1995.
45. Symposium speaker, "Overseas experiences - anaesthesia in difficult circumstances,  
difficult locations and developing countries." Oxford University, Oxford, England.  
Medical missions in Southeast Asia and Central America. July 14, 1995.

**Teaching Cont.**

46. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Pediatric airway and lung development. August, 1995.
47. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Mapleson anesthesia circuit classifications. October, 1995.
48. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, November, 1995.
49. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Laser airway surgery in infants and children. December, 1995.
50. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. The infant with pyloric stenosis. February, 1996.
51. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 1996.
52. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Pain assessment in infants and children. April, 1996.
53. 4<sup>th</sup> Annual Pediatric Pain Conference, Children's Memorial Hospital, Chicago, IL. Advocating for the patient in pain. May 16, 1996.
54. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the child with cerebral palsy. June, 1996.
55. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, June, 1996.
56. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Minimum alveolar concentration in infants and children. August, 1996.
57. American Society of Anesthesiologists Annual Meeting, New Orleans, LA Outcome measures in pain management: the patient's point of view. October 21, 1996.
58. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Laser airway surgery in infants and children. November, 1996.
59. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL December, 1996.
60. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Pediatric airway and lung development. January, 1997.
61. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 1997.
62. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Postoperative apnea of prematurity. March, 1997.
63. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Subarachnoid block in the preterm infant. May, 1997.
64. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, June, 1997.
65. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Minimum alveolar concentration in infants and children. July, 1997.
66. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the child with cerebral palsy. September, 1997.
67. American Society of Anesthesiologists Annual Meeting, San Diego, CA Moderator, Refresher Course Lectures. October 18, 1997.
68. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Mapleson anesthesia circuit classification system. October, 1997.
69. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology

**Teaching Cont.**

70. Anesthesia for the patient with myelomeningocele. Children's Memorial Hospital, December, 1997.
71. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL December, 1997.
72. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Newborn infant and lung development. January, 1998.
73. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The infant with pyloric stenosis. March, 1998.
74. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 1998.
75. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for laser airway surgery. May, 1998
76. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Epidermolysis bullosa. June, 1998.
77. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, June, 1998.
78. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Minimum alveolar concentration in infants and children. July, 1998.
79. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. Anesthesia considerations in Treacher-Collins Syndrome. September, 1998.
80. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia in the child with asthma. November, 1998.
81. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, December, 1998.
82. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The child with an upper respiratory infection. January, 1999.
83. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 1999.
84. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the airway foreign body. April, 1999.
85. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. The patient with sickle cell disease. June, 1999.
86. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Pediatric airway and lung development. July, 1999.
87. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia in the child with cerebral palsy. October, 1999
88. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, "Nil per os" guidelines and aspiration. December, 1999.
89. Pediatric Advanced Life Support Course Instructor, Children's Memorial Hospital, Chicago, IL, December, 1999.
90. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Neonatal temperature regulation. February, 2000.
91. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL, March, 2000.
92. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with sickle cell disease. April, 2000.
93. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia in the child with cerebral palsy. June, 2000.

**Teaching Cont.**

94. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Pain assessment in infants and children. September, 2000.
95. American Society of Anesthesiologists Annual Meeting, San Francisco, CA, Patient controlled analgesia in children. October 17, 2000.
96. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The child with an upper respiratory infection. December, 2000.
97. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Caudal and epidural analgesia. February, 2001.
98. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL March, 2001.
99. Children's Pediatric Specialty Services Center, Westchester, IL, Anesthesia update for the community pediatrician. May 24, 2001
100. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infants vs. adults. July, 2001.
101. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with sickle cell disease. September, 2001.
102. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the children with cerebral palsy. November, 2001.
103. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Nil per os guidelines and aspiration. January, 2002.
104. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL. March, 2002.
105. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with myelomeningocele. June, 2002.
106. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infants vs. adults. July, 2002.
107. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The child with an upper respiratory infection. August, 2002.
108. American Society of Anesthesiologists Annual Meeting, Orlando, FL. Moderator: Pediatric anesthesia and pain. Scientific paper/poster discussion. October, 2002
109. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for airway foreign bodies. November, 2002.
110. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. Neonatal physiology. January, 2003.
111. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with sickle cell disease. March, 2003.
112. Anesthesia Resident Mock Oral Board Examiner, Northwestern University, Chicago, IL March, 2003.
113. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the child with cerebral palsy. May, 2003.
114. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infants vs. adults. July, 2003.
115. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Anesthesia for the patient with a mediastinal mass. September, 2003.
116. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with Down's syndrome. November, 2003.

**Teaching Cont.**

117. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. January, 2004.
118. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. March, 2004.
119. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Patient controlled analgesia in children. May, 2004.
120. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia & pain management for pediatric scoliosis surgery. June, 2004.
121. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infants vs. adults. August, 2004.
122. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Minimum alveolar concentration in infants and children. October, 2004.
123. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with myelomeningocele. December, 2004.
124. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, Pain assessment in infants and children. January, 2005.
125. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. March, 2005.
126. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. July, 2005.
127. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Epidural analgesia in children. September, 2005.
128. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with a mediastinal mass. October, 2005.
129. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. The patient with Down's Syndrome. December, 2005.
130. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infants vs. adults. January, 2006.
131. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Head and neck blocks. February, 2006.
132. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Patient controlled analgesia in children. February, 2006.
133. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Transverse abdominis plane block. March, 2006.
134. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia & pain management for pediatric scoliosis surgery. May, 2006.
135. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. Parental presence for induction of anesthesia. July, 2006.
136. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Popliteal fossa nerve block. August, 2006.
137. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Femoral nerve block. August, 2006.
138. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with a mediastinal mass. September, 2006.
139. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Rectus sheath block. October, 2006.



**Teaching Cont.**

140. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with Down's Syndrome. November, 2006.
141. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Ilioinguinal/iliohypogastric block. December, 2006.
142. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. January, 2007.
143. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Supraclavicular brachial plexus block. January, 2007.
144. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Axillary brachial plexus block. February, 2007.
145. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. March, 2007.
146. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Transverse abdominus plane block. May, 2007.
147. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with a mediastinal mass. June, 2007.
148. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. July, 2007.
149. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Head and neck blocks. August, 2007.
150. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Popliteal fossa block. October, 2007.
151. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with Down's Syndrome. December, 2007.
152. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Airway differences: infant vs. adult. January, 2008.
153. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Transverse abdominus plane block. February, 2008.
154. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Femoral nerve block. February, 2008.
155. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia & pain management for pediatric scoliosis surgery. April, 2008.
156. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Supraclavicular brachial plexus block. June, 2008.
157. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. August, 2008.
158. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Axillary brachial plexus block. September, 2008.
159. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with a mediastinal mass. November, 2008.
160. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology. Premedication in the pediatric patient. January, 2009.

**Teaching Cont.**

161. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Ilioinguinal/iliohypogastric block. January, 2009.
162. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Ultrasonography “knobology“. January, 2009.
163. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Epidermolysis bullosa. February, 2009.
164. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Rectus sheath block. March, 2009.
165. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the child with cerebral palsy. April, 2009.
166. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia & pain management for pediatric scoliosis surgery. June, 2009.
167. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Ultrasonography “knobology“. August, 2009.
168. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. September, 2009.
169. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Interscalene brachial plexus block. November, 2009.
170. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. January, 2010.
171. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Axillary brachial plexus block. January, 2010.
172. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Supraclavicular brachial plexus block. March, 2010.
173. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the patient with a mediastinal mass. May, 2010.
174. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology, The patient with Down’s Syndrome. June, 2010.
175. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Paravertebral nerve block. August, 2010.
176. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Sciatic nerve block. September, 2010.
177. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia & pain management for pediatric scoliosis surgery. November, 2010.
178. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Premedication in the pediatric patient. January, 2011.
179. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Wrist & ankle nerve blocks. January, 2011.
180. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Parental presence for induction of anesthesia. February, 2011.
181. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology Anesthesia for the child with cerebral palsy. April, 2011.
182. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern University Department of Anesthesiology. Femoral nerve & LFCN block. June, 2011

**Teaching Cont.**

183. Resident Curriculum Lecture, Northwestern University Department of Anesthesiology  
Airway differences: infants vs. adults. July, 2011.
184. Pediatric Anesthesia Fellow Regional Block Lecture & Demonstration, Northwestern  
University Department of Anesthesiology. Transverse abdominus plane block. August,  
2011.

**Curriculum Development:**

2004-Present

Restructured pediatric pain curriculum for anesthesiology residents rotating through pediatric anesthesia rotation. Curriculum included a core reading list; lecture series; weekly bedside rounds with an attending physician and nurse practitioner; instruction in & supervision of intravenous opioid order-writing; evidence-based management of postoperative intravenous patient controlled analgesia; instruction in & supervision of epidural catheter insertion; evidence-based management of postoperative epidural analgesia; opioid-weaning protocols; systems-based approach to transition to oral analgesics; and side effect management.

2006-Present

Developed pediatric ultrasound-guided regional nerve block curriculum for anesthesiology residents and fellows. Curriculum included weekly teaching demonstrations of core peripheral upper extremity, truncal and lower extremity nerve blocks; daily supervision and instruction in performance of nerve blocks; core reading list; evidence-based approach to local anesthetic and analgesic additive dosing; side effect management; and use of age & developmentally-appropriate pain scales for quantification & outcome measurement of block efficacy.

2007-Present

Pediatric Regional Anesthesia Network. One of five founding member institutions instrumental in design and establishment of first-ever nationwide pediatric regional anesthesia database, created with goal of prospectively recording data on every regional anesthetic completed in newborns, infants and children at participating centers, Patient demographics, details of regional blocks performed, and associated complications compiled & analyzed.

**Mentorships (2001 to Present):**

2001-2002

David Alspach, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice and academic position appointment, Assistant Professor, North Shore University, Evanston, IL.

2002-2003

Ayman Naguib, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, departmental grand rounds presentation, and academic position appointment, Assistant Professor, Nationwide Children's Medical Center, The Ohio State University College of Medicine, Columbus, OH.

2004-2005

Margaret Wisniewski, RN, Manager, Ambulatory Patient Care Services, Children's Memorial Hospital. Mentored in design and production of pre-anesthetic instructional video for parents and children undergoing ambulatory surgery.

2004-2005

Mark Deshur, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, and assisted in academic position appointment, Assistant Professor, North Shore University, Evanston, IL.

2004-2005

Leah Templeton, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management and career advice, assisted in academic position appointment, and mentored in establishment of acute pain service in the Department of Anesthesiology, Wake Forest School of Medicine, Winston Salem, NC.

2004-2005

Courtney Hardy, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management and career advice, recruited to academic position, and mentored in university promotions process to Assistant Professor at Children's Memorial Hospital, NUFSM, Chicago, IL.

2004-2005

Dugald McAdam, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, and assisted in academic position appointment, Assistant Professor, Melbourne Children's Hospital, University of Melbourne, Australia.

2004-2005

Adam Striker, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, and assisted in academic position appointment, Assistant Professor, Kansas City Children's Hospital, University of Missouri, Kansas City, MO.

2004-2011

Suzanne Porfyris, BS, MSN, APN, Pain Management Services Chief Nurse Practitioner. Mentored in practice management, career advice, development & implementation of standardized pain practice policies and procedures, abstract preparation, manuscript preparation & co-authorship.

**Mentorships Cont.**

2005-2006

Eryn Levis, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2005-2006

Narasimhan Jagannathan, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2005-2006

Lisa Sohn, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2005-2006

Aisha Siddiqui, DO, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2005-2006

Dawn Belvis, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, assisted in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2005-2006

Juliane Lee, MD, Instructor, Department of Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in preparation for American Board of Anesthesiology written examination.

2005-2011

Sophia Taylor, BS, MSN, APN, Pain Management Services Nurse Practitioner, Children's Memorial Hospital. Directed and mentored pediatric pain education, practice management & career advice.

2006-2007

Arnold Butiu, RN, BSN. Manager, Information Systems/Applications, Children's Memorial Hospital, Chicago IL. Mentored in design & production of instructional video on parental presence for induction of anesthesia.

2006-2007

Kenneth Langen, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

2006-2007

Jeffrey Steinfeldt, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, recruited to Northwestern University, and mentored in promotions process to Assistant Professor, Children's Memorial Hospital, NUFSM, Chicago, IL.

**Mentorships Cont.**

2007-2008

Caitlin Aveyard, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, & academic position appointment, Assistant Professor, Department of Anesthesia & Critical, University of Chicago, IL.

2007-2008

Jennifer Lam, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, Assistant Professor, Rush University Medical Center, Chicago, IL.

2007-2008

Amod Sawardekar, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, & academic position appointment, Assistant Professor, Nationwide Children's Medical Center, The Ohio State University College of Medicine, Columbus, OH.

2007-2008

Douglas Thompson, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, Assistant Professor, Seattle Children's Hospital, University of Washington, Seattle, WA.

2007-2008

Faith Lukens, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, & academic position appointment, Assistant Professor, University of Kentucky School of Medicine, Lexington KY.

2008

Andrew Ambrosy, NUFSM medical student, FAER (Foundation for Anesthesia Education & Research) grant summer student. Mentored in research methodology, scientific writing, manuscript preparation & co-authorship.

2008

Yaw Nyame, NUFSM medical student, FAER (Foundation for Anesthesia Education & Research) grant summer student. Mentored in research methodology & scientific writing.

2008-2009

Alan Bielsky, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, academic position appointment, Assistant Professor, & director of regional anesthesia service, Children's Hospital Colorado, University of Colorado Medical School, Denver, CO.

