

CURRICULM VITAE

Jay Mark Wilson, M.D.

PART I: General Information

DATE PREPARED: October 2006

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Education:

1972-1976	B.S.	University of Massachusetts at Amherst, Biochemistry
1976-1978	M.S.	Massachusetts Institute of Technology, Cell Biology, Animal Cell and Tissue Culture
1978-1982	M.D.	Albert Einstein College of Medicine

Postdoctoral Training:

1982-1983	Intern	Surgery	Brigham & Women's Hospital, Boston
1983-1987	Resident	General Surgery	Brigham and Women's Hospital, Boston
1987-1988	Assoc. Chief Resident	Pediatric Surgery	Children's Hospital, Boston
1988-1989	Chief Resident	Pediatric Surgery	Children's Hospital, Boston

Licensure and Certification:

5/83	National Board of Medical Examiners
6/3/87	Massachusetts Medical Registration, License #57801
12/10/90, recert. 10/00	American Board of Surgery, General Surgery #35869
10/23/92, recert. 10/02	American Board of Surgery, Critical Care #1071
4/15/94, recert 10/03	American Board of Surgery, Pediatric Surgery #646
3/21/95	Advanced Trauma Life Support

Academic Appointments:

1989-1993	Instructor in Surgery, Harvard Medical School, Boston
1993-2001	Assistant Professor of Surgery, HMS
2001-	Associate Professor of Surgery, HMS

Hospital or Affiliated Institution Appointments:

1987-1993	Assistant in Surgery	Children's Hospital, Boston
1989-1994	Associate Surgeon	Boston City Hospital
1989-1994	Associate Surgeon	Franciscan Children's Hospital

1994-1996	Associate Surgeon	MetroWest Medical Center
1996-	Associate Surgeon	Boston Medical Center
1993-	Senior Associate in Surgery	Children's Hospital, Boston

Major Committee Assignments:

Affiliated Institution:

1989-2003	Chairman Tissue Committee	Children's Hospital, Boston
1989-1993	Cardiopulmonary Resuscitation Committee	Children's Hospital, Boston
1989-1999	Nutrition Advisory Committee	Children's Hospital, Boston
1989-1993	Needle stick Committee	Children's Hospital, Boston
1991-1993	ISD Committee	Children's Hospital, Boston
1991-	Neonatal Intensive Care Committee	Children's Hospital, Boston
1991-	Multidisciplinary Intensive Care Committee	Children's Hospital, Boston
1998-	Transfusion Committee	Children's Hospital, Boston
2005-	Critical Care Policy and Practice Committee	Children's Hospital, Boston
2005-	Governance Committee ICU	Children's Hospital, Boston

National:

1991-1995	Critical Care Committee, American Pediatric Surgical Association
1992-1995	Steering Committee and Treasurer, Extracorporeal Life Support Organization (ELSO)
1992-1995	Chairman, ELSO National Congenital Diaphragmatic Hernia Study Group
1996-	Founding Member, National Congenital Diaphragmatic Hernia Study Group
1997-	Publications Committee, American Academy of Pediatrics
1998-	Critical Care Committee, American Pediatric Surgical Association
1998-2000	Vice Chair, Publications Committee, American Academy of Pediatrics
2000	Chairman, Publications Committee, American Academy of Pediatrics
2002	Program Committee, American Academy of Pediatrics
2002-2003	Chairman, Critical Care Committee, American Pediatric Surgical Association
2005-	Fetal Therapy Committee, American Pediatric Surgical Association

Professional Societies:

1989-	Charter Member, Extracorporeal Life Support Organization (ELSO)
1990-1993	Associate Fellow, American College of Surgeons
1991-	Society of Critical Care Medicine
1991-	American Society for Artificial Internal Organs (ASAIO)
1992-	Fellow Surgical Section, American Academy of Pediatrics (FAAP)
1991-	Fellow, American College of Surgeons (FACS)
1995-	New England Surgical Society
1996-	Boston Surgical Society
1997-	American Pediatric Surgical Association (APSA)
1999-	Society of University Surgeons (SUS)

Editorial Boards:

1997-	Editorial Consultant, Journal of Pediatric Surgery
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Awards and Honors:

1976	Phi Beta Kappa
1976	B.S. Magna Cum Laude
1981	Junior Alpha Omega Alpha
1987	Resident Teaching Award, Brigham & Women's Hospital, Boston
1988	George E. Meyer Traveling Fellowship Award, Children's Hospital, Boston
1996	Stephen L. Gans International Traveling Fellowship Award

PART II: Research, Teaching, and Clinical Contributions

A. Narrative report of Research, Teaching and Clinical Contributions.

My research interest has centered on the problem of pulmonary hypoplasia specifically related to congenital diaphragmatic hernia. I have worked on this problem from both a laboratory and clinical perspective.

