

**CURRICULUM VITAE**

**David G. Nichols, M.D., MBA**

**I. PERSONAL DATA**



**II. EDUCATION**

<u>Date</u>		<u>Degree</u>
1969-73	Undergraduate School Yale University New Haven, Connecticut	B.A.
1973-77	Medical School Mount Sinai School of Medicine New York, New York	M.D.
1995-00	Business School Johns Hopkins University School of Professional Studies in Business and Education	MBA

**III. HOSPITAL TRAINING**

<u>Date</u>	<u>Location</u>	<u>Type</u>
1977-80	The Children's Hospital of Philadelphia Philadelphia, Pennsylvania	Residency Pediatrics
1980-81	The Children's Hospital of Philadelphia Philadelphia, Pennsylvania	Chief Resident
1981-83	Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	Residency Anesthesiology
1983	The Children's Hospital of Philadelphia Philadelphia, Pennsylvania	Fellowship Pediatric Anesthesia and Critical Care

**IV. PRESENT PROFESSIONAL APPOINTMENTS**

1998-	Professor, Anesthesiology/Critical Care Medicine and Pediatrics, The Johns Hopkins School of Medicine
2000-	Vice Dean for Education, The Johns Hopkins School of Medicine

2004- The Mary Wallace Stanton Professor of Education, The Johns Hopkins School of Medicine

**V. PAST PROFESSIONAL APPOINTMENTS**

- 1980-81 Instructor, Department of Pediatrics, University of Pennsylvania School of Medicine
- 1984-91 Assistant Professor, Department Anesthesiology Critical Care Medicine, Johns Hopkins University School of Medicine
- 1984-87 Associate Director, Residency Education Program, Department of Anesthesiology/Critical Care Medicine, The Johns Hopkins University School of Medicine
- 1987-88 Associate Director, Pediatric ICU, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins Hospital
- 1988-97 Director, Pediatric Intensive Care, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins Hospital
- 1991-98 Associate Professor of Anesthesiology/Critical Care Medicine, Johns Hopkins Hospital
- 1997-01 Director, Division of Pediatric Anesthesia and Critical Care Medicine, Department of Anesthesiology/Critical Care Medicine, The Johns Hopkins Hospital

**VI. LICENSURE**

Maryland  
Pennsylvania (inactive)

**VII. PROFESSIONAL ACTIVITIES AND HONORS**

Professional Awards and Honors

- 1976 Alpha Omega Alpha Honor Medical Society
- 1977 Medical Attendings Award in Clinical Medicine - Mount Sinai School of Medicine
- 1981 Benjamin Ritter Award for Teaching and Patient Care - Department of Pediatrics, Children's Hospital of Philadelphia
- 1982 Medical Student Teaching Award - Department of Anesthesiology, University of Pennsylvania
- 1986 Outstanding Teacher Award - Department of Anesthesiology, The Johns Hopkins University
- 1997-98 Teacher of the Year Award - Johns Hopkins Emergency Medicine Residency Program, The Johns Hopkins University

Community Activities and Honors

- 1984-90 \_\_\_\_\_
- 1989-95 \_\_\_\_\_
- 1992 \_\_\_\_\_
- 1993-97 National Head Injury Foundation - Advisory Committee for the HeadSmart Schools Program
- 1998 \_\_\_\_\_
- 2001-04 \_\_\_\_\_
- 2002 Baltimore Magazine, Best Doctors in Baltimore
- 2002 Black Enterprise Magazine, Best Doctors

Professional Societies

American Academy of Pediatrics  
 American College of Critical Care Medicine  
 American Society of Anesthesiology  
 International Anesthesia Research Society  
 Society for Pediatric Anesthesia  
 American Thoracic Society  
 Society for Critical Care Medicine  
 The Society for Pediatric Research  
 Association of University Anesthesiologists  
 American Board of Pediatrics

National and International Committees

1991-92 1st World Congress of Pediatric Intensive Care, Organizing Committee,  
 1992-93 American Society of Anesthesiology - Subcommittee on Pediatric Anesthesiology,  
 1993 American Society of Anesthesiologists - Scientific Papers Subcommittee  
 1993 Society of Critical Care Medicine - Pediatric Section Award Committee  
 1988- American Board of Pediatrics - Question Writer for Pediatric Critical Care Certifying  
 Examination  
 1995-01 American Board of Pediatrics - Pediatric Critical Care Medicine Board Member  
 1995-96 2nd World Congress of Pediatric Intensive Care, Scientific Committee  
 1995-98 Society for Pediatric Anesthesia, Board Member  
 1995-98 Society for Pediatric Anesthesia, Chairman, Research Committee  
 1997-03 World Federation of Pediatric Intensive Care, Executive Committee Member  
 1997-99 American Board of Pediatrics - Pediatric Critical Care Medicine Sub-board; Chairman,  
 Credentials Committee  
 1999-00 Chairman, American Board of Pediatrics - Pediatric Critical Care Medicine Sub-board  
 1999-00 Pediatric Critical Care Medicine, Editor-in-Chief Search Committee  
 2001- American Board of Pediatrics – Chair, Committee on Maintenance of Certification for  
 Specialists

Editorial Board Appointments

1984-90 Pediatric Emergency Care  
 1992 Critical Care Medicine  
 2001- Pediatric Critical Care Medicine (Associate Editor)

Grants

1985-87 Andrew Mellon Foundation Grant Recipient  
 1990-91 Paramedic Airway Training Course, Maryland Department of Transportation  
 1996-97 Alliance Pharmaceutical Corporation,  
 \_\_\_\_\_ A Multicenter, Randomized, Controlled Study of the Safety and  
 Efficacy of \_\_\_\_\_  
 \_\_\_\_\_

Journal Reviewer

Anesthesia and Analgesia  
Anesthesiology  
Critical Care Medicine  
Intensive Care Medicine  
Journal of Pediatrics  
Pediatrics  
Pediatric Critical Care Medicine

Course Directorships

1988-03 Director, Advanced Pediatric Life Support Course - Johns Hopkins University  
1989-92 Chairman, Pediatric Critical Care Symposium - Johns Hopkins University Pediatric Trends Course

State Appointments

1991 Director, Pediatric Care, Maryland International Health Task Force

Hospital Committees

1990 Children's Center Medical Board  
1987-97 Children's Center Quality Assurance Committee  
1987-88 Critical Care Planning Committee  
1991 Transplant/Organ Donation Advisory Committee  
1995-96 Medicaid High Cost Users Program  
1995-01 Children's Center Operations Committee

Department of Anesthesiology and Critical Care Medicine Committees

1987- Pediatric Anesthesia/Intensive Care Admissions Committee  
1986-91 Anesthesia Clinical Competency Committee  
1996 Chairman, Faculty Compensation Committee

Department of Pediatrics Committees

1984-88 Chairman, Intermediate Care Unit Committee

Johns Hopkins University School of Medicine Committees

1994-97 School of Medicine Admissions Committee  
1995-96 Ad hoc Committee on Academic Discipline  
1998- Advisory Committee on Conflict of Interest  
1999- Clinical Practice Association Board of Governors  
2000- Educational Policy Committee, Chair  
2000- Executive Office of Johns Hopkins Medicine  
2000- Deans Operating Group  
2000- The Eudowood Board  
2000- First Year Student Promotions Committee  
2000- Second Year Student Promotions Committee  
2000- Third and Fourth Year Student Promotions Committee  
2000- Agenda Committee of the Advisory Board of the Medical Faculty

- 1999- MA/Ph.D. Degree Program Committee
- 2000- Robert Wood Johnson JHSOM Clinical Scholars Advisory Board, Chair
- 2000-01 Search Committee for the Chair of the Dept. of the History of Medicine
- 2002-03 Search Committee for the Chair of the Dept. of Otolaryngology/Head and Neck Surgery
- 2004 Johns Hopkins Medical News Advisory Committee

Johns Hopkins University Committees

- 2001-02 Search Committee for the Dean of the School of Nursing

**VIII. VICE DEAN FOR EDUCATION ADMINISTRATION (SINCE 1/1/00):**

Oversight Responsibilities (\$40 million annual budget):

1. Medical School Admissions
2. Medical School Student Affairs and Curriculum
3. Graduate Student (MA/Ph.D.) Education
4. Postdoctoral Fellow Education
5. Residency Training Programs
6. Continuing Medical Education
7. Medical Library

Program Development in the School of Medicine

Major Initiatives in 2000

1. Academic Computing Taskforce - Led School of Medicine wide initiative to improve innovative uses of technology in education
2. Professional Development Office - Established Professional Development Office to assist trainees with developing grant writing, public speaking and other "survival" skills for the academic physician and scientist. This office will also serve as liaison between the School of Medicine and the Biotechnology industry.
3. Complimentary and Alternative Medicine Center - Supported development of a Complimentary and Alternative Medicine Center at the School of Medicine. Support included bringing key participants together, advice on organizational structure, work with development office to find funding in addition to NIH support.
4. Gross Anatomy Course and Division - Organized external review of the Anatomy course and division resulting in redesign of both.