2008-2009

Sapan Amin, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, research methodology, abstract preparation & presentation manuscript preparation, and academic position appointment, Assistant Professor, Wayne State University School of Medicine, Detroit, MI.

**Mentorships Cont.**

2008-2010

Kimberly Monroe, MD. Sedation Hospitalist-in-Charge, Children's Memorial Hospital, Chicago, IL. Mentored in airway management, patient screening evidence-based sedation technique choice, standardization of patient monitoring, development of patient order sets, & hospital-wide sedation policy co-authorship.

2008-2011

Sue Park, BS, MSN, APN, Pain Management Services Nurse Practitioner, Children's Memorial Hospital. Directed and mentored pediatric pain education, practice management & career advice.

2009

John Sarwark, NUFSM medical student. Mentored in research methodology, scientific writing, abstract preparation & presentation.

2009

Casey Curran, NUFSM medical student, FAER (Foundation for Anesthesia Education & Research) grant summer student. Mentored in research methodology, scientific writing, abstract preparation & presentation.

2009-2010

Tarun Bhalla, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, academic position appointment, and director of regional anesthesia service. Nationwide Children's Medical Center, The Ohio State University College of Medicine, Columbus, OH.

2009-2010

Ravi Shah, MD, Fellow-in-Training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, Assistant Professor, Rush University Medical School, Chicago, IL.

2009-2010

Joel Stockman, MD, Fellow-in-Training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, University of California at Los Angeles Medical School, CA.

2009-2010

Jessica Drescher, DO, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, Children's Hospital Colorado, University of Colorado School of Medicine, Denver, CO.

2010

Melanie Koh, medical student, Case Medical Center, Case Western Reserve University, Cleveland, OH. FAER (Foundation for Anesthesia Education & Research) grant summer student. Mentored in research methodology, scientific writing & abstract preparation.

2010

Lauren Taylor, NUFSM medical student, FAER (Foundation for Anesthesia Education & Research) grant summer student. Mentored in research methodology, scientific writing, abstract preparation, manuscript preparation & co-authorship.



**Mentorships Cont.**

2010

Ryan Kozlowski, NUFSM medical student, MSSARP (Medical Student Summer Assistant Research Program) grant student. Mentored in research methodology & scientific writing.

2010-2011

Laura Badwan, MD. Sedation Hospitalist-in-Charge, Children's Memorial Hospital, Chicago, IL. Mentored in practice management, hospitalist airway skills maintenance, & co-authorship of hospital-wide minimal sedation policy. Assisted in academic position appointment as Assistant Professor, Children's National Medical Center, Washington D.C.

2010-2011

Christine Burnett-Yarnell, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice, academic position appointment; and initiation of regional anesthesia service. Arkansas Children's Hospital, University of Arkansas College of Medical Sciences, Little Rock, AK.

2010-2011

Megan Richert, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice & academic position appointment, Loyola University Stritch School of Medicine, Maywood, IL.

2010-2011

Premal Trivedi, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in scientific writing, manuscript preparation & co-authorship.

2010-2011

Co Truong, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice, academic position appointment; and initiation of regional anesthesia service, San Diego Children's Hospital, University of California at San Diego Medical School.

2010-2011

Seiden, Samuel C, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2010-2011

Chenault, Kristin, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2010-2011

Castro, Chandra, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Albers, Brad, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

**Mentorships Cont.**

2011-2012

Alford, Louis, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Cambic, Angela, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Lee, Nicholas, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Mandler, Tessa, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Ryan, Kelly, MD, Fellow-in-training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management career advice.

2011-2012

Sally Seraphin, MD. Fellow-in-Training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice.

2011-2012

Asher, Yogen, MD, 2011-2012

Fellow-in-Training, Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine. Mentored in practice management, career advice.

2011

Elizabeth DeAngelis, BS, MSN, APN, Pain Management Services Nurse Practitioner, Children's Memorial Hospital. Directed and mentored pediatric pain education, practice management & career advice.

**Resident and Fellows Presentations:**

1. **Suresh S**, Jain Rao TK, Poster Presentation, "Increased Left Lung Abnormalities with Left Internal Mammary Artery Grafting", Midwest Anesthesiology Residents Conference, Madison, WI, April, 1989.
2. **Suresh S**, Ramamoorthy C, Rao TK, Poster Presentation, Cardiac Output and its Distribution in Dogs Exchange Transfused with 5% Albumin or Hyperoncotic 10% Hemoglobin", Midwest Anesthesiology Residents Conference, Kansas City, MO, March, 1990.
3. Tunchbelik M, **Suresh S**. Caudal Analgesia for the Management of Pain In Infants Undergoing Tracheoesophageal fistula repair. Annual Midwest Anesthesia Research Conference, March 1999. **First Prize awarded to Dr Tunchbelik for her presentation.**
4. Uppal R, **Suresh S**. Occipital Neuralgia: The Use of Serial Occipital Nerve Blocks. Annual Midwest Anesthesia Residents Conference, 2000. Chicago, IL. **First Prize awarded to Dr. Uppal for his presentation.**
5. Abdoue A, **Suresh S**. Fascia Lata Sling for Ptosis Repair: Can we Improve Postoperative Morbidity using A Combined Regional/General Anesthetic Technique? Annual Midwest Anesthesia Research Conference, Milwaukee, WI, March 2001.
6. Uppal R, **Suresh S**. Auto amputation from Scleroderma in a Child: Can we predict the Outcome of a Surgical Sympathetic Nerve Stripping Using a Digital Nerve Block? Annual Midwest Anesthesia Research Conference, Milwaukee, WI, March 2001.
7. Bhandari A, Mazurek A, **Suresh S**. Patient Controlled Analgesia in Pediatric Patients Undergoing Craniotomy for Brain Tumor: Is this Reasonable? Annual Meeting of the Midwest Anesthesia Residents Conference, Milwaukee, WI, March 2001.
8. Alspach D, **Suresh S**: Parent Controlled Analgesia (PrCA) with Fentanyl In Infants. Annual Midwest Anesthesia Residents Conference, Omaha, Nebraska, March 2002.
9. Park A, **Suresh S**: Postoperative Regional Analgesia for Myringotomy and Tympanostomy Tube Placement: Nerve of Arnold Block. Annual Midwest Anesthesia Residents Conference, Omaha, Nebraska, March 2002.
10. Espinosa C, **Suresh S**: Marble in right Main stem: Anesthetic Technique. Annual Midwest Anesthesia Residents Conference, Omaha, Nebraska, March 2002.
11. Novotny M, **Suresh S**: Pain Management in Patients With Sickle Cell Disease: A Retrospective Review: Annual Midwest Anesthesia Residents Conference, Omaha, Nebraska, March 2002.
12. Bukhalo Y, **Suresh S**. Combined Spinal And Caudal Epidural Anesthesia for Hernia Repair In A Premature Infant: A Case Report. Annual Midwest Anesthesia Residents Conference, Omaha, Nebraska, March 2002.

**Residents and Fellows Presentations Cont.**

13. Warren L, **Suresh S**. Improving Utilization of Peripheral Nerve Blocks in Children: The Pediatric Peripheral Nerve Block Rotation. Annual Midwest Anesthesia Residents Conference, Chicago, IL, March 2003.
14. Naguib A, **Suresh S**. Chronic Pancreatitis in Children: A Painful Conundrum: Annual Midwest Anesthesia Residents Conference, Chicago, IL, March 2003.
15. Bellig G, **Suresh S**. Regional Anesthesia for a Neurosurgical Procedure in a Very Low-Birth Weight Neonate: Is this Feasible? Annual Midwest Anesthesia Residents Conference, Chicago, IL, March 2003. **Awarded First Prize**.
16. Barrett G, **Suresh S**. Tarsal Coalition Syndrome: A Diagnostic and Therapeutic Dilemma: Annual Midwest Anesthesia Residents Conference, Chicago, IL, March 2003.
17. Templeton L, **Suresh S**. Bilateral superficial cervical plexus block for medialization thyroplasty. Annual Midwest Anesthesia Residents Conference, Chicago, IL, March 2003. **Awarded Second Prize**.
18. Joshi J, **Suresh S**. Patient-controlled analgesia for postoperative pain management in pediatric patients undergoing spinal fusion surgery. A retrospective analysis. Annual Midwest Anesthesia Residents Conference, March 2003, Chicago, IL
19. Voronov P, Curran J, **Suresh S**. Infraorbital Nerve Block In Children: Is There A Best Way To Locate The Infraorbital Foramen. Annual Midwest Anesthesia Residents Conference. Rochester, Minnesota, March 2004. **Awarded First Prize**.
20. Lee J, **Suresh S**. Case Report: Acute Opioid Tolerance in a 5 Month Old: Is This Possible with a Short duration of Infusion? Annual Midwest Anesthesia Residents Conference, April 1-3, 2005, Madison, WI.
21. Swanson M, **Suresh, S**. Anatomical Location of the Bifurcation of the Sciatic Nerve in the Posterior Thigh in Infants and Children. A Formula Derived from MRI Images for Nerve Location. Midwest Anesthesia Residents Conference, April 13-15, 2007, St. Louis, MO.
22. Hsiung, CP, **Suresh S**: Closed Reduction of a Temporomandibular Joint Dislocation: Is this Possible with Regional Anesthesia", Midwest Anesthesia Residents Conference, April 13-15, 2007, St. Louis, MO.
23. Youssefi, R, **Suresh S**: Teaching ultrasound guidance for regional anesthesia: Can serial mini-workshops improve resident proficiency.

**15. RESEARCH GRANTS/CONTRACTS**

1. Chronic Pain Management in Children: The Use of Mind Body Therapies, Biofeedback Mechanism for Pain Relief.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Suzanne Porfyrus, APN, Dawn O. Belvis, MD, Sophia Taylor, APN
2. Regional Anesthesia Database: A Multi-Institutional Prospective Database to Record Potential Adverse Effects and Complications Associated with Regional Anesthesia in Children.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Richard M. Dsida, Polina Voronov, MD
3. Development of a small volume sampling technique for Fentanyl pharmacokinetic, pharmacodynamic and pharmacogenetic analysis in preterm and term neonates with and without cyanotic congenital heart disease.  
PI: **Santhanam Suresh.**  
Co-Investigators: Polina Voronov, MD, Jeffrey Steinfeldt, MD, Patrick K. Birmingham PK, MD.
4. Postoperative Pain Control in Children Undergoing Laparoscopic Appendectomy: Comparison of Peripheral Nerve Blocks to Local Anesthetic Infiltration.  
PI: Lisa Sohn, MD.  
Co-Investigators: Amod Sawardekar, MD, Polina Voronov, MD, Narasimhan Jagannathan, MD, Kathy Barsness, MD, Anthony Chin, MD, Marybeth Madonna, MD, **Santhanam Suresh, MD.**
5. Pain Management in Children Undergoing Primary Cleft Palate Repair. Can a Local Anesthetic Block Improve Their Postoperative Outcome.  
PI: Carmen Simion, MD  
Co-Investigators: **Santhanam Suresh, MD**, Polina Voronov, MD, Julia F. Corcoran, MD, Dawn O. Belvis.
6. A Multi-site RCT Comparing Regional and General Anesthesia for Effects on Neurodevelopment Outcome and Apnea in Infants – The GAS Study.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Polina Voronov, MD, Patrick K. Birmingham, MD, Jeanne Antisdell, MD.
7. Pain Management in Children Undergoing Frontal Ventriculo-peritoneal Shunt Insertions.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Aisha Siddiqui, MD, Tadanori Tomita, MD, Polina Voronov, MD.
8. Pain Management in Children Undergoing Occipital Ventriculo-peritoneal Shunt Insertions.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Tadanori Tomita, MD, Polina Voronov, MD, Jeffrey Steinfeldt, MD, Lisa Sohn, MD, Narasimhan Jagannathan, MD.