The laboratory endeavor has been directed at understanding the root cause of pulmonary hypoplasia in infants with CDH, and in attempting to understand the mechanisms of normal lung growth. My specific interest has been in developing mechanisms to accelerate the normal pattern of fetal lung growth. I was the first person to demonstrate that tracheal occlusion can accelerate fetal lung growth in the setting of congenital diaphragmatic hernia and produce lungs that are large, morphometrically normal, and physiologically much improved compared to the CDH counterpart. This research has stimulated an entire area of interest in pediatric surgery and there are now a dozen laboratories investigating the effects of tracheal occlusion on fetal lung growth. Additionally, this has been employed clinically in both San Francisco and Philadelphia with promising early results. My research subsequently demonstrated that fetal intervention is not essential because hydrostatic distention of lungs postnatally with perfluorocarbon also accelerates lung growth. This, too, has been employed clinically both here and elsewhere in over a dozen cases with promising early results. Clinical evaluation of both techniques are ongoing. Recently, my laboratory has been investigating the growth factors responsible for the observed acceleration in fetal lung growth. We have recently demonstrated that both insulin-like growth factor 1 (IGF-1) and vascular endothelial growth factor (VEGF) are stimulated in response to pulmonary stretch. Other laboratories have demonstrated acceleration of additional growth factors such as TGF beta. Our laboratory research will continue to focus on elucidation of growth factors responsible for fetal lung growth in the hopes that we can convert a surgical therapy tracheal occlusion into a pharmacologic one (growth factors). Much as treatment for duodenal ulcer has progressed from gastrectomy to H2 blockers. Most recently we have been developing a technique of tracheal occlusion utilizing an autolyzing gel which can be percutaneously injected. This is the least invasive method of promoting lung growth ever developed.

The clinical thrust of my research has been to understand the abnormal physiology present in infants with congenital diaphragmatic hernia and to optimize the postnatal management of these infants. This institution has the largest experience with congenital diaphragmatic hernia in the world with over 450 patients seen in the last 15 years. I have personally been involved in the management of over 300 of these patients since 1987. As a result of the efforts of the CDH team here, survival has increased from 50% in 1982 to 90% in 2003 for infants born with an isolated congenital diaphragmatic hernia. Improvements in therapy along the way have been the adoption of permissive hypercapnea to avoid barotrauma in these infants, the development of a new ventilator (the intratracheal pulmonary ventilator) which is patented and which has been employed successfully on eight infants with CDH, use of liquid ventilation and postnatal intrapulmonary distention with perfluorocarbon in infants with CDH. Recent clinical strategies have focused on support of the right heart in CDH patients. We also have the only Congenital Diaphragmatic Hernia Follow-up Clinic in the country to manage the complexities of CDH infants after discharge from the hospital. Currently we follow almost 20 patients.

On a national level, along with Dr. Kevin Lally in Houston and Dr. Max Langham in Florida, I organized the International Congenital Diaphragmatic Hernia Study Group which now has 65 contributing centers and a 3300-patient registry. This vehicle will, for the first time, allow prospective multicenter randomized trials of therapies for CDH to be conducted. The first trial, a prospective randomized trial of antenatal steroids for fetuses diagnosed with CDH, will begin shortly. These prospective randomized multicenter trials under the umbrella of the CDH Study Group should allow competing therapies to be compared directly and should accelerate progress in the field.

