

**CURRICULUM VITAE (abridged)**  
**University of Pittsburgh**  
**School of Medicine**

**BIOGRAPHICAL**

<b>Name:</b>	Brian A. Williams	<b>Birth Date:</b>	January 26, 1967
<b>Home Address:</b>	106 Oak Glen Drive Oakmont, PA 15139	<b>Birth Place:</b>	Saginaw, MI
<b>Home Phone:</b>	(412)826-8883	<b>Citizenship</b>	USA
<b>Business Address:</b>	UPMC-South Side Department of Anesthesiology 2000 Mary Street, Suite 2100 Pittsburgh, PA 15203	<b>E-mail Address</b>	Williamsba @anes.upmc.edu
<b>Business Phone:</b>	(412) 488-5799	<b>Business Fax:</b>	(412) 488-5796

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**EDUCATION AND TRAINING**

**UNDERGRADUATE:**

1985-1988	Kent State University Kent, Ohio	B.S., May, 1991 Integrated Life Sciences
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**GRADUATE:**

1987-1991	Northeastern Ohio Universities College of Medicine	M.D. June 1991
1995-1996	University of Pittsburgh Katz Graduate School of Business Pittsburgh, PA	M.B.A. June 1996

**POSTGRADUATE:**

1991-1992	Mercy Hospital of Pittsburgh Pittsburgh, PA	Internship K. Mohn, M.D.
1992-1995	University of Pittsburgh School of Medicine Pittsburgh, PA	Anesthesiology Residency Peter Winter, M.D.
1995-1996	University of Pittsburgh School of Medicine Pittsburgh, PA	Schertz Fellowship Department of Anesthesiology Peter Winter, M.D.

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## APPOINTMENTS AND POSITIONS

### ACADEMIC:

7/96-10/96	University of Pittsburgh School of Medicine Department of Anesthesiology Pittsburgh, PA	Instructor
11/96-4/03	University of Pittsburgh School of Medicine Department of Anesthesiology Pittsburgh, PA	Assistant Professor
5/03-present	University of Pittsburgh School of Medicine Department of Anesthesiology Pittsburgh, PA	Associate Professor

### NON-ACADEMIC:

7/96-3/01	UPMC Montefiore Department of Anesthesiology 200 Lothrop Street, N-463 Pittsburgh, PA 15213	Staff Anesthesiologist
11/96-6/97	UPMC Beaver Valley Department of Anesthesiology 2500 Hospital Drive Aliquippa, PA 15001	Staff Anesthesiologist
4/01-present	UPMC South Side Department of Anesthesiology 2000 Mary Street Pittsburgh, PA 15203	Staff Anesthesiologist

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## CERTIFICATION AND LICENSURE

### SPECIALTY CERTIFICATION:

National Board of Medical Examiners (398730)	1992
Diplomate, American Board of Anesthesiology (28484)	1996

### MEDICAL OR OTHER PROFESSIONAL LICENSURE:

Pennsylvania Medical License (MD-054822-L)	1994
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## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Society of Anesthesiologists	1992-present
International Anesthesia Research Society	1994-present
Society for Ambulatory Anesthesia	1995-present
Society for Orthopedic Anesthesia, Pain, and Rehabilitation	2004-present
American Society for Regional Anesthesia	1994-present
Western Pennsylvania Society of Anesthesiologists	1992-present
Medical Outcomes Trust	1999-present
American Medical Association	1989-1999
Pennsylvania Medical Society	1991-1999, 2001-present
Allegheny County (PA) Medical Society	1991-1999

## HONORS

Alpha Omega Alpha Honor Medical Society	1991-present
Beta Gamma Sigma Honor Business Administration Society	1996-present
Society for Ambulatory Anesthesia Young Investigator Award	1996-1997
International Anesthesia Research Society Clinical Scholar Award	2001-2003
National Institutes of Health (NIAMS) Research Career Award	2001-2006
Nominee - American Society of Anesthesiologists Presidential Scholar Award	2003

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## PUBLICATIONS

### A. Refereed Articles

1. Williams BA, Green JM, Stapelfeldt WH: Snoring and sleep apnea as risk factors for perioperative postobstructive pulmonary edema. With editorial. *American Journal of Anesthesiology*, 24(2):89-93, 1997.
2. Williams BA, Starling S, Bircher NG, Wilks DH, Watkins WD: Optimization of anesthesia staffing using simulation modeling. With editorial. *American Journal of Anesthesiology* 25(3):113-120, 1998.
3. Williams BA, DeRiso BM, Engel LB, Figallo CM, Anders JW, Sproul KA, Ilkin H, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Benchmarking the perioperative process: II. Introducing anesthesia clinical pathways to improve processes and outcomes, and reduce nursing labor intensity in ambulatory orthopedic surgery. *Journal of Clinical Anesthesia* 10:561-569, 1998.
4. Williams BA, DeRiso BM, Figallo CM, Anders JW, Engel LB, Sproul KA, Ilkin H, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Benchmarking the perioperative process: III. Effects of regional anesthesia clinical pathway techniques on process efficiency and recovery profiles in ambulatory orthopedic surgery. *Journal of Clinical Anesthesia* 10:570-578, 1998.
5. Williams BA, Kentor ML, Williams JP, Figallo CM, Sigl JC, Anders JW, Bear TC, Tullock WC, Bennett CH, Harner CD, Fu FH. Process analysis in outpatient knee surgery: The effects of regional and general anesthesia on anesthesia-controlled time. *Anesthesiology* 93:529-538, 2000.
6. Coley KC, Williams BA, DaPos SV, Chen C, Smith RB. Retrospective evaluation of unanticipated admissions and readmissions after same day surgery and associated costs. *Journal of Clinical Anesthesia* 14:349-353, 2002.
7. Williams BA, Kentor ML, Williams JP, Vogt MT, DaPos SV, Harner CD, Fu FH. PACU bypass after outpatient knee surgery is associated with fewer unplanned admissions but more phase II nursing interventions. *Anesthesiology* 97:981-988, 2002.
8. Williams BA, Kentor ML, Vogt MT, Williams JP, Chelly JE, Valalik S, Harner CD, Fu FH. Femoral-sciatic nerve blocks for complex outpatient knee surgery are associated with less postoperative pain before same-day discharge: A review of 1,200 consecutive cases from the period 1996–1999. *Anesthesiology* 98: 1206-1213, 2003.
9. Nishio I, Williams BA, Williams JP. Diplopia, a complication of dural puncture. *Anesthesiology*; 100(1):158-164, 2004
10. Williams BA, Kentor ML, Vogt MT, Vogt WB, Coley KC, Williams JP, Roberts MS, Chelly JE, Harner CD, Fu FH. The economics of nerve block pain management after anterior cruciate ligament reconstruction: Hospital cost savings via associated PACU bypass and same-day discharge. *Anesthesiology*, 2004; 100:697–706
11. Williams BA, Vogt MT, Kentor ML, Figallo CM, Kelly MD, Williams JP. Nausea and vomiting after outpatient ACL reconstruction with regional anesthesia: Are lumbar plexus blocks a risk factor? *Journal of Clinical Anesthesia*, 16:276-281, 2004 (July).
12. Gerancher JC, Viscusi ER, Liguori GA, McCartney CJ, Williams BA, Ilfeld BM, Grant SA, Hebl JR, Hadzic A. Development of a standardized peripheral nerve block procedure note form. *Reg Anesth Pain Med* 30(1): 67-71, 2005.
13. Hadzic A, Williams BA, Karaca PE, Hobeika P, Unis G, Dermksian J, Yufa M, Thys DM, Santos AC: For outpatient rotator cuff surgery, nerve block anesthesia provides superior same-day recovery over general anesthesia. *Anesthesiology* 102(5): 2005; in press (May).

