

CURRICULUM VITAE

A. PERSONAL INFORMATION

Name: Charles Michael ("Mike") Bowman, Ph.D., M.D.

Business Address: Medical University of South Carolina
Division of Pediatric Pulmonology, Allergy and Immunology
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Date of Birth: November 30, 1946

Place of Birth: Urbana, Illinois

Citizenship: United States

Marital Status: Married

Wife's Maiden Name: Mary Margaret Coughlin

Children: Kenneth (7/3/82); Mark (10/9/84)

B. EDUCATION

Undergraduate: University of Illinois, Urbana; B.S., Chemistry (Honors), 1968

Postgraduate:

Graduate School: University of Wisconsin, Madison; Ph.D., Genetics, 1972

Medical School: University of Wisconsin, Madison; M.D., 1975

Internship: Department of Pediatrics, Children's Hospital of Vanderbilt University, Nashville, Tennessee, 6/75-6/76

Residency: Department of Pediatrics, Children's Hospital of Vanderbilt University, Nashville, Tennessee, 7/76-6/78

Chief Residency: Department of Pediatrics, Children's Hospital of Vanderbilt University, Nashville, Tennessee, 7/78-6/79

Fellowship: Fellow, Pediatric Pulmonology, University of Colorado Health Sciences Center, Denver, Colorado, 7/79-6/81

Academic Honors:

- * Phi Beta Kappa
- * Phi Kappa Phi
- * Omicron Delta Kappa
- * Trainee, Medical Scientist Training Program, University of Wisconsin, Madison, Wisconsin, 1968-75
- * Theobald Smith Award for outstanding research by a medical student at the University of Wisconsin, 1972
- * Thomas Leonard Award for outstanding clinical performance by a third-year medical student in Obstetrics-Gynecology at the University of Wisconsin, 1974
- * Fellow, Cystic Fibrosis Foundation, 1979-81
- * Clinician Scientist Awardee, American Heart Association, 1981-1986 (Grant #81-410)
- * Clinical Investigator Awardee, National Institutes of Health, 1981 (declined)
- * Annual Faculty Development Awardee, University of Colorado Health Sciences Center, 1982
- * Winthrop-Breon--ACCP Scholar award for original investigation; American College of Chest Physicians, 1985.

Licensure:

- Colorado (#22985) (inactive)
- California (#G53182)
- South Carolina (#21884)

Board Certification:

- Diplomate of the American Board of Medical Examiners, #150219, July 1, 1976
- Diplomate of the American Board of Pediatrics, #23900, February 17, 1980 (voluntary recertification 1992)
- Diplomate, Subspecialty Board of Pediatric Pulmonology, American Board of Pediatrics, #19, July 18, 1986 (recertification 1995, 2003)

C. PROFESSIONAL BACKGROUND

Academic Appointments:

Instructor, Department of Pediatrics, Children's Hospital of Vanderbilt University, Nashville, TN, 1978 - 1979
Assistant Professor, Department of Pediatrics (Pulmonology), University of Colorado School of Medicine, Denver, CO, 1981 - 1984
Assistant Professor, Department of Pediatrics, University of Southern California (USC) School of Medicine, Los Angeles (LA), CA, 1984 - 1988
Associate Professor of Clinical Pediatrics, Department of Pediatrics, USC School of Medicine, LA, CA, 1988 - 2000
Visiting Associate Professor of Pediatrics, Department of Pediatrics, University of California-Los Angeles (UCLA) School of Medicine, LA, CA; 1996-2000
Professor of Clinical Pediatrics, Department of Pediatrics, Keck School of Medicine, USC, LA, CA, 2000
Professor of Pediatrics, Department of Pediatrics, Medical University of South Carolina (MUSC), Charleston, South Carolina (SC), 2000 - present

Medical Staff Appointments:

Pediatric Pulmonologist, University Hospital, Denver, CO, 1981-'84
Attending Pulmonologist, Division of Neonatology and Pediatric Pulmonology (DNPP) CHLA, Los Angeles, CA, 1984 - 1995; Division of Pediatric Pulmonology (DPP) 1995-2000
Pediatric Pulmonologist, paneled for California Childrens Services (CCS) and Genetic and Handicapped Persons Program (GHPP) Cystic Fibrosis and Other Pulmonary Diseases Center, 1984-2000
Consulting Pediatrician (Pulmonology), Glendale Adventist Hospital, Glendale, CA, 1984-'89
Attending Physician, Neonatal ECMO Program; CHLA, LA, CA, 1987-'88; 1994-'96
Pediatrician (Courtesy/Teaching Provisional), San Bernardino County Medical Center, San Bernardino, CA, 1990-'93
Director, CHLA Comprehensive Cystic Fibrosis Center (CCFC); CHLA, LA, CA, 1991-2000
Attending Pediatric Pulmonologist, Cedars Sinai Medical Center (CSMC), Dept of Pediatrics, LA, CA; 1994-2000
Attending Pediatric Pulmonologist, UCLA, Department of Pediatrics, LA, CA; 1996-2000
Attending Physician, All - Saints Healthcare, North Hollywood, CA; 1996-2000
Attending Pediatric Pulmonologist, Department of Pediatrics, MUSC Children's Hospital, Charleston, SC 2000 - present