B. Funding Information

Private endowment -- \$200,000 unrestricted

C. Report of Current Research Activities

<i>Project</i>	<i>Role</i>
Molecular Biology of Pulmonary Stretch	P.I.
Gene Expression During Normal Pulmonary Development	P.I.
Pharmacologic Stimulation of Fetal Lung Fluid Secretion	P.I.
Energy Requirements On ECMO	Co P.I.
Intratracheal Ventilation	P.I.
Adrenal Insufficiency in Infants with CDH	P.I.
Insulin-like growth factor-I gene expression in three models of accelerated lung growth	P.I.
ECMO survival rates in neonates with CDH	P.I.
Gene Mutation and Rescue in Human Diaphragmatic Hernia	Co P.I.

D. Report of Teaching

Local Contributions:

1989	CDH	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 15 residents, 2 students, 3 hours preparation, 1 hour contact)
	ECMO	Surgical Grand Rounds, New England Deaconess Hospital, Boston (Lecturer, 12 residents, 5 Students, 3 hours preparation, 1 hour contact)
	ECMO	Residents Conference, Brigham & Women's Hospital, Boston (Lecturer, 10 residents, 5 Students, 3 hours preparation, 1 hour contact)
	Pediatric Surgical Emergencies	Surgical Grand Rounds, Boston City Hospital, Boston (Lecturer, 20 residents, 10 Students, 3 hours preparation, 1 hour contact)
	Necrotizing Enterocolitis	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 7 residents, 2 Students, 2 hours preparation, 3 hours contact)
1990	CDH & ECMO	1st Annual New England ECMO Symposium, Boston (Lecturer, 5 residents, 5 Students, 8 hours preparation, 5 hours contact)
	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 3 hours contact)
	CDH	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 20 residents, 5 Students, 3 hours preparation, 1 hour contact)

	Unconventional Ventilation	Surgical Section American Academy of Pediatrics, Boston (Lecturer, 40 residents, 10 Students, 5 hours preparation, 3 hours contact)
	Fetal Anomalies	Perinatology Rounds, Brigham & Women's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	CDH	Anesthesia Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 0 Students, 3 hours preparation, 1 hour contact)
	Neonatal Surgical Emergencies	Surgical Grand Rounds, Lahey Clinic, Burlington (Lecturer, 15 residents, 5 Students, 3 hours preparation, 1 hour contact)
1991	CDH	2nd Annual New England ECMO Symposium, Boston (Lecturer, 5 residents, 0 Students, 8 hours preparation, 5 hours contact)
	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 7 residents, 2 Students, 3 hours preparation, 1 hour contact)
	ECMO	Anesthesia Department, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	CDH	Perinatology Conference, Brigham & Women's Hospital, Boston (Lecturer, 5 residents, 2 Students, 3 hours preparation, 1 hour contact)
	CDH, ECMO, Cardiac ECMO	American Association of Respiratory Care, Boston (Lecturer, 3 residents, 12 Students, 3 hours preparation, 1 hour contact)
	Pediatric Surgical Emergencies	Grand Rounds, Faulkner Hospital, Jamaica Plain (Lecturer, 15 residents, 0 Students, 3 hours preparation, 1 hour contact)
1992	CDH	Boston Surgical Society, Boston (Lecturer, 10 residents, 0 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	3rd Annual New England ECMO Symposium, Boston (Lecturer, 5 residents, 0 Students, 8 hours preparation, 5 hours contact)
	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 5 hours preparation, 3 hours contact)
	ECMO	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 15 residents, 2 Students, 3 hours preparation, 1 hour contact)
1993	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hours contact)
	CDH & ECMO	4th Annual New England ECMO Symposium, Boston (Lecturer, 5 residents, 0 Students, 8 hours preparation, 5 hours contact)
	CDH	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

