

**CURRICULUM VITAE**  
**Revised August 2018**

**BIOGRAPHICAL**

Name	<b>David M. Orenstein, M.D., M.A.</b>
Birth Place	Plainfield, New Jersey
Citizenship	U.S.A.
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**EDUCATION AND TRAINING**

**Undergraduate**

1967	Amherst College Amherst, Massachusetts	B.A.; Religion and Philosophy
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**Graduate**

1973	Case Western Reserve University Cleveland, Ohio	M.D.
2012	University of Pittsburgh	M.A.; Bioethics

**Post Graduate**

1973-1975	Case Western Reserve University Rainbow Babies and Children's Hospital Cleveland, Ohio	Residency: Pediatrics
1975-1977	Case Western Reserve University Rainbow Babies & Children's Hospital Cleveland, Ohio Carl F. Doershuk, M.D., Director	Fellowship: Pediatric Pulmonary Diseases

**APPOINTMENTS AND POSITIONS**

**Academic**

1977-1978	Case Western Reserve University	Senior Instructor of Pediatrics
1978-1981	Case Western Reserve University	Assistant Professor of Pediatrics
1981-1984	University of Tennessee	Assistant Professor of Pediatrics

Center for the Health Sciences  
Memphis, Tennessee

1984-1986	University of Pittsburgh School of Medicine	Visiting Assoc. Prof. of Pediatrics
1986-	University of Pittsburgh School of Medicine	Associate Professor of Pediatrics
1987-	University of Pittsburgh School of Medicine	Associate Professor of Pediatrics with Tenure
1989-	University of Pittsburgh School of Education	Associate Professor of Instruction & Learning (Exercise Physiology)
1993	University of Pittsburgh	Professor of Pediatrics (with Tenure) School of Medicine
1993 - 2004	University of Pittsburgh School of Education	Professor of Health, Physical & Recreation Education (Exercise Physiology) (Department name change in 2004)
2000	Children's Hospital of Pittsburgh	The Antonio J. and Janet Palumbo Professor of Cystic Fibrosis
2002 -	Children's Hospital of Pittsburgh	Principal Investigator (Pediatrics), Therapeutics Development Center
2004-	University of Pittsburgh	Center for Bioethics and Health Law, Affiliate Faculty Member
2004-	University of Pittsburgh	Professor of Health and Physical Activity School of Education (Exercise Physiology)
2012-	University of Pittsburgh	Center for Bioethics and Health Law, Core Faculty

### NON-ACADEMIC POSITIONS

1977-1978	University Hospitals of Cleveland	Acting Med. Director, Respiratory Therapy
1977-1978	University Hospitals of Cleveland	Acting Med. Director, Pediatric Pediatric Pulmonary Function Lab.
1978-1981	University Hospitals of Cleveland	Assistant Medical Director, Pediatric Respiratory Therapy
1977-1981	University Hospitals of Cleveland	Director, Pediatric Exercise Physiology Laboratory
1978-1984	Cleveland Cystic Fibrosis Center	Co-Director
1981-1984	Le Bonheur Children's Medical Center Memphis, Tennessee	Director, Cardiopulmonary Physiology Laboratories
1981-1984	Memphis Cystic Fibrosis Center	Director

1984-2000	Pittsburgh Cystic Fibrosis Center	Director
2000-2011	The Antonio J. and Janet Palumbo Cystic Fibrosis Center	Director
2011-2016	The Antonio J. and Janet Palumbo Cystic Fibrosis Center	Co-Director
2016-	The Antonio J. and Janet Palumbo Cystic Fibrosis Center	Director Emeritus
1984- 99	Children's Hospital of Pittsburgh	Director, Pulmonology Department
2004-	Children's Hospital of Pittsburgh	Chair, Ethics Committee

## CERTIFICATION AND LICENSURE

### Specialty Certification

1979	American Board of Pediatrics	(#023308)
1989	Pediatric Pulmonology	(#232)
1996	Pediatric Pulmonology	(Recertified)
2002 (through 2010)	Pediatric Pulmonology	(Recertified)

### Medical Licensure

1973	Ohio	036291
1981	Tennessee	13540
1984	Pennsylvania MD	031810-E

## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

<b>American Pediatric Society,</b>	1996-
<b>Society for Pediatric Research,</b> Program Committee, Session Moderator,	1986- 1989
<b>American Academy of Pediatrics, Fellow</b> Committee on Sports Medicine, Liaison from Pulmonology Section, Member (Sections Representative) Pulmonology Section, Executive Committee	1980- (member #125838; cme#581485)  1984-1991 1991-94  1987-96
<b>American Thoracic Society</b> Pediatric Assembly Program Committee, Pediatric Assembly Nominating Committee, Committee on the Scientific Basis of Pulmonary Care, Behavioral Science Section Pediatric Assembly Nominating Committee (Chair)	1983-84, 1990-91 1987-88 1984-1987  1994-95

**American College of Sports Medicine**

Fellow,	1979-present
Prevention and Rehabilitation Committee,	1984-88

<b>American Society for Bioethics and Humanities</b>	2004-
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**North American Society of Pediatric Exercise Medicine**

Board of Trustees,	1990 - 1996
Nominating Committee, Chairman	1991-92

**Cystic Fibrosis Foundation**

Professional Education and Clinical Training Committee	1983-1989
Program Committee for North American Conference	1987
Program Committee for North American Conference	1989
Program Committee for International Conference	1990
Physician/Scientist Grant Review Committee	1989
Steering Committee for Developing Consensus Forums	1989-
Center Committee	1990-1991
Professional Education /Clinical Training Committee	1992- present
Chair	1993, 1994
Abstract Review Committee for North American Conference	1993

**Southern Society for Pediatric Research****Eastern Society for Pediatric Research****Pittsburgh Pediatric Society****Memphis Thoracic Society**

Secretary,	1983-84
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**Memphis and Mid-South Pediatric Society****Tennessee Thoracic Society****Pennsylvania Thoracic Society****HONORS**

1977-1979	NIH Young Investigator Award National Heart and Lung Institute
1986	Blank Memorial Lecturer, Blank Children's Hospital, Des Moines, IA
1987	Joan B. Rodnan, MD, Memorial Award, Cystic Fibrosis Foundation Western Pennsylvania Chapter
1992-2013	Best Doctors in America→. Listed
1992	The Douglas Jones Lecturer, Dartmouth Medical School, Hanover, NH
1997	The Squires Club Visiting Professorship, The Wellesley Hospital, Toronto, Ontario, Canada
1998	Joan B. Rodnan, M.D., Memorial Award, Cystic Fibrosis Foundation Western Pennsylvania Chapter

- 2000- The Antonio J. and Janet Palumbo Professor of Cystic Fibrosis Children's Hospital of Pittsburgh, installed
- 2000 The Drew Wiltsie Lectureship, Children's Hospital of Pittsburgh, Pittsburgh, PA.
- HONORS, cont'd**
- 2000 The Nancy N. Huang, M.D., Guest Professorship in Cystic Fibrosis and Pediatric Pulmonology, St. Christopher's Hospital for Children, Philadelphia, PA
- 2001 Breath of Life Award, Cystic Fibrosis Foundation Western Pennsylvania Chapter
- 2002 The Elisa Klein Lectureship, University of Massachusetts School of Medicine, Worcester, MA
- 2003 Man of the Year in Science and Medicine, Vectors/Pittsburgh
- Patient Satisfaction Award (ranked first among all Children's Hospital of Pittsburgh attending physicians)
- 2006 Hans Wessel "Lifetime Commitment to Cystic Fibrosis" Award, Cystic Fibrosis Institute, presented at CFI Winter Retreat, Hoffman Estates, IL
- 2007 North Plainfield (NJ) High School Alumni Association Hall of Fame, elected
- 2008 Phillip George Lectureship in Pediatric Pulmonology (First Annual), LeBonheur Children's Medical Center and University of Tennessee Medical Center, Memphis, TN
- 2008 Stephanie Lynn Kossoff Memorial Lecture (Thirtieth Annual), Morgan Stanley Children's Hospital of New York-Presbyterian and Department of Pediatrics, College of Physicians & Surgeons, Columbia University. New York, NY.
- 2008 Patient Satisfaction Award (ranked first among all Children's Hospital of Pittsburgh of UPMC attending physicians)
- 2015 Healthcare Heroes, Lifetime Achievement Award, Pittsburgh Business Times
- 2018 Howard A. Mermelstein, MD, Award for Excellence in Pediatrics, Children's Hospital of Pittsburgh of UPMC