Specific Teaching Responsibilities:

Vanderbilt University, Nashville, TN: Teaching of Third Year Medical Students every six weeks, series of four lectures on general pediatrics, fluid and electrolytes, respiratory failure, and resuscitation; 1978-'79

University of Colorado, Department of Pediatrics, Pulmonology Section, Denver, CO: Series of lectures to Nursing Graduate Students on Pulmonary Physiology/Pathophysiology; 1980- 81

University of Colorado School of Medicine: Lectures (every six weeks) on Pediatric Pulmonary Disease during Clerkship in Pediatrics for Third Year Medical Students rotating on Pediatrics, Department of Pediatrics; 1983-'84

USC School of Medicine: Lectures (every six weeks) on Pediatric Pulmonary Disease during Clerkship in Pediatrics for Third Year Medical Students rotating on Pediatrics, Department of Pediatrics; 1986 - 87, 1995-'97

USC School of Medicine: Preceptor for Third Year Students during Pediatric Rotation at CHLA; 1988-'91

CHLA, DNPP Director, course for fellows and attendings: "Flexible Fiberoptic Bronchoscopy" (lectures & laboratories); 1988-'93

CHLA DNPP, Fellowship Training Program in Pediatric Pulmonology: Fiberoptic Bronchoscopy Conference Coordinator (monthly); 1989-2000

CHLA DNPP, Fellowship Training Program in Pediatric Pulmonology: Journal Club Coordinator (monthly); 1990-'92

CHLA, Department of Pediatrics, Pediatric Residency Program: Faculty Advisor for Housestaff Journal Club; 1991-'92

University of California, Los Angeles (UCLA) School of Medicine, CSMC Department Pediatric Medical Student Clerkship Coordinator at CHLA, USC School of Medicine, Los Angeles, CA; 1995-'96

Student teaching assignment - Kenny Liu (3rd yr. Medical Student); Remediation for performance on CPX examination, USC School of Medicine, LA, CA; December 1996 - January 1997

MUSC 3rd year student lecture series "Introduction to Pulmonary Disease in Children"—two lectures every two months, 2000 - 2002; 1 case-based lecture every 6 wks 2003 - present

MUSC 3rd year student clinical discussion / case presentation, 30 - 60' each week, 2000 - present

MUSC 3rd year student course preceptor "Foundations of Clinical Medicine" – weekly 60 - 90' case-based discussions of Pediatric illnesses with 7-10 students, 4-6 months per year, 2001 - 2004.

MUSC 3rd year student clinical skills evaluator – OSCE reviewer – video evaluation of 5 - 7 students each student rotation (every 8 weeks), July, 2003 - 2005

MUSC Pediatrics 3rd Year Program: Selective Co-Director "Sequella of Prematurity" 2006 – present

MUSC Pediatrics 3rd Year Program: Selective Director "Chronic Diseases in Pediatrics" 2006 - present

Postdoctoral Fellows Directly Supervised and/or Sponsored:

University of Colorado:

Dr. Mary C. Reardon (National Cystic Fibrosis Foundation, 1982-'84)

Dr. Steven A. Abman (National Cystic Fibrosis Foundation, 1983-'84)

CHLA

Dr. Michael Flavin, 1985-'87 (McAlister Fellowship, CHLA, 1986-'87)
Dr. Manuel Ortega, 1986-'88
Dr. Ruben Diaz, 1987-'90
Dr. Floyd Livingston, 1989-'92
Dr. David Shoseyov, 1990-'92
Dr. Josef Ben-Ari, 1991-'93
Dr. Gerald D. Gong, 1992-'95
Dr. Munawar Saeed, 1996-'99
Dr. Craig T. Nakamura, 1997-2000 (National Cystic Fibrosis Foundation, 1997-'98)

MUSC

Scotty Morrow, Graduate Student, Microbiology 2001 – 2007 (thesis committee)

Pediatric Housestaff Teaching (see also lectures to housestaff noted under "Professional Activities"):

CHLA

Morning report attending physician 8 - 16 sessions per year, 1986-2000

MUSC

Morning report attending physician, 1 - 2 sessions per week, 2000 - July, 2004; 2 - 4 sessions per month, 2004 - present
Teaching rounds each day on inpatients and consults, 2000 - present

Pediatric Resident advising:

MUSC

Chris Richards, 2000-'03
Sean Lucas, 2002-'04
Kelly Hetherington, 2003-'06
Constantino Copses, 2004 – '07
Juli Schneider, 2006 – '08

Medical Student advising:

MUSC

Constantino Copses, 2003-'04

Specific Administrative Responsibilities (school, university or hospital committees, etc.):

Current:

Director, MUSC Comprehensive Cystic Fibrosis (CF) Program, MUSC, 2000 - 2006
Division Director, Pediatric Pulmonology, Allergy and Immunology, Dept of Pediatrics, MUSC, 2002 - present
Member, Medical Student Curriculum Committee, Dept of Pediatrics, MUSC, 2000 - present
Member, Residency Curriculum Committee, Dept. of Pediatrics, MUSC, 2000 - present
Member, Space Committee, Dept of Pediatrics, MUSC, 2002 - present
Medical Director, Ward 7A, MUSC Children's Hospital, 2003 - 2005