## B. Reviews

1. Williams BA, Bennett CH, Harner CD. Anesthesia and analgesia for management of stiff and painful knees. *Sports Medicine and Arthroscopy Review* 6:199-206, 1998
2. Williams BA and Kentor ML. Clinical pathways and the anesthesiologist. *Current Anesthesiology Reports* 2:418-424, 2000.
3. Williams BA and Kentor ML. Making an ambulatory surgery center suitable for regional anaesthesia. *Bailliere's Best Practice and Research Clinical Anaesthesiology* 16(2):175-194, 2002.
4. Chelly JE, Delaunay L, Williams B, Borghi B. Outpatient lower extremity infusions. *Bailliere's Best Practice and Research Clinical Anaesthesiology* 16(2):311-320, 2002.
5. Chelly JE, Ben-David B, Williams BA, Kentor ML. Anesthesia and postoperative analgesia: Outcomes following orthopedic surgery. *Orthopedics* 26(8):865-871, 2003 (supplement)
6. Williams BA, Spratt D, Kentor ML. Continuous nerve blocks for outpatient knee surgery. *Techniques in Regional Anesthesia and Pain Management* 8(2): 76-84, 2004.
7. Williams BA. The rationale for a symposium issue on regional anesthesia in ambulatory surgery. *International Anesthesiology Clinics* 2005, 43(3): in press.
8. Williams BA, Beaman ST, Kentor ML. Regional anesthesia group practice in the university hospital setting, and ambulatory/regional anesthesia clinical pathway formulation. *International Anesthesiology Clinics* 2005, 43(3): in press.
9. Greger JR, Williams BA. Billing for outpatient regional anesthesia services in the United States. *International Anesthesiology Clinics* 2005, 43(3): in press.
10. Williams BA, Motolenich PM, Kentor ML. Hospital facilities and resource management: Economic impact of a high-volume regional anesthesia program for outpatients. *International Anesthesiology Clinics* 2005, 43(3): in press.
11. Julien R, Williams BA. Regional anesthesia procedures for outpatient shoulder surgery. *International Anesthesiology Clinics* 2005, 43(3): in press.
12. Williams BA, Matusic B, Kentor ML. Regional anesthesia procedures for ambulatory knee surgery: Effects on in-hospital outcomes. *International Anesthesiology Clinics* 2005, 43(3): in press.
13. Kentor ML, Williams BA. Antiemetics in outpatient regional anesthesia for invasive orthopedic surgery. *International Anesthesiology Clinics* 2005, 43(3): in press.

## C. Book Chapters

1. Williams BA and Kentor ML. "Posterior Lumbar Plexus Block." In: *Peripheral Nerve Blocks*, Second Edition. Jacques E. Chelly, editor. Lippincott, Williams, and Wilkins, 2003.
2. Williams BA, Kentor ML, and Chelly JE. "Cost-Benefit and Cost-Utility Analyses: Outpatient Implications" (Part II, Chapter 14). In: Steele, SM, Nielsen KC, Klein, SM, eds. *Ambulatory Anesthesia and Perioperative Analgesia*, 1st ed. New York, NY: McGraw-Hill; 2004.
3. Williams BA, and Sakai T. "Complications that can arise in orthopedic patients when regional anesthesia is not used." In: *Complications in Anesthesia*, Second Edition. John L. Atlee, editor. Elsevier, in press, 2005.
4. Williams BA. "Pharmacoeconomics Of Regional Anesthesia: Implications in Ambulatory Orthopedic Surgery and Hospital Admission / Early Rehabilitation" (Part XIV, Chapter 76). In: *Modern Regional Anesthesia*. Admir Hadzic, editor. New York, NY: McGraw-Hill. Chapter in review.

## D. Manuscripts Submitted

1. Williams BA, Weller RS, Gerancher JC, Franco CD, Figallo CM, Vogt MT. A novel peri-jugular upper trunk approach to the brachial plexus block: An alternative to the classic interscalene block. Submitted to *Regional Anesthesia and Pain Medicine*, 2003.
2. Williams BA, Kentor ML, Figallo CM, Vogt MT. Longer block duration is associated with lower verbal pain scores after single-injection nerve blocks resolve at home: Results of a survey of 380 patients undergoing shoulder and complex knee surgery in 1998-1999. Submitted to *Regional Anesthesia and Pain Medicine*, 2003.
3. Williams BA, Vogt MT, Irrgang JJ, Dang Q, Rubio DM, Bottegal MT. Evaluating the use of the SF-8 to assess general health status before and after outpatient regional anesthesia. Submitted to *Anesthesia & Analgesia*, 2005.