	CDH	Radiology Morning Conference, Children's Hospital, Boston (Lecturer, 15 residents, 2 Students, 3 hours preparation, 1 hour contact)
1994	CDH	Anesthesia Grand Rounds, Children's Hospital, Boston (Lecturer, 20 residents, 5 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Operating Room Conference, Children's Hospital, Boston (Lecturer, 5 residents, 0 Students, 3 hours preparation, 1 hour contact)
	Necrotizing Enterocolitis	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hours contact)
	Fetal Lung Development	Maternal-Fetal Medicine, Brigham & Women's Hospital, (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	CDH	Gross Society Lecture, Children's Hospital, Boston (Lecturer, 5 residents, 0 Students, 3 hours preparation, 1 hour contact)
	CDH	Joint Program in Neonatology's Basic Science (Lecturer, 15 residents, 5 Students, 3 hours preparation, 1 hour contact)
1995	CDH	Resident Training Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hours contact)
	CDH	MICU Medical Visit, Children's Hospital, Boston (Lecturer, 5 residents, 0 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Surgical Grand Rounds, New England Deaconess Hospital, Boston (Lecturer, 20 residents, 5 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Surgical Grand Rounds, Mount Auburn Hospital, Cambridge (Lecturer, 5 residents, 0 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Anesthesia Grand Rounds, Children's Hospital, Boston (Lecturer, 20 residents, 2 Students, 3 hours preparation, 1 hour contact)
1996	Necrotizing Enterocolitis	Resident Training Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hours contact)
	CDH	Anesthesia Grand Rounds, Children's Hospital, Boston (Lecturer, 20 residents, 5 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Medical Grand Rounds, Children's Hospital, Boston (Lecturer, 30 residents, 10 Students, 3 hours preparation, 1 hour contact)
	CDH & ECMO	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	Newborn Surgical Emergencies	Surgical Grand Rounds, MetroWest Medical Center, Framingham (Lecturer, 5 residents, 0 Students, 3 hours preparation, 1 hour contact)

	CDH	Horizons Critical Care Nursing Association, Boston (Lecturer, 0 residents, 0 Students, 3 hours preparation, 1 hour contact)
	ECMO	Brigham & Women's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	LUNG GROWTH	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	ECMO	Post-graduate Course in Pediatric Ventilation, Boston Park Plaza (Lecturer, 30 residents, 0 Students, 6 hours preparation, 4 hours contact)
	ECMO	MICU Teaching Lecture, Children's Hospital, Boston (Lecturer, 8 residents, 2 Students, 3 hours preparation, 1 hour contact)
	ECMO	MGH Post-graduate Course, Massachusetts General Hospital, (Lecturer, 40 residents, 0 Students, 4 hours preparation, 2 hours contact)
	Common Problems in Pediatric Surgery	Sturdy Memorial Hospital, Attleboro, MA (Lecturer, 2 residents, 0 Students, 3 hours preparation, 1 hour contact)
1997	CDH	Resident Training Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hours contact)
	CDH & Lung Development	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 15 residents, 0 Students, 3 hours preparation, 1 hour contact)
	CDH	Surgical Grand Rounds, UMass Medical Center, Amherst, MA (Lecturer, 20 residents, 5 Students, 3 hours preparation, 1 hour contact)
	Intrathoracic Congenital Anomalies	Neonatology Conference, Children's Hospital, Boston (Lecturer, 10 residents, 5 Students, 3 hours preparation, 1 hour contact)
	CDH	Seminar in Perfusion, Brigham & Women's Hospital, Boston (Lecturer, 2 residents, 10 Students, 3 hours preparation, 1 hour contact)
1998	ECMO	Resident Training Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 3 Students, 6 hours preparation, 3 hour contact)
	Liquid Ventilation & ECMO/ Cold Water Drowning	Trauma Conference, Children's Hospital, Boston (Lecturer, 20 residents, 0 Students, 4 hours preparation, 2 hour contact)
	CDH	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
1999	ECMO	Resident Training Teaching Conference, Children's Hospital, Boston (Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)
	ECMO/Cold Water Drowning	Boston MedFlight Conference, Burlington (Lecturer, 0 residents, 0 Students, 3 hours preparation, 1 hour contact)
	Necrotizing Enterocolitis	Resident Training Teaching Conference, Children's Hospital, Boston

(Lecturer, 10 residents, 2 Students, 6 hours preparation, 3 hour contact)

ECMO

Trauma Conference, Childrens Hospital, Boston

(Lecturer, 8 residents, 0 Students, 3 hours preparation, 1 hour contact)

CDH

Surgical Grand Rounds, Childrens Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

Lung Development

Surgical Grand Rounds, Childrens Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

ECMO

Neonatal Nursing Conference, Brigham and Women's Hospital,

(Lecturer, 0 residents, 0 Students, 3 hours preparation, 1 hour contact)

CDH

Resident Teaching Conference, Children's Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