**Research Cont.**

9. Is Previous Exposure to a Painful Experience in Patients with Chronic Pain a Risk Factor for Developing Chronic Pain?  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Suzanne Porfyrus, APN.
10. The air-Q™ intubating laryngeal airway as a conduit for tracheal intubation in the pediatric patient with a difficult airway.  
PI: Narasimhan Jagannathan, MD  
Co-Investigators: **Santhanam Suresh, MD**
11. Efficacy of Music Therapy on Postoperative Pain Control in Pediatric Cardiac Surgery Patients.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Carl Backer, MD, Sunitha Suresh
12. Single Dose Pharmacokinetics and Pharmacodynamics of Bupivacaine Following Transversus Abdominis Plane (TAP) Block in Neonates.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Deli Wang, MD, PhD, Jeffrey Steinfeldt, MD
13. Measuring Epidural Space in Infants and Children Using MRI.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Delilah Burrowes, MD
14. Treatment of Postoperative Pain in Children and Adolescents Undergoing Spinal Fusion with Acupuncture – A Pilot Study.  
PI: David M. Steinhorn, MD  
Co-Investigators: **Santhanam Suresh, MD**, Sheila Wang, Erik King, MD, CW Bacchus.
15. Evaluation of acupuncture treatment in pediatric patients.  
PI: David M. Steinhorn, MD  
Co-Investigators: **Santhanam Suresh, MD**, Sheila Wang, MD, CW Bacchus.
16. Parent/Nurse assisted epidural anesthesia in children.  
PI: Patrick K. Birmingham, MD  
Co-Investigators: **Santhanam Suresh, MD**
17. Steady State Pharmacokinetics of Bupivacaine in Pediatric Patients with Continuous Femoral Nerve Blocks.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Patrick Birmingham, MD, Dawn O. Belvis, MD, Angela Cambic, MD  
Craig Finlayson, MD, John Sarwark, MD

**Research Cont.**

18. An Open-label, Multicenter Study of the Safety of Twice Daily Oxycodone Hydrochloride Controlled-release Tablets in Opioid Experienced Children from Ages 6 to 16 Years Old, Inclusive, with Moderate to Severe Malignant and/or Nonmalignant Pain Requiring Opioid Analgesic”  
Sponsor: PRA Pharmaceuticals  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Dawn O. Belvis, MD
19. Anesthesia exposure and neurodevelopment in infants and children.  
Sponsor: NIH Sub-Contract Investigators with Columbia University.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Steven Hall, MD, Richard Dsida, MD
20. Development of a small volume sampling technique for Fentanyl pharmacokinetic, pharmacodynamic and pharmacogenetic analysis in preterm and term neonates with and without cyanotic congenital heart disease.  
Sponsor: NIH Sub-Contract Investigators with University of Colorado Denver.  
PI: **Santhanam Suresh MD**  
Co-Investigators: Patrick Birmingham, MD, Polina Voronov, MD
21. Assessment of Long-Term Neurodevelopmental Outcomes in Pediatric Patients Administered Regional and General Anesthesia as Neonates and Infants (A multi-site RCT Comparing Regional and General Anesthesia for Effects on Neurodevelopment Outcome and Apnea in Infants – The GAS Study.  
Sponsor: NIH Sub-contract Investigators with Children’s Hospital Boston.  
PI: **Santhanam Suresh, MD**  
Co-Investigators: Patrick Birmingham, MD, PolinaVoronov, MD, Jeanne Antisdell, PhD

**Research - Completed**

1. What Is The Role of Serial Occipital Nerve Blocks for Children in the Management of Persistent Occipital Headaches? **Suresh S**, Wheeler M, Patel AS.
2. Intravenous Regional Anesthesia with Lidocaine-Ketorolac: Is this Effective for the Management of CRPS-1 in Children and Adolescents. **Suresh S**, Wheeler M, Patel AS.
3. What is the Role of Serial Supraorbital and Supratrochlear Nerve Blocks for Children in the Management of Persistent Frontal Headaches?
4. A Double-Blind, Placebo Comparison Study to Evaluate the Efficacy and Safety of Actiq® (Oral Transmucosal Fentanyl Citrate [OTFC®]) Treatment for Children and Adolescents with Cancer and Breakthrough Pain. **Suresh S**.
5. Postoperative Pain Management in Children Undergoing Renal Transplantation. **Suresh S**, Simion C, Cohn R.
6. Use of patient-controlled analgesia in children and adolescents undergoing craniotomy: a retrospective review. **Suresh S**; Sohn L; Uejima T; Birmingham P.
7. Great auricular nerve block for tympanomastoid surgery: Will the addition of clonidine enhance the duration of analgesia? **Suresh S**, Tobin MJ, Kim M, Barcelona SL, Jennings M.
8. An open-label, randomized, phase IIIB multicenter trial to evaluate the pharmacodynamic parameters of intubation bolus and infusion maintenance doses of Zemuron® (rocuronium bromide) in pediatric and adolescent subjects. **Suresh S**, Uejima T, Lee J, Przybylo HJ, Roth AG.
9. Anatomical Location of the Sciatic Nerve in Infants and Children: Magnetic Resonance Imaging Review of its Location in the Posterior Thigh. **Suresh S**, Simion C, Wyers M, Swanson M.
10. Anatomical Location of the Infraorbital Foramen in Infants: A Computerized Tomographic Review of Location. **Suresh S**, Curran JG.
11. A Phase III Multi-Center, Open-Label, Prospective, Repeated Dose, Multi-Day Study of the Safety of Intravenous Acetaminophen in Pediatric Inpatients (CPI-APA-352). **Suresh S**, Birmingham PK.
12. Ultrasound guided localization of depth of the epidural space in infants, children, and adolescents. **Suresh S**, Uejima T, Langen K, Paloma A.
13. Post-Operative Pain Control for Children and Infants Undergoing Penoplasty: A Randomized Control Trial of a Local Anesthetic Cream to Placebo. **Suresh S**, Cheng E, Kaplan W, Chaviano A, Yerkes E, Maizels M, Haggerty J, Dsida R.
14. Long-Term Effects of Neonatal Pain on Later Life Pain Behavior and Gene Expression in the Central Pain Pathways: Can They be Modulated? **Suresh S**, Koh S, Wang S. Grant Award by the Children's Memorial Research Center.



**Research – Completed Cont.**

15. 4% Lidocaine Spray to the Vocal Cords: Can this decrease Adverse Airway Reactions in Children with Upper Respiratory Tract Infections. Mukherji I, Roth AG, Maddalozzo J, Meyer A, Aveyard C, **Suresh S**.
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16. Birmingham PK, Wheeler M, **Suresh S**, Hall SC, Coté CJ. Parent/Nurse Controlled Epidural Analgesia in Children: Can They Do It? American Society of Anesthesiologists, Annual Meeting, Orlando, FL 2002.
17. **Suresh S**, Finkel J, Wheeler M, Gayatri S, Coté CJ. A Pharmacokinetic Study of a Needle-Free Transdermal Patient-Controlled Analgesia (PCA) System in Pediatric Patients. American Society of Anesthesiologists Annual Meeting, Orlando, FL 2002.
18. **Suresh S**, Wheeler M, Patel AS, Coté CJ. Persistent Frontal Headaches in Children, Adolescents and Young Adults: Is There a Role for Serial Supraorbital and Supratrochlear Nerve Blocks? American Society of Anesthesiologists Annual Meeting, Orlando, FL 2002.
19. **Suresh S**, Patel AS, Dunham M, Heffner CL, Coté CJ. A Randomized Double-Blind Controlled Trial of Infraorbital Nerve Block versus Intravenous Morphine Sulfate for Children Undergoing Endoscopic Sinus Surgery: Are Postoperative Outcomes Different? American Society of Anesthesiologists Annual Meeting, Orlando, FL 2002.
20. **Suresh S**, Bellig G: Regional anesthesia for a neurosurgical procedure in a very low birth weight neonate: Is it feasible? Presented at the Winter Meeting of the Society for Pediatric Anesthesia, Sanibel Island, February 2003.
21. **Suresh S**, Leong WC, Stevenson GW. Improving Utilization of Peripheral Nerve Blocks in Children: The Pediatric Regional Block Rotation. Accepted for Poster Presentation at the American Society of Anesthesiologists Annual Meeting, San Francisco, CA 2003.
23. Simion C, Dsida R, **Suresh S**: "Cleft Lip Repair in Infants: Is There an Advantage in Performing a Peripheral Nerve Block". Pain and Sedation Poster Session. American Society of Anesthesiologists Annual Meeting, October 17, 2006.

**Abstracts Cont.**

24. Voronov P, Tobin M, Jennings M, Coté C, **Suresh S**: Myringotomy and Tube Placement Pain: Comparison of a Regional Technique to Intranasal Fentanyl. American Society of Anesthesiologists Annual Meeting, October 17, 2006.
25. Lee JH, **Suresh S**: Adjunctive Acupuncture Therapy for Sympathetically Mediated Pediatric Pain: Can We Improve Function? American Society of Anesthesiologists Annual Meeting, October, 2008.
26. Polaner DM, Krane E, Martin L, **Suresh S**, Taenzer, A: Pediatric Regional Anesthesia Network: The First 7500 Cases. American Society of Anesthesiologists Annual Meeting, October 17-21, 2009.
27. Bhattachayra ST, Koh J, Martin L, **Suresh S**, Frietsch, T: A Randomized, Multicenter Trial of Rocuronium in Neonates, Infants, Toddlers, Children & Adolescents. American Society of Anesthesiologists Annual Meeting, October 17-21, 2009.
28. Amin S, Ambrosy A, **Suresh S**, A Novel Method To Improve Pediatric Regional Anesthesia: The Pediatric Block Rotation. American Society of Anesthesiologists Annual Meeting, October 17-21, 2009.
29. Polaner DM, Bosenberg A, Cravero J, Krane E, Martin L, **Suresh S**, Taenzer A: Preliminary data from the Pediatric Regional Anesthesia Network (PRAN): demographics, practice patterns and complications. Joint meeting of the Society for Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Management, Jackson, FL, 2009.
30. Taenzer A, Bosenberg A, Cravero J, Krane E, Martin L, Polaner DM, Suresh S: Regional Anesthesia in Children – Imaging Techniques. PRAN data from 1/2007 to 10/2008. . Joint meeting of the Society for Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Management, Jacksonville, FL, 2009.
31. Lee HH, Bosenberg A, Flack, S, Cravero J, Krane E, Martin L, Polaner DM, **Suresh S**, Taenzer A: Caudal block revisited: what are the risks? Joint meeting of the Society for Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Management, Jacksonville, FL, 2009.
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35. Walker BJ, Bosenberg AT, Polaner DM, Krane E, **Suresh S**, Taenzer A, Lock C, Martin L and investigators of the Pediatric Regional Anesthesia Network: Neuraxial Blockade in Children: analysis of complications recorded over the first two years of the Pediatric Regional Anesthesia Network. Joint meeting of the Society for Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Management, San Diego, CA, 2011
36. Taenzer A, Bosenberg AT, Krane EJ, Martin L, Polaner DM, **Suresh S**, and the investigators of the Pediatric Regional Anesthesia Network: Asleep vs. sedated vs. awake: Regional anesthetic complications by patient state at the time of blockade: A report from the Pediatric Regional Anesthesia Network (PRAN). Joint meeting of the Society for Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Management, San Diego, CA, 2011
37. Polaner DM, Bosenberg A, Krane EJ, Martin L, **Suresh S**, Taenzer A, Wolf C, and the PRAN investigators: The incidence of positive test doses in pediatric regional blockade: Data from the Pediatric Regional Anesthesia Network (PRAN). International Congress of the Israel Society of Anesthesiologists, Tel Aviv, Israel, 2011.

**Books and Book Chapters:**

1. **Suresh S:** Pain management in infants and children in the pediatric intensive care unit. In: Current Concepts in Pediatrics. New Delhi, Jaypee Brothers Medical Publishers, Ltd. 235-238, 1994.
2. **Suresh S:** Chronic Pain Management in Children. In: Essentials of Pain Medicine and Regional Anesthesia, Benzon HT, Raj SN, Borsook D, Molloy RE, Strichartz G (Eds.). Churchill Livingstone, Philadelphia, PA, 1999;299-303.
3. **Suresh S,** Berde CB: Management of Pain in Children. In: Pediatric Neurosurgery, Surgery of The Developing Nervous System, 4th Edition, McLone D (Ed.). WB Saunders Company, Philadelphia PA, 2001.
4. Polaner D, **Suresh S,** Coté CJ. Pediatric Regional Anesthesia. In: A Practice of Anesthesia for Infants and Children, 3<sup>rd</sup> Edition. Coté CJ, Todres, Goudsouzian, Ryan (Eds.) Philadelphia, WB Saunders 2001;636-674.
5. **Suresh S,** Coté CJ. Local Anesthetics. In: Neonatal and Pediatric Pharmacology, 3<sup>rd</sup> Edition. Yaffe S, Aranda JV (Eds.). Philadelphia, Lippincott Williams & Wilkins.
6. **Suresh S,** Tarbell S. Chronic pain assessment and management in children. In. Tobias J, Deshpande J (Eds.). Handbook of Pediatric Pain, American Academy of Pediatrics.
7. **Suresh S.** Chronic pain management in children. In. Essentials of Pain Medicine and Regional Anesthesia, 2<sup>nd</sup> Edition. Benzon H.(Ed) Churchill Livingstone, Philadelphia, PA 2004.
8. Ross AK, **Suresh S.** Regional anesthesia for postoperative pain management In. Handbook of Pediatric Pain, Tobias J, Deshpande J (Eds.) American Academy of Pediatrics.
9. Maxwell L, **Suresh S,** Tobias JD. Sedatives and Analgesics: General Principles and Pharmacology. In. Handbook of Pediatric Pain ,Tobias J, Deshpande J (Eds.) American Academy of Pediatrics.
10. Sethna N, **Suresh S:** Neuroaxial and regional analgesia and anaesthesia. In Anand S Stevens J, McGrath P: (Eds.) Pain in Infants and Neonates, 3<sup>rd</sup> Edition, Elsevier Limited, 2005.
11. **Suresh S,** Bosenberg A: Regional Anesthesia for Pediatric Orthopaedic Surgery. In Boezaart AP (Ed.) Anesthesia and Orthopaedic Surgery. McGrawHill, New York, NY, 2006:385-401.
12. **Suresh S,** Ivani G: General Concepts: Regional Anesthesia for Pediatric Surgery. In. Hazdic A (Ed.) Modern Regional Anesthesia. McGraw Hill, New York, NY. 2007:721-726.
13. Tsiu B CH, Frederickson M, **Suresh S:** Pediatric Epidural & Caudal Analgesia & Anesthesia. In. Hazdic A (Ed.) Modern Regional Anesthesia. McGraw Hill, New York, NY. 2007, 727-745.
14. **Suresh S,** Uejima T: Spinal Anesthesia in Children. In. Hazdic A (Ed.) Modern Regional Anesthesia. McGraw Hill, New York, NY. 2007-746-752.