## E. Published abstracts

1. Williams BA, Bircher NG, Watkins WD, Wilks DH, Gunnerson HB, Schwartz RB, Pearson CL, Watkins WD.:Supernumerary anesthesia providers decrease billing times for knee surgery patients. *American Journal of Anesthesiology* 22:292-293, 1995.
2. Williams BA, Bircher NG, Watkins WD, Wilks DH, Gunnerson HB, Schwartz RB, Pearson CL, Watkins WD: Supernumerary anesthesia providers decreased frequency of overrun in operating rooms. *American Journal of Anesthesiology* 22:293,328, 1995.
3. Williams BA, Bircher NG, Wilks DH, Watkins WD.: Strategic staffing of extra anesthesia providers decreases the time interval from patient in room until procedure start time. *American Journal of Anesthesiology* 23:271, 1996.
4. Williams BA, Bircher NG, Wilks DH, Watkins WD.: Strategic staffing of extra anesthesia providers, and the increased time taken by providers during the interval from patient out of room to anesthesia finish. *American Journal of Anesthesiology* 23:270, 1996.
5. Williams BA, Starling SL, Bircher NG, Wilks DH, Pearson CL, Watkins WD. Strategic staffing of extra anesthesia care providers to minimize personnel costs. *American Journal of Anesthesiology* 24:7-8, 1997.
6. Williams BA, Bircher NG, Wilks DH, Fischer D, Gibble S, Harris L, Sassaman T, Watkins WD.: Strategic staffing of extra anesthesia providers for knee arthroscopy operating rooms significantly decreases room turnover time: A regression analysis. *American Journal of Anesthesiology* 24:187-188, 1997.
7. Williams BA, Arnold JL, Figallo CM, Tullock WC, DeRiso BM, Watkins WD. Regional anesthesia clinical pathways for anterior cruciate ligament reconstruction decrease unexpected admission rates due to anesthesia complications. *Anesthesia & Analgesia* 86(2S): S21, 1998
8. Williams BA, Ilkin H, Sproul KA, Chen WX, DeRiso BM, Watkins WD. Anesthesia clinical pathways for same-day anterior cruciate ligament reconstruction decrease times to discharge home. *Anesthesia & Analgesia* 86(2S): S22, 1998
9. Williams BA, Alpers J, Figallo CM, Anders J, DeRiso BM, Watkins WD. Turnover time effects of regional anesthesia clinical pathways for anterior cruciate ligament reconstruction. *Anesthesia & Analgesia* 86(2S): S20, 1998
10. Williams BA, Kentor ML, Figallo CM, Bear TC, Anders JW. Same-day discharge after invasive knee surgery as a result of perioperative femoral and sciatic nerve blocks. *Anesthesia & Analgesia* 87(2S): S235, 1999
11. Williams BA, Kentor ML, Figallo CM, Anders JW, Metro D, Kubit V. Fewer nursing interventions and lower symptom frequency after anterior cruciate ligament reconstruction with nerve block analgesia. *Anesthesia & Analgesia* 87(2S): S284, 1999
12. Williams BA, Kentor ML, Figallo CM, Bear TC, Scaringe D, Salamie G. Turnover time does not predict surgical down-time in outpatient regional anesthesia practice. *Anesthesia & Analgesia* 87(2S): S35, 1999
13. Williams BA, Kentor ML, Toshok R, Figallo CM, Costello D. Anesthesia clinical pathways improve resource utilization and perioperative care. *Anesthesiology* 91(3A): A29, 1999
14. Williams BA, Kentor ML, Figallo CM, Kubit V, Metro D. Does anesthetic technique influence surgical procedure time? *Anesthesiology* 91(3A): A42, 1999
15. Scaringe DA, Williams BA, DaPos S, Figallo CM, Kentor ML. Are there financial disincentives with regional anesthesia in outpatient orthopedic procedures? *Anesthesiology* 91(3A): A21, 1999
16. Williams BA, Kentor ML, Williams JP, Roberts MS, Vogt MT. Cost-benefit ratios of anesthesia techniques for outpatient ACL reconstruction. *Anesthesiology* 93(3A): A29, 2000
17. Williams BA, Vogt MT, Irrgang JJ, Francis KA, Figallo CM, Harner CD. Outcomes after ACL reconstruction: Effect of femoral nerve block analgesia. *Anesthesia & Analgesia* 94(2S): S-350, 2002.
18. Williams BA, Kentor ML, Williams JP, Vogt MT, Figallo CM. Criteria for PACU bypass after regional anesthesia: Evaluation of outcomes. *Anesthesia & Analgesia* 94(2S):S-18, 2002.
19. Williams BA, Kentor ML, Vogt MT, DaPos SV. Categorizing surgical invasiveness in outpatient knee surgery, and same-day discharge with nerve block analgesia. Regional Anesthesia and Pain Medicine, 2002 (abstract published on CD-ROM corresponding to the 2002 annual meeting of the American Society of Regional Anesthesia and Pain Medicine).

20. Williams BA, Figallo CM. A novel peri-jugular approach to the brachial plexus block for shoulder surgery: A report of 142 cases. *Regional Anesthesia and Pain Medicine*, 2002 (abstract published on CD-ROM corresponding to the 2002 annual meeting of the American Society of Regional Anesthesia and Pain Medicine).
21. Williams BA, Vogt MT, Irrgang JJ, Francis KA, Figallo CM, Harner CD. Outcomes after ACL reconstruction: Effect of femoral nerve block analgesia. *Anesthesia & Analgesia*, 2003 (abstract published on CD-ROM corresponding to the 2003 annual meeting of the International Anesthesia Research Society).
22. Williams BA, Vogt MT, Irrgang JJ, Francis KA, Figallo CM, Harner CD. Outcomes after ACL reconstruction: Effect of femoral nerve block analgesia. *Anesthesia & Analgesia*, 2004 (abstract published on CD-ROM corresponding to the 2004 annual meeting of the International Anesthesia Research Society).

## **F. Other Publications**

### **Invited Editorials**

1. Chelly JE, Williams BA. Continuing perineural infusions at home: Narrowing the focus. Invited editorial for Ilfeld BM, Morey TE, Wright TW, Chidgey LK, Enneking FK: Interscalene perineural ropivacaine infusion: A comparison of two dosing regimens for postoperative analgesia. *Regional Anesthesia and Pain Medicine* 29(1): 1-3, 2004.
2. Williams BA. For outpatients, does regional anesthesia truly shorten the hospital stay, and do the phases of recovery matter? Invited editorial for Hadzic et al., A comparison of infraclavicular nerve block versus general anesthesia for hand and wrist surgery in day-case surgery. *Anesthesiology* 101(1): 3-6, 2004

### **Letters to the Editor / Replies:**

1. Williams BA, Kentor ML, and Williams JP. The costs of medicare compliance, in reply. *Anesthesiology* 94: 938, 2001.
2. Williams BA and Hadzic A. Anesthesia for outpatient surgery: How fast is fast? In reply. *Anesthesiology* 102(3): 695, 2005.

### **Poster presentations at scientific meetings:**

1. Williams BA, Bircher NG, Wilks DH, Gunnerson HB, Schwartz RB, Pearson CL, Watkins WD.: Supernumerary anesthesia providers decrease anesthesia and primary recovery and total anesthesia billing times for knee surgery patients. Poster presentation at the 1995 Annual Meeting of the Society for Ambulatory Anesthesia, Palm Springs, CA.
2. Williams BA, Bircher NG, Wilks DH, Gunnerson HB, Schwartz RB, Pearson CL, Watkins WD.: Supernumerary anesthesia care providers do not assure anesthesia and operating room efficiency. Poster presentation at the 1995 Annual Meeting of the Society for Ambulatory Anesthesia, Palm Springs, CA.
3. Williams BA, Bircher NG, Wilks DH, Watkins WD.: Strategic staffing of extra anesthesia providers converts the room turnover process into one within statistical control. Presented at the 1996 Annual Meeting of the Society for Ambulatory Anesthesia, Boston, MA.
4. Williams BA, Bircher NG, Wilks DH, Watkins WD. Strategic staffing of extra anesthesia providers increases the time taken by providers for PACU transport and signout. Presented at the 1996 Annual Meeting of the Society for Ambulatory Anesthesia, Boston, MA.
5. Williams BA, Cantees KK, Engel LB, Hudson M, Tullock WC, Figallo CM, Sproul KA, Levin SC, Chen WX, Fu FH, Harner CD, NJ Nagarajan, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction decrease perioperative anesthesia pharmacy and supply costs. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
6. Williams BA, Cantees KK, Engel LB, Ruskewicz G, Arnold JL, Dean V, Alpers J, Duarte CA, Sproul KA, Figallo CM, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction decrease recovery times. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.