Major Initiatives in 2001

1. Office of Academic Computing (OAC) – Established OAC to integrate technology into education throughout the School of Medicine and appointed first director. Staff size – 11 persons.
2. School of Medicine Retreat on Undergraduate Medical Education – Assembled campus leaders to develop 5-year strategic plan for curriculum, faculty development and infrastructure in education.

3. Faculty Development Course in Medical Education (MedEd 101) – Sponsored development of faculty development course to teach course directors and other faculty the formal principles of medical education.
4. Institutional accreditations – Liaison Committee for Medical Education (LCME), Accreditation Council for Graduate Medical Education (ACGME), Accreditation Council for Continuing Medical Education (ACCME)

#### Major Initiatives in 2002

1. Graduate Medical Education Retreat – Organized School of Medicine and Hospital-wide retreat to focus on program changes and central support needed to accommodate reduction in duty hours and introduction of new competencies in residency education.
2. Student Assistance Program (SAP) – Funded program to provide student mental health services that targeted prevention as a supplement to existing services focused on treatment.
3. Computerized Evaluation System – Installed electronic program to allow 360° evaluation of faculty and students engaged in any teaching activity sponsored by the School of Medicine.
4. Continuing Medical Education – Expanded continuing medical education by launching a new journal (“Advanced Studies in Medicine”) and opening a Washington, DC satellite campus for the Hopkins Business of Medicine program.
5. Alumni Relations – Updates and fundraising in Baltimore and Florida.

#### Major Initiatives in 2003

1. Strategic Planning – “The Future Practice of Medicine – Implications for Johns Hopkins Medicine”, Various presentations to Board of Trustees, Clinical Directors, and Administrative Leaders.
2. Simulation Center – Chaired taskforce and completed plans for a Johns Hopkins Simulation Center to serve the JH School of Medicine, the JH Hospital, the JH School of Nursing, and the Bloomberg School of Public Health.
3. Curriculum Reform – Appointment of curriculum reform committee with charge to redesign Hopkins medical education to fit the scientific and practice needs in the next decade.
4. Graduate Medical Education – Expansion and re-organization of the GME committee structure with taskforces to improve and monitor (1) the relationship between hospital service and education for residents, (2) the evaluation of the competency curricula, (3) the tracking of duty hours, and (4) the internal review of training program quality

### **IX. SPECIALTY CERTIFICATION**

1982	American Board of Pediatrics
1984	American Board of Anesthesiology
1987	American Board of Pediatrics, Subspecialty Committee, Pediatric Critical Care Medicine
1995	Recertified through 2002
2001	Recertified through 2009

**X. BIBLIOGRAPHY**Journal Articles

1. Kelly RI, Borns, PF, **Nichols DG**, et al: Osteoglyphonic dwarfism in two generations. *J Med Genet* 10:436-440, 1983.
2. Azizkhan RG, Dudgeon DL, Buck JR, Colombani PM, Yaster M, **Nichols DG**, et al: Life-threatening airway obstruction as a complication to the management of mediastinal masses in children. *J Pediatr Surg* 20(6):816-822, 1985.
3. **Nichols DG**, Kettrick RG, Swedlow DB, et al: Factors influencing outcome of cardiopulmonary resuscitation in children. *Pediatr Emerg Care* 2:1-5, 1986.
4. **Nichols DG**, Scharf SM, Traystman RJ, Robotham JL: Correlation of Left Phrenic Arterial Flow with Regional Diaphragmatic Blood Flow. *J Appl Physiol* 64:2230-2235, 1988.
5. **Nichols DG**: Respiratory Control and Postoperative Apnea: Recent Physiologic Findings and Clinical Implications. *Anesthesiology Reports* 1:36-43, 1988.
6. Wetzel RC, **Nichols DG**, Bender KS, Schleien CS, Helfaer M, Yaster M, Maxwell LG, Spear RM. A Premature Neonate with Necrotizing Enterocolitis. Clinical Conference, *Anesthesiology Report*. 1:90-108, 1988.
7. **Nichols DG**, Howell S, Massik J, Koehler RC, Gleason CA, Buck JR, Fitzgerald RS, Traystman RJ, Robotham JL: Relationship of Diaphragmatic Contractility to Diaphragmatic Blood Flow in Newborn Lambs. *J Appl Physiol* 66:120-127, 1989.
8. Spear RM, Sauder RA, **Nichols DG**: Endotracheal tube rupture, accidental extubation, and tracheal avulsion: Three airway catastrophes associated with significant decrease in leak pressure. *Crit Care Med* 17:701-703, 1989.
9. Tobias JD, Haun SE, Helfaer M, **Nichols DG**: Use of continuous caudal block to relieve lower-extremity ischemia caused by vasculitis in a child with meningococcemia. *J Pediatr* 115:1019-1021, 1989.
10. Cameron DE, Reitz BA, Carson BS, Long DM, Dufresne CR, Vander Kolk CA, Maxwell LG, Tilghman DM, **Nichols DG**, Wetzel RC, Rogers MC: Separation of Craniopagus Siamese Twins Using Cardiopulmonary Bypass and Hypothermic Circulatory Arrest. *J Thorac Cardiovasc Surg* 98:961-967, 1989.
11. Yaster M, Scherer LR, Stone MM, Maxwell LG, Schleien CL, Wetzel RC, Buck JR, **Nichols DG**, Colombani PM, Dudgeon DL, Haller JA: Prediction of Successful Primary Closure of Congenital Abdominal Wall Defects Using Intraoperative Measurements. *J Pediatr Surg* 24, 12:1217-1220, 1989.
12. Tobias JD, **Nichols DG**: Intraosseous succinylcholine for Orotracheal Intubation. *Pediatr Emerg Care* 6:108-109, 1990.