Member, Ambulatory Care Council, MUSC Dept of Pediatrics, 2004 - present
Member, Quality and Safety Committee, Children's Hospital at MUSC, 2004 – present
Chair, Ad hoc Working Group to Improve Asthma Outcomes, MUSC, 2006 – present
Director, Comprehensive Asthma Center for Children, MUSC, 2006 - present

Past:

Member, Respiratory Care Service Task Force, University Hospital, University of Colorado, Denver, CO, 1982-'83
Member (representing Pediatric Department), Nutrition Advisory Committee, University of Colorado, Denver, CO, 1983-'84
Member, Pediatric Clinical Research Center Advisory Committee, Department of Pediatrics, University of Colorado, Denver, CO, 1983-'84
Member, Chaplain's Advisory Council, Univ Hosp, Univ of Col, Denver, CO, 1983-'84
Member, CHLA Planning and Space Committee, Mini-Subcommittee for Planning for Infant (3 East) Ward Future Needs, 1985
Member, CHLA Search Comm for Director of PICU and Div of Critical Care, 1985-'86
Member, CHLA Nutrition Advisory Committee, 1986-'87
Acting Division Head, DNPP, CHLA, October, 1985; March-July, 1986
Co-Director, Program for the Use of Extracorporeal Membrane Oxygenation (ECMO) in
Director, Flexible fiberoptic bronchoscopy program, DNPP, CHLA, 1988-'94
Member, Search Committee for Division Head, Div of Cardiothoracic Surg, CHLA, 1988-'91
Chairman, Quality Assurance Committee, Pulmonology Section, DNPP, CHLA, 1988-'90
Member, Utilization Management Committee, CHLA, 1989-'92
Coordinator, Fellowship Training Program in Pediatric Pulmonology; DNPP, CHLA, 1989-'92
Member, CHLA Housestaff Education Committee, 1990-'93
Member, CHLA Program Planning Task Force Committee on Education, 1990-'91
Medical Director of Respiratory Care, CHLA, 1991-'92
Member, Respiratory Care Task Force, CHLA, 1991
Member, Ribavirin Task Force, CHLA, 1991-'92
Chairman, Respiratory Care Advisory Committee, CHLA, 1991-'92
Member, Respiratory Care Quality Assurance Committee, CHLA, 1991-'92
Chairman, DNPP Over-Age Patient Task Force, CHLA, 1991-'94
Medical Consultant, Dietary and Nutrition Services, CHLA, 1991-'94
Member, CHLA Multi-disciplinary Pain Management Committee, CHLA, 1992-'93
Member, DNPP Executive Committee, CHLA, 1992-'95
Section Head, Section of Pulmonary Medicine, DNPP, CHLA, 1994-'95
Member, DNPP Finance Committee, DNPP, CHLA, 1994-'95
Member, Pulmonology Curriculum Development. Committee, USC School of Med, 1994
Member, Bereavement Task Force; CHLA, Los Angeles, CA; 1995-'96
Member, Education Policy Committee, USC School of Medicine, 1994-'96
Member, Year III Curriculum Committee, USC School of Medicine, 1994-'96
Member, Clinical Sciences Student Performance Committee, USC Sch of Med, 1995-'96
Member, Residency Review Committee, Dept of Pediatrics, CHLA, 1994-'97
Member, Board of Directors; University Childrens Medical Group; 1997-2000
Member, Joint Practices Committee; Cedars Sinai Medical Center; 1999
Member, Resource Utilization Subcommittee, CHLA; 1999-2000

Director, CHLA Comprehensive Cystic Fibrosis (CF) Program, CHLA, 1991-2000
Program Coordinator, Pediatric Pulmonology, Dept of Pediatrics, CSMC, 1994-2000
Co-director, CSMC Comprehensive CF Center, CSMC, 1994-2000
Associate Division Head, DPP, CHLA, 1995-2000
Member, Scientific Advisory Committee, General Clinical Research Center; Department of Pediatrics, CHLA; 1995-2000
Division Director, Pediatric Pulmonology, Dept of Pediatrics, MUSC, 2000 - 2002
Vice-Chair for Education, Dept. of Pediatrics; MUSC, 2001 - 2003
Member, Academic Advisory Committee to the Dean, College of Medicine, MUSC, 2002-'03

Military Service:

None

Other employment or activity:

Research Assistant, Biochemistry Division, University of Illinois, Urbana, Illinois, 1968

Local Committee Memberships:

Member, COPD / Lung Cancer Program Sub-Committee, American Lung Association - Los Angeles County; 1989-'92
Member, Asthma & Allergy Education Program Sub-Committee, American Lung Association - Los Angeles County; 1989-'92
Member, Advisory Board to University Affiliated Program, CHLA, for conferences supported by the grant "The Team Approach to Services for Children with Special Health Care Needs: Nutrition Makes a Difference" (Bureau of Maternal and Child Health and Resources Delivery, DHHS, Washington, D.C.); 1990-'94
Member, Children With Respiratory Problems Professional Education Sub-Committee, American Lung Association; Chair, Children's Lung Health Committee, ALA-LAC; 1991-'92
Member, Program and Budget Review Committee, ALA - LAC; 1991-'93
Vice Chair, Chronic Lung Disease Committee, ALA - LAC; 1992-'93
Member, Advisory Committee, Cystic Fibrosis Foundation, SC Chapter, 2002 - 2006