7. Williams BA, Cantees KK, Engel LB, Alpers J, Tullock WC, Levin SC, Green BJ, Ruskewicz G., Arnold JL, Dean V, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction and the potential for reengineering the recovery process. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
8. Williams BA, Cantees KK, Engel LB, Ruskewicz G, Green BJ, Arnold JL, Dean V, Ilkin H, Figallo CM, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction decrease postoperative nursing labor intensity. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
9. Williams BA, Cantees KK, Engel LB, Alpers J, Green BJ, Bucci K, Sproul, Utiss SP, Barger S, Fu FH, Harner CD, Nagarajan NJ, Evans III JH, Watkins WD. Epidural anesthesia decreases anesthesia-controlled time from patient-in-room to prep and position start. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
10. Williams BA, Cantees KK, Engel LB, Tullock WC, Ruskewicz G, Green BJ, Arnold JL, Dean V, Krugh JW, Fu FH, Harner CD, Nagarajan NJ, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction decrease unexpected admission rates due to anesthesia complications. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
11. Williams BA, Cantees KK, Engel LB, Green BJ, Duarte CA, Sproul KA, Figallo CM, Gyulai F, Planinsic R, Fu FH, Harner CD, Nagarajan NJ, Evans III JH, Watkins WD. Regional anesthesia and the increased time from anesthesia start to patient-in-room. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
12. Williams BA, Cantees KK, Engel LB, Ilkin H, Krugh JW, Figallo CM, Sproul KA, Barger S, Utiss SP, Harner CD, Fu FH, Nagarajan NJ, Evans III JH, Watkins WD. Anesthesia clinical pathways for anterior cruciate ligament reconstruction do not increase surgeon-controlled times. Presented at the 1997 Annual Meeting of the Society for Ambulatory Anesthesia, Orlando, FL.
13. Williams BA, Kentor ML, Figallo CM, Engel LB, DeRiso BM. Significant reductions of unexpected admissions after arthroscopic reconstructive knee surgery as influenced by intraoperative spinal anesthesia. Presented at the 1998 Annual Meeting of the Society for Ambulatory Anesthesia, Scottsdale, AZ.
14. Williams BA, Kentor ML, Tullock WC, Figallo CM, Engel LB, DeRiso BM, Harner CD, Fu FH. Same-day discharge after invasive knee surgery as a result of perioperative femoral and sciatic nerve blocks. Presented at the 1998 Annual Meeting of the Society for Ambulatory Anesthesia, Scottsdale, AZ.
15. Williams BA, Kentor ML, Figallo CM, Engel LB, DeRiso BM. Reductions of postoperative nurse staffing labor intensity as a result of PACU bypass. Presented at the 1998 Annual Meeting of the Society for Ambulatory Anesthesia, Scottsdale, AZ.
16. Williams BA, Kentor ML, Bloom MJ, Figallo CM, Engel LB, DeRiso, BM. Recovery profiles after outpatient knee arthroscopy as influenced by intraoperative anesthetic and Bispectral Index EEG monitoring. Presented at the 1998 Annual Meeting of the Society for Ambulatory Anesthesia, Scottsdale, AZ.
17. Williams BA, Kentor ML, Figallo CM, Engel LB, DeRiso BM. Turnover time analysis in outpatient anterior cruciate ligament reconstruction: effects of regional anesthesia clinical pathways and other perioperative staffing alterations. Presented at the 1998 Annual Meeting of the Society for Ambulatory Anesthesia, Scottsdale, AZ.
18. Williams BA, Metro D, Kubit V, Figallo CM, Salamon A, Kentor ML. Postoperative pain and unplanned admissions after general versus neuraxial anesthesia with and without femoral nerve block for outpatient anterior cruciate ligament reconstruction. Presented at the 1999 Annual Meeting of the Society for Ambulatory Anesthesia, Seattle, WA.

#### **Invited Contributions to, and Features In, Newsletters and Other Media**

1. *Anesthesiology News* 21 (9), September 1995. Strategic Staffing and Cost-Effectiveness: Efficiency of Adding Extra Anesthesia Provider to Operating Rooms Examined. Lead Story on Cover Page.
2. *Anesthesiology News* 24 (11), November 1998. Patient Stratification, Regional Anesthesia Help Bypass PACU. Pages 12-13.
3. *SAMBA Talks* e-Newsletter, 2(21) February 2004. Medical Necessity of Nerve Blocks for Pain Control. Page 1, Reply 2. <http://www.sambahq.org/professional-info/enews-Feb-2004-part1.html>
4. *OR Manager*, June 2004, Volume 20, Issue number 6, pp 1,9-12. Regional Anesthesia has Strong Outcomes for Care, Efficiencies. [www.ormanager.com](http://www.ormanager.com). Contact person: Pat Patterson, Editor
5. *Same-Day Surgery*, June 2004, Volume 28, Issue number 6, pp 61-64. Anesthetists Tout Post-Op Nerve Blocks, but Who's Going to Pay? Contact person: Joy Dickinson, Senior Managing Editor

6. *Ambulatory Anesthesia*, October 2004, Volume 19, Issue number 4, p3. Peripheral Regional Anesthesia: New Insights into Clinical and Economic Advantages. Feature author: James B. Mayfield, MD, Vice-Chair of Anesthesiology, Medical College of Georgia. This is a summary of my lecture given at the 2004 annual meeting of the Society for Ambulatory Anesthesia.

## PROFESSIONAL ACTIVITIES

### RESEARCH:

#### A. Current Grants

2001-2006

**National Institutes of Health (NIH), National Institute of Arthritis, Musculoskeletal Disease, and Diseases of the Skin (NIAMS), K-23 Research Career Award (K23 AR47631):** \$770,850. 80% professional effort Principal investigator for "Outcomes after ACL reconstruction; effect of femoral nerve block analgesia." Underwrites professional effort and career development of the principal investigator, and the costs of the patient-reported outcome surveys. Funded, effective 4/1/01.