## PROFESSIONAL ACTIVITIES

### Research

#### GRANTS RECEIVED:

1977-1978	"Exercise Conditioning in Patients with cystic fibrosis" (P.I.)	Cystic Fibrosis Foundation, Rainbow Chapter	\$16,000
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1977-1979	"Exercise Conditioning in Patients with Cystic Fibrosis" (P.I.)	NIH Young Investigator Award	\$66,599
1979-1980	"Exercise and Ventilatory Control in Patients with Cystic Fibrosis" (P.I.)	Cystic Fibrosis Foundation, Rainbow Chapter	\$19,062
1979-1981	"Exercise Testing and Conditioning in Patients with Cystic Fibrosis" (P.I.) (Part of Program Project Grant, Studies in Cystic Fibrosis)	NIH	\$109,371
1980-1981	"Responses to Exercise and Heat Stress in Cystic Fibrosis" (P.I.)	Cystic Fibrosis Foundation, Rainbow Chapter	\$15,322
1982-1983	"Exercise Testing and Conditioning in Asthma" (P.I.)	American Lung Association of Tennessee	\$9,000
1984-1986	"Exercise Tolerance with Nutritional Repletion in Cystic Fibrosis" (P.I.)	Cystic Fibrosis Foundation	\$92,953
1985	"Activity, Bronchial Obstruction and Fitness in Asthma" (P.I.)	Children's Hospital of Pittsburgh Research Advisory Committee	\$7,450
1986-1987	"Effects of Oxygen Supplementation on Exercise in Cystic Fibrosis" (P.I.)	Children's Hospital of Pittsburgh Research Advisory Committee	\$7,000
1988-1992	"Long-term Exercise Intervention in Cystic Fibrosis" (P.I.)	NIH, RO1 HL35334	\$1,190,608 (direct)
1989-1990	"Ciprofloxacin vs. Cipro + Rifampin Therapy in CF" (P.I.)	Cystic Fibrosis Foundation	\$97,443
1992	"A Phase III, Multicenter, Double-blind, Placebo controlled, Parallel Study to Evaluate the Safety and Efficacy of Aerosolized Recombinant Human DNase (rH DNase) inpatients with Cystic Fibrosis" (Co-I)	Genentech, Inc. GHBA - 545	\$106,136
1992-1993	"A Six-month Randomized, Parallel Group, Double-blind Clinical Trial Comparing Amiloride Hydrochloride with Placebo in Adolescent and Adult patients with Cystic Fibrosis" (P.I. for Pittsburgh Site)	Glaxo Pharmaceutical AML-302	\$161,938
1994-1998	"Aerobic Exercise in Cystic Fibrosis: a 1-year Intervention" (P.I.)	NIH, RO1 HL52306	\$1,678,840 (direct)

1995-	Multicenter Investigation of Nontuberculous Mycobacteria in Patients with Cystic Fibrosis Lung Disease (local P.I.)	Cystic Fibrosis Foundation; Children's Hospital General Clinical Research Center	\$4,000
1995-1996	A Comparison of the Efficacy and Safety of Creon 20 and Placebo in the Treatment of Steatorrhea in Pediatric and Adolescent Cystic Fibrosis Patients with Clinical Exocrine Pancreatic Insufficiency (local P.I.)	Solvay Pharmaceuticals	\$65,799
1994-1996	A Phase IV, Multicenter Study to Monitor the Long-Term Safety and Efficacy of Pulmozyme (dornase alpha) In Cystic Fibrosis Patients Who Participated in a Phase III Study (local P.I.)	Genentech, Inc.	\$27,080
1994-	FK506 Pharmacokinetics in the Pre Thoracic Transplant Recipient: Emphasis on the Patient with Cystic Fibrosis (P.I.)	Children's Hosp. GCRC	
1995-1996	Safety and Efficacy of Tobramycin for Inhalation in Patients with Cystic Fibrosis (local Co-I)	Pathogenesis, Inc	\$47,588
1996-1997	An Open-label Follow-on Trial of Tobramycin Solution for Inhalation in Patients with Cystic Fibrosis (local Co-I)	Pathogenesis, Inc	\$20,000
1995-	Epidemiologic Study of Cystic Fibrosis (local Co-I)	Genentech, Inc	\$52,500
1997-	Evaluation of the Efficacy, Safety, Tolerance and Pharmacokinetics of Meropenem for the Treatment of Acute Pulmonary Exacerbations in Patients with Cystic Fibrosis (local PI)	Zeneca Pharmaceutical Group	
1998-	Determination of Genotype in Patients with Cystic Fibrosis (local Co-I)	McNeil Pharmaceuticals, Children's Hospital of Pittsburgh GCRC	\$10,000
2000-	An Open-Label Randomized Trial with Tobramycin Solution for Inhalation (TOBI) in Cystic Fibrosis Patients with Mild Lung Disease (local Co-I)	Chiron, Inc	\$18,888
2000-	A Multicenter, Randomized, Placebo-Controlled Trial of Azithromycin in Patients with CF, Chronically Infected with <i>Pseudomonas aeruginosa</i> (local Co-I)	Cystic Fibrosis Foundation	\$45,323

2001-	Diabetes Therapy to Improve Muscle Mass and Clinical Status in CF Subjects with Abnormal Glucose Tolerance (local PI)	NIH, Cystic Fibrosis Foundation, Children's Hospital of Pittsburgh GCRC	\$216,207
2000-2001	Neuropsychological Correlates of Cystic Fibrosis in Adolescents (Co-I)	Center for Research in Chronic Disease	\$3,026
1999-2000	A Quality of Life Assessment in CF (Co-I)	Children's Hospital of Pittsburgh GCRC	\$8,800
1999-2004	A Quality of Life Assessment in CF (mentor)	NIH 1-K01-HL04044	\$529,959
2002 -	Therapeutics Development Center (PI, pediatrics); part of national Therapeutics Development Network	Cystic Fibrosis Foundation	\$150,000 per year
2007-2010	Self-Regulated Exercise in CF: A Randomized Trial (P.I.)	NIH, 1 R01 NR009285-01A2	\$1,513,479
2015-2017	ACTIVATE-CF; an international collaborative Exercise intervention study. (P.I. for US)	Cystic Fibrosis Foundation	



## SEMINARS AND INVITED LECTURESHIPS

- Case Western Reserve University Pediatric Alumni Weekend,  
(Invited Lecturer: "Exercise and Lung Disease"), Cleveland, September 1985.
- Blank Memorial Lecturer, Blank Children's Hospital, February 1986, Des Moines, IA.
- Cystic Fibrosis Foundation Annual Meeting  
(Roundtable Leader: "Exercise Programs for Patients with Cystic Fibrosis"), May 3, 1986; Bethesda, MD.
- First Pediatric Pulmonary Review Course, Harvard University  
(Invited Lecturer for Exercise Physiology; also for Cystic Fibrosis) June 1986; Boston.
- American Thoracic Society  
(Chair Symposium: "Cystic Fibrosis"), May 1987; New Orleans.
- North American Society of Pediatric Exercise Medicine  
(Invited Lecturer: "Pulmonary Aspects of Exercise"), July 31-August 2, 1987; Aspen, CO.
- Case Western Reserve University Department of Pediatrics  
(Alumni Day Speaker: "Exercise and Lung Disease"), September 17, 1987; Cleveland, OH.
- North American Cystic Fibrosis Conference  
(Invited Workshop Director: "Exercise and Cystic Fibrosis");  
(Invited Roundtable Leader: "Exercise"), October 17, 1987; Toronto.
- American Thoracic Society Annual Meeting  
(Sunrise Seminar Leader: "Exercise Physiology in Children: the Basics"), May 9, 1988; Las Vegas, NE.
- Maine Medical Center  
(Visiting Professor: "Cystic Fibrosis, 1988"; "Fitness, the Physician, and the Physician's Family"),  
June 1-2, 1988; Portland, ME.
- Quaker Conference on Youth, Exercise, and Sport  
(Invited Responder: "Exercise and Asthma") June 23- 26, 1988; Bermuda.
- St. Petersburg Beach National Conference on Pediatric Lung Diseases  
(Faculty: "Response to Exercise and the Role of Exercise Therapy in Children with Chronic Lung Disease," and "Gastroesophageal Reflux and Respiratory Disease.") April 14-17, 1989.
- Pediatric Exercise Medicine Conference, sponsored by The North American Society of Pediatric Exercise Medicine  
(Faculty: "Controversial Issues in Exercise Prescription for Children with Chronic Disease; The Child with Chronic Respiratory Problems") August 4-6, 1989; Aspen, CO.
- Ear, Nose, and Throat Diseases in Children. Update 1989 (The 16th Annual Symposium), sponsored by the Departments of Otolaryngology and Pediatrics, Children's Hospital of Pittsburgh  
(Faculty: "Gastroesophageal Reflux and Respiratory Disease"). August 31, 1989; Pittsburgh, PA.
- Twenty-first Ross Roundtable of Critical Approaches to Common Pediatric Problems: Pediatric Asthma  
(Faculty: "Exercise Conditioning for Children with Asthma"). September 10-11, 1989; Washington, DC.
- Isaak Walton Killam Hospital for Children  
(Visiting Professor), September 26-29, 1989; Halifax, Nova Scotia.
- Third Annual North American Cystic Fibrosis Conference  
(Convener, Rise 'n Shine Roundtable, "Liver Transplantation in Cystic Fibrosis");  
(Symposium Moderator: "Pulmonary Function Tests in the Management of Patients with Cystic

Fibrosis.") October 11-14, 1989; Tarpon Springs, Florida.