13. Yaster M, **Nichols DG**, Deshpande JK, Wetzel RC: Midazolam-fentanyl intravenous sedation in children. Case report of respiratory arrest. *Pediatrics* 86:463-467, 1990.
14. Spear RM, Yaster M, Maxwell LG, Berkowitz ID, Bender KS, Naclerio R, Manolio TA, **Nichols DG**: Preinduction sedation with rectally administered midazolam in children. *Anesthesiology* 74:670-674, 1991.
15. Borel CO, Tilford C, **Nichols DG**, Hanley DF, Traystman RJ: Diaphragmatic performance during recovery from acute ventilatory failure in patients with Guillain Barre' and Myasthenia Gravis. *Chest* 99:444-51, 1991.
16. **Nichols DG**: Respiratory muscle performance in infants and children. *J Pediatr* 118:493-502, 1991.
17. Tobias JD, Wetzel RC, **Nichols DG**. Cardiorespiratory Responses to Epidural Analgesia in the Awake Child: A Retrospective Review of Postoperative Patients. *J Post Anesth Nurs.* 8:257-61, 1993.
18. **Nichols DG**, Buck JR, Eleff SM, Shungu DC, Robotham JL, Koehler RC, Traystman RJ: Diaphragmatic fatigue assessed by <sup>31</sup>P-magnetic resonance spectroscopy in vivo. *Am J Physiol* 264 (Cell Physiol.33):C1111-C1118, 1993.
19. **Nichols DG**, Yaster M, Lynn AM, Helfaer MA, Deshpande JK, Manson PN, Carson BS, Bezman M, Maxwell LG, Tobias JD, Grochow LB: Disposition and respiratory effects of intrathecal morphine in children. *Anesthesiology*, 79:733-738, 1993.
20. **Nichols DG**, Rogers, MC: The Critically Ill Child: A Status Report. *Crit Care Med* 21(9):S306, 1993.
21. **Nichols DG**, Walker LK, Wingard JR, Bender KS, Bezman M, Zahurak ML, Piantadosi S, Frey-Simon M, Rogers, MC: Predictors of acute respiratory failure after bone marrow transplantation in children. *Crit Care Med.* 22:1485-1491, 1994.
22. **Nichols DG**: Taming the technology for ARDS in children. *Crit Care Med* 22:1521-1524, 1994. (Editorial)
23. Ide T, **Nichols DG**, Buck JR, Eleff SM, Shungu D, Fitzgerald R, Traystman RJ: Effect of aminophylline on high energy phosphate metabolism and fatigue in the diaphragm. *Anesthesiology.* 83:557-567, 1995.
24. Helfaer MA, McColley SA, Pyzik PL, Tunkel DE, **Nichols DG**, Baroody FM, April MM, Maxwell LG, Loughlin GM: Polysomnography after adenotonsillectomy in mild pediatric obstructive sleep apnea. *Crit Care Med.* 24(8):1323-1327, 1996
25. **Nichols DG**, Greeley WJ, Murray JP. Postoperative cardiac care for the child with congenital heart disease. *Am. J. Anesthesiol.* 23:198-205, 1996
26. **Nichols DG**. Emergency management of status asthmaticus in children. *Pediatr. Annals* 25(7): 394-400, 1996

27. Radell PJ, Eleff SM, Traystman RJ, **Nichols DG**: In-vivo diaphragm metabolism: comparison of paced and inspiratory resistive loaded breathing in piglets. *Crit Care Med* 25(2):339-345, 1997
28. Kocis KG, Radell PJ, Sternberger WI, Benson JF, **Nichols DG**. Ultrasound evaluation of piglet diaphragm function before and after fatigue. *J. Appl. Physiol.* 83:1654-1659, 1997
29. Pelidis MA, Kato GJ, Resar LMS, Dover GJ, **Nichols DG**, Walker LK, Casella JF. Successful treatment of life-threatening acute chest syndrome of sickle cell disease with venovenous extracorporeal membrane oxygenation. *J. Pediatr. Hematol and Oncol.* 19(5):459-461, 1997
30. **Nichols DG**: Mechanical ventilation and the diaphragm. *Crit Care Med* 26(7):1155-1157, 1998. (Editorial)
31. Radell PJ, Eleff SM, **Nichols DG**. Effects of loaded breathing and hypoxia on diaphragm metabolism as measured by  $^{31}\text{P}$  NMR spectroscopy. *J. Appl. Physiol* 88:933-938, 2000
32. White JR, Fahid Z, Bull C, **Nichols DG**: Predictors of outcome in severely head-injured children. *Crit Care Med* 29:534-540, 2001
33. Yaster M, **Nichols DG**: Pain management in the critically ill child. *Indian J Pediatr.* 68:749-69, 2001
34. Fisher QA, **Nichols DG**, Stewart FC, Finley GA, Magee WP, Nelson K. Assessing Pediatric Anesthesia Practices for Volunteer Medical Services Abroad. *Anesthesiology* 95:1315-1322, 2001.
35. Radell PJ, Remahl S, **Nichols DG**, Eriksson LI: Effects of prolonged mechanical ventilation and inactivity on piglet diaphragm function. *Intensive Care Med* 28:358-64, 2002.
36. Moss WJ, Beers MC, Johnson E, **Nichols DG**, Perl TM, Dick JD, Veltri MA, Willoughby E: Pilot study of antibiotic cycling in a pediatric intensive care unit. *Crit Care Med.* 30:1877-82, 2002.
37. Elwood T, Morris W, Lynn D, Martin LD, Nespeca MK, Wilson DA, Fleisher LA, Robotham JL, **Nichols DG**. Bronchodilator premedication does not decrease respiratory adverse events in pediatric general anesthesia. *Can J Anaesth.* 50:277-84, 2003
38. **Nichols DG**. The PICU nightmare (editorial). *Pediatr Crit Care Med.* 5:411-2, 2004
39. Schwengel DA, McGready J, Berenholtz SM, Kozlowski LJ, **Nichols DG**, Yaster M. Peripherally Inserted Central Catheters: a randomized, controlled prospective trial in pediatric surgical patients. *Anesth Analg* 99:1038-43, 2004

### Books

1. **Nichols DG** (Contributing Editor), The Year Book of Critical Care Medicine, Edited by Rogers MC and Parrillo JE, Year Book Medical Publishers, 1990.
2. **Nichols DG**, Yaster MY, Lappe DG, Buck JR. The Golden Hour - Advanced Pediatric Life Support, Chicago: Mosby Yearbook Medical Publishers, 1991.
3. **Nichols DG**, Yaster M, Lappe DG, Haller JA. The Golden Hour - The Handbook of Advanced Pediatric Life Support (2nd edition), Mosby-Year Book Inc., 1995.
4. **Nichols DG** (Contributing Editor), The Year Book of Critical Care Medicine, Edited by Rogers MC and Parrillo JE, Year Book Medical Publishers, 1991.
5. **Nichols DG** (Section Editor: Respiratory Intensive Care). In: Textbook of Pediatric Intensive Care Medicine, 2nd Edition. Edited by Rogers MC, Williams & Wilkins Publishers, 1992.
6. **Nichols DG** Cameron DE, Greeley W, Lappe D, Ungerleider R, Wetzel RC. Critical Heart Disease in Infants and Children, Mosby, 1995.
8. Rogers MC, **Nichols DG**. Textbook of Pediatric Intensive Care, 3rd Edition. Williams & Wilkins, 1996
9. **Nichols DG** Cameron DE, Greeley W, Lappe D, Ungerleider R, Spevak P, Wetzel RC. Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition, Elsevier, 2004, In Press.

### Chapters

1. Traystman RJ, Gurtner GH, **Nichols DG**, Jones MD, Koehler RC, McPherson RW, Rogers MC: Central chemoreceptor regulation of cerebral blood flow, In: Neural Regulation of Brain Circulation. Edited by Owman Ch., Hardebo JE, Elsevier Science Publishers, 1986, pp. 169-178.
2. **Nichols DG**, Rogers MC: Developmental Physiology of the Respiratory System, In: Textbook of Pediatric Intensive Care. Edited by Rogers MC, Williams & Wilkins Publishers, 1987, pp. 83-112.
3. Chantarojanasiri T, **Nichols DG**, Rogers MC: Lower Airway Disease: Bronchiolitis and Asthma, In: Textbook of Pediatric Intensive Care. Edited by Rogers MC, Williams & Wilkins Publishers, 1987, pp. 199-236.
4. **Nichols DG**, Rogers MC: Adult Respiratory Distress Syndrome, In: Textbook of Pediatric Intensive Care. Edited by Rogers MC, Williams & Wilkins Publishers, 1987, pp. 237-272.
5. **Nichols DG**: Respiratory Failure, In: The Golden Hour - Advanced Pediatric Life Support, Edited by **Nichols DG**, Yaster MY, Lappe DG, Buck JR. Chicago: Mosby Yearbook Medical Publishers, 1991, pp. 65-80.