#### B. Seminars and invited lectureships related to your research

1. Anesthesia Clinical Pathways in Ambulatory Orthopedics at the University of Pittsburgh Medical Center.
  - Invited lecture at the Western Pennsylvania Society of Anesthesiologists, September 18, 1997.
  - Departmental Anesthesiology Grand Rounds, November 6, 1997
2. Anesthesia clinical pathways improve resource utilization and perioperative care
3. Does anesthetic technique influence surgical procedure time?
4. Are there financial disincentives with regional anesthesia in outpatient orthopedic procedures?
  - Departmental Anesthesiology Grand Rounds, September 30, 1999
    - Grand Rounds dedicated to ASA abstract rehearsals
5. Outcomes after ACL reconstruction
  - Invited lecture at the University of Pittsburgh Center for Research on Health Care, March 17, 2000.
6. Pain Management after Anterior Cruciate Ligament Reconstruction
  - Invited lecture at the University of Pittsburgh Panther Sports Medicine Symposium, May 5, 2000.
7. Making an ambulatory surgery center regional anesthesia-friendly.
  - Departmental Anesthesiology Grand Rounds, September 28, 2000
    - Grand Rounds dedicated to ASA abstract rehearsals
8. Cost-benefit ratios of anesthesia techniques for outpatient ACL reconstruction.
  - Departmental Anesthesiology Grand Rounds, October 6, 2000
    - Grand Rounds dedicated to ASA abstract rehearsals
9. How to Make Your Ambulatory Surgery Center Regional Anesthesia-Friendly.
  - Invited lecture and panelist at the Society for Ambulatory Anesthesia section of the American Society of Anesthesiologists, October 17, 2000. San Francisco, CA
10. Board Certified Anesthesiologist with an MBA: Now What Do I Do?
  - Invited lecture at the Stanford University Anesthesiology Fellowship in Perioperative Management, October 17, 2000. Palo Alto, CA
11. Outcome and Benefits of Peripheral Nerve Blocks.
  - Invited syllabus contribution for the 2001 International Symposium of Regional Anesthesia, New Orleans, LA (course director: Jacques Chelly, MD, Ph.D., MBA, Univ. of Texas at Houston)
12. New School Brachial Plexus: Perijugular and Inter-Sternocleidomastoid Nerve Blocks."
  - Invited workshop presentation for the 2002 American Society of Regional Anesthesia and Pain Medicine, Chicago, IL (Workshop coordinator, JC Gerancher, MD, Wake Forest University)

13. How to Introduce Peripheral Nerve Blocks in Clinical Practice: Point of View of the Anesthesiologist
14. Lumbar Plexus and Sciatic Nerve Block Workshop
  - Invited lectures for the 4<sup>th</sup> International Symposium of Regional Anesthesia (October 11, 2002), Orlando, FL (course director: Jacques Chelly, MD, Ph.D., MBA, Univ. of Pittsburgh)
15. Fast Tracking in Ambulatory Anesthesia.
  - Invited presentation for the 16<sup>th</sup> Annual Clinical Anesthesia Update, sponsored by the UMD-New Jersey Medical School Department of Anesthesiology. November 16, 2002, Newark, NJ (course director: Geordie Grant, MD, UMDNJ)
16. Accelerated Postoperative Recovery Programs: Clinical Pathways for Major Joint Surgery.
  - Invited Master Class presentation (with Patrick McQuillan, MD) for the 2003 Annual Meeting of the American Society of Regional Anesthesia and Pain Medicine. Thursday, April 3, 2003, San Diego, CA (course director: JC Gerancher, MD, Wake Forest University) (written syllabus and slide presentation provided, but unable to attend due to pending birth of third child)
17. Regional Anesthesia and OR Management - Cost and Efficiency.
  - Invited General Session presentation for the 2003 Annual Meeting of the American Society of Regional Anesthesia and Pain Medicine. Saturday, April 5, 2003, San Diego, CA (course director: JC Gerancher, MD, Wake Forest University) (written syllabus and slide presentation provided, but unable to attend due to pending birth of third child)
18. Joint Replacement and Outcome.
  - Invited presentation at the 5th International Symposium of Regional Anesthesia, October 10, 2003, San Francisco, CA (course director: Jacques Chelly, MD, Ph.D., MBA, Univ. of Pittsburgh).
19. Regional Anesthesia, PACU Bypass, and Hospital Cost Savings
  - Invited Grand Rounds presentation at the Hospital for Special Surgery, New York, November 13, 2003 (invited by the Department Chair, Gregory Liguori, MD).
20. How Can We Increase the Use of Continuous Peripheral Nerve Blocks in the Ambulatory Setting?"
  - Invited presentation at the Louisiana State University Health Sciences Center CME program "Anesthesiology Update," New Orleans, LA, January 24, 2004.
21. Continuous Peripheral Nerve Blocks in the Ambulatory Setting
22. Billing for Continuous Peripheral Nerve Blocks
  - Presentations at the UPMC-Shadyside CME program "Regional Anesthesia & Continuous Infusions," Pittsburgh, PA, January 31, 2004
23. General session lecture: Ambulatory Outcomes: PONV in Outpatient Regional Anesthesia Practice
24. Master Class: Optimizing billing and compliance
25. Consensus conference: Regional anesthesia in the immunocompromised patient
  - Invited presentations at the annual meeting of American Society of Regional Anesthesia and Pain Management, Orlando, FL, March 11-13, 2004 (invited by Joseph Neal, MD).
26. General Session Moderator: Regional Anesthesia
27. General Session Lecture: Economic Issues and Patient Outcomes in Outpatient Regional Anesthesia
28. Workshop: Fundamentals of Upper Extremity Nerve Blocks
  - Presentations at the annual meeting of Society for Ambulatory Anesthesia, Seattle, WA, April 29 – May 2, 2004 (Invited by Lucinda Everett, MD).
29. Billing for Continuous Peripheral Nerve Blocks
  - Presentation at the Sixth Regional Anesthesia International Symposium (and Second Orthopedic Anesthesia, Pain, and Rehabilitation Symposium). October 22, 2004, Las Vegas, NV. Invited by Jacques E. Chelly, MD