2000 ECMO

Perfusion Seminar, Brigham and Women's Hospital, Boston

(Lecturer, 0 residents, 0 Students, 3 hours preparation, 1 hour contact)

CDH

Perinatal Conference, BI/Deac Hospital, Boston

(Lecturer, 15 residents, 5 Students, 3 hours preparation, 1 hour contact)

CDH

Radiology Grand Rounds, Childrens Hospital, Boston

(Lecturer, 15 residents, 0 Students, 3 hours preparation, 1 hour contact)

Necrotizing Enterocolitis

Resident Teaching Conference, Children's Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

Lung Development

Surgical Grand Rounds, Childrens Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

CDH

Resident Teaching Conference, Children's Hospital, Boston

(Lecturer, 10 residents, 2 Students, 3 hours preparation, 1 hour contact)

ECMO

Trauma Conference, Childrens Hospital, Boston

(Lecturer, 8 residents, 1 Student, 3 hours preparation, 1 hour contact)

CDH

Radiology Morning Conference, Children's Hospital, Boston

(Lecturer, 15 residents, 5 Students, 3 hours preparation, 1 hour contact)

2001 CDH

Anesthesia Grand Rounds, Children's Hospital, Boston

(Lecturer, 3 hours preparation, 1 hour contact)

ECMO

Resident Teaching Conference, Children's Hospital, Boston

(Lecturer, 3 hours preparation, 1 hour contact)

CDH

Pediatric Surgical Grand Rounds, Massachusetts General Hospital

(Lecturer, 3 hours preparation, 1 hour contact)

Lung Development

Resident Teaching Conference, Children's Hospital, Boston

(Lecturer, 3 hours preparation, 1 hour contact)

2002 CDH: Exposing the Hidden Morbidity

Surgical Grand Rounds, Children's Hospital, Boston

(Lecturer, 3 hours preparation, 1 hour contact)

	Lung Development	Surgical Grand Rounds, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	Cardiac, Ventilatory,& ECMO Support	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
2003	CDH	Anesthesia Grand Rounds, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	ECMO	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	CDH	Pediatric Surgical Grand Rounds, Massachusetts General Hospital (Lecturer, 3 hours preparation, 1 hour contact)
	Lung Development	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
2004	CDH	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	ECMO	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	Cardiac, Ventilatory,& ECMO Support	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	Lung Development	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
2005	CDH	Anesthesia Grand Rounds, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	ECMO	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	Cardiac, Ventilatory,& ECMO Support	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
2006		
	ECMO	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)
	Cardiac, Ventilatory,& ECMO Support	Resident Teaching Conference, Children's Hospital, Boston (Lecturer, 3 hours preparation, 1 hour contact)

Regional, National, International Contributions:

Visiting Professorships:

1993	CDH & ECMO	University of Connecticut Medical Center, Hartford, CT
1994	CDH CDH & ECMO CDH & ECMO	Ochsner Clinic, New Orleans, LA The Hospital For Sick Children, Toronto, Canada University of Massachusetts, Amherst, MA
1995	CDH	Wilford hall Medical Center, Lackland AFB, TX
1996	Lung Development CDH CDH & ECMO CDH	The University of Texas Health Science Center, Houston, TX III Symposium in Neonatal Intensive Care, Belo Horizonte, Brazil National Congress of Pediatric Surgery, Puerto Vallarta, Mexico XLIII Annual International Congress of the British Association of Pediatric Surgeons, Jersey, Channel Islands, UK
1997	CDH CDH	St. Louis Children's Hospital, St. Louis, MO Radiology Morning Conference, Children's Hospital, Boston
	Lung Development & CDH Lung Development & CDH Lung Development & CDH Lung Development & CDH Lung Development & CDH Lung Development & CDH	Great Ormand Street Hospital for Children, London, England Alder Hey Children's Hospital, Liverpool, England La Paz Children's Hospital, Madrid, Spain University Hospital Hamburg, Hamburg, Germany Sophia Children's Hospital, Rotterdam, The Netherlands International Symposium "State of the Art" in Paediatric Surgery, Dublin, Ireland
	CDH Lung Development & CDH ECMO	Touch the Professors Symposium, Goteborg, Sweden XVIII Brazilian Congress of Pediatric Surgery, Belo Horizonte, Brazil 6 th European Congress on Extracorporeal Life Support, Oxford, UK
1998	Lung Development & CDH Lung Development & CDH	Hermann Children's Hospital, Houston, Texas Sophia Children's Hospital, Rotterdam, The Netherlands
1999	Lung Development & CDH Lung Development & CDH	University of Connecticut Medical Center, Hartford, CT University of Florida, Gainesville
2000	Lung Development & CDH Lung Development & CDH	Ipokrates, Leuven, Belgium University Munster, Germany
2001	Lung Development & CDH Lung Development & CDH Lung Development & ECMO	Shands Children's Hospital, University of Florida, Gainesville Sophia Children's Hospital, Rotterdam, The Netherlands Great Ormand Street Hospital, London, U.K.