**Books and Book Chapters, Cont.**

15. **Suresh S**, Frederickson, M: Peripheral Nerve Blocks for Children. In. Hazdic A (Ed.) Modern Regional Anesthesia. McGraw Hill, New York, NY. 2007:753-767.
16. **Suresh S**, Uejima T: Neuroaxial Anesthesia for Pediatric Surgery. In. Wong, CA (Ed) Spinal and Epidural Anesthesia. McGraw Hill, New York, NY. 2007:305-323.
17. **Suresh S**: Somatic Blockade of the Head and Neck. In. Cousins MJ, Bridenbaugh PO, Carr D, Horlocker T (Eds.) Neural Blockade, 4<sup>th</sup> Edition. Lippincott Williams & Wilkins, Philadelphia, PA. 2007.
18. **Suresh S**, Tarbell S: Acute Pain Management in Children. In. Benzon H (Ed): Raj's Practical Management of Pain, 4<sup>th</sup> Edition. Elsevier, Philadelphia, PA. 2007.
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20. **Suresh S**: Peripheral and Central Neuroaxial Blocks in Critical Care Medicine. In. Levitov A, Mayo PH, Slonim AD (Eds.) Critical Care Ultrasonography. McGraw Hill, New York, NY. 2009: 337-343.
21. Tobias JS, Lucas S, **Suresh S**, Bigeleisen PE: Ultrasound-Guided Brachial Plexus Blockade in Infants and Children. In. Bigeleisen PE (Ed.) Ultrasound-Guided Regional Anesthesia and Pain Medicine. Lippincott Williams & Wilkins, Philadelphia, PA. 2009.
22. Tobias JS, Lucas S, **Suresh S**, Horn, JL, Bigeleisen PE: Ultrasound-Guided Regional Anesthesia of the Thorax, Trunk, and Abdomen in Infants and Children. In. Bigeleisen PE (Ed.) Ultrasound-Guided Regional Anesthesia and Pain Medicine. Lippincott Williams & Wilkins, Philadelphia, PA. 2009.
23. "Regional Anesthesia for Chronic Pain Management in Children and Adolescents" In: McClain BC, Suresh S (Eds). *Handbook of Pediatric Chronic Pain: Current Science and Integrative Practice*, Springer, New York, NY, 2011: 253-264.
24. "Complex Regional Pain Syndrome (CRPS)". In: McClain BC, Suresh S (Eds). *Handbook of Pediatric Chronic Pain: Current Science and Integrative Practice*, Springer, New York, NY, 2011: 265-272.
25. **Suresh S**, Birmingham PK, Kozlowski RJ.: Pediatric Pain Management. In. Dunn GP, Ganapathy S, Chan V (Eds.), Fleisher LA (Cons. Ed.) Surgical Palliative Care and Pain Management. Anesthesiology Clinics. Elsevier, Philadelphia, PA. 2012:30:1



## **PRESENTATIONS**

“Pain Management in Children”, Grand Rounds, Department of Pediatrics, Cook County Hospital, Chicago, IL, October 18, 1991.

“Pain Management in Children”, Mount Sinai Hospital Medical Center Grand Rounds, Chicago, IL., April 15, 1992.

“Pain Management and Sedation in Pediatrics”, 11th Annual Neonatal and Pediatric Respiratory Care Conference, Chicago, IL, April 14, 1992.

“Pediatric Pain Management” Columbus-Cabrini Medical Center, Continuing Medical Education Department of Pediatrics, Chicago, IL, October 14, 1992.

“Recent Advancements in Acute Pain Management”, Children's Memorial Hospital, Northwestern University Medical School, Chicago, IL, May 17, 1993.

“Recent Advances in Neonatal Anesthesia” International Symposium on Congenital Malformations, New Delhi, India, February 4-6, 1994.

“Pain Management in the Pediatric Intensive Care Unit” at the 8th Asian Congress of Pediatrics, New Delhi, India, February 6-11, 1994.

“Pain Management in Children” Children's Hospital of Detroit, Wayne State University, Detroit, Michigan, February 6-11, 1994.

“Pain Management of Fractures in Children”, South Suburban Hospital, Hazel Crest, IL, September 2, 1994.

“Pain Management in Children”, Finch University of Health Sciences, The Chicago Medical Society, Chicago, IL, January 10, 1995.

“Difficulty in Ventilation on Induction of Anesthesia in 12-Year-Old with Mediastinal Mass”, Anesthesia Study Commission of the Illinois Society of Anesthesiologists, Chicago, IL, April 20, 1995.

“Do Neonates Feel Pain?”, Cook County Hospital, Chicago, IL, April 26, 1995.

“Regional Anesthesia in Children”, Edward Hospital, Naperville, IL, May, 1995.

“Chronic Pain Management in Children”, Annual Midwest Anesthesia Conference, Chicago, IL, June 29, 1995.

“Post dural puncture headache in a 4-year-old after epidural anesthesia”, Anesthesia Study Commission of the Illinois Society of Anesthesiologists, Chicago, IL, April 18, 1996.

“Pain Management in the Intensive Care Unit”, Children's Memorial Hospital, Pain Management Conference, Chicago, IL, May 16, 1996.

“Chronic Pain Management in Children”, Detroit Children’s Hospital, Wayne State University, Detroit, Michigan, Aug 21, 1996.

“Pediatric Pain Management: Pros and Cons”, Edward Hospital, Naperville, IL. September 24, 1996.

“Headache Pain, Complex Regional Pain Syndromes”, Children in Pain, University of Michigan, Hospitals, Ann Arbor, MI, April 25, 26, 1997.

“Ethical Issues in Pain Management”, Ethics Grand Rounds, Children’s Memorial Hospital, Chicago, IL, November, 1997.

“Pain Management in Pediatrics”, Northwestern Healthcare Network, Silver Cross Hospital, Chicago, IL, November, 1997.

“Pain Management in Children Made Easy”, Midwest Anesthesia 35<sup>th</sup> Annual Meeting, Illinois Society of Anesthesiologists, Chicago, IL, May 2, 1998.

“Peripheral Nerve Blocks In Children: Is this a reality?”, Wayne State University, Children’s Hospital Of Detroit, Detroit, MI, June 10, 1998.

“Regional Anesthesia for Children”, Peri-Anesthesia Care Symposium, Illinois Society of Anesthesiologists, Chicago, IL, May 1, 1999.

“Complex Regional Pain Syndrome in Children”, Symposium on Pediatric Pain Management. University of Michigan, Ann Arbor, MI, May 7, 1999.

“Pharmacologic Plasticity of the Brain Opioid Tolerance”, 13<sup>th</sup> Annual Meeting of the Society for Pediatric Anesthesia, American Society of Anesthesiology Annual Meeting, Dallas, TX, October 8, 1999.

“Pain management in children in the new millennium” at the III Congresso Nazionale R.A.R.N.eP.I., Italian Society of Paediatric Anaesthesia, S. Giovanni Rotondo (Foggia) Italy, October 21, 1999.

“Pain Management of Pediatric Surgical Patients”, Illinois Society of Anesthesiologists Fall Weekend Meeting, Knowledge for Today & Tomorrow, Oak Brook, IL, October 30, 1999.

“Opioid Tolerance in Neonates”, “Peripheral Nerve Blocks in Children” Pittsburgh Children’s Hospital, University of Pittsburgh, Pittsburgh, PA, November 29<sup>th</sup> and 30<sup>th</sup>, 1999.

“Decision Making in Children”, Ethics Grand Rounds, The Children’s Memorial Hospital, Chicago, IL, December 6, 1999.

“Dermatological Procedures: Can We Avoid Pain?”, Division of Dermatology, Northwestern University Medical School, Chicago, IL, January, 2000.

“Chronic Pain Management in Children”, Cleveland Clinic Foundation, Cleveland, Ohio, March, 2000.

“Pediatric Pain Management”, Annual meeting of The Iowa Society of Anesthesiologists, Des Moines, Iowa. April, 2000.

“Postoperative Pain Management in Children and Adolescents”, Department of Anesthesiology, The Cleveland Clinic Foundation, Cleveland, OH. August 21-23, 2000.

“Opioid Tolerance in Neonates”, Department of Anesthesiology, The Cleveland Clinic Foundation, Cleveland, OH, August 21-23, 2000.

“Chronic Pain In Children”, St. Jude’s Children’s Research Hospital, Memphis, TN, September 25-26, 2000.

“Acute Postoperative Pain Management in Children and Adolescents”, St. Jude’s Children’s Research Hospital, Memphis, TN, September 25-26, 2000.

"Practical Pediatric Regional Anesthesia". Refresher Course, American Society of Anesthesiology Annual Meeting, San Francisco, CA, October 30, 2000.

“Pediatric Sedation, Illinois Society of Anesthesiologists Fall Meeting, Chicago, IL, October 30, 2000.

“New Concepts in Pain Management”, Illinois Society of Anesthesiologists Fall Meeting, Chicago, IL, October 30, 2000.

“Chronic Pain In Children and Adolescents” Department of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, November 28-29, 2000.

“Peripheral nerve Blocks In Children”, Department of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, November 28-29, 2000.

“Pediatric Peripheral Nerve Blocks: Workshop Faculty, 76<sup>th</sup> International Anesthesia Research Society Annual Meeting, Ft. Lauderdale, FL, March 17, 2001.

“Practical Pediatric Regional Anesthesia”, Minnesota Society of Anesthesiology Spring Meeting, Minneapolis, MN, April 14, 2001.

“Preoperative Preparation of the Pediatric Patient”, Minnesota Society of Anesthesiology Spring Meeting, Minneapolis, MN, April 14, 2001.

“Common Regional Blocks in Children: Are These Easy to Perform?”, Children in Pain Conference, University of Michigan Medical School, Ann Arbor, MI, April 26-27, 2001.

“Pain, plasticity and prematurity: Is this a prescription to permanent suffering?” Children in Pain Conference, University of Michigan Medical School, Ann Arbor, MI, April 26-27, 2001.

Regional Anesthesia: Anatomy & Pain Management Techniques, Wayne State University School of Medicine, Detroit, MI, May 12, 2001.

“Regional Anesthesia for Surgical Procedures, Indications & Techniques”, Wayne State University School of Medicine, Detroit, MI, May 12, 2001.

“Head & Neck Peripheral Nerve Blocks”, Wayne State University School of Medicine, Detroit, MI, May 12, 2001.

“Opioid tolerance in Neonates, Diagnosis and Management”, Division of Pediatric Critical Care and Department of Anesthesiology, Vanderbilt University, Nashville, TN, June 15-16, 2001.

“Peripheral Nerve Blocks in Children”, Division of Pediatric Critical Care and Department of Anesthesiology, Vanderbilt University, Nashville, TN, June 15-16, 2001.

“Peripheral nerve Blocks In Children & Adolescents” Rush Presbyterian-St. Luke's Medical Center, Chicago, IL, Aug 30, 2001.

“Peripheral Blocks in Children”, University of Iowa, Des Moines, IA, September 24-25, 2001.

“Chronic Pain Management in Children”, University of Iowa, Des Moines, IA, September 24-25, 2001.

“Preoperative Preparation of the Pediatric Patients”, University of Iowa, Des Moines, IA, September 24-25, 2001.

“Practical Pediatric Regional Anesthesia”, Refresher Course and Clinical Update, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, Oct 14, 2001.

“Peripheral Nerve Block Workshop”, American Society of Anesthesiologists Annual Meeting, New Orleans, LA. Oct. 2001.

“Failing Spinal Anesthesia in a Premature Baby”, Society for Pediatric Anesthesia Winter Meeting, Miami, FL, February, 2002.

“Pediatric Regional Workshop”, 76<sup>th</sup> Annual Meeting of the International Anesthesia Research Society, San Diego, CA, March, 2002.

“Chronic Pain Management in Children”, Pediatric Grand Rounds, The Children’s Memorial Hospital, Northwestern University Medical School, Chicago, IL, March, 2002.

“Peripheral Nerve Blocks in Children”, Loyola University Medical Center, Maywood, IL, April, 2002.

“Advanced Regional Anesthesia: Anatomy and Pain Management Techniques”, Wayne State University School of Medicine, Detroit, MI, May 17-19, 2002.

“Head and Neck Nerve Block in Children” 11. Berner Anesthesiesymposium, Kinderanesthesie”, Inselspital Bern, University of Berne, Kinderklinik, Berne, Switzerland, May 15, 2002.

“Chronic Pain in Children”, The Cleveland Clinic Foundation, Cleveland, OH, September 21, 2002.

“Management of Pain in Children”, Keynote Speaker, Annual Scientific Meeting, South of Ireland Association of Anaesthetists in Conjunction with The Paediatric Anaesthetic Traveling Society of Ireland, Killarney, Ireland, September 2002.

“Practical Pediatric Regional Anesthesia”, ASA Refresher Course and Clinical Update American Society of Anesthesiologists Annual Meeting, Orlando, FL, October 12, 2002 .

“Peripheral Nerve Blocks”, Workshop Faculty, American Society of Anesthesiologists Annual Meeting, Orlando, FL, “October 14-15, 2002

“Regional Anesthesia for Emergent Pediatric Surgery”, Panel, American Society of Anesthesiologists Annual Meeting, Orlando, FL, October 15, 2002.

“Pediatric Pain Workshop”, The American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Phoenix, AZ, November 8, 2002.

“Regional Blocks in Children”, The American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Phoenix, AZ, November 9, 2002.

“Regional Anesthesia in Children: Beyond the Caudal Block”, The Fifth Annual Michael Stanton-Hicks Pain Management and Regional Anesthesia Symposium, Key West, FL, February 19, 2003.

“Chronic Pain Management in Children”. The Fifth Annual Michael Stanton-Hicks Pain Management and Regional Anesthesia Symposium, Key West, FL, February 19, 2003.

“Peripheral Nerve Block Workshop”, Pediatric Anesthesiology, Sanibel Island, FL, February 21-22, 2003.

“Failing spinal anesthesia in an ex-premature infant”, Pediatric Anesthesiology, Sanibel Island, FL, February 21-22, 2003.