30. General Session Moderator: Panel on Regional Anesthesia
  - 3 moderated presentations at the mid-year meeting of Society for Ambulatory Anesthesia, Las Vegas, NV; October 22, 2004. Invited by Ronald Litman, DO.
31. Grand Rounds: Economic Issues and Patient Outcomes in Outpatient Regional Anesthesia
32. Journal Club: Outcomes That Are Important To Patients, and Where Regional Anesthesia Fits In
  - Visiting Professorship at the University of Cincinnati, November 16-17, 2004
  - Invited by William E. Hurford, MD, FCCM, Professor and Chair
33. How Can We Increase the Use of Continuous Peripheral Nerve Blocks in the Ambulatory Setting?
34. Economic Issues and Patient Outcomes in Outpatient Regional Anesthesia
35. Workshop: Lower Extremity Regional Anesthesia.
  - Colorado Review of Anesthesia and Ski Holiday, Vail, CO; February 28 – March 1, 2005
  - Invited by Drs. Rita Agarwal; recommended by Drs. Joy Hawkins, Thomas Henthorn, and Roger Mattison.
36. General Session Lecture: Economic Issues and Patient Outcomes in Outpatient Regional Anesthesia
37. Workshop: Femoral and Sciatic Nerve Blocks
  - International Symposium of Peripheral Nerve Blocks; George Washington University, Washington, DC, April 2, 2005 (anticipated)
  - Invited by Dina Soliman, MD
38. Workshop: Regional Anesthesia - Single Injection and Catheter Techniques for Lower Extremity Blocks
39. General Session Panel Moderator: Regional Anesthesia (3 lectures)
40. Logistics for Regional Anesthesia
  - Society for Ambulatory Anesthesia Annual Meeting, May 12-15, 2005 (anticipated), Scottsdale, AZ
  - Invited by Lucinda Everett, MD, Annual Meeting Chair
41. Perineural catheters for managing pain after ambulatory surgery.
  - Panel membership and lecture invited by the ASA Committee on Ambulatory Surgical Care, American Society of Anesthesiologists annual meeting, October 2005, New Orleans, LA
  - Invited by J. Lance Lichtor, MD
42. Economic Evaluation of Peripheral Nerve Block Programs
  - Panel moderator and lecture invited by the American Society for Regional Anesthesia and Pain Medicine (ASRA) Annual Meeting Chair (Admir Hadzic, MD, PhD), pending confirmation.

### **C. Other research-related activities**

#### Inited Manuscript Reviews:

- 1999: Anesthesia & Analgesia (1)  
Journal of Clinical Anesthesia (1)
- 2000: Journal of Clinical Anesthesia (1)
- 2001: Anesthesiology (3)  
Journal of Clinical Anesthesia (1)
- 2002: Anesthesiology (1)  
Journal of Clinical Anesthesia (1)  
Anesthesia and Analgesia (3)
- 2003: Anesthesiology (2)  
Journal of Clinical Anesthesia (1)  
Anesthesia and Analgesia (3)  
Regional Anesthesia and Pain Medicine (2)
- 2004: Anesthesia and Analgesia (6)  
Anesthesiology (4)  
Journal of Clinical Anesthesia (1)
- 2005: Anesthesia and Analgesia (2)  
Anesthesiology (1)

**D. Previous Grants, Funded Years, Inclusive Grant Title, Role in Project, Percent Effort**

1993

**Anesthesiology News Cost Effectiveness Award:** \$1000

Principal investigator for "Supernumerary anesthesia care providers do not assure anesthesia and operating room efficiency."

1994

**Western Pennsylvania Society of Anesthesiologists, Resident Research Competition:** \$500

First author for "Snoring and sleep apnea as risk factors for perioperative postobstructive pulmonary edema."

1995

**Western Pennsylvania Society of Anesthesiologists, Resident Research Competition:** \$500

Principal investigator for "Supernumerary anesthesia care providers do not assure anesthesia and operating room efficiency."

1995-1996

**Anesthesiology News Cost Effectiveness Award:** \$5000.

Principal investigator for "Ambulatory surgery process management using activity-based costing: a prospective analysis of anesthetic techniques for knee arthroscopy patients from admission to discharge."

1996-1997

**Society for Ambulatory Anesthesia Young Investigator Award:** \$25,000. Principal investigator for "Ambulatory surgery process management using activity-based costing: a prospective analysis of anesthetic techniques for knee arthroscopy patients from admission to discharge." 60% of professional effort.

1997-1998

**University Anesthesiology Seed Grant:** \$8000.

Principal investigator for "Benchmarking orthopedic perioperative care in ambulatory surgery: assessment of patient throughput and personnel labor intensity using activity-based costing." % Effort not specified

1998-1999

**UPMC Competitive Medical Research Fund:** \$25,000.

Principal investigator for "A descriptive, prospective analysis of homegoing outcomes after outpatient knee surgery using regional anesthesia clinical pathway patient management." % Effort not specified

**University Anesthesiology Seed Grant:** \$8000.

Principal investigator for "A descriptive, prospective analysis of homegoing outcomes after outpatient knee surgery using regional anesthesia clinical pathway patient management." % Effort not specified

2001-2003

**International Anesthesia Research Society (IARS), Clinical Scholar Research Award:** \$75,000. Percent effort not specified. Principal investigator for "Outcomes after ACL reconstruction: effect of femoral nerve block analgesia." Funding period complete.

**TEACHING:**

**A. CME Activities**

**1. First Annual Pittsburgh International Symposium on Regional Anesthesia and Pain Management**

- August 22-24, 2002, Westin Convention Center, Pittsburgh, PA
- Co-director (with Drs. Michael Kentor and Jacques Chelly)
- Session Co-Chair: Video teleconference of nerve block demonstrations
- General Session Lecturer: "Recovery Processes in Outpatient Knee Surgery"
- Workshop session chair: Blocks for Knee Surgery
- Workshop Lecturer: "Lumbar Plexus Nerve Block"
- General Chair of Subspecialty Parallel Sessions
- Responsible for compiling the Symposium syllabus, summarizing 24 of the symposium's 30 lectures (usually 10-70 Powerpoint-format slides) into one-page outlines (in MS Word format)
- 11 CME hour course; 120 total attendees (including symposium faculty)

**2. Regional Anesthesia & Continuous Infusions**

- January 31, 2004, UPMC Shadyside Hospital, Pittsburgh, PA
- Co-director (course director: Jacques E. Chelly, MD, Ph.D., MBA)
- 7.0 CME hour course, 50 attendees (including program faculty)

**3. University of Pittsburgh Department of Anesthesiology Review Course**

(published by CMEinfo.com, project director Rita M. Patel, MD)

- One-hour lecture entitled "Peripheral Nerve Blocks and Orthopedic Surgery."

**4. Major Orthopaedic Surgery in the Elderly and Very Elderly; 6th Regional Anesthesia**

**International Symposium; 2nd Orthopaedic Anesthesia, Pain and Rehabilitation Symposium**

- October 22, 2004, Las Vegas Hilton, Las Vegas, NV
- Co-director (course director: Jacques E. Chelly, MD, Ph.D., MBA)

**B. Didactic lectures (at the University of Pittsburgh)**

- 20 lectures given on multiple occasions – 1993 - present

**C. Anesthesiology Resident Coordinator: Regional and Ambulatory Anesthesia**

(March 1998 – March 2001, October 2004 - present)

**Didactic teaching sessions for rotating residents:** Mock oral boards in outpatient regional anesthesia administered every 2 weeks while on rotation. From 1998-2001, the first 3 sessions listed were given to most every resident on the 6-week rotation, and the fourth session was given to residents returning for senior electives. For 2004-present, the first 2 sessions were given to junior residents, and the latter 2 sessions were given to senior residents.