State Committee Memberships:

Member, Education Committee, California Thoracic Society; 1992-'95

National Committee Memberships:

Associate Member, American Board of Pediatrics; 1990-'93; Member, 1994-present American Board of Pediatrics, Member, PRCP Profile A Test Committee; 1990-'98
Member, National Advisory Board, University Affiliated Programs (CHLA and Univ of Alabama - Birmingham) grants "The Team Approach to Services for Children with Special Health Care Needs: Nutrition Makes a Difference" (Bureau of Maternal & Child Health & Resources Delivery, DHHS, Washington, D.C.); 1990-'94
Member, Annual Program Committee, Pediatrics Section; American Thoracic Society;
Member, Center Committee, National Cystic Fibrosis Foundation, Bethesda, MD; 1994-'98

Organization Offices and Positions:

Secretary, Western Regional Consortium of Cystic Fibrosis Centers (WRCCFC); 1992-'93

President-elect, WRCCFC; 1993-'94
President, WRCCFC; 1994-'95
Member, Pediatric NETWORK (long range planning committee), American College of Chest Physicians, 2004 - 2007

Research Grants Reviewed For:

Thrasher Research Fund
Cystic Fibrosis Research Institute

Journals Reviewed For:

Pediatric Research
Microvascular Research
Pediatric Pulmonology
American Review of Respiratory Disease / American J of Respiratory and Critical Care Medicine
American Journal of Clinical Nutrition
European Journal of Pediatrics

Editorial Responsibilities:

Guest Editor, *Seminars in Respiratory Medicine*, "Recent Advances in Pediatric Pulmonology. I: Problems of Infants; II: Problems of Childhood". Volume 11, Nos. 2 and 3, 1990
Associate Section Editor, Book Review Section; *Pediatric Pulmonology*; 1989-'91

Awards:

Award of Merit; American Lung Association - Los Angeles County for Outstanding Finalist, Morris and Mary Press Humanism Award, CHLA, 1993, 1999
Listing in *The Best Doctors in America (1994-95)*, (2nd edition) edited by Steven Naifeh and Gregory W. Smith, 1994; *The Best Doctors in America (1998)*, (3rd edition, 1998), *The Best Doctors (2002)*, (4th edition, 2002), *The Best Doctors 2006 (5th edition, 2006)*
Distinguished Service Award, CHLA, 1995
Listing in *The Best Doctors in America: Pacific Region (1996 - 97)*, edited by Steven Naifeh and Gregory W. Smith, 1996
Walt Ector, MD Award for Innovative Clinical Practice in Pediatrics, Dept. of Pediatrics, MUSC, 2003
Best Teacher Award, Pediatric Residency Program, MUSC, 2005
Educator – Mentor Award, 2006, MUSC

D. SOCIETY MEMBERSHIPS

Local Professional Societies:

South Carolina Chapter, American Academy of Pediatrics

National Professional Societies:

Member, American Thoracic Society
Member, American College of Chest Physicians
Fellow, American Academy of Pediatrics
Associate Member, American Board of Pediatrics

Member, American Academy of College Professors

E. CONSULTANTSHIPS

Local:

Pulmonary Specialist, AIDS Center, CHLA, Los Angeles, CA, 1988-2000
Special project consultant, "Cystic Fibrosis" computer teaching module; Starbright Foundation, Los Angeles, CA; 1998-99
Pulmonary Specialist, Craniofacial Center; MUSC; Charleston, SC; 2001- present

National:

American Board of Pediatrics, Pediatric Pulmonology Subspecialty Exam, 1985-'89
Member, Adverse Events Monitoring Committee; DNase Aerosol Therapy in Patients
Participant, Consensus Conference on the use of the High Frequency Chest Compression Vest in Airway Clearance; American Biosystems; Orlando, FL; March, 1999
Member, Medical Advisory Council, ScandiPharm-Axcan Pharmaceuticals, 1999-2001
Participant, Consensus Conference on Newborn Screening for Cystic Fibrosis, CF Foundation, Arlington, VA, August, 2004
Member, Newborn Screening Task Force, Cystic Fibrosis Foundation, 2007-present

Industry

Speaker, Merck Pharmaceuticals, 2003 - present
Member, Regional Pediatric Pulmonary Speakers Bureau, AstraZeneca Pharmaceuticals, 2003 - present
Member, Pediatric Pulmonology Speakers Bureau, Glaxo Smith Kline, 2004 - 2005

F. RESEARCH ACTIVITIES

Complete Bibliography: Appended

Major Areas of Research Interest:

Mechanisms of injury and repair of the lung in children
Early recognition of lung dysfunction and treatment of children with chronic interstitial inflammation and pulmonary fibrosis
Improved methods for treatment of lung disease in children with cystic fibrosis
Lung disease in sickle cell disease, especially acute chest syndrome
Newborn screening for cystic fibrosis