“Nerve Blocks Workshop”, 77<sup>th</sup> International Anesthesia Research Society Clinical and Scientific Congress, New Orleans, LA, March 22-23, 2003.

“Regional Anesthesia in Children: The Nuts & Bolts”, 40<sup>th</sup> Annual Midwest Anesthesia Conference, Chicago, IL, May 4, 2003.

“Advanced Regional Anesthesia 2003: Invasive Pain Management Techniques Workshop”, Wayne State University School of Medicine, Detroit, MI, May 16-18, 2003.

“Regional Anesthesia Hands-On Workshop”, Wayne State University School of Medicine, Detroit, MI, May 16-18, 2003.

“Practical Pediatric Regional Anesthesia”, ASA Refresher Course and Clinical Update, American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October 11, 2003.

“Peripheral Nerve Blocks” Workshop, American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October, 2003.

“Chronic Pain in Children Children’s Memorial Hospital Pediatric Pearls Arlington Heights, IL, October, 2003.

“Regional Anesthesia in Children: Beyond the Caudal Block”, University of Chicago, Chicago, IL, October, 2003.

“Regional Anesthesia in Children: Beyond Caudal Block”, Rush University Medical Center, Chicago, IL, November, 2004.

“Regional Anesthesia in Children: Beyond the Caudal Block”, 32<sup>nd</sup> Annual Anesthesiology Review Course, Birmingham, AL, February 21, 2004.

“Preoperative Preparation of Pediatric Patients”, 32<sup>nd</sup> Annual Anesthesiology Review Course, Birmingham, AL, February 21, 2004.

“14-Year Old Tennis Player, Mild Fall, Severe Pain, Diagnosis of CRPS-1, Pediatric Anesthesiology Meeting, Phoenix, AZ, March 4, 2004.

“Pain and Regional Anesthesia”, Panel Member, Pediatric Anesthesiology Meeting, Phoenix, AZ, March 4, 2004.

“Practical Regional Anesthesia for Infants and Children: Beyond the Caudal Block”, Workshop, Pediatric Anesthesiology Meeting, Phoenix, AZ, March 4, 2004.

“Chronic Pain Management in Children”, Annual Meeting, American Academy of Pain Medicine, Orlando, FL, March 7, 2004.

“Pediatric regional anesthesia update”, 29<sup>th</sup> Annual Spring Meeting, American Society of Regional Anesthesia & Pain Medicine, Orlando, FL, March 11, 2004

“Pediatric Regional Anesthesia: Refresher Course, 78<sup>th</sup> International Anesthesia Research Society Annual Meeting, Tampa, FL, March 27, 2004.

“Pediatric Blocks Workshop”, 78<sup>th</sup> International Anesthesia Research Society Annual Meeting, Tampa, FL, March 27, 2004.

“Nerve Block Workshop”, 78<sup>th</sup> International Anesthesia Research Society Annual Meeting, Tampa, FL, March 27, 2004.

“Invasive Pain Management Techniques”, Advanced Regional Anesthesia 2004, Wayne State University School of Medicine, University of Michigan, Detroit, MI, May 8, 2004.

“Regional Anesthesia”, Hands-On Workshop, Advanced Regional Anesthesia 2004, Wayne State University School of Medicine, University of Michigan, Detroit, MI, May 8, 2004.

“Acute and Chronic Pain Management in Children,” Dannemiller Foundation Pain Review Course, Chicago, IL Sept 1, 2004.

“Assessment of Pain in the Verbal and Non-verbal Child”, American Academy of Pediatrics National Conference & Exhibition Meet the Expert Seminar, San Francisco, CA, October 11, 2004.

Approaches to Management of Chronic Pain in Children”, American Academy of Pediatrics National Conference & Exhibition Meet the Expert Seminar, San Francisco, CA, October 11, 2004.

“Practical Pediatric Regional Anesthesia”, ASA Refresher Course, American Society of Anesthesiologists Annual Meeting, Las Vegas, NV, October 25, 2004.

“Peripheral Nerve Blocks Workshop”, American Society of Anesthesiologists Annual Meeting, Las Vegas, NV, October 25, 2004.

“Pediatric Thoracic Epidurals: What To Do?”, American Society of Anesthesiologists Annual Meeting, Las Vegas, NV, October 27, 2004.

“Common problems in pediatric pain and their management” The American Society of Regional Anesthesia and Pain Medicine’s Annual Fall Pain Meeting & Workshops, Phoenix, AZ, November 12, 2004.

“The management of common chronic pain conditions in children”, The American Society of Regional Anesthesia and Pain Medicine’s Annual Fall Pain Meeting & Workshops, Phoenix, AZ, November 12, 2004.

“Regional Blocks In Children”, Programa Del IV Simposio Internacional De Anestesiología Pediátrica De Chile, Clínica Las Condes, Santiago, Chile. December 3, 2004.

“Regional Blocks 1 Head and Neck, Regional Blocks 2 Superior and Inferior Extremities, Mistakes and Problems Related With Regional Blocks”, Programa Del IV Simposio Internacional De Anestesiología Pediátrica De Chile, Clínica Las Condes, Santiago, Chile, December 3, 2004.

“Management of Perioperative Pain in Children”, Scientific Panel on Challenges in Perioperative Pain Management, New York State Society of Anesthesiologists, December 14, 2004.

“Practical Pediatric Regional Anesthesia, NYSORA 3<sup>rd</sup> Annual Meeting, New York Society of Regional Anesthesia, December 18, 2004.

“Nerve Blocks Workshop”, International Anesthesia Research Society 79<sup>th</sup> Clinical and Scientific Congress, Hilton Hawaiian Village, Honolulu, Hawaii, March 14, 2005

“Pediatric neuroaxial and regional anesthesia,” Annual Spring Meeting and Workshops, American Society of Regional Anesthesia & Pain Medicine, April 21-24, 2005.

“Pro & Con: Blocking the asleep or heavily sedated patient: Pediatrics/Adults,” Annual Spring Meeting and Workshops, American Society of Regional Anesthesia & Pain Medicine, April 21-24, 2005.

“Pediatric blocks,” Annual Spring Meeting and Workshops, American Society of Regional Anesthesia & Pain Medicine, April 21-24, 2005.

“Practical head and neck blocks for ENT – simple strategies that work”, Annual Spring Meeting and Workshops, American Society of Regional Anesthesia & Pain Medicine, April 21-24, 2005.

“Pediatric Head and Neck Blocks”, Annual Spring Meeting and Workshops, American Society of Regional Anesthesia & Pain Medicine, April 21-24, 2005.

“Invasive Pain Management Techniques”, Advanced Regional Anesthesia 2005, Wayne State University School of Medicine, University of Michigan, Detroit, MI, May 13-15, 2005.

“Regional Anesthesia Hands-On Workshop”, Regional Anesthesia Symposium, Midwest Anesthesia 35th Annual Meeting, Illinois Society of Anesthesiologists, Chicago, IL, May 20, 2005.

“Pediatric Regional Anesthesia- Beyond the Caudal”, Grand Rounds, University of California, Los Angeles, CA, September 14, 2005.

“Practical Pediatric Regional Anesthesia”, Refresher Course, American Society of Anesthesiologists 100<sup>th</sup> Annual Meeting, Atlanta, GA, October 22, 2005.

“Infraorbital Nerve Block for Trauma Anesthesia”, Medically Challenging Case, American Society of Anesthesiologists 100<sup>th</sup> Annual Meeting, Atlanta, GA, October 23, 2005.

“Pediatric Clinical Forum”, Panel Discussant, American Society of Anesthesiologists, 100<sup>th</sup> Annual Meeting, Atlanta, GA, October 23, 2005.

“Pediatric Central and Peripheral Nerve Blocks Workshop”, American Society of Anesthesiologists 100<sup>th</sup> Annual Meeting, Atlanta, GA, October 23-25, 2005.

“Upper and Lower Extremity Blockade for the Pediatric Patient”, 2005 Pediatric Anesthesia Conference, Toronto, Canada, November 11-13, 2005.

“Pediatric Regional Anesthesia: Beyond the Caudal Block”, University of Alabama School of Medicine, Birmingham, December 5, 2005.

“Pediatric Anesthesia in 2005”, University of Alabama School of Medicine, Birmingham, Alabama, December 5, 2005.

“Peripheral Nerve Blocks in Children”, Anesthesia Grand Rounds and Hands-on-Workshop, Children’s Hospital of Boston, Harvard Medical School, Boston, MA, January 18, 2006.

“Regional Anesthesia in Children: Beyond the Caudal Block”, Grand Rounds, Department of Anesthesiology, Columbia University, February 2, 2006.

“Pediatric Peripheral Nerve Blocks Workshop”, Society for Pediatric Anesthesia, Fort Myers, Florida, February 16-19, 2006.

“Nerve Block Workshop”, IARS Congress, San Francisco, CA March 26, 2006.

“Pediatric Regional Anesthesia Update” American Society of Regional Anesthesia and Pain Medicine Workshops, Rancho Mirage, CA, April 6-9, 2006.

“Acute Pediatric Pain”, American Society of Regional Anesthesia and Pain Medicine Workshops, Rancho Mirage, CA, April 6-9, 2006.

“ENT Blocks in Pediatrics”, 31st Annual Regional Anesthesia Meeting and Workshops, The American Society of Regional Anesthesia (ASRA) Rancho Mirage, CA, April 6-9, 2006.

“Acute Pain Management: Handling & Avoiding Those Phone Calls”, Pediatric Pearls XI, Continuing Medical Education Series, Children’s Memorial Hospital, Feinberg School of Medicine, Chicago, IL, April 20, 2006.



“Conventional Block Technique vs. Ultrasound/Pro & Con”, Panelist, Advanced Regional Anesthesia Meeting, Wayne State University School of Medicine, Detroit, MI, May 5-7, 2006.

“Regional Block Techniques and Anatomy/Head & Neck”, Panelist, Advanced Regional Anesthesia Meeting, Wayne State University School of Medicine, Detroit, MI, May 5-7, 2006.

“Pre-Operative Preparation of the Pediatric Patient: What Every Anesthesiologist Should Know!” Illinois Society of Anesthesiologists, Midwest Anesthesiology Conference, Chicago, IL, May 20-21, 2006.

“Regional Anesthesia in Children: Where Are We in 2006?”, Illinois Society of Anesthesiologists Conference, Chicago, IL, May 20-21, 2006.

“Pain Management”, Transport Team Conference, Children’s Memorial Hospital, Chicago, IL, May 23, 2006.

“Pediatric Regional Anesthesia: What Is In and What Is Out”, 47th Annual McGill Anesthesia Update, McGill University, Montreal, Québec, Canada, May 27, 2006.

“Pediatric Head & Neck Blocks: Let us Head in a New Direction”, Workshop, 47<sup>th</sup> Annual McGill Anesthesia Update, McGill University, Montreal, Québec, Canada, May 27, 2006.

“Head Nerve Blocks in Children”, Department of Anesthesiology and Intensive Care Medicine, Medical University of Vienna, August 14-17, 2006, Vienna, Austria.

“Head and Neck Blocks in Children: An Anatomical and Video Assisted Modality for Teaching Their use in Routine Practice. Scientific and Educational Exhibits, American Society of Anesthesiologists Annual Meeting, October 15, 2006.

“Airway/Pediatrics”, Moderator, Medically Challenging Case. American Society of Anesthesiologists Annual Meeting, October 15, 2006.

“Workshop on Pediatric Central and Peripheral Nerve Blocks”, American Society of Anesthesiologists Annual Meeting, October 15, 2006.

“Workshop on Peripheral Nerve Blocks: Ultrasound, Simulation, and Stimulation”, American Society of Anesthesiologists Annual Meeting, October 16, 2006.

“Cleft Lip Repair in Infants: Is There an Advantage in Performing a Peripheral Nerve Block”. Pain and Sedation Poster Session. American Society of Anesthesiologists Annual Meeting, October 17, 2006.

“Cardiac/General/Regional/Pulmonary”, Moderator, Medically Challenging Case. American Society of Anesthesiologists Annual Meeting, October 17, 2006.

“Practical Pediatric Regional Anesthesia”, Refresher Course, American Society of Anesthesiologists Annual Meeting, October 17, 2006.

“Pain Management - Point-Counterpoint - "Thorny Cases" Multiple Perspectives On Pain. Pangea Annual Meeting, October 26-28, 2006, Chicago, Illinois,

“Managing Pain in Children”, International Conference on Paediatric Anaesthesia, November 4-5, 2006, New Delhi, India.

“Ultrasound Guided Regional Block”, International Conference on Paediatric Anaesthesia, November 4-5, 2006, New Delhi, India.

“Setting Up of Acute Pain Service for Children”, International Conference on Paediatric Anaesthesia, November 4-5, 2006, New Delhi, India.

“Practical Pediatric Regional Anesthesia”, The New York State Society of Anesthesiologists, 60<sup>th</sup> Annual Postgraduate Assembly in Anesthesiology, New York, NY, December 9-10, 2006.

“Peripheral Nerve Blocks” 2007 Pediatric Anesthesiology Meeting, Co-Sponsored by Society of Pediatric Anesthesia and American Academy of Pediatrics, March 8-11, 2007, Phoenix, Arizona.

“Nerve Blocks (Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks) Workshop. International Anesthesia Research Society 81<sup>st</sup> Congress, March 23-27, Orlando, Florida.

“The Pediatric Acute Pain Service”, Refresher Course, 32<sup>nd</sup> Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, April 19-22, 2007, Vancouver, British Columbia, Canada.

“Pediatric Regional Anesthesia” Workshop, 32<sup>nd</sup> Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, April 19-22, 2007, Vancouver, British Columbia, Canada.