6. Schleien CL, **Nichols DG**: Environmental Injuries, In: The Golden Hour - Advanced Pediatric Life Support, Edited by **Nichols DG**, Yaster MY, Lappe DG, Buck JR. Chicago: Mosby Yearbook Medical Publishers, 1991, pp. 253-270.
7. Helfaer M, **Nichols DG**, Rogers MC: Developmental Physiology of the Respiratory System, In: Textbook of Pediatric Intensive Care Medicine, 2nd Edition. Edited by Rogers MC, Williams & Wilkins Publishers, 1992, pp. 104-133.
8. **Nichols DG**, McCloskey JJ, Rogers MC: ARDS, In: Textbook of Pediatric Intensive Care Medicine, 2nd Edition. Edited by Rogers MC, Williams & Wilkins Publishers, 1992, pp. 296-328.
9. Hayden WR, Greenberg RS, **Nichols DG**: Respiratory Monitoring, In: Textbook of Pediatric Intensive Care Medicine, 2nd Edition. Edited by Rogers MC, Williams & Wilkins Publishers, 1992, pp. 204-230.
10. Robotham JL, Martin LD, Wetzel RC, **Nichols DG**: Respiratory System - Maturation of the Respiratory System, In: Textbook of Pediatric Critical Care. Edited by Holbrook, P., W.B. Saunders Company Publishers, 1992.
11. Bernard DW, Barnes SD, **Nichols DG**: Case 3, In: Case Studies in Pediatric Intensive Care. Edited by Rogers MC, Helfaer MA., Williams & Wilkins Publishers, 1993, pp. 15-20.
12. **Nichols DG**, Fösel T: Pathophysiologie der Lungenfunktion, In Beatmung von Kindern in Anästhesie und Intensiv Medizin. Springer Verlag, 1993, pp 17-35.
13. **Nichols DG**: Acute Respiratory Failure in Infants and Children: Status Report on Gas Exchange Techniques and Outcome. In: 1994 Year Book of Intensive Care and Emergency Medicine. Edited by Vincent JL. Springer Verlag, 1994, pp 419-429.
14. Walker LK, Casella J, **Nichols DG**: Polycythemia, Methemoglobinemia, and Porphyria: Perioperative Management and Evaluation. In: Blood: Hemostasis, Transfusion and Alternatives in the Perioperative Period. Edited by CL Lake and RA Moore, Williams & Wilkins, 1995, pp. 447-453
15. Helfaer MA, Wilson MD, **Nichols DG**: Pharmacology of Cardiovascular Drugs. In: Critical Heart Disease in Infants and Children. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 185-213.
16. Meliones JN, **Nichols DG**, Wetzel RC, Greeley WJ: Perioperative Management of Patients with Congenital Heart Disease: A Multidisciplinary Approach. In: Critical Heart Disease in Infants and Children. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 553-579.
17. Thompson WR, **Nichols DG**, Ungerleider RM: Double-Outlet Right Ventricle and Double-Outlet Left Ventricle. In: Critical Heart Disease in Infants and Children. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 623-648.

18. Schwengel DA, **Nichols DG**, Cameron DE: Coarctation of the Aorta and Interrupted Aortic Arch. In: Critical Heart Disease in Infants and Children. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 669-692.
19. Okanlami O, **Nichols DG**, Nicolson SC, Meliones JN, Cameron DE: Tricuspid Atresia and the Fontan Operation. In: Critical Heart Disease in Infants and Children. Edited by Nichols DG, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 737-767.
20. Cheng W, **Nichols DG**, Cameron DE: Truncus Arteriosus. In: Critical Heart Disease in Infants and Children. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, and Wetzel RC, Mosby, 1995, pp. 797-807.
21. **Nichols DG**, Lenox WC, Walker LK, Berkowitz ID: Respiratory Failure. In: The Golden Hour - The Handbook of Advanced Pediatric Life Support (2nd edition), Edited by **Nichols DG**, Yaster MY, Lappe DG, Haller JA. St Louis: Mosby-Year Book, Inc. 1995, pp. 59-88.
22. Zuckerberg A, **Nichols DG**: Airway Management in Pediatric Critical Care. In: Textbook of Pediatric Intensive Care, 3rd Edition. Edited by Rogers MC, **Nichols DG**, Williams & Wilkins, 1996, pp. 51-76.
23. Helfaer MA, **Nichols DG**, Rogers MC: Developmental Physiology of the Respiratory System. In: Textbook of Pediatric Intensive Care, 3rd Edition. Edited by Rogers MC, **Nichols DG**, Williams & Wilkins 1996, pp. 97-126.
24. Helfaer MA, **Nichols DG**, Rogers MC: Lower Airway Disease: Bronchiolitis and Asthma. In: Textbook of Pediatric Intensive Care, 3rd Edition. Edited by Rogers MC, **Nichols DG**, Williams & Wilkins 1996, pp. 127-164.
25. Fackler JC, Arnold JH, **Nichols DG**, Rogers MC: Acute Respiratory Distress Syndrome. In: Textbook of Pediatric Intensive Care, 3rd Edition. Williams & Wilkins 1996, pp. 197-233.
26. Shaffner DH, Schleien CL, Eleff SM, Hunt EA, **Nichols DG**: Cardiac Arrest and Cardiopulmonary Resuscitation. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.
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28. Tobias JD, Deshpande JK, Johns JA, **Nichols DG**. Inflammatory Heart Disease. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.

29. Tabutt S, Helfaer M, **Nichols DG**. Pharmacology of Cardiovascular Drugs. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.
30. **Nichols DG**, Stewart D, DeMaio A, Paidas CN. Splanchnic Function and Heart Disease. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.
31. Fivush BA, Neu AM, Parehk RS, Maxwell LG, Racussen LC, White JRM, **Nichols DG**. Renal Function and Heart Disease. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.
32. Lok J, Spevak PJ, **Nichols DG**. Tricuspid Atresia. In: Critical Heart Disease in Infants and Children, 2<sup>nd</sup> Edition. Edited by **Nichols DG**, Cameron DE, Greeley WJ, Lappe DG, Ungerleider RM, Spevak P, and Wetzel RC, Elsevier, 2004, In Press.

#### Abstracts

1. **Nichols DG**, Kettrick RG, Swedlow DB, et al: Factors influencing outcome of cardiopulmonary arrest in children. Crit Care Med 12:287, 1984.
2. **Nichols DG**, Howell S, Massik J, et al: Relationship of diaphragmatic contractility to diaphragmatic blood flow in a newborn model. Anesthesiology 65:A272, 1986.
3. **Nichols DG**, Scharf SM, Traystman RJ, Robotham JL: Correlation of flow measured in the left phrenic artery with left and right hemidiaphragmatic blood flow. Am Rev Res Dis 135:A331, 1987.
4. Spear RM, **Nichols DG**, Yaster M: Dose-Response following rectal midazolam sedation in infants and small children. Pediatr Res 23:264A, 1988.
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6. Spear RM, **Nichols DG**, Yaster M: Preinduction of anesthesia in pediatric patients with rectally administered midazolam. Presented at American Academy of Pediatrics, New York City, May 6, 1988.
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25. Van Brempt R, Wetzel R, **Nichols DG**, Berkowitz I, Walker K, Ota W: Intraoperative Use of High frequency oscillatory ventilation in congenital diaphragmatic hernia. European Association of Cardiothoracic Anesthesiologists, Leuven, Belgium, May 22-25, 1996.
26. Steinhart C, Fackler J, Heulitt M, **Nichols DG**, Green T, Ware J: Randomized trial of protocol-driven mechanical ventilation versus ECMO in pediatric patients with acute respiratory distress syndrome (ARDS). Am Thorac Soc Meeting, 1997, Am J Respir Crit Care Med 1997.
27. Heulitt M, Fackler J, Green T, Steinhart C, **Nichols DG**, Ware J: Morbidity in survivors of pediatric acute respiratory distress syndrome. Am J Res Crit Care 155:A503, 1997
28. Radell P, Eleff SM, **Nichols DG**: In-vivo diaphragm metabolism assessed by <sup>31</sup>P NMR spectroscopy during loaded breathing with hypoxia. Am J Res Crit Care 155 (4):A915, 1997
29. Fackler J, Bohn D, Green T, Heulitt M, Hirshl R, Klein M, Martin L, Newth K, **Nichols D**, Steinhart C, Ware J: ECMO for ARDS: Stopping a RCT. Am J Res Crit Care 155 (4):A504, 1997
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31. Moss W, Beers C, McFarlane G, **Nichols D**, Perl T, Dick J, Veltri M, Willoughby R: Impact of Antibiotic Cycling on Infection and Colonization with Antibiotic-Resistant Bacteria in a Pediatric ICU. 36<sup>th</sup> Annual Meeting of the Infectious Diseases Society of America, November 1998
32. **Nichols DG** and Shaffner, DH: Outcome Predictors Among Survivors After CPR in Children. XXII International Congress of Pediatrics, Amsterdam, The Netherlands, August 9-14, 1998.
33. Shaffner DH, **Nichols DG**, and Tchetchgen MB: Neurologic Outcome of Pediatric Survivors of Cardiac Arrest. Crit Care Med 27:A81, 1999