Research in Progress:

1. Gene modifier study in Cystic Fibrosis (CF Foundation; UNC Chapel Hill CF Center)
2. Use of Tobramycin powder in patients with Cystic Fibrosis (Chiron Corp.)
3. Use of Aztreonam for Inhalation in patients with Cystic Fibrosis (Corus Pharma)
4. Analysis and treatment of patients with lung disease and sickle cell disease

Research Grants in Past Five Years

Genentech, Inc; "The Epidemiologic Study of Cystic Fibrosis" (Protocol Z0595n) CHLA 1994-2000 (Role - Principal Investigator at Collaborating Center) (\$104,463)

Webb-Berger Foundation "Investigations in Cystic Fibrosis" funds distributed to various investigators at CHLA and USC; 1998 (\$160,000), 1999 (\$125,000) (Role – Study Coordinator and Principal Investigator)

PathoGenesis Corporation: "A phase III placebo controlled clinical trail (PC-TNDS-002) to study the safety and efficacy of tobramycin for inhalation in patients with cystic fibrosis (Role - Principal Investigator at Collaborating Center) (1995-98) with follow-on open-label studies (-003 and -007) (\$72,749)

Genentech, Inc: "A multi-center, randomized, placebo-controlled, double-blind study to determine the effect of Pulmozyme on pulmonary function decline in subjects with cystic fibrosis aged 6-10 years" - (Role -- Principal Investigator at Collaborating Center) 1997-2000 (\$51,000 1st year)

Nemoirs Childrens Institute: "Managed care and healthcare use among CF children" (Role -- Principal Investigator at Collaborating Center) CHLA 1997-2000 (\$1,000 per year)

Cystic Fibrosis Foundation: "A prospective, longitudinal determination of computed tomography of the chest and systemic markers of inflammation in children with cystic fibrosis aged 6-10 years with mild pulmonary abnormalities" (Role - Principal Investigator at Collaborating Center) 1997- 2000 (\$5,066)

Dupont Merck: "DMP 777-003: A dose escalation study to evaluate the safety, tolerability, pharmacokinetics, and pharmacodynamics of multiple doses of DMP 777 in adult subjects 18 years of age and older with cystic fibrosis" (Role – Principal Investigator at Collaborating Center) 1998 –1999 (\$26,491)

Dupont Merck:"DMP 777-004: A multiple-dose escalation study to evaluate the lung-specific bioefficacy of oral administration with DMP 777 in adult patients 18 years of age and older with cystic fibrosis. (Role – Principal Investigator at Collaborating Center) 1998-1999 (\$37,029)

Axio Research Corporation and Cystic Fibrosis Foundation: "PFP-3 Vaccine Study" (Role – Principal Investigator at Collaborating Center) 1999-2000 (approx. \$95,759)

Aradigm Corp.: "An open-label, phase 2a study to evaluate the feasibility of bolus delivery of rhDNase via the AERx™ rhDNase pulmonary management system in patients with cystic fibrosis" (1999-2000)

Doctors Charity of South Carolina; Screening for audiologic complications of TOBI inhalation in patients with CF. (Role - Co - principal Investigator; PI – Flint Boettcher, MD)

Genentech, Inc; "The Epidemiologic Study of Cystic Fibrosis" (Protocol Z0595n) MUSC 2000-2002 (Role - Principal Investigator at Collaborating Center)

Cystic Fibrosis Foundation; "Gene Modifier Study in Cystic Fibrosis" MUSC 2001 - present (Role - Co-principal Investigator at Collaborating Center)

Chiron Corp.; "A Phase I Single-dose, Dose-escalation Trial Comparing Safety, Pharmacokinetics, and Delivery Time of Tobramycin Powder for Inhalation (TPI Powder) Administered by the Nektar T-326 Dry Powder Inhaler Device (T-326 Inhaler) to Tobramycin Solution for Inhalation (TOBI at 300 mg/5ml) Administered by a PARI LC PLUS jet nebulizer/DeVilbiss PulmonAide Compressor in Cystic Fibrosis (CF) Patients." 2003 - present (Role - Co-principal Investigator at Collaborating Center)

Corus Pharma: "A blinded, multicenter, randomized, placebo-controlled trial with Aztreonam for Inhalation (AI) in cystic fibrosis patients with lung disease due to *P. aeruginosa* infection." (Study AI-003) 2003 - 2004 (Role: Principal Investigator at Collaborating Site)

Corus Pharma: "A Phase 3, Open-label Study of Multiple Courses of Aztreonam Lysinate for Inhalation (AI) in Cystic Fibrosis Patients (AIR-CF3) (AI-005) 2005 – 2007 (Role: Principal Investigator at Collaborating Site)

Corus Pharma: "A Phase 3, Open-label, Follow-on Study of Multiple Courses of Aztreonam Lysinate for Inhalation (AI) in Cystic Fibrosis Patients (AIR-CF3) (AI-006) 2005 – 2007 (Role: Principal Investigator at Collaborating Site)

Grants applied for:

None recently

Other grants:

Cystic Fibrosis Foundation, Center Grant, Medical University of South Carolina, 2000-'01, \$35,238 (role: Center Director)