American Academy of Pediatrics Annual Meeting, Section on Diseases of the Chest  
(Faculty: "Reflux and Respiratory Disease," and "The Benefit of Exercise in Lung Disease). October  
23, 1989; Chicago.

Minneapolis Children's Medical Center, Grand Rounds,  
"Gastroesophageal Reflux and Respiratory Disease." December 12, 1989.

Northern Virginia Pediatric Society,  
Visiting Lecturer, "Exercise for Children with Chronic Lung Disease." December 14, 1989.

Georgetown University School of Medicine, Department of Pediatrics,  
Visiting Professor, "Acute and long- term responses to exercise in the child with chronic lung  
disease." December 15, 1989.

World Conference on Lung Health,  
Invited Symposium Lecturer: "Muscles of Respiration and Training Techniques in Children."  
Boston, May 22, 1990.

North American Society of Pediatric Exercise Medicine,  
Invited Workshop Leader: "Exercise Testing in Children with Lung Disease." Cincinnati, September  
21,  
1990.

Children's Hospital Medical Center, Cincinnati, Visiting Professor, September 24-25, 1990. Grand Rounds:  
"Exercise Rehabilitation in Cystic Fibrosis."

Fourth Annual North American & 1990 International Cystic Fibrosis Conference,  
Invited Workshop Leader: "Exercise," and  
Invited Workshop Speaker: "Exercise as a Substitute for Physiotherapy for CF patients," in  
workshop on Airway Clearance. Arlington, VA, October 3-6, 1990.

American Association of Cardiovascular and Pulmonary Rehabilitation Fifth Annual Meeting,  
Invited lecturer: "Rehabilitation of the Pediatric Pulmonary Patient." Dallas, TX, November 9, 1990.

Pennsylvania Society for Respiratory Care, Eighteenth Annual Seminar in Pulmonary Physiology and  
Medicine,  
Invited lecturer: "Cystic fibrosis and mucus clearance: an update." Pittsburgh, PA, September 12,  
1991.

Fifth Annual North American Cystic Fibrosis Conference  
Invited Workshop Moderator: "Exercise," and invited Roundtable Moderator: "Bronchodilators."  
Dallas, TX,  
October 2-5, 1991.

All Children's Hospital, St. Petersburg, FL,  
Visiting Professor, November 1, 1991. Grand Rounds: "Gastroesophageal Reflux and Respiratory  
Disease."

First Annual Cystic Fibrosis Family Day, All Children's Hospital, St. Petersburg, FL, November 2, 1991.  
Lecture: "Introduction to Cystic Fibrosis."

The Douglas Jones Lecturer, Dartmouth Medical School, Hanover, NH, March 2-4, 1992

Sixth Annual North American Cystic Fibrosis Conference  
Invited Workshop lecturer: "Regular exercise/Environmental response." Washington, D.C., October  
15, 1992.

7th Annual Scientific Meeting of North American Society for Pediatric Exercise Medicine,

Invited Symposium leader and lecturer: "EIB and the Asthmatic Athlete Update: State of the Art Symposium." Miami Beach, FL., October 31, 1992.

Cystic Fibrosis Foundation (with Food and Drug Administration) Consensus Conference  
"Clinical Outcomes for Evaluation of New CF Therapies."  
Invited speaker: "Quality of Life (Well-being) Assessment." Rockville, MD, December 10-11, 1992.

Pennsylvania Allergy Association 45th Annual Meeting,  
Invited lecturer: "Cystic Fibrosis: Diagnosis and Management in the 1990's." Hershey, PA, June 25, 1993.

Seventh Annual North American Cystic Fibrosis Conference  
Invited Workshop leader: "Exercise" Dallas, October 15, 1993.

Twentieth Postgraduate Course on Practical Approach to the Diagnosis and Treatment of Lung and Gut Problems in Pediatric Patients. Duke University, invited faculty: "Prognostic Factors in Cystic Fibrosis Especially Response to Exercise." Durham, NC, November 19-20, 1993.

Children's Memorial Hospital, Grand Rounds,  
"Cystic Fibrosis: What's New for the 90's?" Chicago, January 26, 1994.

James Whitcomb Riley Hospital for Children, Cystic Fibrosis Family Day,  
"Insights into the Future" and "Lung Transplantation." Indianapolis, IN, April 30, 1994.

St. Louis University Pulmonology Seminar,  
Invited lecturer: "Exercise in Patients with Cystic Fibrosis." St. Louis, MO, May 6, 1994.

Cardinal Glennon Children's Hospital, Cystic Fibrosis Education Seminar,  
"Past, Present, and Future." St. Louis, MO, May 7, 1994.

1994 American Thoracic Society International Conference,  
Meet-the-Professor Seminar presenter, "Exercise and Pediatric Lung Disease." Boston, MA, May 23, 1994.

Duke University Medical Center, Cystic Fibrosis Education Day,  
"Exercise, Nutrition, and Outcome in CF." Durham, NC, June 18, 1994.

9th Annual North American Society for Pediatric Exercise Medicine Conference,  
"Commonly Prescribed Medications for Pediatric Patients: Beneficial and Detrimental Effects on Exercise Tolerance," Colloquium Leader and Lecturer, Pittsburgh, PA, August 13, 1994.

Pennsylvania Society for Respiratory Care, 21st Annual Seminar in Pulmonary Physiology and Medicine,  
Invited lecturer: "Cystic Fibrosis." Pittsburgh, PA, September 2, 1994.

Eighth Annual North American Cystic Fibrosis Conference,  
Invited Short Course Co-organizer: ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses" and "Exercise Programs"), Orlando, FL, October 19, 1994.

American Academy of Pediatrics, Annual Meeting 1994. Section Program for the Practitioner Child Athlete: Medical Issues, invited faculty: "Exercise and Asthma," Dallas, TX, October 25, 1994.

XXXVII National Pediatric Congress (50th Anniversary Celebration), II Central American Congress of Pediatric Pulmonology, I National Congress of Exercise Medicine for Children and Adolescents:  
Invited Professor: "Benefits of Conditioning for the Respiratory System,"  
"Broncho-constriction and Exercise,"  
"Asthma and the Selection of Physical Activities," Guatemala City, Guatemala, February 27- March 3, 1995.

Three Rivers Clinical Pediatric Update, Faculty:

Workshop, "What's New in CF?" Sheraton Hotel Station Square, Pittsburgh, PA, June 9, 1995.

Ninth Annual North American Cystic Fibrosis Conference,  
Invited Short Course Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses" and "Exercise Programs"), Dallas, October 12, 1995.

Twenty-first Annual Western Cystic Fibrosis Consortium Meeting,  
Plenary Session Lecturer: "Exercise in cystic fibrosis: new vistas."  
Faculty Leader: "Pulmonary Case Presentations," Long Beach, CA, March 22, 1996.

Shands Children's Hospital, University of Florida.  
Visiting Professor. Grand Rounds: "Exercise Physiology," Gainesville, FL, April 19, 1996.

Children's Hospital Conference on Managing Allergies and Asthma in School Children.  
Lead speaker and Grand Rounds Presenter: "Asthma and the School Athlete - Competitive and Non-competitive," Pittsburgh, PA, May 2, 1996.

American Pseudoobstruction and Hirschsprung's Society Pediatric Community Outreach Program  
Speakers Training Meeting Faculty: "Pulmonary Manifestations of Gastroesophageal Reflux," St. Petersburg, FL, May 4, 1996.