34. White JR, Fahid Z, Bull C, and **Nichols DG**: Predictors of Survival and Length of Intensive Care Unit Stay in Children with Severe Traumatic Brain Injury. Crit Care Med 27:A147, 1999
35. Kocis KC, Sternberger WI and Nichols DG: Ultrasound Evaluation of Diaphragm Function in Children with Chronic Respiratory Failure. Crit Care Med 27:A163, 1999
36. Radell P, Remahl S, Eriksson LI, **Nichols DG**: Piglet Diaphragm Function During Prolonged Mechanical Ventilation. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 2000.
37. Natale JE, Shaffner DH, **Nichols DG**, Paidas C: Secondary Infection Following Brain Trauma. International Conference on Pediatric Trauma, Colorado Springs, CO, June 2000
38. Schwengel DA, Berenholtz S, Kozlowski L, **Nichols DG**, and Myron Y. Peripherally Inserted Central Catheters in pediatric patients; a randomized controlled prospective trial. Anesthesiology 2002 Anesthesiology 96: A1218, 2002
39. Guerguerian AM, **Nichols DG**, Shaffner DH. Survivors of cardiac arrest. IV<sup>th</sup> World Congress of Pediatric Intensive Care. Boston, MA June 2003

#### Training Video

"The Golden Hour - Advanced Pediatric Life Support", The Network for Continuing Medical Education

#### **XI. GUEST PROFESSORSHIPS**

1. Visiting Professor, Department of Anesthesia, Intensive and Emergency Medicine, University of Ulm, West Germany, October 1-28, 1988
2. Department of Pediatrics, Al-Sabah Pediatric Hospital, Kuwait City, Kuwait, May 20-26, 1991
3. Department of Pediatrics, Kenyatta University Hospital, Nairobi, Kenya, Nov 18-21, 1992
4. Department of Pediatrics, University of Miami, Miami, Florida, February 22-25, 1993
5. Department of Pediatrics, University of the Philippines, Philippine General Hospital, November 6-13, 1993
6. Departments of Pediatrics, Surgery, and Anesthesia, University of Ghana and Korle-Bu Teaching Hospital, Accra, Ghana, November 15-22, 1993
7. Stephen Grimes Visiting Professor, Department of Anesthesiology, Duke University, Durham, North Carolina, December 14-15, 1994

8. Department of Anesthesiology, University of Pittsburgh, Children's Hospital in Pittsburgh, Pittsburgh, PA, April 17-18, 1995
9. Department of Anesthesiology, The Mayo Clinic, Rochester, MN, September 17-18, 1996
10. Warren Wheeler Visiting Professor, Children's Hospital, Columbus, OH, November 19, 1997
11. Departments of Pediatrics, McGill University and University of Montreal, Montreal, Canada, May 6-7, 1998
12. Department of Anesthesiology and Intensive Care, Karolinska Hospital, Stockholm, Sweden, September 12-17, 1999
13. Department of Anesthesiology, Columbia University, New York, NY, March 21-22, 2001
14. Department of Anesthesiology, Vanderbilt University, Nashville, TN, September 7-8, 2001
15. Ray Kroc Visiting Professor, University of Ljubljana, Ljubljana, Slovenia, June 17-21, 2002
16. The Josephine Templeton Visiting Professor, The Children's Hospital of Philadelphia, Philadelphia, PA, September 22-23, 2004

## XII. INVITED LECTURES

1. Pediatric Grand Rounds, Children's Hospital of Philadelphia, December 1984 - "CARDIOPULMONARY RESUSCITATION IN CHILDREN"
2. Pediatric Intensive Care Symposium, Newport Beach, California, February 1986 - "RESPIRATORY MUSCLE FATIGUE IN A NEWBORN MODEL" and "CPR IN CHILDREN: NEW DEVELOPMENTS IN OUTCOME AND TECHNIQUE"
3. 6th Myron B. Laver International Postgraduate Course, Basel, Switzerland, March 1986 - "CPR IN INFANTS AND CHILDREN: RESULTS AND TECHNIQUES"
4. Annual Fall Meeting, Anesthetic Spectrum, Maryland Association of Nurse Anesthetists, Baltimore, Maryland, October 1986 - "ANESTHESIA IN THE FIRST 24 HOURS OF LIFE"
5. American Society of Anesthesiologists Annual Meeting, Refresher Course-Clinical Update Program, Las Vegas, Nevada, October 1986 - "RESPIRATORY CONTROL IN NEWBORN AND YOUNG CHILDREN"
6. American Academy of Pediatrics Annual Meeting, Washington, D.C., November 1986 - "RESPIRATORY MUSCLE FUNCTION AND DYSFUNCTION"
7. Anesthesia Grand Rounds, Hahnemann University, Department of Anesthesiology, August 1987 - "RESPIRATORY CONTROL IN THE NEWBORN AND YOUNG CHILDREN"

8. Society for Pediatric Anesthesia Inaugural Meeting, Atlanta, Georgia, October 1987 - "ANESTHESIA IN THE CHILD WITH UPPER RESPIRATORY INFECTION"
9. Anesthesia Grand Rounds, University of Dusseldorf, West Germany, October 1988 - "DIAPHRAGMATIC FATIGUE AND METABOLISM"
10. Anesthesia Grand Rounds, University of Ulm, West Germany, October 1988 - "DIAPHRAGMATIC FATIGUE AND METABOLISM"
11. Anesthesia Departmental Lecture, University of Ulm, West Germany, October 1988 - "NEONATAL ANESTHESIA"
12. Anesthesia Grand Rounds, Children's National Medical Center, Washington, D.C., November 1988 - "DIAPHRAGMATIC FATIGUE AND METABOLISM"
13. Monthly Pediatric Staff Meeting, The Anne Arundel General Hospital, Annapolis, MD, March 1989 - "EVALUATION AND MANAGEMENT OF THE INFANT IN SHOCK"
14. Central Atlantic Seminar in Anesthesiology, Arlington, VA, May 1989 - "UPPER RESPIRATORY TRACT INFECTIONS AND ANESTHESIA IN CHILDREN"
15. Pediatric Grand Rounds, St. Agnes Hospital, Baltimore, MD, January 1990 - "EVALUATION AND MANAGEMENT OF SHOCK"
16. Emergency Medicine Grand Rounds, Johns Hopkins Hospital, Baltimore, MD, February 1990 - "PEDIATRIC RESUSCITATION"
17. Pediatrics Trends Course, Moderator, Pediatric Anesthesia/Pediatric Intensive Care Section, Johns Hopkins Hospital, Baltimore, MD, April, 1989, 1990, 1991, 1992
18. American Thoracic Society, Sunrise Seminar, Boston, MA, May 1990 - "DIAPHRAGMATIC FATIGUE IN THE NEWBORN"
19. Society for Pediatric Anesthesia, Las Vegas, NV, October 1990 - "RESPIRATORY MUSCLE FATIGUE IN INFANTS AND CHILDREN"
20. National Medical Association Annual Meeting, Indianapolis, IN, July 1991 - "CURRENT CONCEPTS IN PEDIATRIC ANESTHESIA INTRAOPERATIVE CARE"
21. American Academy of Pediatrics Annual Meeting, New Orleans, LA, October 1991 - "RESPIRATORY MUSCLE PERFORMANCE IN INFANTS AND CHILDREN"
22. German Society of Anesthesia & Intensive Care - Workshop, Pediatric Anesthesia, Potsdam, Germany, December 1991 - "LUNG PATHOPHYSIOLOGY IN CHILDREN"
23. Pediatric Grand Rounds, St. Agnes Hospital, Baltimore, MD, June 1992 - "CURRENT CONCEPTS IN PEDIATRIC CRITICAL CARE MEDICINE"
24. American Medical Association Media Briefing, New York, NY, September 1992 - "PROFILE OF THE INNER WORKINGS OF A TRAUMA CENTER"