“Pediatric Regional Anesthesia” 32<sup>nd</sup> Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, April 19-22, 2007, Vancouver, British Columbia, Canada.

“Pediatric Neuroaxial Analgesia” 32<sup>nd</sup> Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, April 19-22, 2007, Vancouver, British Columbia, Canada.

“Regional Block Techniques and Anatomy”, Acute Pain Session, Advanced Regional Anesthesia 2007: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop, Wayne State University School of Medicine, Detroit, Michigan, May 4-6, 2007.

“Ultrasound Guided Blocks Workshop”, Faculty Station Coordinator, Advanced Regional Anesthesia 2007: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop, Wayne State University School of Medicine, Detroit, Michigan, May 4-6, 2007.

“Upper Body Torso Simulator Workshop”, Faculty Station Coordinator, Advanced Regional Anesthesia 2007: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop, Wayne State University School of Medicine, Detroit, Michigan, May 4-6, 2007.

“Regional anesthesia blocks in CRPS”, Juvenile and Adolescent CRPS Consensus Conference, Stanford University, Palo Alto, California, May 30-31, 2007.

“How We Do It”, talks and illustrative case reports, Juvenile and Adolescent CRPS Consensus Conference, Stanford University, Palo Alto, California, May 30-31, 2007.

“Nerve Blocks Workshop”, University of Vienna, Austria, Vienna, June 23, 2007.

“Face and Neck Blocks in Children Workshop”, Demonstrator, XXVII Annual European Society of Regional Anesthesia Congress, Valencia, Spain, September 12-15, 2007.

“Bupivacaine has no Place in Modern Obstetric or Paediatric Practice – A Pro-Con Symposium”, XXVII Annual European Society of Regional Anesthesia Congress, Valencia, Spain, September 12-15, 2007.

“Role of Minor Blocks” What is New in Paediatric Regional Anaesthesia? XXVII Annual European Society of Regional Anesthesia Congress, Valencia, Spain, September 12-15, 2007.

“Caudal Anaesthesia still has an Important Role in Paediatric Surgery. Pro/Con Discussion. XXVII Annual European Society of Regional Anesthesia Congress, Valencia, Spain, September 12-15, 2007.

“Pediatrics” Poster Area Chairperson, XXVII Annual European Society of Regional Anesthesia Congress, Valencia, Spain, September 12-15, 2007.

“Intravenous Versus Regional Techniques for Postoperative Analgesia in the Pediatric Patient”, Luncheon Panel, American Society of Anesthesiologists 2007 Annual Meeting, San Francisco, CA, October 13-17, 2007.

“Regional Anesthesia for Postoperative Pain Management”, Panel Discussion”, American Society of Anesthesiologists 2007 Annual Meeting, San Francisco, CA, October 13-17, 2007.

“Practical Pediatric Regional Anesthesia”. Refresher Course. American Society of Anesthesiologists 2007 Annual Meeting, San Francisco, CA, October 13-17, 2007.

“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”. American Society of Anesthesiologists 2007 Annual Meeting, San Francisco, CA, October 13-17, 2007.

“Ultrasound Guided Paediatric Regional Anaesthesia”, Hull Regional Anaesthesia Symposium, Hull Royal Infirmary, Hull, UK, October 31 – November 1, 2007.

“New Frontiers in Regional Anaesthesia”. Hull Regional Anaesthesia Symposium, Hull Royal Infirmary, Hull, UK, October 31 – November 1, 2007.

“Catheters in Regional Anaesthesia”. Hull Regional Anaesthesia Symposium, Hull Royal Infirmary, Hull, UK, October 31 – November 1, 2007.

“Pain Management in Pediatric Orthopedics”, AAP 2007 National Conference & Exhibition, San Francisco, CA, October 27-30, 2007.

“Paediatric Practical Regional Anaesthesia”. 5<sup>th</sup> Pediatric Anesthesia Latin American Symposium, Santiago, Chile, November 29 – December 1, 2007.

“Ultrasound Peripheral Techniques”, Regional Blocks Workshops, 5<sup>th</sup> Pediatric Anesthesia Latin American Symposium, Santiago, Chile, November 29-December 1, 2007.

“Practical Regional Anesthesia in Children”, 2<sup>nd</sup> Pan Asian NYSORA Symposium on Regional Anesthesia and Pain Medicine, Hong Kong, January 12-13, 2008.

“Nerve Blocks in Children”, Workshop, 2<sup>nd</sup> Pan Asian NYSORA Symposium on Regional Anesthesia and Pain Medicine, Hong Kong, January 12-13, 2008.

“What everybody should know about preop pediatric preparation”. California Society of Anesthesiologists Hawaiian Seminar, January 21-25, 2008, Maui, Hawaii.

“Pain in Children: Tip of the Iceberg”. California Society of Anesthesiologists Hawaiian Seminar, January 21-25, 2008, Maui, Hawaii

“Practical Pediatric Regional Anesthesia”. California Society of Anesthesiologists Hawaiian Seminar, January 21-25, 2008, Maui, Hawaii

“Ultrasound in Pediatric Anesthesia”. California Society of Anesthesiologists Hawaiian Seminar, January 21-25, 2008, Maui, Hawaii

“Pediatric Nerve Blocks”, Regional Anaesthesia Workshop. The 14<sup>th</sup> World Congress of Anesthesiologists, March 3, 2008, Cape Town, South Africa.

“Pediatric Nerve Blocks”, Regional Anaesthesia Workshop. The 14<sup>th</sup> World Congress of Anesthesiologists, March 4, 2008, Cape Town, South Africa.

“Ultrasound Guided Regional Anesthesia: Technology and Techniques”, Keynote Presenter, Emory University School of Medicine, March 7-8, 2008, Atlanta, Georgia.

“Integrating Regional Anesthesia into Postoperative Pain Management in Children – An Intensive Review”, 82<sup>nd</sup> Clinical and Scientific Congress, International Anesthesia Research Society, March 29 – April 1, 2008, San Francisco, California.

“Pediatric Acute Pain Management: What’s in and What’s Out”, Pediatric Anesthesiology Update, 82<sup>nd</sup> Clinical and Scientific Congress, International Anesthesia Research Society, March 29 – April 1, 2008, San Francisco, California.

“Peripheral Nerve Blocks in Children – What’s New? Refresher Course, ASRA 33<sup>rd</sup> Annual Regional Anesthesia Meeting and Workshops, May 1-4, 2008, Playa del Carmen (Cancun), Mexico.

“Pediatric Regional Anesthesia Workshop”, ASRA 33<sup>rd</sup> Annual Regional Anesthesia Meeting and Workshops, May 1-4, 2008, Playa del Carmen (Cancun), Mexico.

“Acute Pain Management in the Pediatric Patient”, ASRA 33<sup>rd</sup> Annual Regional Anesthesia Meeting and Workshops, May 1-4, 2008, Playa del Carmen (Cancun), Mexico.

“Intensive Ultrasound Comprehensive Workshop”, ASRA 33<sup>rd</sup> Annual Regional Anesthesia Meeting and Workshops, May 1-4, 2008, Playa del Carmen (Cancun), Mexico.

“Pediatric Patient with Severe RSD with Right Upper Extremity Pain”, Panelist, Advanced Regional Anesthesia 2008: Invasive Pain Management and Hands-On Workshop, Wayne State University School of Medicine, May 16-18, 2008, Detroit, MI.

“The Use of Regional Anesthesia to Enhance Postoperative Recovery in the Pediatric Patient”, Grand Rounds, The Children’s Hospital, Aurora, Colorado, June 15, 2008.

“Pediatric Regional Pain Management”, Roundtable Discussion and Workshop, The Children’s Hospital, Aurora, Colorado, June 16, 2008.

“Ultrasound Guided Blocks Workshop”, The Children’s Hospital, Aurora, Colorado, June 16, 2008.

“Update on Chronic Pain Management in Children”, The Children’s Hospital, Aurora, Colorado, June 17, 2008.

“Development and Promotion of a Multidisciplinary Chronic Pain Service”, Panel Discussion and Workshop, The Children’s Hospital, Aurora, Colorado, June 17, 2008.

“Innovative Techniques in Anesthetic Pain Blocks”, Discussion and Workshop, The Children’s Hospital, Aurora, Colorado, June 17, 2008.

“ASRA Excellence in Ultrasound Workshop”, American Society of Regional Anesthesia and Pain Medicine, Chicago, Illinois, July 19-20, 2008.

“Acute Pain Management in Children”, University of Wisconsin School of Medicine and Public Health, Madison, WI, August 5-6, 2008.

“Practical Pediatric Regional Anesthesia”, University of Wisconsin School of Medicine and Public Health, Madison, WI, August 5-6, 2008.

“ASRA Excellence in Ultrasound –Guided Regional Anesthesia Workshop”, American Society of Regional Anesthesia and Pain Medicine, Vancouver, BC, Canada, August 30-31, 2008.

“Practical Pediatric Regional Anesthesia”, Mayo Clinic College of Medicine, Rochester, Minnesota, September 8, 2008.

“Practical Pediatric Regional Anesthesia” Refresher Course, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Pediatric Anesthesia”, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Regional Anesthesia and Acute Pain: Regional Anesthesia and Ultrasound”, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Pain Perception is Modulated by Early-Life Pain Experience and Rearing Environment in Rats”, Poster Presentation, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Pediatric Ultrasound-Guided Regional Anesthesia Workshop”, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation Workshop”, American Society of Anesthesiologists 2008 Annual Meeting, October 17-22, 2008, Orlando, Florida.

“Ultrasound Guided Blocks in Adults and Children”, 4<sup>th</sup> Annual Pain Management Symposium, University of Pittsburgh Medical Center, November 7-9, 2008, Pittsburgh, Pennsylvania.

“Ultrasound Workshop”, 4<sup>th</sup> Annual Pain Management Symposium, University of Pittsburgh Medical Center. November 7-9, 2008, Pittsburgh, Pennsylvania.

“Pediatric Pain Issues”, ASRA 2008 Annual Pain Medicine Meeting and Workshops, November 20-23, 2008, Huntington Beach, California.

“Pediatric CRPS and other Neuropathic Pain States”, ASRA 2008 Annual Pain Medicine Meeting and Workshops, November 20-23, 2008, Huntington Beach, California.

“Ultrasound for Chronic Pain” Workshop. ASRA 2008 Annual Pain Medicine Meeting and Workshops, November 20-23, 2008, Huntington Beach, California.

“Basic Regional Anesthesia in Pediatrics” Panel Speaker, The New York State Society of Anesthesiologists, Inc. 62<sup>nd</sup> Annual Postgraduate Assembly, New York, NY, December 14-17, 2008.

“Pediatric Pain Management” Focus Session, The New York State Society of Anesthesiologists 62<sup>nd</sup> Annual Postgraduate Assembly, New York, NY, December 14-17, 2008.

“Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks” Workshop. The New York State Society of Anesthesiologists 62<sup>nd</sup> Annual Postgraduate Assembly, New York, NY, December 14-17, 2008.

“Regional Anesthesia for Pediatric Patients”. Grand Rounds, Stony Brook University Medical Center, Stony Brook, NY, December 17, 2008.

“Pediatric Regional Tutorial”. Grand Rounds, Stony Brook University Medical Center, Stony Brook, NY, December 17, 2008.

“Pain Management in the Neonate”. Neonatology Lecture, Children’s Memorial Hospital, Chicago, Illinois, February 4, 2009.

“Regional Anesthesia in Pediatrics”. Children of the World Congress, Chennai, India, February 20-22, 2009.

“Pain Management in Children”. Children of the World Congress, Chennai, India, February 20-22, 2009.

“Trauma Anesthesia in Infants and Children”. Children of the World Congress, Chennai, India, February 20-22, 2009.

“Regional Anesthesia in Children”. Michigan Society of Anesthesiologists, Troy, Michigan, February 28, 2009.

“Acute Pain Management in Children”. Texas Anesthesia Conference for Obstetrics- Texas Annual Pediatric Anesthesia Symposium/Difficult Airway Workshop, Houston, Texas, March 5-8, 2009.

“Regional Anesthesia in Children”. Texas Anesthesia Conference for Obstetrics/Texas Annual Pediatric Anesthesia Symposium/Difficult Airway Workshop, Houston, Texas, March 5-8, 2009.

“Ultrasound Guided Pediatric Regional Anesthesia”. Ultrasound Guided Regional Anesthesia Course. Emory University School of Medicine, Atlanta, Georgia, March 6-7, 2009.

“Pediatric Pain: Developmental, Mechanistic, and Treatment Considerations”. 5<sup>th</sup> World Congress World Institute of Pain – WIP, New York, New York, March 13-16, 2009.

“Peripheral Nerve Block”. Pediatric Anesthesiology Workshop, 2009 SPA/AAP Spring Meeting, Jacksonville, Florida, March 19-22, 2009.

“Advanced Ultrasound-Guided Regional Anesthesia Workshop”. 2009 SPA/AAP Spring Meeting, Jacksonville, Florida, March 19-22, 2009.

“Truncal Blocks (Rectus Sheath, TAP, Intercostal, Ilioinguinal)” Workshop. 34<sup>th</sup> Annual Regional Anesthesia (ASRA) Meeting and Workshops, Phoenix, Arizona, April 30-May 3, 2009.

“Pediatric Regional Anesthesia” Workshop. 34<sup>th</sup> Annual Regional Anesthesia (ASRA) Meeting and Workshops, Phoenix, Arizona, April 30-May 3, 2009.

“Head and Neck Blocks” Workshop. 34<sup>th</sup> Annual Regional Anesthesia (ASRA) Meeting and Workshops, Phoenix, Arizona, April 30-May 3, 2009.