Mater Misericordiae Children's Hospital and Royal Children's Hospital, Brisbane, Queensland, Australia,  
Visiting Professor, 12 June 1996.

Sydney, New South Wales, Australia.  
Visiting Professor.  
Lead Roundtable on Research in Sports Medicine and Exercise Physiology;  
Lecture: "Exercise and the Adolescent Athlete with Asthma," 13 June 1996

Australasian Paediatric Respiratory Group. 9th Annual Meeting.  
Overseas Lecturer. Opening oration: "Exercise conditioning & sport in children with lung disease,"  
Symposium speaker: "Aspiration Lung Disease: the Pulmonologist's Perspective,"  
"Reflux & Laryngeal Disease: a Relationship?"  
Symposium speaker: "Exercise in CF: Prescription, Measurement." Acheron, Victoria,  
Australia 14-16 June 1996.

Royal Children's Hospital, Melbourne, Victoria Australia,  
Visiting Professor 17 June 1996.

Victoria University, Center for Rehabilitation, Exercise & Sport Science.  
Invited Lecturer: "Exercise and the Asthmatic Athlete," Melbourne, Australia, 17 June 1996.

Tenth Annual North American Cystic Fibrosis Conference,  
Invited Short Course Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses" and "Exercise Programs"), Orlando, FL, October, 1996.

Case Western Reserve University and Rainbow Babies and Children's Hospital, Cleveland Ohio. Doershuk Day Symposium. Invited speaker: "Determinants of Survival in Cystic Fibrosis." April 25, 1997.

Twenty-third Annual Day of Pediatrics Conference, sponsored by MultiCare Health System and Mary Bridges Children's Hospital and Health Center, Keynote Speaker: "Persistent Cough in Kids -- When to Treat?" and "Exercise and Children -- When to Worry," Tacoma, WA, September 6, 1997.

24th Annual Western Pennsylvania Regional Pulmonary Physiology and Medicine Seminar,  
Faculty: "Asthma Through the Ages." Pittsburgh, PA September 11, 1997.

The Squires Club Visiting Professorship, The Wellesley Hospital, Toronto, Ontario, Canada, October 6-8, 1997:  
Teaching Rounds with Medical Residents (lecture): "GE Reflux and Respiratory Disease;"  
Teaching Rounds with CF Team and Residents: "Prognosis in Cystic Fibrosis;"

The Squires Club Dinner Address; Teaching Rounds with Hospital for Sick Children Respiriology Residents (lecture): "Role of Pediatric Exercise Testing in Health and Disease;"  
CF Research Rounds (lecture): "Exercise and Cystic Fibrosis;"  
Medical Grand Rounds: "Exercise and Asthma;"  
Teaching Session with Department of Medicine Respiriology Staff: "Role of Exercise Testing."

Asociacion Puertorriquena Del Pulmon ,  
"Advancing Pulmonary Rehabilitation,"  
2nd Pulmonary Rehabilitation Congress. Faculty: "Pediatric Pulmonary Rehabilitation,"  
"Cystic Fibrosis." San Juan, Puerto Rico, October 17-19, 1997.

Eleventh Annual North American Cystic Fibrosis Conference ,  
Invited Short Course(half-day) Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses;" "Exercise in the Heat," and "Exercise Programs");  
Rise 'n Shine Roundtable Moderator, "Strength Testing in Cystic Fibrosis";  
Symposium Co-chair "Nutrition, Lung Disease, Exercise, and Skeletal Health,"  
and lecturer: "Exercise and Lung Disease in CF"; Nashville, TN, October 23-26, 1997.

Recent Advances in Pediatric Pulmonology, sponsored by Division of Pulmonology/Cystic Fibrosis,  
Department of Pediatrics, University of Medicine & Dentistry of New Jersey.  
Faculty, Guest Speaker: "GER - Related Pulmonary Disease," "What is a CF Diagnosis?" Newark,  
NJ,  
November 20, 1997.

Cystic Fibrosis Family Education Day,  
Keynote Speaker, "Update and Overview of Cystic Fibrosis," Rochester, NY, March 21, 1998.

Grand Rounds, Department of Pediatrics, University of Minnesota: "Basics of Pediatric Exercise Physiology,"

Research in Progress Conference,  
Invited Speaker, Combined Pediatric and Medicine Departments, Pulmonary Divisions University of  
Minnesota: "Research in Exercise and Cystic Fibrosis," Minneapolis, MN, April 8, 1998.

American Thoracic Society 1998 International Conference,  
Symposium Co-chair, "From Gels to Gymnastics: the Biological Basis of Cardiopulmonary Exercise  
Rehabilitation in Children," and Lecturer: "Exercise Training Programs in Children with Lung  
Disease: Who, What, Where, When, How, and Why?" Chicago, April 26, 1998.

Twelfth Annual North American Cystic Fibrosis Conference,  
Invited Short Course(half-day) Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses;" "Exercise in the Heat," and "Exercise Programs"); Montreal,  
October 15, 1998.

Fourth Congress of the Latin American Society for Pediatric Pulmonology (IV Congreso de la Sociedad  
Latinoamericana de Neumonologia Pediatrica.  
Invited lecturer: "Asthma and Exercise," Gastroesophageal Reflux and Respiratory Disease,"  
"Exercise and Cystic Fibrosis." Mar del Plata, Argentina, October 22-25, 1998.

Michigan Cystic Fibrosis Caregivers' Network,  
Invited lecturer: "End of Life Care in Cystic Fibrosis. Detroit, MI, March 25, 1999.

Grand Rounds, Children's Hospital of Michigan:  
"Exercise and Asthma," Detroit, MI, March 26, 1999.

Pediatric Pulmonology Conference, Riley Hospital for Children:  
"Exercise and Cystic Fibrosis," Indianapolis, IN, May 21, 1999.

American College of Sports Medicine Annual Meeting,  
Invited faculty: Minisymposium: "Exercise-induced Bronchoconstriction and Physical Activity in

Children and Youth," lecture: "Effects of Training and/or Frequent Vigorous Physical Activity on the Incidence of EIB," Seattle, WA, June 4, 1999.

University of Michigan Post Graduate Education Conference, "Asthma and the Athlete,"  
Invited faculty: "Respiratory Physiology of the Athlete,"  
"Pathophysiology of Exercise-induced Asthma." Ann Arbor, MI, October 1-2, 1999.

Thirteenth Annual North American Cystic Fibrosis Conference,  
Invited Short Course Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses" and "Exercise in the Heat"), Seattle, October 7, 1999

Schneider Children's Hospital Cystic Fibrosis Family Education Night,  
Invited keynote lecturer: "Where We've Been; Where We're Going;"  
Pediatric Grand Rounds, "Asthma and Exercise," New Hyde Park, NY, October 21-22, 1999.

Third Annual Amrum Workshop on Exercise in Cystic Fibrosis and Asthma,  
Invited faculty: "Exercise in Asthma and Cystic Fibrosis: Similarities and Differences," Amrum,  
Schleswig-Holstein, Germany, November 13-14, 1999.

University of Kiel, Sports Science Graduate Student Seminar,  
Invited lecturer: "Exercise and Asthma," Kiel, Germany, November 15, 1999.

University of Hamburg University Hospital,  
Invited lecturer: "Exercise in Asthma and Cystic Fibrosis, Background, Physiology, and Clinical  
Implications," Hamburg, Germany, November 17, 1999.

University of Virginia, Department of Pediatrics Grand Rounds,  
"Exercise in Children," Charlottesville, VA, April 13, 2000.

Thirty-ninth Annual Swineford Allergy Conference,  
Guest Faculty, "Exercise and Asthma," Charlottesville, VA, April 14, 2000.

The New Sydney Children's Hospital,  
Guest Lecturer, "Exercise in Cystic Fibrosis," Sydney, New South Wales, Australia, September 15,  
2000.

The New Sydney Children's Hospital,  
Guest Seminar Leader, "Update on Cystic Fibrosis," Sydney, New South Wales, Australia,  
September 29, 2000.

The Drew Wiltsie Lectureship, Children's Hospital of Pittsburgh,  
"Pediatric Pulmonary Rehabilitation," Pittsburgh, PA, October 12, 2000.

St. Christopher's Hospital for Children, Philadelphia, PA. The Nancy N. Huang, M.D.,  
Guest Professorship in Cystic Fibrosis and Pediatric Pulmonology: "Update on Cystic Fibrosis,"  
address to annual Family Education Day, October 19, 2000;  
"Exercise Physiology in Children," Pediatric Grand Rounds, October 20, 2000.