25. SAIDIA Lecture Series, Kenyatta University Hospital, Nairobi, Kenya, November 1992 - "ADVANCED PEDIATRIC LIFE SUPPORT"
26. Pediatric Grand Rounds, University of Miami, Miami, FL, February 1993 - "EFFECTS OF NARCOTICS ON BREATHING IN CHILDREN"
27. Pediatric Intensive Care Research Conference, University of Miami, Miami, FL, February 1993 - "DIAPHRAGMATIC FATIGUE AND METABOLISM IN AN INFANT MODEL"
28. Pediatric Intensive Care Conference, Children's National Medical Center, Washington D.C. March 1993 - "RESPIRATORY MUSCLE FATIGUE, PATHOPHYSIOLOGY, AND MANAGEMENT"
29. 6th Brazilian Congress of Intensive Care Medicine, Porto Alegre, Brazil, October 19, 1993 - "MECHANICAL VENTILATION IN PEDIATRIC PATIENTS IN THE 90'S"
30. 6th Brazilian Congress of Intensive Care Medicine, Porto Alegre, Brazil, October 20, 1993 - "THE MANAGEMENT OF THE PEDIATRIC PATIENT WITH TRAUMA"
31. 6th European Congress on Pediatric, Surgical, and Neonatal Intensive Care, Athens, Greece October 15, 1993 - "THE MANAGEMENT OF THE POLY TRAUMATIZED CHILD"
32. 6th European Congress on Pediatric, Surgical, and Neonatal Intensive Care, Athens, Greece October 14, 1993 - "NEW MODES OF MECHANICAL VENTILATION IN PEDIATRIC ACUTE RESPIRATORY FAILURE"
33. Postgraduate Course on Pediatric Intensive Care, University of Philippines, Philippines General Hospital, November 1993 - "CARDIOPULMONARY PHYSIOLOGY & MONITORING IN ICU"
34. Postgraduate Course on Pediatric Intensive Care, University of Philippines, Philippines General Hospital, November 1993 - "RESPIRATORY COMPLICATIONS IN SHOCK & SEPSIS"
35. Postgraduate Course on Pediatric Intensive Care, University of Philippines, Philippines General Hospital, November 1993 - "PAIN MANAGEMENT & ANESTHESIA"
36. Symposium, The Society of Critical Care Medicine National Meeting, Orlando FL, January 1994 - "PERMISSIVE HYPERCAPNIA"
37. 14th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 1994 - "CONTROVERSIES IN MECHANICAL VENTILATION IN CHILDREN"
38. 14th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 1994 - "DIAPHRAGM FATIGUE ASSESSED BY <sup>31</sup>P NMR SPECTROSCOPY"
39. 14th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 1994 - "RESPIRATORY MUSCLE FATIGUE - EFFECTS OF"

AMINOPHYLLINE ON ACTIVATION, STRENGTH, AND METABOLISM OF THE DIAPHRAGM”

40. 1st Israel Advanced Pediatric Life Support Course, Children's Medical Center Israel, Petach Tikva, Israel - July 1994
41. Stephen Grimes Lectureship, Duke University Medical Center, Durham, NC, December 1994 - “TAMING THE TECHNOLOGY OF ARDS IN CHILDREN”
42. Pediatric Intensive Care Research Conference, Children's Hospital in Pittsburgh, Pittsburgh, PA, April 17, 1995 - “THE SCIENCE AND PRACTICE OF WEANING FROM MECHANICAL VENTILATION IN CHILDREN”
43. Paediatric Section, Australia-New Zealand Intensive Care Society, Brisbane, Australia, October 11, 1995 - “CEREBRAL PROTECTION - THE MYTHS EXPOSED”
44. 20th Australia-New Zealand Intensive Care Society Meeting, Brisbane, Australia, October 12-14, 1995 - “WHAT'S NEW IN PAEDIATRIC VENTILATION”
45. 20th Australia-New Zealand Intensive Care Society Meeting, Brisbane, Australia, October 12-14, 1995 (Keynote speaker) - “THE INTERFACE WITH TECHNOLOGY”
46. The Society for Pediatric Anesthesia, Tampa, FL., February 15-18, 1996, PEDIATRIC TRAUMA OUTCOME - THE ICU PERSPECTIVE”
47. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - “AIMS AND GOALS TO OPTIMIZE TRAUMA CARE”
48. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - “THE OPTIMAL MONITORING OF CIRCULATION”
49. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - “CHALLENGE TO THE FUTURE - PAEDIATRIC ANESTHESIA”
50. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - “ARDS AND ECMO; PRELIMINARY DATA FROM A RANDOMIZED CLINICAL TRIAL”
51. Anesthesia Grand Rounds, Johns Hopkins Hospital, Baltimore, MD, September 12, 1996 - “WHAT'S NEW IN PEDIATRIC VENTILATION?”
52. Anesthesia Grand Rounds, The Mayo Clinic, Rochester, MN, September 18, 1996 - “ARDS IN CHILDREN - A STATUS REPORT”
53. Pediatric Pulmonary Medicine Conference, The Johns Hopkins University, Baltimore, MD, November 25, 1996 - “LIQUID VENTILATION”
54. The Society for Pediatric Anesthesia, San Antonio, TX, February 13-16, 1997, “ANESTHESIA IN CHILDREN WITH URI”
55. The Central Ohio Pediatric Society, Columbus, OH, November 19, 1997, “VIVIAN THOMAS AND THE BLUE BABY OPERATION - A SOCIAL HISTORY”