- "25 year-old female smoker with major depression for knee arthroscopy and hysteroscopy"
- "16 year-old female with undiagnosed congenital heart disease for ACL reconstruction and tympanoplasty"
- "47 year-old obese male with a history of snoring for tibial wedge osteotomy and Achilles tendon lengthening"
- "71 year-old male with pneumoconiosis for rotator cuff repair and carpal tunnel release"

**Teaching Scores (maximum 5.0="excellent"):**

• **Evaluation of Rotation scores under my directorship:**

Anesthesiology residents:

7/98 through 6/99	5.00
7/99 through 6/00	4.71 ("overall quality of this rotation")
4/00 through 3/01	4.75 ("overall quality of clinical experience")

• **Individual teaching scores:**

Anesthesiology residents "overall teaching effectiveness":

7/96 through 6/97	4.56
7/97 through 6/98	4.25
7/98 through 6/99	4.84
7/99 through 6/00	4.66
7/00 through 6/01	3.85

Medical students "overall teaching effectiveness":

Through 10/96	4.55
9/97 through 6/98	4.42
7/98-6/99	4.86
7/00-6/01	4.55

## **E. Other Teaching Activities**

### **1. Interim Co-Director: CA-3 Regional Anesthesia, and CA 1-2 Ambulatory / Regional Anesthesia at UPMC South Side (January 2002 – September 2004)**

- Providing mentorship to Steven L. Orebaugh, MD, in the process of coordinating these resident rotations
- Designed a new curriculum specific for senior residents
- Prepared new syllabus material (3-ring binder, approximately 500 pages)
- Acting rotation director (beginning October 2004, coinciding with Dr. Orebaugh's military leave)

### **2. Resident Senior Projects (2003 - present)**

- Donna Spratt, MD. Second author on: Continuous nerve blocks for outpatient knee surgery. *Techniques in Regional Anesthesia and Pain Management* 8(2): 76-84, 2004.
- Avidan Rappaport, MD. Regional anesthesia in the immunocompromised patient. Slide show later presented (by me) to the American Society for Regional Anesthesia 2004 Annual Meeting, and by Dr. Rappaport to the UPMC Residents Journal Club. Converted this presentation into a manuscript as lead author (with me as senior author), and submitted to *Regional Anesthesia and Pain Medicine*.
- Tetsuro Sakai, MD, Ph.D. Second author on "Complications that can arise in orthopedic patients when regional anesthesia is not used." In: *Complications in Anesthesia, Second Edition*. John L. Atlee, editor. Elsevier, in press, 2005.
- Peter Motolenich, MD. Second author on: Ambulatory regional anesthesia: Hospital economics and resource management. *International Anesthesiology Clinics* 2005, 43(3): in press.
- Bryan Matusic, DO. Second author on: Regional anesthesia procedures for ambulatory knee surgery. *International Anesthesiology Clinics* 2005, 43(3): in press.
- Shawn T. Beaman, MD. Second author on: Ambulatory regional anesthesia: University hospital group practice, and clinical pathway formulation. *International Anesthesiology Clinics* 2005, 43(3): in press.

### **3. Preceptor, "Managing Strategic Performance" course:**

- Course for the Katz Graduate School of Business (KGSB), University of Pittsburgh (3-4/97)
  - Pitt KGSB faculty contact: John Prescott, Ph.D.

## **SERVICE:**

### **A. Hospital, University, and Medical School**

#### **1. Director, Outpatient Regional Anesthesia Service, UPMC-Montefiore (11/99 – 4/01); Director, Outpatient Orthopedic Anesthesia Clinical Pathways, UPMC-Montefiore (7/97 – 11/99)**

Responsible for:

- Executing, revising, and expanding clinical pathway protocols for the care of outpatients undergoing orthopedic surgery, to minimize unplanned admissions (due to refractory pain, nausea, or vomiting)
- Responsible for training faculty in the performance of regional anesthesia techniques for surgical outpatients
- Chairing interdisciplinary meetings
- Hosting in-services for PACU and SDS nursing staff
- Training regarding recovery from regional anesthesia techniques for outpatient orthopedic surgery

*Years of Service, and highlights per year:*

**1996-1997:** Anterior Cruciate Ligament (ACL) Reconstruction Clinical Pathway  
(Designed for these specific surgical outpatients of Drs. Fu and Harner)

- Designed anesthetic care plan (with Drs. J. Alpers and W. Tullock) which led to decreased unexpected admission rates (from 15% to 9%).

**1997-1998:** Sports Medicine Anesthesia Clinical Pathway

(Designed for all surgical outpatients of Drs. Fu and Harner)

- Recruited Drs. Michael Kentor, William Tullock, and Gabriel Salame as pathway practitioners
- Responsible for modifying the anesthetic care plan for ACL reconstruction, which led to further decreases in unexpected admission rates (from 9% to 2%)

- Described 3 categories of pain severity after knee surgery patients, and designed the anesthesia clinical pathway to incorporate pain management techniques to allow pain-free same-day discharge and safe ambulation, when appropriate.
  - Category 1 (“mild” pain): 1% unplanned admissions
  - Category 2 (“moderate” pain): 4% unplanned admissions
  - Category 3 (“severe” pain): 10% unplanned admissions
    - Before July 1997, ALL Category 3 patients were admitted to the hospital.
- 62% of all orthopedic outpatients at UPMC-Montefiore were provided exclusively regional anesthesia (without general anesthesia), increased from 50% in 1996-1997.

**1998-1999: Sports Medicine and Upper Extremity Anesthesia Clinical Pathways**

(Designed for all surgical outpatients of Drs. Fu, Harner, Rodosky, Sotereanos, Tomaino, Bennett)

- Recruited Drs. Michael Kentor, Gabriel Salamie, Rita Toshok, David Metro, Victor Kubit, Denise Scaringe, and Theresa Gelzinis as pathway practitioners
- Responsible for managing the collection of satisfaction data on a subset of patients discharged after same-day shoulder or knee surgery (categories 2 and 3)
- Responsible for modifying the anesthetic care plans for outpatient orthopedic surgery, which maintained or further decreased unexpected admission rates:
  - Category 2 (moderate) knees: 3% unplanned admissions
  - Category 3 (severe) knees: 7% (down from 10%) unplanned admissions
  - Shoulders: 1% unplanned admissions
- 73% of all orthopedic outpatients at UPMC-Montefiore were provided exclusively regional anesthesia (without general anesthesia), increased from 62% in 1997-1998.
- **Director of Regional Anesthesia Quality Assurance**
  - Appointed by Drs. Lebowitz and Planinsic in AY 1998-1999
  - Responsible for preparing quarterly and/or semiannual reports on regional anesthesia proceedings, including recommendations for faculty and resident education
  - Incorporated the American Academy of Orthopaedics’ recommendation for clearly marking the surgical extremity before a regional anesthetic technique is performed (policy statement drafted with Drs. M. Kentor and P. Lebowitz)
  - Responsible for leading a task force (consisting of Drs. Kentor, Sonbolian, Schaefer, Toshok, Kubit, Metro, and Scaringe) in the development of divisional practice guidelines for regional anesthesia safety.