Twenty-First Annual McLemore Birdsong Pediatric Conference, Sponsored by the Department of Pediatrics,  
Children's Medical Center, University of Virginia.  
Invited Faculty. Plenary lecture: "Exercise and Asthma,"  
Workshop leader: "Care of CF." Homestead Resort, Hot Springs, VA, May 4-6, 2001.

Fifteenth Annual North American Cystic Fibrosis Conference,  
Invited Short Course Co-organizer ("Applied Exercise Physiology")  
and lecturer ("Pulmonary Responses" and "Exercise in the Heat"), Orlando, October 25, 2001

Shaping the Future of Pediatric Pulmonology, American College of Chest Physicians and American  
Academy of Pediatrics. Course Faculty: "How Much is too Much? Exercise Asthma and Chronic Lung

Disease”

and “Pulmonary Rehabilitation in Pediatrics: Who? When? Where? Why?” Orlando, FL, March 22-24, 2002.

Child Health Update 2002, Loyola University Chicago Stritch School of Medicine.

Guest Faculty: “Cystic Fibrosis Update” and “Exercise and Asthma.” Maywood, IL, April 13, 2002.

The Eliza Klein Lectureship, University of Massachusetts School of Medicine, Worcester, MA, November 8, 2002, “Exercise in Cystic Fibrosis.”

Seventeenth Annual North American Cystic Fibrosis Conference,

Invited Co-chair and organizer of symposium, “Are all Kinds of Exercise Good for all Patients?”

and lecturer, “Selecting Activity and Exercise Conditioning Exercises that are Appropriate for Cystic Fibrosis;”

co-moderator Fireside Chat, “Answering Difficult Questions: Giving Information Without Taking Away Hope,” Anaheim, CA, October 16, 18, 2003

Johns Hopkins Cystic Fibrosis Center Family Education Day,

Invited speaker, “Cystic Fibrosis: 2003 Update.” Baltimore, MD, November 8, 2003.

Children’s Hospital of Boston, The Massachusetts General Hospital, and Harvard University Medical School,

Visiting Lecturer: “Exercise and Cystic Fibrosis,” “Exercise in Children,” “Exercise and Asthma.” Boston, MA, November 17 – 18, 2003.

University of Washington Quarterly Regional CF Clinical Conference,

Invited keynote speaker: “Exercise and CF,”

and “CF: End of Life Concerns,” Seattle, WA, March 19, 2004.

Asthma, Mukoviszidose und Sport,

Invited faculty: “Physical activity, Exercise and CF,” Amrum, Schleswig-Holstein, Germany, October 28 -29, 2004.

Emory University Cystic Fibrosis Center 2004 Family Education Program,

Invited speaker: “Exercise and Cystic Fibrosis,” Atlanta, GA, November 20, 2004.

Children’s Hospital of Pittsburgh and University of Pittsburgh, Pediatric Grand Rounds:

“Cystic Fibrosis: Science and Practice, 2005,” Pittsburgh, PA, March 31, 2005

University of New Mexico, Pediatric Grand Rounds:

“Exercise and Asthma,” Albuquerque, NM, June 23, 2005

Mountain West Cystic Fibrosis Consortium, Annual Meeting,

Invited lecturer: “Exercise and CF: Basics,” and “Exercise Testing and Prescription.” Bernalillo, NM, June 24, 2005

Children’s Hospital of Pittsburgh and University of Pittsburgh, Pediatric Grand Rounds:

“How Basic and Clinical Research Have Shaped Practice and Outcomes,” Pittsburgh, PA, October 27, 2005

Cystic Fibrosis Institute Winter Education Retreat, invited lecturer: “The Science of CF: The Tip of the Iceberg?” Chicago, Feb 18, 2006.

Cystic Fibrosis Research, Inc. 19<sup>th</sup> Annual Educational Conference, invited faculty. “Cystic Fibrosis Clinical

Care: What’s New? What’s Next?” Panel member: “Ask the Experts.” Redwood City, CA, August 5-6, 2006.

American Academy of Pediatrics National Conference & Exhibition, invited faculty. Meet the Expert

Discussion: “Breathing Disorders During Exercise.” Atlanta, GA. October 10, 2006.

Palliative Care Institute, weekly conference, invited speaker: “Palliative care in cystic fibrosis,” Montefiore

University Hospital (UPMC), Pittsburgh, PA February 28, 2007.

Children's Hospital of Pittsburgh Nursing Grand Rounds, "Ethics," Pittsburgh, PA, February 20, 2007.

University of Virginia Cystic Fibrosis Center Family Education Day, invited keynote speaker. "Cystic Fibrosis Care and Research: What's New? What's Next?" Workshop leader: "Exercise and CF." Charlottesville, VA, March 17, 2007.

Cystic Fibrosis Parent and Caregiver Support Program, invited speaker. "CF Treatment: What's New? What's Next." St. Louis, MO. September 25, 2007.

St. Louis University Department of Pediatrics Grand Rounds. "Exercise and Asthma," Cardinal Glennon Children's Hospital, St. Louis, MO. September 26, 2007.

Children's Hospital of Pittsburgh and University of Pittsburgh, Pediatric Grand Rounds, and national Webcast:  
"Cystic Fibrosis: Breathing New Life Into Age-Old Treatments," Pittsburgh, PA, September 27, 2007.

Twenty-first Annual North American Cystic Fibrosis Conference,  
Invited Co-chair and organizer of Workshop, "Exercise: What are the Outcomes?"  
Anaheim, CA, October 6, 2007

Phillip George Lectureship in Pediatric Pulmonology (First Annual), and Grand Rounds, Department of Pediatrics, LeBonheur Children's Medical Center and University of Tennessee Medical Center:  
"What Do Sled Dogs Have To Do With Swimmers Who Cough?" Memphis, TN, February 20, 2008.

17<sup>th</sup> Annual LHAS Medical Ethics Update 2008: Invited Panel organizer: Conflicts of Interest in Pediatrics – View from the Front Lines. Pittsburgh, PA, March 31, 2008.

Sixth Annual Meeting, Pennsylvania Medical Humanities Consortium. Invited Panel member: "Physicians' Responses to 'W;t'" Pittsburgh, PA, May 14, 2008.

Stephanie Lynn Kossoff Memorial Lecture (Thirtieth Annual), Morgan Stanley Children's Hospital of New York-Presbyterian and Department of Pediatrics, College of Physicians & Surgeons, Columbia University. "Cystic Fibrosis: How Basic Science has Transformed Clinical Care (and Vice Versa): An Historical Perspective" New York, NY, September 19, 2008.

St. Joseph Children's Hospital, Department of Pediatrics Grand Rounds: "Managing Chronic Pseudomonas Infection," Newark, NJ. September 30, 2008.

Twenty-third Annual North American Cystic Fibrosis Conference, Invited Symposium co-chair (with Frank Cerny, PhD): "S13 Exercise Testing in the Treatment & Assessment of the CF Patient," and lecturer: "The Value of Exercise Tests in Reflecting Overall Health and Prognosis," Minneapolis, MN Oct 16, 2009.

Grand Rounds, Children's Hospital of Michigan: "Exercise and asthma: what do sled dogs have to do with swimmers who cough?" Detroit, MI, December 4, 2009.

Stanford University/Lucille Packard Children's Hospital 10th Annual Cystic Fibrosis Education Day, invited speaker: "Ziggy and the Meaning of Life: Exercise and CF." Palo Alto, CA, March 13, 2010.

Northern New England Cystic Fibrosis Consortium Spring Meeting. Plenary Lecture: "Exercise and CF," Manchester, NH, March 26-27, 2010.

CFLC Continuum of Care Conference. Invited lecturer: "Airway clearance and exercise," Jersey City, NJ, April 16, 2010.

Children's Hospital of Boston. Visiting Professor: "Exercise and Cystic Fibrosis" (Pulmonology Department); "CF and Exercise: Life is Doin' Stuff; Exercise is Medicine" (CF Family Group and Physical Therapy Department), Boston, MA, March 21-22, 2011.

Twenty-fifth Annual North American Cystic Fibrosis Conference, Invited Workshop co-chair (with Matt Nippins, PT, DPT, CCS): Workshop #20: What's Up with Exercise? Anaheim, CA, November 4, 2011.



The Alfred Hospital, Visiting Professor: "History of Cystic Fibrosis." Melbourne, Australia, Feb 2012.

The New Sydney Children's Hospital, Visiting Professor: "History of Cystic Fibrosis." Sydney, Australia, March 2012.