“Continuous Pediatric Regional Anesthesia” Workshop. 34<sup>th</sup> Annual Regional Anesthesia (ASRA) Meeting and Workshops, Phoenix, Arizona, April 30-May 3, 2009.

“Intensive Ultrasound Comprehensive Workshop” 34<sup>th</sup> Annual Regional Anesthesia (ASRA) Meeting and Workshops, Phoenix, Arizona, April 30-May 3, 2009.

“Pain Management in the Pediatric Trauma Patient”. Trauma Rounds, Children’s Memorial Hospital, Chicago, Illinois, May 11, 2009.

“Pain Management for Extremity Injuries”. Surgery Grand Rounds, Children’s Memorial Hospital, Chicago, Illinois, May 11, 2009.

“Recent Advances in Pediatric Regional Anesthesia: What is in what is out”. Advanced Regional Anesthesia 2009: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Wayne State University School of Medicine, Detroit, Michigan, May 15-17, 2009.

“Head and Neck Block with Live Model Workshop”. Advanced Regional Anesthesia 2009: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Wayne State University School of Medicine, Detroit, Michigan, May 15-17, 2009.

“Axillary vs. Infraclavicular Block for Wrist Surgery”. Pro and Con Session Panel Member. Advanced Regional Anesthesia 2009: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop. Wayne State University School of Medicine, Detroit, Michigan, May 15-17, 2009.

“Multidisciplinary Treatment for Pain”. Pediatric Pearls: Functional / Non-Organic Pain, Children’s Memorial Hospital CME Series 2008-2009, Deerfield, Illinois, May 22, 2009.

“Ultrasound & Nerve Stimulation”, American Society of Regional Anesthesia and Pain Medicine (ASRA) 2009 Excellence in Regional Anesthesia Workshops. Chicago, Illinois, June 27-28, 2009.

“Chronic Pain in Children – Which Interventions are Evidence Based” Workshop. European Society of Regional Anaesthesia and Pain Therapy (ESRA) XXVIII Annual Congress, Salzburg, Austria, September 9-12, 2009.

“Ultrasound of Peripheral Nerve” Ultrasound Workshop. European Society of Regional Anaesthesia and Pain Therapy (ESRA) XXVIII Annual Congress, Salzburg, Austria, September 9-12, 2009.

“Regional Techniques in Chronic and Cancer Pain” Pediatric Regional Anaesthesia Symposia Update. European Society of Regional Anaesthesia and Pain Therapy (ESRA) XXVIII Annual Congress, Salzburg, Austria, September 9-12, 2009.

“Co-Moderator”, Ultrasound for Regional Blocks, Hands-On-Workshop. Illinois Society of Anesthesiologists, 2009 Midwest Anesthesiology Conference, Chicago, IL, September 26, 2009.

“Pediatric Ultrasound-Guided Regional Anesthesia” Workshop, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009.

“Peripheral Nerve Blocks for Chronic Pain with Ultrasound” Cadaver Workshop, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009.

“Regional Anesthesia Education in Infants: A Novel Computer-Based Visual Learning Technique to Improve Confidence and Performance in Anesthesia Residents”, Scientific and Educational Exhibits, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009. **Awarded 1<sup>st</sup> Prize**

“Ultrasound Guidance for Regional Anesthesia in Infants, Children and Adolescents: Seeing is Believing! Refresher Course, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009.

“Ultrasound, Simulation, Stimulation for Peripheral Nerve Blocks” Workshop, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009.

“A Novel Method to Improve Pediatric Regional Anesthesia: The Pediatric Block Rotation” Poster Discussion. American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009

“Everyday Regional Anesthesia for the Pediatric Patient” Panel Member. American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 17-21, 2009

“Ultrasound Guided Regional Anesthesia in Pediatrics/Ultrasound Workshop. 5<sup>th</sup> Annual UPMC Pain Management Symposium, Nemaquin Woodlands Resort, PA, November 6-8, 2009.

“Establishing a Pediatric Block Service: From Concept to Inception”. Pediatric Anesthesia Conference, The Hospital for Sick Children, Toronto, Canada, November 6-8, 2009.



“Pediatric Regional Anesthesia”. CSTAR’s Varkey Regional Anaesthesia Update 2009. London, Ontario, Canada, November 28-30, 2009.

“Nerve Blocks for Pediatric Patients” Pediatric Pearls Panel Moderator and Presenter. The New York State Society of Anesthesiologists, 63<sup>rd</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 11-13, 2009.

“Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks” Workshop. The New York State Society of Anesthesiologists, 63<sup>rd</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 11-13, 2009.

“Regional Strategies” Update on Pediatric Pain Management Presenter and Moderator The New York State Society of Anesthesiologists, 63<sup>rd</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 11-13, 2009.

“Regional Anesthesia in Children”, The University of Chicago’s 12<sup>th</sup> Annual Conference – Challenge for Clinicians, St. John, U.S., Virgin Islands, January 11-16, 2010.

“Preoperative Preparation for the Pediatric Patient”, The University of Chicago’s 12<sup>th</sup> Annual Conference Challenge for Clinicians, St. John, U.S., Virgin Islands, January 11-16, 2010.

“Trauma in Children”, Stanford 23<sup>rd</sup> Annual Anesthesia Update, Big Sky Resort, Big Sky, Montana, February 14-19, 2010.

“Sedation in Children: Can This be Delivered Safely?” Stanford 23<sup>rd</sup> Annual Anesthesia Update, Big Sky Resort, Big Sky, Montana, February 14-19, 2010.

“Pre-Operative Preparation of the Pediatric Patient”, Stanford 23<sup>rd</sup> Annual Anesthesia Update, Big Sky Resort, Big Sky, Montana, February 14-19, 2010.

“Pediatric Pain Management”, NYSORA World Anesthesia Congress, Dubai, United Arab Emirates, March 7-12, 2010.

“Pain Management Workshop”, NYSORA World Anesthesia Congress, Dubai, United Arab Emirates, March 7-12, 2010.

“Pediatric Regional Anesthesia Workshop”, NYSORA World Anesthesia Congress, Dubai, United Arab Emirates, March 7-12, 2010.

“Shoulder Surgery – Anatomical Surgical and Anaesthetic Challenges”, Panel Member, NYSORA World Anesthesia Congress, Dubai, United Arab Emirates, March 7-12, 2010.

“Pediatric Regional Ultrasound”, IARS 2010 Annual Meeting, Honolulu, Hawaii, March 20-23, 2010.

“Advanced Ultrasound Guided Nerve Block Workshop”, IARS 2010 Annual Meeting, Honolulu, Hawaii, March 20-23, 2010.

“Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks Workshop”, IARS 2010 Annual Meeting, Honolulu, Hawaii, March 20-23, 2010.

“PACU Safety Myths”, Panel Session, IARS 2010 Annual Meeting, Honolulu, Hawaii, March 20-23, 2010.

“The Pediatric Patient with Chronic Pain”. Workshop Moderator, 2010 Pediatric Anesthesiology Meeting, San Antonio, Texas, April 15-18, 2010.

“Advanced Ultrasound Guided Regional Anesthesia: Upper Extremity, Lower Extremity, Truncal and Central Neuraxial Stations”. Workshop Moderator, Pediatric Anesthesiology Meeting, San Antonio, Texas, April 15-18, 2010.

“Head and Neck Workshop” American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Pediatric Regional Anesthesia Primer- Basic Science Review & Clinical Applications”, American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Pearls and Pitfalls of Regional Anesthesia in the Toddler and Teen”, Resident Forum, American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Pediatric Regional Anesthesia Workshop”, American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“US Guided Regional Anesthesia for Neuroaxial & Truncal Blocks Workshop, American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Pediatric Regional Anesthesia Techniques Workshop” American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Pediatric Regional Anesthesia 101”, Special Resident Lecture, American Society of Regional Anesthesia and Pain Medicine 35<sup>th</sup> Annual Meeting, Toronto, Ontario, Canada, April 22-25, 2010.

“Practical Pediatric Regional Anesthesia”, Anesthesiology Academic Program, Hospital for Special Surgery, New York, NY, May 7, 2010.

“Pro and Con Session-Patient with Neurologic Deficit After Brachial Plexus Block: Dilemma: What to Do? Advances in Regional Anesthesia 2010, Wayne State University, Detroit, MI, May 14-16, 2010.

“Ultrasound Guided Trunk and Spinal Blocks”, Advances in Regional Anesthesia 2010, Wayne State University, Detroit, MI, May 14-16, 2010.

“Upper Torso & Head and Neck Workshop” Advances in Regional Anesthesia 2010, Wayne State University, Detroit, MI, May 14-16, 2010.

“Pediatric Ultrasound Workshop”, Regional Anesthesia Study Center of Iowa, University of Iowa Carver College of Medicine, Cedar Rapids, IA, May 21-22, 2010.

“Use of Ultrasound for Regional Anesthesia of the Upper & Lower Extremity Workshop” 51<sup>st</sup> Annual McGill University Anesthesia Update, Montreal, Canada, May 23, 2010.

“Truncal Blocks” Ultrasound Guided Regional Anesthesia Workshop, American Society of Regional Anesthesia and Pain Medicine, Chicago, IL, June 12-13, 2010.

“Chronic Pain Workshop”. 7<sup>th</sup> Annual International Symposium on Ultrasound and Regional Anesthesia 2010. Toronto, Ontario, Canada, June 4-6, 2010.

“Pediatric Pain Management”, 7<sup>th</sup> Annual International Symposium on Ultrasound and Regional Anesthesia 2010. Toronto, Ontario, Canada, June 4-6, 2010.

“Ask the Experts-Challenging case Discussion” Panelist, 7<sup>th</sup> Annual International Symposium on Ultrasound and Regional Anesthesia 2010. Toronto, Ontario, Canada, June 4-6, 2010.

“Ultrasound Guided Regional Anesthesia in Infants, Children and Adolescents: Seeing is Believing!” The 2010 National Congress of Pain, Chinese Society of Anesthesiology, Chengdu, Sichuan Province, P.R. China, August 13-15, 2010.

“Ultrasound Guided Regional Anesthesia: Hands-On Workshop”, The 2010 National Congress of Pain, Chinese Society of Anesthesiology, Chengdu, Sichuan Province, P.R. China, August 13-15, 2010.

“Chronic Pain Management in Children”, The 2010 National Congress of Pain, Chinese Society of Anesthesiology, Chengdu, Sichuan Province, P.R. China, August 13-15, 2010.

“Ultrasound Guided Nerve Blocks for Pain Management”, The 2010 National Congress of Pain, Chinese Society of Anesthesiology, Chengdu, Sichuan Province, P.R. China, August 13-15, 2010.

“Pediatric Regional Anesthesia and Pain: How Important are They in a Peer Reviewed Journal?”, Pediatric Anesthesia Symposium, XXIX Annual ESRA Congress, Porto, Portugal, September 8-11, 2010.

“Central and Paravertebral Blocks” Ultrasound Pediatrics Workshop. Pediatric Anesthesia Symposium, XXIX Annual ESRA Congress, Porto, Portugal, September 8-11, 2010.

“Ultrasound Guidance for Regional Anesthesia in Infants, Children, and Adolescents in your Practice. Refresher Course, American Society of Anesthesiologists Annual Meeting, San Diego, California, October 16-20, 2010.

“Pediatric Regional Anesthesia” Workshop. American Society of Anesthesiologists Annual Meeting, San Diego, California, October 16-20, 2010.

“Anesthetizing Kids in 2010: Managing Common Pediatric Anesthetic Dilemmas” Breakfast Panel. American Society of Anesthesiologists Annual Meeting, San Diego, California, October 16-20, 2010.

“Peripheral Nerve Blocks for Chronic Pain with Ultrasound”, Cadaver Workshop Moderator. American Society of Anesthesiologists Annual Meeting, San Diego, California, October 16-20, 2010.

“Peripheral Nerve Blocks: Ultrasound, Simulation & Stimulation” Workshop, American Society of Anesthesiologists Annual Meeting, San Diego, California, October 16-20, 2010.

“Big Pain in Little Patients – An Update on Pediatric Pain Care”. Texas Pain Society’s 2<sup>nd</sup> Annual Scientific Meeting, Austin, Texas, October 30, 2010.

“Ultrasound Guided Pain Procedures – Ilioinguinal, Intercostal, Lateral Femoral, Cutaneous, Saphenous Nerve Blocks” Workshop. 2010 Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, Phoenix, Arizona, November 18-21, 2010.

“Sonoanatomy and Injection Techniques: Trunk”. Ultrasound in Pain Medicine Workshop. 2010 Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, Phoenix, Arizona, November 18-21, 2010.

“Intercostal, Ilioinguinal, Iliohypogastric, Lateral Femoral Cutaneous Nerve Blocks”. Ultrasound in Pain Medicine Workshop. 2010 Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, Phoenix, Arizona, November 18-21, 2010.

“Ultrasound Guided Regional Anesthesia in Children: Seeing is Believing”, New York University School of Medicine Department of Anesthesiology Visiting Professor Lecture Series. New York, New York, December 8, 2010.

“Pediatric Pain Management – Regional Approaches”, Focus Session Moderator, The New York State Society of Anesthesiologists, 64<sup>th</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 10-12, 2010.

“Regional Anesthesia Workshop”, The New York State Society of Anesthesiologists, 64<sup>th</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 10-12, 2010.

“Ultrasound Guided Regional Anesthesia in Infants, Children and Adolescents”. Anesthesiology Grand Rounds, Cooper University Hospital, Camden, NJ, January 11, 2011.