Cystic Fibrosis Foundation, Center Grant, MUSC, 2001-02 \$42,496 (role, Center Director)

Cystic Fibrosis Foundation, Center Grant, MUSC, 2002-03, \$45,707 (role: Center Director)

Cystic Fibrosis Foundation, Center Grant, 2003-2004, \$48,337 (role: Center Director)

Cystic Fibrosis Foundation, Center Grant, 2004-2005, \$53,476 (role: Center Director)

Cystic Fibrosis Foundation, Center Grant, 2005-2006, \$62,328 (role: Center Director)

BIBLIOGRAPHY

ARTICLES

Peer Review:

1. Bowman CM, J Sidikaro, M Nomura: Specific inactivation of ribosomes by colicin E3 in vitro and mechanism of immunity in colicinogenic cells. *Nature New Biol* 234:133-137, 1971.
2. Bowman CM: Inactivation of ribosomes by colicin E3 in vitro: requirement for 50S ribosomal subunits. *FEBS (Fed Eur Biochem Soc) Letters* 22:73-75, 1972.
3. Dahlberg AE, E Lund, NO Kjeldgaard, CM Bowman, M Nomura: Colicin E3-induced cleavage of 16S ribosomal ribonucleic acid: blocking effects of certain antibiotics. *Biochemistry* 12:948-950, 1973.
4. Wright PF, AB Kaiser, CM Bowman, KT McKee Jr, H Trujillo, ZA McGee: The pharmacokinetics and efficacy of an aminoglycoside administered into the cerebral ventricles in neonates: implications for further evaluation of this route of therapy in meningitis. *J Infect Dis* 143:141-147, 1981.
5. Shasby DM, SS Shasby, CM Bowman, RB Fox, RN Harada, RM Tate, JE Repine: Lung lavage angiotensin converting enzyme levels in normal and nitrogen mustard treated rabbits exposed to hyperoxia. *Am Rev Resp Dis* 124:202-203, 1981.
6. Repine JE, RB Fox, EM Berger, AE Vatter, DM Shasby, CM Bowman, RN Harada: Potential mechanisms of lung injury from hydroxyl radical. *Chest* 80S:45S-48S, 1981.
7. Harada RN, CM Bowman, RB Fox, JE Repine: Alveolar macrophage secretions: initiators of inflammation in pulmonary oxygen toxicity? *Chest* 81S:52S-54S, 1982.
8. Repine JE, CM Bowman, RM Tate: Pulmonary edema: State of the Art. *Chest* 81S:47S-50S, 1982.
 9. Bowman CM, EN Butler, AE Vatter, JE Repine: Hyperoxia injures endothelial cells in culture and causes increased neutrophil adherence. *Chest* 83S:33S-35S, 1983.
10. Bowman CM, RN Harada, JE Repine: Hyperoxia stimulates alveolar macrophages to produce and release a factor which increases neutrophil adherence. *Inflammation* 7:331-338, 1983.
11. Bowman CM, EN Butler, JE Repine: Hyperoxia damages cultured endothelial cells causing increased neutrophil adherence. *Amer Rev Resp Dis* 128:469-472, 1983.
12. Berger EM, RN Harada, AE Vatter, CM Bowman, JE Repine: Cyclical abnormalities in the bactericidal function, superoxide anion production and lysozyme activity of neutrophils from a healthy female during menstruation: Reversal by pretreatment with aspirin. *J Infect Dis* 149:413-419, 1984.

13. Reardon MC, KB Hammond, FJ Accurso, CD Fisher, ERB McCabe, EK Cotton, CM Bowman: Nutritional deficits exist before two months of age in some infants with cystic fibrosis identified by a screening test. *J Pediatr* 105:271-274, 1984.
14. Manchester DK, NB Parker, CM Bowman: Maternal smoking increases xenobiotic metabolism in placenta but not umbilical vein endothelium. *Ped Res* 18:1071-1075, 1984.
15. Abman, SH, FJ Accurso, CM Bowman: Unsuspected cardiopulmonary abnormalities complicating bronchopulmonary dysplasia. *Arch Dis Child* 59:966-970, 1984.
16. Abman SH, RR Wolfe, FJ Accurso, BL Koops, CM Bowman, JW Wiggins: Pulmonary vascular response to oxygen in infants with severe bronchopulmonary dysplasia. *Pediatrics* 75:80-84, 1985.
17. Bowman CM, EM Berger, EN Butler, KM Toth, JE Repine: HEPES may stimulate cultured endothelial cells to make growth retarding oxygen metabolites. *In Vitro Cell Dev Biol* 21: 140-142, 1985.
18. Abman SH, FJ Accurso, CM Bowman: Persistent morbidity and mortality of protein calorie malnutrition in young infants with cystic fibrosis. *J. Pediatr Gastroent and Nutr* 5:393-396, 1986.
19. Kurzner SI, M Garg, DB Bautista, CW Sargent, CM Bowman, TG Keens: Growth failure in bronchopulmonary dysplasia: Elevated metabolic rates and pulmonary mechanics. *J. Pediatr* 112:73-80, 1988.
20. Bader D, FD Allman, JW Birns, CM Bowman: Treatment of massive atelectasis in a patient with apparently mild asthma. *Clin Pediatr* 27:165-66, 1988.
21. Ortega M, AD Ramos, ACG Platzker, J Atkinson, CM Bowman: Early prediction of ultimate outcome in newborn infants with severe respiratory failure. *J Pediatr* 113:744-47, 1988.
22. Atkinson JB, P Emerson, R Wheaton, CM Bowman: A simplified method of autoregulation of blood flow in the extracorporeal membrane oxygenation circuit. *J Pediatr Surg* 24:251-52, 1989.
23. Flavin MP, LA Parton, CM Bowman: Conditioned medium from irradiated bovine pulmonary artery endothelial cells stimulates increased protein synthesis by irradiated bovine lung fibroblasts in vitro. *Exp Lung Res* 16:405-422, 1990.
24. Grebe T, Seltzer W, Marchi J De, Silva D, Doane WW, Gozal D, Richter SF, Bowman CM, Norman RA, Rhoads S, Henried L, Murphy S, Harwood I, Accurso F, Jain K: Genetic analysis of Hispanic individuals with cystic fibrosis. *Am J Human Genetics* 54:443-46, 1994.
25. Geller DE, H Eigen, SB Fiel, *et. al.* (including CM Bowman in the "Dornase Alfa Nebulizer Group"): Effect of smaller droplet size of dornase alfa on lung function in mild cystic fibrosis. Dornase Alfa Nebulizer Group. *Pediatr Pulm* 25: 83-87, 1998.