Twenty-sixth Annual North American Cystic Fibrosis Conference, Invited Lecturer: "Exercise in Daily Life" for RT/PT Caregivers' Session, Orlando, FL, Oct 13, 2012.

Peter Viles Bioethics Lecture: "What's a CF doc doing in ethics, and why should anyone care?" University of Massachusetts Department of Pediatrics Grand Rounds, Worcester MA, Jan 17, 2014.

LITEVAN (League of Intravenous Therapy Education Vascular Access Network) Annual Conference: Invited lecture: "What Does Ethics Have to Do with Vascular Access and Vice-Versa?" at Nemaquin Woodlands Resort, Farmington, PA, April 10, 2014.

American Thoracic Society International Conference, Invited symposium lecturer: "Exercise Physiology and Intolerance in CF: The Role of Pulmonary Rehabilitation," San Diego, CA, May 21, 2014.

PancreasFest2014!, invited lecturer: "Cystic fibrosis: How specialized center care has improved outcomes." Pittsburgh, PA, July 23, 2014.

Children's Community Pediatrics Inaugural Education Webcast: "Lunch n' Learn: Ethics in the community pediatric office. Pittsburgh PA, August 27, 2014.

Twenty-eighth Annual North American Cystic Fibrosis Conference, Symposium Co-Leader (with Frank Cerny, PhD) "S21: PT & RT: Why Exercise Needs to be Central in CF Clinical Practice," Atlanta, GA, Oct 11, 2014.

The Royal Children's Hospital, Invited Lecture: "Exercise Rehab and Programs for Patients with Cystic Fibrosis," Melbourne, Australia, Dec 17, 2014.

24<sup>th</sup> Annual Medical Ethics Update, Breakout Session lecturer: "Breakthrough Drugs at Break the Bank Prices: What Are the Ethics?" Pittsburgh, PA, March 27, 2015

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Pre-Congress Course for Physiotherapists: "Aerobic versus anaerobic exercise in CF," Gramado Brazil, April 22, 2015.

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Roundtable lecture: "The Relationship of Exercise and Airway Clearance," Gramado Brazil, April 23, 2015

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Roundtable lecture: "The Relationship of Exercise and Airway Clearance," Gramado Brazil, April 23, 2015

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Roundtable lecture: "Follow-up Recommendations for CF Infants," Gramado Brazil, April 24, 2015

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Plenary lecture: "Exercise and Clinical Outcomes in CF," Gramado Brazil, April 24, 2015

V Congresso Brasileiro de Fibrose Cística (Fifth Brazilian Cystic Fibrosis Conference), Vertex Educational Workshop lecture: "CFTR Modulation – Reviewing the Evidence," Gramado Brazil, April 24, 2015

Fourth Annual Palliative Care Conference, "Palliative Care Across the Lifespan," Children's Hospital of Pittsburgh of UPMC: invited lecture: "Ethics in Palliative Care Across the Lifespan," with Jason Byron, MA. Pittsburgh, PA May 8 2015.

Center for Bioethics and Health Law, University of Pittsburgh. Invited Colloquium Leader: "Breakthrough Drugs at Break the Bank Prices: Can Society Afford This Kind of Progress?" Pittsburgh, PA. April 28, 2016.

Grand Rounds, invited lecturer: "Bioethics 2018," Goryeb Children's Hospital, Morristown, NJ, January 25, 2018.

Grand Rounds, invited lecturer: "What's a Cystic Fibrosis Doc Doing in Bioethics, and Why Should Anyone Care?," Department of Pediatrics, Overlook Hospital, Summit, NJ, January 26, 2018.

Center for Bioethics and Health Law, University of Pittsburgh. Invited Colloquium Leader: "Breakthrough Drugs at Break the Bank Prices: Can Society Afford This Kind of Progress?" Pittsburgh, PA. April 28, 2016.

Center for Bioethics and Health Law, University of Pittsburgh. Invited Lecturer and Session Leader: "Dealing with Drugs: Ethical and Policy Issues," lecture: How Can You Even Think of Justifying \$300,000 a Year for a Cystic Fibrosis Drug? Pittsburgh, PA. March 23, 2018.

## **NIH Activities**

Invited speaker NIADDK/CFF Conference on Nutrition in Cystic Fibrosis, April 1-4, 1986.

Organizing Committee and invited speaker NHLBI/NIDDK/CFF Conference, "Clinical-Behavioral Aspects of Cystic Fibrosis: Directions for Future Research," September 7-9, 1986.

Grants Reviewer, NHLBI, July 1987; November 1990.

Research Committee, Prevention, Education, and Research Training Branch, Division of Lung Diseases, NHLBI, 1989-

Invited participant, NIH Conference on Cystic Fibrosis Screening, March 5-6, 1990.

Chair, Special Review Committee, NHLBI, October 1991.

Invited speaker, NIH Workshop on Nutrition in Cystic Fibrosis, "Exercise and Nutrition." Bethesda, MD, Jan 11-13, 1993.

Patient Safety Data Monitoring Committee, "Ursodeoxycholic Acid Therapy in Patients with Cystic Fibrosis," P.I. Richard Grand, M.D., jointly sponsored by NIH, Cystic Fibrosis Foundation, Ciba-Geigy, 1994-1996.

National Institute of Nursing Research Spring Science Workgroup "Increasing Nursing Research Opportunities in Cystic Fibrosis." Invited Participant, Facilitator, and Discussion Leader. Bethesda, May 1-2, 2001.

Special Emphasis Panel, National Institute of Child Health and Human Development, July 17, 2007.

## **Accreditation Council for Graduate Medical Education:**

Residency Review Committee for Pediatrics

(Pre-reviewer of applications for programs in pediatric pulmonology 1989- )

Appeals Panel (1993- ).

## **Graduate Student Committees and Thesis Reviewer**

Mary Jane Slesinski	PhD, Epidemiology, University of Pittsburgh, 1990
Timothy Michael	PhD, Exercise Physiology, U. Pittsburgh 1992
Jeffrey Regnis	PhD, Physiology, University of Sydney, 1994
Brenda Button	PhD, Physiotherapy, University of Melbourne, 1999
Jennifer Alison	PhD, Medicine, University of Sydney, 2000
Hiran Selvadurai	PhD, Medicine, University of Sydney, 2000
Jane Wetzel	PhD, Exercise Physiology, University of Pittsburgh, 2001
Mark Elkins	PhD, Medicine, University of Sydney, 2006
Liam Welsh	PhD, Exercise Science, Australian Catholic University

**Editorial Board**, Pediatric Pulmonology 1990-2000 (Assistant Editor for Cystic Fibrosis, 1991- 1994)

## **Journal Reviewer for:**

American Journal of Diseases of Children

American Review of Respiratory Disease  
Annals of Otolaryngology, Rhinology, & Laryngology  
British Medical Journal  
Chest  
Digestive Diseases and Sciences  
European Respiratory Journal  
Journal of Applied Physiology  
Journal of Cystic Fibrosis  
Journal of Pediatrics  
Medicine and Science in Sports and Exercise  
New England Journal of Medicine  
Pediatric Exercise Science  
Pediatric Pulmonology  
Pediatrics  
Pharmacoeconomics  
Thorax

**Reviewer.** CF Currents, (newsletter directed to cystic fibrosis patients and caregivers) American Academy of Pediatrics 1995 - 1996 (Resigned 1996)

**Question Writer.** 1986 Certifying Examination in Pediatric Pulmonology. Subspecialty Committee on Pediatric Pulmonology. American Board of Pediatrics, Inc.

**Consultant.** Office of Technology Assessment, Congress of the United States. In preparation of OTA's report, Cystic Fibrosis: Implications of Population Carrier Screening. 1991

**Data Monitoring Committee.** Multicenter study on the effect of the Heimlich microtrach on morbidity and mortality in cystic fibrosis (member of 3-person national committee to monitor the course of this study; empowered to intervene to stop study if adverse effects emerge). Appointed 1990, resigned 1991.