“Ultrasound Guided for Regional Anesthesia in Infants, Children and Adolescents: Seeing is Believing! Aspen Anesthesia - New Developments and Controversies, Holiday Seminars, Inc, Aspen, Colorado, January 29-February 5, 2010.

“Preoperative Preparation of the Pediatric Patient: A Guide for the Generalist”. Aspen Anesthesia - New Developments and Controversies, Holiday Seminars, Inc, Aspen, Colorado, January 29-February 5, 2010.

“Airway Emergencies – Infants and Children: Diagnosis and Management”. Aspen Anesthesia - New Developments and Controversies, Holiday Seminars, Inc, Aspen, Colorado, January 29-February 5, 2010.

“Abdominal Wall Blocks – Iliohypogastric, Ilioinguinal nerves, and TAP” International Symposium on Spine and Paravertebral Sonography for Anesthesia and Pain Medicine 2011, Hong Kong, China, March 18-20, 2011.

“Integrating USGRA to the Current Pediatric Anesthesia Training Program – Why, Who, How, and When? International Symposium on Spine and Paravertebral Sonography for Anesthesia and Pain Medicine 2011 March 18-20, 2011

“Advanced Ultrasound Guided Regional Anesthesia Workshop” Society for Pediatric Anesthesia Annual Pediatric Anesthesiology Winter/Spring Meeting. San Diego, CA, March 30 – April 3, 2011.

“Integrating Ultrasound Guided Regional Anesthesia into Current Anesthesia Programs – Why, Who, How and When” Advanced Techniques for Acute and Chronic Pain Management. Wayne State University, Detroit, MI, April 29, 2011 – May 1, 2011.

“Head and Neck Blocks Workshop”, American Society of Regional Anesthesia and Pain Medicine (ASRA), 36<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, Las Vegas, NV, May 5- May 8, 2011.

“Pediatric Regional Anesthesia – Clinical Pearls” - American Society of Regional Anesthesia and Pain Medicine (ASRA). 36<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, Las Vegas, NV, May 5- May 8, 2011.

“Ultrasound Imaging in Challenging Cases (Primarily High BMI) Workshop”. American Society of Regional Anesthesia and Pain Medicine (ASRA), 36<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, Las Vegas, NV, May 5- May 8, 2011.

“Update in Ultrasound for Pediatric Patients”. American Society of Regional Anesthesia and Pain Medicine (ASRA) - 36<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, Las Vegas, NV, May 5- May 8, 2011.

“Pediatric Regional Anesthesia Techniques”. American Society of Regional Anesthesia and Pain Medicine (ASRA) - 36<sup>th</sup> Annual Regional Anesthesia Meeting and Workshops, Las Vegas, NV, May 5- May 8, 2011.

“ABA Programs for Initial Certification and Maintenance of Certification in Anesthesiology (MOCA)” ABA Panel Session, International Anesthesia Research Society (IARS) 2011 Annual Meeting, Vancouver, British Columbia, Canada, May 22, 2011.

“Pediatric Regional Anesthesia Workshop”. American Society of Regional Anesthesia and Pain Medicine, Chicago, Illinois, June 25-26, 2011.

“Advances in Ultrasound in Pediatric Anesthesia”. Visual Technology In Anesthesia/Pain/Critical Care- Emergency Medicine. Chengdu, Sichuan Province, P.R. China, July 2-3, 2011.

“Fast Tracking for Post-Operative Pain Management in Children Receiving Cochlear Implants”. 13<sup>th</sup> Symposium on Cochlear Implants in Children. Chicago, IL, July 15, 2011.

“Pediatric Regional Anesthesia Workshop” American Society of Regional Anesthesia and Pain Medicine, Chicago, Illinois, September 10-11, 2011.

“Excellence in Pain Management Workshop - Ultrasound Techniques”, American Society of Regional Anesthesia and Pain Medicine, Boston, Massachusetts, September 24-25, 2011.

“Peripheral Nerve Blocks for Chronic Pain with Ultrasound”, Cadaver Workshop, American Society of Anesthesiologists Annual Meeting, Chicago, Illinois, October 15-19, 2011.

“Use of a Web-Based Video Module for Orientation of Fellows to Anesthesia for Pediatric Cardiac Surgery” American Society of Anesthesiologists Annual Meeting, Chicago, Illinois, October 15-19, 2011.

“Ultrasound Guided Regional Anesthesia in Infants, Children and Adolescents in Your Practice”, Refresher Course, American Society of Anesthesiologists Annual Meeting, Chicago, Illinois, October 15-19, 2011.

“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”, Workshop. American Society of Anesthesiologists Annual Meeting, Chicago, Illinois, October 15-19, 2011.

“Pediatric Pain”, Poster Discussion. American Society of Anesthesiologists Annual Meeting, Chicago, Illinois, October 15-19, 2011.

“Regional Anesthesia in Infants, Children and Adolescents”. Grand Rounds Lecture, Weill Cornell Medical College, New York, New York, October 24, 2011.

“US Guided Regional Anesthesia in Infants, Children and Adolescents”. Resident Lecture, Weill Cornell Medical College, New York, New York, October 24, 2011.

“Trunk-Sonoatomy and Injection Techniques” Ultrasound in Pain Medicine Special Session Workshop, ASRA 10<sup>th</sup> Annual Pain Medicine Meeting and Workshops, New Orleans, LA, November 17-20, 2011.

“Intercostal, Ilioinguinal, Iliohypogastric and Lateral Femoral Cutaneous” Ultrasound in Pain Medicine Special Session Workshop, ASRA 10<sup>th</sup> Annual Pain Medicine Meeting and Workshops, New Orleans, LA, November 17-20, 2011.

“Ultrasound Guided Peripheral Nerve Blocks: Ilioinguinal, Intercostal, Lateral Femoral Cutaneous, saphenous”. ASRA 10<sup>th</sup> Annual Pain Medicine Meeting and Workshops, New Orleans, LA, November 17-20, 2011.

“Complications, Acute and Late, of Pain Medicine Procedures”, Roundtable Forum: Optimizing Pain Treatment Decisions. ASRA 10<sup>th</sup> Annual Pain Medicine Meeting and Workshops, New Orleans, LA, November 17-20, 2011.

“Pediatric Regional Anesthesia”, Lecture to SRNA’s, Evanston Hospital, Evanston, IL, January 18, 2012.

“Neonatal and Pediatric Pain” Lecture and Moderator, 6<sup>th</sup> World Congress, World Institute of Pain, Miami Beach, FL, February 4-6, 2012.

“Ultrasound of the Chest”, Workshop on Ultrasound for the Cardiac Anesthesiologist, Indian Association of Cardiothoracic and Vascular Anesthesiologists, New Delhi, India, February 10-12, 2012.

“Ultrasound for central venous and arterial blocks”, Workshop on Ultrasound for the Cardiac Anesthesiologist, Indian Association of Cardiothoracic and Vascular Anesthesiologists, New Delhi, India, February 10-12, 2012.

“When Navigating the Headache Treatment Options Becomes a Headache” Panel of Experts Presenter, Pediatric Anesthesiology, Tampa, Florida, February 23-26, 2012.

“Advanced Ultrasound Guided Regional Anesthesia Workshop”, Pediatric Anesthesiology, Tampa, Florida, February 23-26, 2012.

“Pediatric Regional Anesthesia, Lecture to SRNA’s Evanston Hospital, Evanston, IL, March 10, 2012.

“The Most Useful Blocks and Practical Tips for Pediatric Regional Anesthesia”, PLD 12, 37<sup>th</sup> Annual Regional Anesthesia and Workshops, San Diego, California, March 15-18, 2012.

“Hands-on Upper Extremity”, Ultrasound-Based Workshop. 37<sup>th</sup> Annual Regional Anesthesia and Workshops, San Diego, California, March 15-18, 2012.

“Tap, II-IH, Rectus Sheath Nerve Blocks”, Focused Workshop. 37<sup>th</sup> Annual Regional Anesthesia and Workshops, San Diego, California, March 15-18, 2012.

“Pediatric Regional Anesthesia” Focused Workshop. 37<sup>th</sup> Annual Regional Anesthesia and Workshops, San Diego, California, March 15-18, 2012.

“Pediatric Airway Management”, IARS 2012 Annual Meeting, Boston, Massachusetts, May 18-21, 2012.

“ABA MOCA Certification” Panel Speaker, IARS 2012 Annual Meeting, Boston, Massachusetts, May 18-21, 2012.

“Recent Advances in Ultrasound Guided Peripheral Nerve Blocks in Children”, Advanced Techniques for Acute and Chronic Pain Management 2012, Wayne State University, Detroit, Michigan, May 4-6, 2012.

“Advanced Sonography for Chronic Pain Procedures Workshop”, Advanced Techniques for Acute and Chronic Pain Management 2012, Wayne State University, Detroit, Michigan, May 4-6, 2012.

“Craniofacial Blocks, Spine, Trunk Sonography”, Advanced Techniques for Acute and Chronic Pain Management 2012, Wayne State University, Detroit, MI, May 4-6, 2012.

“Pediatric Airway Management: Congenital Anomalies That Can Make Your Life Difficult” IARS 2012 Annual Meeting, Boston, Massachusetts, May 18-21, 2012.

“Regional Anesthesia in Children”, Canadian Anesthesiologists’ Society 2012 Annual Meeting, Quebec City, Quebec, Canada, June 15-18, 2012.

“Practical Pediatric Regional Anesthesia” Anesthesia Grand Rounds, Cincinnati Children’s Hospital, Cincinnati, Ohio, July 24-25, 2012.

“Regional Anesthesia in Children”, Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, MA, August 9, 2012.

“Continuous regional anesthesia in children”, Ask the Expert Session, 31<sup>st</sup> Annual ESRA Congress, Bordeaux, France, September 5-8, 2012.

“Pitfalls in pediatric ultrasound”. Regional Anesthesia in Children Symposium, 31<sup>st</sup> Annual ESRA Congress, Bordeaux, France, September 5-8, 2012.

“Trunk and paravertebral blocks” U/S Pediatrics 3, 31<sup>st</sup> Annual ESRA Congress, Bordeaux, France, September 5-8, 2012.

“Basics of Ultrasound for Regional Anesthesia”, Workshop, International Assembly for Pediatric Anesthesia, Safety Knows No Borders, Washington, DC, October 10-12, 2012.

“Basic Peripheral Nerve/Muscle Blocks for Chronic Pain with Ultrasound”, Cadaver Workshop, American Society of Anesthesiologists Annual Meeting, Washington, DC, October 13-17, 2012.

“Advanced Ultrasound Guided Regional Anesthesia in Pediatrics”, Clinical Workshop, American Society of Anesthesiologists Annual Meeting, Washington, DC, October 13-17, 2012.

“Practical Pediatric Regional Anesthesia”, Refresher Course, American Society of Anesthesiologists Annual Meeting, Washington, DC, October 13-17, 2012.

“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”, Workshop, American Society of Anesthesiologists Annual Meeting, Washington, DC, October 13-17, 2012.

“Practical Pediatric Regional Anesthesia” Grand Rounds, Virginia Commonwealth University, Richmond, VA, October 18, 2012.

“Pediatric Pain & Regional Anesthesia”, Regional Anesthesia & Pain Medicine 2012, Toronto Western Hospital, Niagara-on-the-Lake, Ontario, Canada, October 25-28, 2012.

“Perioperative Pain Treatment in Challenging Patients”, Discussion with the Experts, Toronto Western Hospital, Niagara-on-the-Lake, Ontario, Canada, October 25-28, 2012.

“Pediatrics” Workshop, Toronto Western Hospital, Niagara-on-the-Lake, Ontario, Canada, October 25-28, 2012.

“Excellence in Regional Anesthesia – Ultrasound Techniques” Workshop, American Society of Regional Anesthesia & Pain Medicine, Chicago, IL, November 3-4, 2012.

“Ultrasound Workshop”, ASRA 11<sup>th</sup> Annual Pain Medicine Meeting, Miami, FL, November 15-18, 2012.

“Ultrasound in Pain Medicine Trunk: Sonoanatomy and Injection Techniques”, Special Session Workshop: Ultrasound in Pain Medicine, ASRA 11<sup>th</sup> Annual Pain Medicine Meeting, Miami, FL, November 15-18, 2012.

“Ultrasound in Pain Medicine, Intercostal, Ilioinguinal, Iliohypogastric, Lateral Femoral Cutaneous”, Special Session Workshop: ASRA 11<sup>th</sup> Annual Pain Medicine Meeting, Miami, FL, November 15-18, 2012.

“Ultrasound Guided Peripheral Nerve Blocks: Ilioinguinal, Intercostal, Lateral femoral Cutaneous, Saphenous”, ASRA 11<sup>th</sup> Annual Pain Medicine Meeting, Miami, FL, November 15-18, 2012.

“Ultrasound Guided Peripheral Nerve Blocks”, ASRA 11<sup>th</sup> Annual Pain Medicine Meeting, Miami, FL, November 15-18, 2012.

“Regional Anesthesia in Infants, Children and Adolescents”. Grand Rounds, Department of Anesthesiology, Loyola University Medical Center, Maywood, IL, November 28, 2012.

“Modern Pain Management and Blocks”, AAOS/Ota Strategies and Tactics in Orthopaedic Extremity Trauma Course, Rosemont, IL, November 29, 2012.

“Pediatric Pain Management – What is Best Practice?”, Workshop, The New York State Society of Anesthesiologists, 66<sup>th</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 14-15, 2012.

“Anesthetic Management of the Pediatric Patient with Coexisting Disease” Panel Moderator and Speaker, The New York State Society of Anesthesiologists, 66<sup>th</sup> Annual Post Graduate Assembly in Anesthesiology. New York City, NY, December 14-15, 2012.



*February, 2013*