26. Liang MH, LC Wong, D Klein, B Shapiro, CM Bowman, E Hsu: Cystic fibrosis in a Puerto Rican female homozygous for the R1066C mutation. *J Med Genetics* 35:84-85, 1998.
27. Liang MH, KK Wertz, CM Bowman, E Hsu, B Shapiro, LC Wong: 3849+10 kb C → T splicing mutation in Hispanic CF patients. *Molecular Genetics and Metabolism* 64:213-216, 1998.
28. Ramsey BW, MS Pepe, JM Quan, KL Otto, AB Montgomery, J Williams-Warren, M Vasiljev-K, D Borowitz, CM Bowman, *et al.* Efficacy and safety of chronic intermittent administration of inhaled tobramycin in patients with cystic fibrosis. *New England J Med* 340:23-30, 1999.
29. Wang JJ, CM Bowman, E Hsu, K Wertz, LJ Wong. A novel mutation in the CFTR gene correlates with severe clinical phenotype in seven Hispanic patients. *J Med Gen* 37:215-218, 2000..
30. Ben-Ari J, D Gozal, RJ Dorio, CM Bowman, A Reiff, SM Walker. Superantigen presentation by cystic fibrosis B cells in not suppressed by dexamethasone. *Clin Diag Lab Immunol* 7:553-556, 2000.
31. Wang J, CM Bowman, LC Wong. A novel frame shift mutation, 935delA, in two Hispanic cystic fibrosis patients. *Mol Genet Metab* 70:316-21. 2000
32. Wong LC, J Wang, M Woo, E Hsu, CM Bowman. A novel mutation detected by temporal temperature gradient gel electrophoresis led to the confirmative prenatal diagnosis of a Hispanic CF family. *Prenat Diagnosis* 20:807-810, 2000.
33. Durst CL, MV Horn, EF MacLaughlin, CM Bowman, VA Starnes, MS Woo. Psychosocial responses of adolescent cystic fibrosis patients to lung transplantation. *Pediatric Transplantation* 5:27-31, 2001.
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Non-Peer Review:

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Articles Submitted:

Germana J, R Anbar, CM Bowman, et al. Guidelines for the use of high-frequency chest wall oscillation in airway mucus clearance in patients with cystic fibrosis.

ABSTRACTS

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2. Bowman CM, J Konisky, M Nomura, J Dahlberg: Specific alteration of 16S ribosomal RNA induced by colicin E3 *in vivo*. *Bacteriological Proc* P 137, 1971.
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7. Bowman CM, RN Harada, RB Fox, JE Repine: Exposure to hyperoxia stimulates alveolar macrophages (AM) to release a factor which increases the adherence of polymorphonuclear leukocytes (PMN) to nylon fiber (NF). *Amer Rev Resp Dis* 123:231, 1981.
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64. Bowman CM, L Augustine, E Gomperts, M Delavari. A phase I study demonstrating the safety and pharmacokinetics of two anti-*Pseudomonas* monoclonal antibodies infused into patients with cystic fibrosis (CF). *Pediatr Pulm* 1994; Suppl 10: 252.
65. Durst CL, MV Horn, MS Woo, CM Bowman, VA Starnes. Psychological responses of adolescent

recipients who received double lobar or cadaveric lung transplantation. *Pediatric Pulmonology* 1997; Supplement 14, p 324.