**Grant Reviewer.** Manitoba Health Research Council. 1990.  
Canadian Cystic Fibrosis Foundation. 1990, 1992.  
Health Canada 1994  
The New Children's Hospital, Sydney, Australia, 1997  
National Health and Medical Research Council, Australia 2003

#### **Cystic Fibrosis Foundation Therapeutics Development Network (TDN)**

2000-	Data Safety Monitoring Committee
2000 - 2003	Chair subcommittee for Inspire Pharmaceuticals INS37217
2003- 2005	Protocol Development Committee
2003-	Publications & Presentations Committee
2011-2012	Vice chair
2013-2014	Chair
2014-2015	Vice chair

#### **Service**

##### **Hospital Committees**

1981-84	Library Committee (1982-83, Chairman)
1981-84	Critical Care Committee
1981-84	Child Life Committee
1984-	Pharmacy Committee

1989-90 General Clinical Research Center, Advisory Committee  
1989-91 Hospital QA Committee  
1992-94 Quality Action Team Co-chairman, Physician-Administration Conflicts  
2004- Ethics Committee, Chair

#### **Department of Pediatrics Committees**

1989 - 97 Executive Committee  
1989 - 99 Promotions and Tenure Committee (Chair 1994-97)  
1997 Chair, Hematology/Oncology Director Search Committee

#### **Community Activities**

1978-1981 Board of Trustees, Northern Ohio Lung Assoc.  
1979-1981 Board of Trustees, Cleveland Chamber Music Society  
1980-1981 Committee on Physical Activity and Health, American Heart Association of Northeast Ohio  
1981-1984 Board of Trustees, Cystic Fibrosis Foundation, Memphis Branch  
1982-1984 Tennessee State Board, Cystic Fibrosis Foundation  
1984- 90, 1994- Board of Trustees, Cystic Fibrosis Foundation, Western Pennsylvania Chapter  
1985- Medical Staff, Children's Home of Pittsburgh, Transitional Infant Care  
1985- Medical Staff, Rehabilitation Institute of Pittsburgh

## **PUBLICATIONS**

### **REFEREED ARTICLES**

1. **Orenstein DM**, Boat TF, Doershuk CF, Light MS: Progesterone treatment of the obesity hypoventilation syndrome in a child. *Journal of Pediatrics*, 1977; 90:477-479.
2. **Orenstein DM**, Yonas H, Bilenker R, ReKate HL, White RJ: Hemangioma thrombocytopenia syndrome: Report of a case masquerading as an encephalocele. *American Journal of Diseases of Children*, 1977; 131:680-681.
3. **Orenstein DM**, Boat TF, Stern RC, Tucker AS, Charnock EL, Matthews LW, Doershuk CF: The effect of early diagnosis and treatment in cystic fibrosis: a seven year study of 16 sibling pairs. *American Journal of Diseases in Children*, 1977, 131:973-975.
4. Congeni BL, **Orenstein DM**, Nankervis GA: Three infants with neonatal pertussis. *Clinical Pediatrics*, 1978; 17:113-118.
5. Stern RC, Boat TF, **Orenstein DM**, Wood RE, Matthews LW, Doershuk CF: Treatment and prognosis of lobar and segmental atelectasis in cystic fibrosis. *Am Rev of Respiratory Diseases*, 1978; 118:821-826.
6. **Orenstein DM**, Boat TF, Owens RP, Horowitz JG, Primiano FP Jr, Germann K, Doershuk CF: The obesity hypoventilation syndrome in children with the Prader-Willi Syndrome. *Journal of Pediatrics*,

1980; 97:765-768.

7. **Orenstein DM**, Franklin BA, Doershuk CF, Hellerstein HK, Germann KJ, Horowitz JG, Stern RC: Exercise conditioning and cardiopulmonary fitness in cystic fibrosis. The effects of a 3-month supervised running program. *Chest*, 1981;80:392-398.
8. **Orenstein DM**, Henke KG, Costill DL, Doershuk CF, Lemon PJ, Stern RC: Exercise and heat stress in cystic fibrosis patients. *Pediatric Research*, 1983; 17:267-270.
9. Orenstein SR, **Orenstein DM**, Whittington PF: Gastroesophageal reflux causing stridor. *Chest*, 1983; 84:301-302.
10. Orenstein SR, Whittington PF, **Orenstein DM**: The infant seat as treatment for gastroesophageal reflux. *New England Journal of Medicine*, 1983;309:760-763.
11. **Orenstein DM**, Henke KG, Cerny FJ. Exercise and cystic fibrosis. *Physician and Sports Medicine*, 1983;11:57-62.
12. Orenstein SR, **Orenstein DM**: Magnesium deficiency in cystic fibrosis. *Southern Medical Journal*, 1983; 76(12):1586.
13. Henke KG, **Orenstein DM**: Oxygen saturation during exercise in cystic fibrosis. *American Review of Respiratory Diseases*, 1984, 129:708-711.
14. **Orenstein DM**, Henke KG, Green CG: Heat acclimation in cystic fibrosis. *Journal of Applied Physiology*, 1984, 57(2):408-412.
15. Lemon PWR, **Orenstein DM**, Henke KG: Protein metabolism during moderate exercise in cystic fibrosis patients. *Journal of Sports Sciences*, 1984, 2:47-55.
16. Wilimas JA, Presbury G, Orenstein D, Dahl GV, Wang W, Dugdale M. Hemothorax and hemomediastinum in patients with hemophilia. *Acta Haematologica*, 1985, 73:176-178.
17. **Orenstein DM**, Reed ME, Grogan FT Jr., Crawford LV: Exercise conditioning in children with asthma. *Journal of Pediatrics*, 1985, 106:556-560.
18. **Orenstein DM**, Wasserman AL: Munchausen syndrome by proxy simulating cystic fibrosis. *Pediatrics* 1986, 78(4):621-624.
19. Orenstein SR, Lofton SW, **Orenstein DM**. Bethanechol for pediatric gastroesophageal reflux: A prospective, blind, controlled study. *Journal of Pediatric Gastroenterology and Nutrition*. 1986;5:549-555.
20. Sheppard JD, **Orenstein D**, Chao C-C, Butala S, Zee B. Tear function in cystic fibrosis. *Trans Penna Acad Ophthalmol Otolaryngol* 1986;38(2):468-9
21. Sheppard JD, **Orenstein DM**, Chao C-C, Butala S, Zee B, Kowalski RP. The ocular surface in cystic fibrosis. *Trans Penna Acad Ophthalmol Otolaryngol* 1986
22. Orenstein SR, Kocoshis SA, **Orenstein DM**, Proujansky R. Intraluminal acid perfusion (Bernstein test) in the diagnosis of stridor. *Pediatric Pulmonology* 1987; 3(6):420-424
23. Orenstein SR, **Orenstein DM**. Gastroesophageal reflux and respiratory disease in children. *Journal of Pediatrics* 1988; 112:847-857.
24. Pattishall E, Noyes B, **Orenstein D**. Use of bronchoalveolar lavage in immunocompromised children with pneumonia. *Pediatr Pulmonol* 1988;5:1-5.
25. Kravitz RE, Kocoshis SA, Orenstein SR, Proujansky R, **Orenstein DM**. Gross hematuria following sclerotherapy of esophageal varices in patients with cystic fibrosis. *Am J Gastroenterol* 1989;84:75-78.