56. Pediatric Grand Rounds, Children's Hospital, Columbus, OH, November 20, 1997, "PEDIATRIC TRAUMA OUTCOME - THE ICU PERSPECTIVE"
57. Society for Critical Care Medicine, San Antonio, TX, February 4-8, 1998 "PEDIATRIC RESPIRATORY MUSCLE DYSFUNCTION"
58. Pediatric Grand Rounds, Children's Hospital of Montreal, Montreal, Canada, May 6, 1998 "CPR – IS IT WORTH IT?"
59. Pediatric Grand Rounds, St. Justine Hospital, Montreal, Canada, May 6, 1998 "CPR – IS IT WORTH IT?"
60. 3rd International Symposium: Advances in Management of Critically Ill Children, Buenos Aires, Argentina, June 25-27, 1998. "ARDS AND RESCUE THERAPY"
61. 3rd International Symposium: Advances in Management of Critically Ill Children, Buenos Aires, Argentina, June 25-27, 1998. "OUTCOME OF PEDIATRIC TRAUMA"
62. 3rd International Symposium: Advances in Management of Critically Ill Children, Buenos Aires, Argentina, June 25-27, 1998. "BRONCHIOLITIS AND ACUTE RESPIRATORY FAILURE"
63. 3rd International Symposium: Advances in Management of Critically Ill Children, Buenos Aires, Argentina, June 25-27, 1998. "THE PEDIATRIC AIRWAY – SPECIAL SITUATIONS"
64. Anesthesia Grand Rounds, Johns Hopkins Hospital, Baltimore, MD, February 11, 1999. "PEDIATRIC HEAD TRAUMA"
65. Western Pacific Association of Critical Care Medicine 10<sup>th</sup> Congress on Critical Care, Manila, Philippines, February 20-23, 1999. "APLS UPDATE"
66. Western Pacific Association of Critical Care Medicine 10<sup>th</sup> Congress on Critical Care, Manila, Philippines, February 20-23, 1999. "TOTAL QUALITY ASSURANCE, IMPROVEMENT IN ICU, COST AND OUTCOME"
67. Western Pacific Association of Critical Care Medicine 10<sup>th</sup> Congress on Critical Care, Manila, Philippines, February 20-23, 1999. "ANALGESIA AND SEDATION: NEW APPROACHES AND APPLICATIONS IN THE CRITICALLY ILL"
68. Western Pacific Association of Critical Care Medicine 10<sup>th</sup> Congress on Critical Care, Manila, Philippines, February 20-23, 1999. "ICU TELEMETRY AND REGIONALIZATION OF CARE"
69. Anesthesia Rounds, The Karolinska Hospital Stockholm, Sweden, September 13, 1999. "WEANING FROM MECHANICAL VENTILATION"
70. Emergency Medicine Grand Rounds, Johns Hopkins Hospital, Baltimore, MD, February 2000 - "PEDIATRIC HEAD TRAUMA - STATE OF THE ART"

71. Society for Critical Care Medicine, Orlando, FL, February 10-14, 2000 - 'OUTCOME OF PEDIATRIC HEAD TRAUMA'
72. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 24-29, 2000 - "ANALGESIA AND SEDATION IN CHILDREN"
73. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 24-29, 2000 - "MUSCLE RELAXANTS: USE AND ABUSE"
74. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 24-29, 2000 - "NEUROMYOPATHIES IN ICU"
75. IV Mexican Congress on Paediatric Critical Care, Merida, Mexico, October 21-27, 2000 - "VENTRICULAR DYSFUNCTION IN FONTAN SURGERY"
76. IV Mexican Congress on Paediatric Critical Care, Merida, Mexico, October 21-27, 2000 - "HEMOFILTRATION AND DIALYSIS IN CARDIAC POSTSURGERY PATIENTS"
77. IV Mexican Congress on Paediatric Critical Care, Merida, Mexico, October 21-27, 2000 - "RESPIRATORY MUSCLE FUNCTION DURING WEANING FROM MECHANICAL VENTILATION"
78. IV Mexican Congress on Paediatric Critical Care, Merida, Mexico, October 21-27, 2000 - "NEW INOTROPES IN PEDIATRIC PATIENTS"
79. IV Mexican Congress on Paediatric Critical Care, Merida, Mexico, October 21-27, 2000 - "PROGNOSTIC FACTORS IN TRAUMATIC BRAIN INJURY PEDIATRIC PATIENTS"
80. Society for Critical Care Medicine, San Francisco, CA, February 13, 2001 - "PEDIATRICS - THE YEAR IN REVIEW"
81. Society for Pediatric Anesthesia, San Diego, CA, February 23, 2001 - "EVIDENCE-BASED MEDICINE"
82. Anesthesiology Grand Rounds, Columbia University, New York, NY, March 22, 2001 - "PEDIATRIC HEAD TRAUMA MANAGEMENT - STATE OF THE ART"
83. Anesthesiology Grand Rounds, Vanderbilt University, Nashville, TN, September 7, 2001 - "EVIDENCE-BASED MEDICINE IN ANESTHESIOLOGY"
84. British Pediatric Intensive Care Society, Royal Brompton Hospital, London, UK, October 19, 2001 - "RESPIRATORY MUSCLE FATIGUE AND WEANING"
85. British Pediatric Intensive Care Society, Royal Brompton Hospital, London, UK, October 19, 2001 - "ARDS - A PAEDIATRIC PERSPECTIVE"
86. Society for Critical Care Medicine, San Diego, CA, January 28, 2002 - "PEDIATRICS - THE YEAR IN REVIEW"

87. International Anesthesia Research Society, San Diego, CA, March 18, 2002 –  
“EVIDENCE-BASED MEDICINE IN PEDIATRIC ANESTHESIA”
88. European Society for Pediatric and Neonatal Intensive Care, Ljubljana, Slovenia, June 13, 2002 –  
“FUTURE DEVELOPMENTS OF ARTIFICIAL ORGAN SUPPORT IN PICU”
89. European Society for Pediatric and Neonatal Intensive Care, Ljubljana, Slovenia, June 13, 2002 –  
“RESPIRATORY ROLE OF THE DIAPHRAGM: FROM LABORATORY STUDIES TO CLINICAL PRACTICE?”
90. Society for Critical Care Medicine, San Antonio, TX, January 30, 2003 –  
“PEDIATRICS – THE YEAR IN REVIEW”
91. 41<sup>st</sup> Clinical Conference in Pediatric Anesthesia, Los Angeles, CA, February 1, 2003 –  
“WHO STILL CARES ABOUT URI’S”
92. 41<sup>st</sup> Clinical Conference in Pediatric Anesthesia, Los Angeles, CA, February 2, 2003 –  
“BEFORE THE BAR”
93. 41<sup>st</sup> Clinical Conference in Pediatric Anesthesia, Los Angeles, CA, February 2, 2003 –  
“WHAT THE INTENSIVIST WANTS YOU TO KNOW ABOUT YOUR NEXT CASE”
94. 4<sup>th</sup> World Congress of Pediatric Intensive Care. Boston, MA, June 9, 2003 –  
“MECHANICAL VENTILATION: THE FUTURE”
95. 4<sup>th</sup> World Congress of Pediatric Intensive Care. Boston, MA, June 9, 2003 –  
“NOVEL APPROACHES TO MONITORING SEDATION AND ANALGESIA”
96. 11<sup>th</sup> Asian Congress of Pediatrics, Bangkok, Thailand, November 7, 2003, -  
“PEDIATRIC ACUTE RESPIRATORY DISTRESS SYNDROME”
97. AAMC Annual Meeting - Group on Education Affairs Special Plenary Session, Washington, DC, November 11, 2003 –  
“CAN YOU SHRINK YOURSELF TO GREATNESS – THE HOPKINS EXPERIENCE”
98. Thai Association of Pediatric Respiratory & Critical Care Medicine, Queen Sirikit National Institute of Child Health, Bangkok, Thailand, November 3, 2003  
“ACUTE ASTHMATIC MANAGEMENT FROM ER TO PICU”
99. Society for Critical Care Medicine, Orlando, FL, February 22, 2004 –  
“INTERACTIVE CASE PRESENTATIONS: TRAUMATIC BRAIN INJURY”
100. Society for Pediatric Anesthesia, Phoenix, AZ, March 6, 2004 –  
“IS THERE LIFE OUTSIDE THE OPERATING ROOM? ADMINISTRATIVE OPPORTUNITIES FOR ANESTHESIOLOGISTS”
101. American Academy of Ophthalmology, Baltimore, MD, June 11 2004-  
“eLEARNING AND THE INTERNET”

102. Anesthesiology Grand Rounds, The Children's Hospital of Philadelphia, September 23, 2004, "See one, be one, teach one...The Doctor-Patient Relationship in a Quaternary World"
103. Association of University of Professors of Neurology, Toronto, Canada, October 3, 2004-"FINANCING MEDICAL EDUCATION IN AN AGE OF UNCERTAINTY"