2002	Lung Development and CDH	Annual UAE Surgeons Association Meeting, Abu Dabi-United Arab Emirates
2003	CDH	Sophia Children's Hospital Perinatal Symposium, Rotterdam
2004		

Invited Lectures:

1991	CDH CDH	7 th Annual ECMO Symposium, Breckenridge, CO 22 nd Annual Meeting of the American Pediatric Surgical Association, Orlando, FL
1992	CDH Unconventional Ventilation Fetal Lung Growth Lung Development CDH	8 th Annual ECMO Symposium, Breckenridge, CO 23 rd Annual Meeting of the American Pediatric Surgical Association, Colorado Springs, CO American Society for Artificial Internal Organs 38 th Annual Meeting, Nashville, TN 4 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), Dearborn, MI 61 st Annual Meeting of the American Academy of Pediatrics, San Francisco, CA
1993	Liquid Ventilation Fetal Lung Development Hyperbilirubinemia Lung Development Cardiac ECMO	9 th Annual ECMO Symposium, Keystone, CO 12 th International Fetal Medicine and Surgery Society Meeting, Whistler, British Columbia, Canada 24 th Annual Meeting of the American Pediatric Surgical Association, Hilton Head, SC 40 th Annual International Congress of the British Association of Paediatric Surgeons, Manchester, England 5 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), Dearborn, MI
1994	ITPV CDH CDH CDH Fetal Surgery	Society of Critical Care Medicine, 23 rd Educational and Scientific Symposium, Orlando, FL 10 th Annual ECMO Symposium, Keystone, CO 41 st Annual International Conference of the British Association of Paediatric Surgeons, Rotterdam, The Netherlands 6 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), Dearborn, MI 80 th Annual Clinical Congress of the American College of Surgeons, Chicago, IL
1995	CDH ECMO CDH Lung Development CDH Newborn Surgical Emergencies	9 th Annual Pediatrics/Pediatric Surgery Day, Washington, DC Surgical Grand Rounds, Main Medical Center, Portland, ME 11 th Annual ECMO Symposium, Keystone, CO 41 st Annual Conference of the ASAIO, Chicago, IL 25 th Annual Meeting of the American Pediatric Surgical Association, Boca Raton, FL Pediatric Grand Rounds, Cape Cod Hospital, Hyannis, MA
1996	CDH	12 th Annual ECMO Symposium, Keystone, CO