26. **Orenstein DM**, Nixon PA, Ross EA, Kaplan RM. The quality of well-being in cystic fibrosis. *Chest* 1989;95:344-347.
27. Kaplan RM, Anderson JP, Mathews WC, Kozin F, **Orenstein D**. The quality of well-being scale: applications in AIDS, cystic fibrosis, and arthritis. *Medical Care* 1989; 27 (3 Suppl):S27-43.
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29. Burke P, Meyer V, Kocoshis S, **Orenstein DM**, Chandra R, Nord DJ, Sauer J, Cohen E. Depression and anxiety in pediatric inflammatory bowel disease and cystic fibrosis. *Journal of the American Academy of Child and Adolescent Psychiatry* 1989; 28,6:948-951.
30. Sheppard JD, **Orenstein DM**, Chao C-C, Butala S, Kowalski RP. The ocular surface in cystic fibrosis. *Ophthalmology* 1989; 96(11):1624-1630.
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32. **Orenstein DM**, Pattishall EN, Nixon PA, Ross EA, Kaplan RM. Quality of well-being before and after antibiotic treatment of pulmonary exacerbation in patients with cystic fibrosis. *Chest*, 1990;98:1081-84.
33. **Orenstein DM**, Nixon PA. Exercise performance and breathing patterns in cystic fibrosis: male-female differences and influence of resting pulmonary function. *Pediatric Pulmonology*, 1991;10:101-105.
34. **Orenstein DM**. Long-term inhaled bronchodilator therapy in cystic fibrosis. (Editorial). *Chest* 1991;99:1061.
35. **Orenstein DM**, Kaplan RM. Measuring the quality of well-being in cystic fibrosis and lung transplantation. The importance of the area under the curve. *Chest* 1991;100:1016-1018.
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- fibrosis. *J Am Dietetic Assn*, 1994, 94:402-408.
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  47. Boas SR, Noyes BE, Kurland G, Armitage J, **Orenstein D**. Pediatric lung transplantation for graft-versus-host disease following bone marrow transplantation. *Chest*, 1994; 105:1584-86.
  48. Noyes BE, Michaels MG, Kurland G, Armitage JM, **Orenstein DM**. Pseudomonas cepacia empyema necessitatis after lung transplantation in two patients with cystic fibrosis. *Chest*, 1994;105:1888-91.
  49. Newman B, Urbach AH, **Orenstein D**, Dickman PS. Proteus syndrome: emphasis on the pulmonary manifestations. *Pediatr Radiol*, 1994
  50. Austin A, Kalhan SC, **Orenstein D**, Nixon P, Arslanian S. Roles of insulin resistance and  $\beta$ -cell dysfunction in the pathogenesis of glucose intolerance in cystic fibrosis. *J Clin Endocrinol Metabolism*, 1994;79(1):80-85.
  51. Burke PM, Kocoshis S, Neigut D, Sauer J, Chandra R, **Orenstein D**. Maternal psychiatric disorders in the pediatric inflammatory bowel disease and cystic fibrosis. *Child Psychiatry and Human Development*, 1994; 25:45-52.
  52. Fulton JA, **Orenstein DM**, Koehler AN, Kurland G. Nutrition in the pediatric double lung transplant patient with cystic fibrosis. *Nutrition in Clinical Practice*, 1995;10:67-72.
  53. Nixon PA, Fricker FJ, Noyes BE, Webber SA, **Orenstein DM**, Armitage JM. Exercise testing in pediatric heart and/or lung transplant recipients. *Chest*, 1995;107:1328-35.
  54. Boas SR, Falsetti D, Murphy TD, **Orenstein DM**. Validity of self-assessment of sexual maturation in adolescent male patients with cystic fibrosis. *Journal of Adolescent Health*, 1995, 17:42-45.
  55. del Rosario JF, Putnam PE, **Orenstein DM**. Chronic pancreatitis in a patient with cystic fibrosis and clinical pancreatic insufficiency. *Journal of Pediatrics*, 1995;126(6):951-952.
  56. Boas SR, Cleary DA, Lee PA, **Orenstein, DM**. Salivary testosterone levels in male adolescents with cystic fibrosis. *Pediatrics*, 1996;97:361-363.
  57. Boas SR, Joswiak ML, Nixon PA, Fulton JA, **Orenstein DM**, Factors limiting anaerobic performance in adolescent males with cystic fibrosis. *Med Sci Sports Exer*. 1996;28:291-298.
  58. Quittner AL, Tolbert VE, Regoli MJ, **Orenstein DM**, Hollingsworth JL, Eigen H. Development of the role-play inventory of situations and coping strategies (RISCS) for parents of children with cystic fibrosis. *J Pediatr Psychol*, 1996, 21:209-235.
  59. Faro A, Massella E, **Orenstein DM**. An unusual cause of tachypnea. *Ped Pulmonol* 1996;21:341-342.
  60. Boas SR, Joswiak ML, Nixon PA, Kurland G, O'Connor MJ, Bufalino K, **Orenstein DM**, Whiteside TL. Effects of anaerobic exercise on the immune system in eight- to seventeen-year-old trained and untrained boys. *J Pediatr* 1996;129:846-55.
  61. Noyes BE, Kurland G, **Orenstein DM**. Lung and heart-lung transplantation in children. *Ped Pulmonol* 1997;23:39-48.
  62. Orenstein SR, DiLorenzo C, **Orenstein DM**, Shalaby RN, Deneault, LG, Lutz JW. Isolated lower sphincter relaxation as "Wave Suppressed" peristalsis. *Dysphagia* 1997;12:207-211.
  63. Zapletal A, Kurland G, Boas SR, Noyes BE, Grealley P, Faro A, Armitage JM, **Orenstein DM**. Airway function tests and vocal cord paralysis in lung recipients. *Pediatric Pulmonology* 1997; 23:87-94.

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  - Follicular bronchiolitis (Chapter 339.1)
  - Aspiration pneumonias and gastroesophageal reflux-related respiratory disease (Chapter 340)
  - Emphysema and overinflation (Chapter 354)
  - Pulmonary edema (Chapter 355)
  - Chronic or recurrent respiratory symptoms (with Boat T; Chapter 362)
  - Pleurisy (Chapter 365)
  - Pneumothorax (Chapter 366)

- Pneumomediastinum (Chapter 367)
  - Hydrothorax (Chapter 368)
  - Hemothorax (Chapter 369)
  - Chylothorax (Chapter 370)
  - Pectus excavatum (Chapter 371)
  - Asphyxiating thoracic dystrophy (Jeune's Syndrome) (Chapter 372)
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  - Bronchiolitis (Chapter 391)
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## OTHER PUBLICATIONS

### Committee Statements

1. Infant swimming programs: Committee on Sports Medicine (1984-1985), American Academy of Pediatrics
2. A self-appraisal checklist for health supervision in scholastic athletic programs: Committee on Sports Medicine (1985), American Academy of Pediatrics
4. Atlantoaxial instability in Downs Syndrome, Committee on Sports Medicine (1984), American Academy of Pediatrics
5. Health appraisal guidelines for day camps and residence camps, Committee on Sports Medicine (1984), American Academy of Pediatrics
6. Physical Fitness and the Schools: Committee on Sports Medicine (1987), American Academy of Pediatrics. *Pediatrics* 1987; 80:447-448.
7. Exercise for Children Who Are Mentally Retarded: Committee on Sports Medicine (1987), American Academy of Pediatrics. *Pediatrics* 1987; 80:449-450.
8. Infant Exercise Programs: Committee on Sports Medicine (1988), American Academy of Pediatrics. *Pediatrics*
9. Anabolic Steroids and the Adolescent Athlete: Committee on Sports Medicine (1989), American Academy of Pediatrics. *Pediatrics*, 1989; 83:127-128.
10. Amenorrhea in Adolescent Athletes: Committee on Sports Medicine (1989), American Academy of Pediatrics. *Pediatrics*, 1989; 84:394-395.
11. Knee Brace Use by Athletes: Committee on Sports Medicine (1989-1990), American Academy of Pediatrics. *Pediatrics*, 1990;85:228.
12. Risks in Distance Running for Children: Committee on Sports Medicine (1989-1990), American Academy of Pediatrics. *Pediatrics*, 1990;86:799-800.

13. Strength Training, Weight and Power Lifting, and Body Building by Children and Adolescents: Committee on Sports Medicine (1989-1990), American Academy of Pediatrics. *Pediatrics*, 1990;86:801-803.
14. Human Immunodeficiency Virus [Acquired Immunodeficiency Syndrome (AIDS) Virus] in the Athletic Setting: Committee on Sports Medicine (1990-1991), American Academy of Pediatrics. *Pediatrics*, 1991;88:640-641.
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### Book Reviews

1. **Orenstein DM.** Review of Lung Biology in Health and Disease: Heart-Lung Interactions in Health and Disease, Volume 42. Edited by Scharf SM, Cassidy SS. New York: Marcel Dekker, 1989. Review appeared in *Pediatric Pulmonology* 1990;8:130-131
2. **Orenstein DM.** Review of Lung Biology in Health and Disease: Cystic Fibrosis, Volume 64. Edited by Pamela B. Davis. New York: Marcel Dekker, 1993. Review appeared in *Chest* 1995;108:19.
3. **Orenstein DM.** Review of Cystic Fibrosis. Edited by Dennis J Shale. BMJ Publishing Group 1995. Review appeared in *Brit Med J* 1996;313:239.

### Letters to the Editor

1. Sherman JM, **Orenstein DM**, Stern RC. Brain abscess and cystic fibrosis. *Journal of Pediatrics*, 1980;96:952.
2. **Orenstein DM.** Early treatment of cystic fibrosis. *JAMA* 1982;248:2113.
3. Mieles LA, **Orenstein D**, Teperman L, Podesta L, Koneru B, Starzl TE. Liver transplantation in cystic fibrosis. *Lancet*, 1989;1 (May 13):1073.
4. **Orenstein D.** Baskin-Robbins, here we come! *Running Times*, 1990 (January).

**MISCELLANEOUS: 1996:** YMCA Masters Swimming, All-American for 1650 yd freestyle, (23mins25secs; 5th place, out of 6 competitors)

**2002:** Little Red Lighthouse 7.8 mile swim (Hudson River), 61<sup>st</sup> place; 3<sup>rd</sup> place over 55 years old (2 hrs 4 mins. 3 secs.)