### **XIII. SYMPOSIA CHAIRMAN**

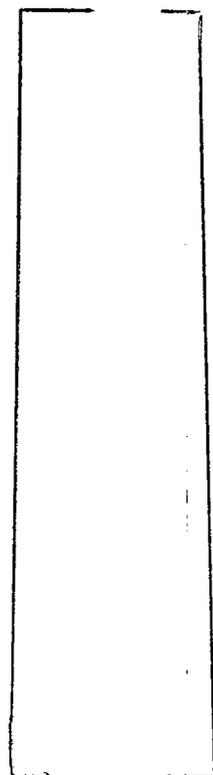
1. Society for Pediatric Research, New Orleans, LA, April 1991 - POSTER SYMPOSIUM ON "PAIN"
2. 1st World Congress of Pediatric Intensive Care, Baltimore, MD, June 1992, - SYMPOSIUM ON "RESPIRATORY FAILURE"
3. Society of Pediatric Research, Washington D.C., May 1993 - SYMPOSIUM ON "PEDIATRIC CRITICAL CARE"
4. 6th European Congress of Pediatric Intensive Care Medicine, Athens, Greece, October 1993. "PEDIATRIC TRAUMA"
5. Society for Pediatric Anesthesia, Phoenix, AZ, Feb 1995 - ORAL ABSTRACT PRESENTATIONS
6. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - "ACUTE LUNG INJURY"
7. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996 - "ACUTE LUNG INJURY/AIRWAY"
8. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996. "INFECTIOUS DISEASES"
9. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996. "PRESSURE REGULATED VOLUME CONTROL (PRVC) VENTILATION"
10. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996. "PULMONARY ABSTRACTS"
11. 2nd World Congress on Pediatric Intensive Care, The Netherlands, June 23-26, 1996. "PREHOSPITAL MANAGEMENT OF PEDIATRIC EMERGENCIES"
12. Society for Critical Care Medicine, San Antonio, TX, February 4-8, 1998 "PULMONARY CRITICAL CARE - POSTER DISCUSSION SESSION"
13. Society for Critical Care Medicine, Orlando, FL, February 10-14, 2000 "NEURO-CRITICAL CARE"
14. Society for Critical Care Medicine, Orlando, FL, February 10-14, 2000 "PEDIATRIC CLINICAL AND EXPERIMENTAL NEUROSCIENCE" - ORAL ABSTRACT PRESENTATIONS

15. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 24-29, 2000 - SYMPOSIUM ON "NEONATES AND CHILDREN"
17. 3rd World Congress on Pediatric Intensive Care, Montreal, Canada, June 24-29, 2000 - SYMPOSIUM ON "NEURONAL INJURY IN NEONATES AND CHILDREN: PATHOPHYSIOLOGY"
18. Society for Critical Care Medicine, San Diego, CA, January 28, 2002 - "CONTEMPORARY MONITORING OF CRITICALLY ILL CHILDREN"
19. International Anesthesia Research Society, San Diego, CA, March 17, 2002 - "PEDIATRIC ANESTHESIA – ABSTRACT PRESENTATIONS"
20. European Society for Pediatric and Neonatal Intensive Care, Ljubljana, Slovenia, June 13, 2002 – "RESPIRATORY FAILURE – PLENARY SESSION"
21. 11<sup>th</sup> Asian Congress of Pediatrics, Bangkok, Thailand, November 3-7, 2003, - "PEDIATRIC CRITICAL CARE"

#### **XIV. MEDICAL STUDENT LECTURES**

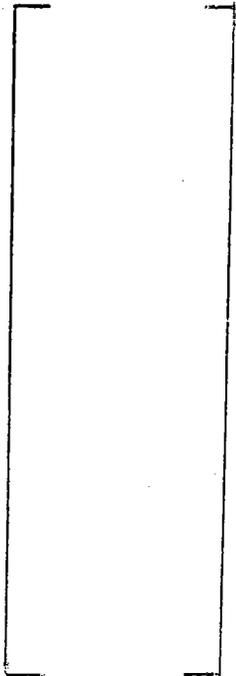
1. "Current Challenges for the Physician in Society" (1<sup>st</sup> year "Physician in Society" course, given yearly in September)
2. "General Anesthetics" (2<sup>nd</sup> year Pharmacology course, given yearly in January)

#### **XV. MENTORSHIP – POSTDOCTORAL FELLOWS**



Associate Professor, Anesthesiology  
 Associate Professor, Pediatrics  
 Pediatric Intensivist  
 Training Program Director, PCCM\*  
 Training Program Director, PCCM\*  
 Assistant Professor, Pediatrics  
 Assistant Professor, Anesthesiology  
 Assistant Professor, Anesthesiology  
 Assistant Professor, Anesthesiology  
 Assistant Professor, Anesthesiology  
 Pediatric Intensivist  
 Pediatric Intensivist  
 Assistant Professor, Critical Care  
 Assistant Professor, Anesthesiology  
 Assistant Professor, Anesthesiology  
 Director of Pediatric Critical Care  
 Professor and Vice Chair, Pediatrics  
 Assistant Professor, Anesthesiology  
 Director of Pediatric Critical Care  
 Assistant Professor of Anesthesiology  
 Director, JH School of Medicine Simulation Center  
 (Deceased)  
 Assistant Professor, ACCM\*\*  
 Associate Professor of Pediatrics  
 Chief, Pediatric Critical Care Medicine

Rush Medical College, Chicago, IL  
 UCLA, Los Angeles, CA  
 Huntsville Hospital, Huntsville, AL  
 Cleveland Clinic, Cleveland, OH  
 Univ of Chicago, Chicago, IL  
 Washington University in St. Louis  
 Children's Hospital, Seattle, WA  
 Washington University in St. Louis  
 Mayo Clinic, Rochester, MN  
 University of Hawaii  
 Barbara Bush Children's Hosp, Portland, ME  
 Greenville Hospital System, SC  
 Toronto Hospital for Sick Children  
 Johns Hopkins, Baltimore, MD  
 Children's Hospital of LA  
 University of South Dakota  
 University of Chicago  
 Vanderbilt Children's Hospital  
 Children's Hospital of Philadelphia  
 Johns Hopkins SOM, Baltimore, MD  
 Johns Hopkins SOM, Baltimore, MD  
 University of North Carolina



Pediatric Anesthesiologist	Phoenix, AZ
Assistant Professor, Pediatrics	Massachusetts General Hospital
Pediatric Anesthesiologist	A.I.duPont Hosp for Children, Wilmington
Assistant Professor, Pediatrics	Johns Hopkins SOM, Baltimore, MD
Assistant Professor Critical Care Medicine	Children's National Medical Center, DC
Assistant Professor, ACCM	Johns Hopkins SOM, Baltimore, MD
Director of Pediatric Critical Care	Indianapolis Children's Hospital
Assistant Professor, Pediatrics	Karolinska Institute, Stockholm, Sweden
Division Director, Pediatric Anesthesiology	Columbus Children's Hospital
Pediatric Anesthesiology	Mayo Clinic in Rochester, MN
Instructor, Pediatrics	Johns Hopkins SOM, Baltimore, MD
Assistant Professor, ACCM	Johns Hopkins SOM, Baltimore, MD
Chief, Department of Pediatric Critical Care	Brisbane, Australia
Director of Pediatric Critical Care	Hasbro Children's Hospital, Brown University SOM, Providence, RI
Assistant Professor, ACCM	Johns Hopkins SOM, Baltimore, MD
Lecturer, Pediatric Critical Care	Cambridge University, Cambridge, U.K.
Professor of Pediatrics/Anesthesiology	University of Missouri, Columbia, MO
Vice Chair, Department of Anesthesiology	
Professor of Pediatrics/Anesthesiology	Wake Forest University
Division Director, Peds Anesthesiology/CCM	
Pediatric Intensivist	LeHigh Hospital, LeHigh, PA
Director of Pediatric Critical Care	Sinai Hospital, Baltimore, MD

\*PCCM = Pediatric Critical Care Medicine  
 \*\*ACCM = Anesthesiology and Critical Care Medicine

**APPEARS THIS WAY  
 ON ORIGINAL**