	CDH	8 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), Dearborn, MI
	Fetal Surgery	82 nd Annual Clinical Congress of the American College of Surgeons, San Francisco, CA
1997	ITPV	26 th Educational and Scientific Symposium, Society of Critical Care Medicine, Orlando, FL
	CDH	13 th Annual ECMO Symposium, Keystone, CO
	CDH	28 th Annual Meeting of the American Pediatric Surgical Association, Naples, FL
1998	ECMO	27 th Educational and Scientific Symposium, Society of Critical Care Medicine, San Antonio, TX
	CDH	14 th Annual ECMO Symposium, Keystone, CO
	CDH	10 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), San Antonio, TX
1999	CDH	14 th Annual ECMO Symposium, Keystone, CO
	CDH	11 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), Ann Arbor, Michigan
	Physician Profiling	26 th Annual Meeting of the American Pediatric Surgical Association, Palm Springs, California
2000	Lung Development	15 th Annual ECMO Symposium, Keystone, CO
	CDH	12 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO), New Orleans, Louisiana
2001	CDH	16 th Annual ECMO Symposium, Keystone, CO
	Lung Development & CDH	Miami Children's Hospital, Miami, FL
	Pediatric Trauma	6 th Annual New England Regional Trauma Conference, Boston, MA
2002	Lung Development and CDH	Annual UAE Surgeons Association Meeting, Abu Dhabi-United Arab Emirates
	Lung Development and CDH	24 th Annual Management of the Tiny Baby Conference, Orlando, FL
	CDH	17 th Annual ECMO Symposium, Keystone, CO
	Echocardiography & CDH	13 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO) & CDH Study Group, Scottsdale, AZ
	ECMO	7 th Annual New England Regional Trauma Conference, Burlington, MA
2003	CDH	18 th Annual ECMO Symposium, Keystone, CO
	CDH	6 th World Congress of Perinatal Medicine, Osaka, Japan
	CDH	Sophia Children's Hospital Perinatal Symposium, Rotterdam
	ECMO	8 th Annual New England Regional Trauma Conference, Boston, MA
	CDH	AAP 2003 National Conference Surgical Section, New Orleans, LA
2004	CDH	19 th Annual ECMO Symposium, Keystone, CO
	ECMO	14 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO) & CDH Study Group, Ann Arbor, MI
2005	CDH	20 th Annual ECMO Symposium, Keystone, CO
	CDH	15 th Annual Meeting of the Extracorporeal Life Support Organization (ELSO) & CDH Study Group, Houston, Tx

CDH

British Association of Pediatric Surgeons, Dublin, Ireland

2006 CDH 21st Annual ECMO Symposium, Keystone, CO
CDH International Symposium on CDH, Manheim, Germany
CDH 7th European Association of Pediatric Surgeons, Maastricht, Netherlands
CDH APSA, Hilton Head, SC
CDH 16th Annual meeting of the Extracorporeal Life Support Organization
(ELSO) & CDH Study Group, Atlanta, GA
CDH Peter Rickham Memorial Lecture, Liverpool, UK

E. Report of Clinical Activities

I have an active clinical practice of pediatric surgery which is principally based at Children's Hospital Boston. I do perform day surgical procedures and see patients twice a month at the Lexington Specialty Care Center. My practice includes a broad spectrum of pediatric surgery, with a particular emphasis in three areas of special interest: congenital diaphragmatic hernia, fetal and neonatal thoracic conditions, and surgical critical care. While the majority of my patients are from New England, I receive referrals in these three areas both nationally and internationally.

I am the Surgical Director of Critical Care and run an ACGME approved fellowship in Surgical Critical Care.

I also direct the Extracorporeal Membrane Oxygenation Program at Children's Hospital which I run in conjunction with John Arnold from the Department of Anesthesia. This is one of the premiere ECMO programs in the country which has performed over 600 ECMO cases since its inception in 1984. I am also Surgical Director of the Multidisciplinary Intensive Care Unit (MICU) and Neonatal Intensive Care Unit (NICU) at Children's Hospital. I initiated and run the Congenital Diaphragmatic Hernia Follow-up Clinic which sees more than 150 patients born with CDH annually. It is the only program of its kind in the nation and the publications from it have established the benchmark for follow-up of CDH patients nationally.

PART III: Bibliography

Original Articles:

1. **Wilson JM**, Howell N, Sager R, and Davidson RL. Polyethylene-glycol-mediated cybrid formation: High efficiency techniques and cybrid formation without enucleation. *Somatic Cell Genetics* 1978;4:745-753.
2. Adzick NS, Vacanti JP, Lillehei CW, O'Rourke PP, Crone RK and **Wilson JM**. Fetal diaphragmatic hernia: Ultrasound diagnosis and clinical outcome in 38 cases. *J Pediatr Surg* 1989;24:654-658.
3. **Wilson JM**, Lund DP, Lillehei CW, and Vacanti JP. Congenital diaphragmatic hernia: Predictors of severity in the ECMO era. *J Pediatr Surg* 1991;26:1028-1034.
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- 1.) U.S. Patent No. 5,692,497 Microprocessor-controlled ventilator system and methods
- 2.) U.S. Patent No. 5,859,068 Acceleration of tissue growth using perfluorocarbon liquid
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