**1999-2000: Sports Medicine and Upper/Lower Extremity Anesthesia Clinical Pathways**

(Designed for all surgical outpatients of Drs. Fu, Harner, Conti, Rodosky, Sotereanos, Tomaino, Bennett, Kirchner)

- Recruited Drs. Michael Kentor, Rita Toshok, David Metro, Victor Kubit, Randy Wood, Patrick Forte, and David Sinclair as pathway practitioners
- Responsible for drafting dosing guidelines designed to maximize efficacy and minimize complications

**2000-2001: Outpatient Regional Anesthesia Service Clinical Pathways**

(Designed for all surgical outpatients of Drs. Fu, Harner, Conti, Rodosky, Sotereanos, Tomaino, Bennett, Kirchner, Goitz, McMahan)

- Recruited Drs. Michael Kentor, Rita Toshok, David Metro, Victor Kubit, Patrick Forte, Randy Wood, and Karen LeDonne as pathway practitioners
- Responsible for drafting dosing guidelines designed to maximize efficacy and minimize complications

2. **Coordinator, UPMC-Montefiore PACU Bypass Initiative (11/97-3/01)**

Beginning 11/97, responsible for:

- Designing recovery criteria (with M. Kentor, MD) after outpatient anesthesia determining eligibility for direct transfer from the operating room to the same-day surgery recovery unit
- Teaching anesthesiologist colleagues and perioperative nursing staff the techniques and implications of recovery room bypass as a routine care process.
- 2000-2001: Incorporated (with M.Kentor, MD, and J.Williams, MD) our published PACU bypass scoring guidelines into a hospital initiative to comply with mandates from the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO)

3. **Coordinator, UPMC-Montefiore Same Day Services Pain Management Initiative** (through 3/01)

Reporting to M. Kentor, MD.

Responsible for:

- Standardizing the postoperative pain management prescriptions and discharge instructions for the orthopedic surgical outpatients
- Designing the educational pamphlets (with C. Dunwoody, RN), and providing in-services to orthopedic housestaff and same-day recovery nursing staff.
- 1996-1997: Participating surgeons: Drs. Fu and Harner
- 1997-1998: Newly participating surgeons: Drs. Rodosky, Tomaino, and Sotereanos
- 1998-1999: Newly participating surgeons: Drs. Conti and Bennett
- 1999-2000: Newly participating surgeons: Dr. Kirchner
- 2000-2001: Secured (with M. Kentor, MD) corporate funding for the sponsorship of a postoperative pain telephone hotline (1-866-648-PAIN) for orthopedic outpatients to call after same-day surgery.

4. **Anesthesia Transition Team: UPMC South Side** (4/01 - present)

- Appointed by Dr. Freddie H. Fu (Chairman, Department of Orthopaedic Surgery), to help lead the anesthesia transition (under the leadership of Dr. Michael Kentor) as outpatient orthopedics is transferred from UPMC-Montefiore to UPMC-South Side
- Designed "Regional Anesthesia and Analgesia Procedure Note," "Anesthesiologist's Orders for Preoperative Same-Day Surgery Patients," "Anesthesiologist's Orders for Post-Anesthesia Care Unit," "Anesthesiologists Postoperative Orders for Same-Day Surgery Patients," "Anesthesiology / Pain Management Orders," "Acute Pain Management Consultation and Procedure Note."
- Director, Outpatient Regional Anesthesia Service (4/01 – present)
- Designed the policy statement (with Dr. Michael Kentor) addressing criteria for recovery room bypass and/or discharge throughout the UPMC South Side Hospital (June and October, 2004)

5. **Alternate clinical scheduler at the UPMC-Montefiore Surgicenter** (through 3/01)

- Appointed by Michael Kentor, MD (medical director of same-day services) in his absence to make the anesthesia clinical assignments for the Montefiore pavilion.

6. **Chairperson, monthly Surgicenter anesthesia subspecialty meeting** (through 3/01)

- Appointed by Michael Kentor, MD (medical director of same-day services)
- Prepared meeting agendas and minutes
- Minutes are currently posted in a departmental binder; these chronicle the division's clinical and administrative proceedings.

7. **Anesthesiology department presenter, Pharmacy and Therapeutics Committee**

- **1997:** sevoflurane, approved
- **1997:** procaine for spinal anesthesia, approved
- **1998:** ropivacaine, approved (initially proposed by M.Kentor,MD)
- **1998:** Guidelines for Antiemetic use in the Operating Room (initially requested by Susan Skledar, R.Ph., MPH)
- **1999:** rofecoxib, approved
- **2000:** levobupivacaine, approved

- **2001:** clonidine and hydromorphone for peripheral nerve block analgesia, approved (Pharmacy and Therapeutics Committees, UPMC Presbyterian and UPMC South Side)
- **2002:** Guidelines for Antiemetic use in the Operating Room - Revisited (initially requested by Susan Skledar, R.Ph., MPH)

**8. Anesthesiology department presenter for UPMC Health System Administration**

- August 1997, HealthCare Compare managed care firm.  
Presented relevant clinical pathway data and ambulatory anesthesia outcomes.
- October 1997, MultiPlan, inc. managed care firm.  
Presented relevant clinical pathway data and ambulatory anesthesia outcomes.

**B. Professional Societies and Committees**

**2000 – 2003**

Society for Ambulatory Anesthesia Committee on Education, adjunct member

**2002 – present**

American Society of Regional Anesthesia and Pain Medicine (2):

Ad hoc committee on Regional Anesthesia Fellowship Education, Liaison GME Ad hoc committee

**2003 – present**

Society for Ambulatory Anesthesia Committee on Regional Anesthesia, inaugural chair (appointed by society president Frances Chung, MD)

**2003 – present**

Scientific committee member: International Symposium on Regional Anesthesia / Symposium on Orthopedic Anesthesia, Pain, and Rehabilitation

**2004 – present**

Board of Directors: Society for Orthopedic Anesthesia, Pain, and Rehabilitation (appointed by society president Jacques E. Chelly, MD, Ph.D., MBA)