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70. Kaley D, MS Woo, CM Bowman. Do staff nurses feel that end of life issues are adequately addressed with CF patients and their families? Presented at the 12th Annual North American Cystic Fibrosis Conference, Montreal, Can; October, 1998.
71. Nakamura CT, CM Bowman, RJ Dorio, SM Walker. High sodium chloride concentration in cystic fibrosis airway fluid increases the toxicity of *Pseudomonas* exotoxin-A for bronchial epithelial cells. Presented at the 12th Annual North American Cystic Fibrosis Conference, Montreal, Can; October, 1998.
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74. Ramsey BW, B Schaeffler, AB Montgomery, JW Kylstra, U Meyer, JM Quan, CM Bowman. Survival and lung function during 2 years treatment with intermittent inhaled tobramycin in CF patients. Presented as poster at the ECFS 23rd European Cystic Fibrosis Conference, The Hague, The Netherlands, June 10, 1999.
75. Wang J, M Bowman, E Hsu, L Wong. Improvement of mutation detection in Hispanic cystic fibrosis patients with temporal temperature gradient gel electrophoresis. 13th Annual North American Cystic Fibrosis Conference, Seattle, WA, USA, presented as poster October 9, 1999. *Pediatr. Pulmonol.* 1999, Suppl. 19: 212 (abstr. 170).
76. Katona DR, CT Nakamura, CM Bowman, M Margetis, TG Keens, MS Woo. Does pancrecarb improve the treatment of pancreatic insufficiency in cystic fibrosis? *Am J Pulm Crit Care Med* 2000; 161:A72 and poster presentation at the ATS annual meeting, May, 2000.

77. Bowman MS, CM Bowman. Family backgrounds in cystic fibrosis in southern California. Presented at the North American Cystic Fibrosis Conference, Baltimore, MD, November, 2000.
78. Ng GY, CT Nakamura, TG Keens, CM Bowman, MS Woo. Taste comparison of four pancreatic enzyme preparations in children with cystic fibrosis. Presented at the North American Cystic Fibrosis Conference, Baltimore, MD, November, 2000.
79. Geller D, D Caplan, D Ericson, CM Bowman, L Milgram, J Thippawong, *et al.* Bolus delivery of rhDNase via a novel, electronic inhaler system improves lung function in cystic fibrosis patients. Presented at the North American Cystic Fibrosis Conference, Baltimore, MD, November, 2000.
80. Konstan MW, HAWM Tiddens, JM Quan, J Sy, S McKenzie, ME Wohl, *et al* (including CM Bowman). A randomized, placebo-controlled trial of two years' treatment with Dornase alfa (Pulmozyme) in cystic fibrosis patients aged 6-10 years with early lung disease. Presented at the North American Cystic Fibrosis Conference, Baltimore, MD, November, 2000.
81. Bishop SM, DL Anderson, CM Bowman. Use of a simple tool for routine assessment of family stress in pediatric cystic fibrosis. Poster presentation at the North American Cystic Fibrosis Conference, Orlando, FL, October, 2001.
82. Lester MK, D Anderson, PA Flume, CM Bowman. Home nebulizer use in the CF population: Do we need to clean up our cleaning practices? Presented as poster and slide presentations at the North American Cystic Fibrosis Conference, New Orleans, LA; October, 2002.
83. Bishop S, D Anderson, CM Bowman. Use of a simple tool for routine assessment of family stress in pediatric cystic fibrosis: Tracking status over time. Accepted for poster presentation at the North American Cystic Fibrosis Conference, Anaheim, CA; October, 2003.
84. Hammond LS, I Virella-Lowell, SB Keiles, CM Bowman, GS Pai. De novo CFTR 749 del T variant found in a teen with mild symptoms of cystic fibrosis. Poster presentation at the national meeting of the American College of Clinical Genetics, 2004.
85. Panzarino V, G Johnson, CM Bowman. Decreased attendance at teaching conferences by Pediatric residents following institution of 80 hour work week limitation. Accepted for presentation at the Ambulatory Pediatric Association meeting, 2004.
86. Scott LG, CM Bowman, RB Pillai, CA Little, PM Scibielski, AF Finn, FM Schaffer. Comparative clinical morbidity of an (autosomal) agammaglobulinemic female and Bruton's XLA. Presented at the national meeting of the American Academy of Asthma, Allergy and Immunology. 2004.

CHAPTERS

1. Bowman CM, J Sidikaro, M Nomura: Mode of Action of Colicin E3. *In: Chemistry and Functions of Colicins*, Academic Press, New York, 1973, pp. 87-106.

2. Bowman CM. Cystic fibrosis. *In: Pediatric Care of the ICN Graduate*, R.A. Ballard, ed., W.B. Saunders, Philadelphia, 1988, pp. 177-86.
3. Bowman CM. Hemoptysis. *In: Respiratory Disease in Children: Diagnosis and Management*, G.M. Loughlin and H. Eigen, eds., Williams and Wilkins, Baltimore, MD 1994, pp 201-205 (Chapter 18).
4. Bowman CM. Pulmonary Hemosiderosis. *In: Respiratory Disease in Children: Diagnosis and Management*, G.M. Loughlin and H. Eigen, eds., Williams and Wilkins, Baltimore, MD, 1994, pp 417-410 (Chapter 34).

THESES

1. Undergraduate honors thesis; University of Illinois, Department of Biochemistry; Lowell Hager, Ph.D., advisor; "Studies on the Production of Chloroperoxidase by *Caldariomyces fumago*."
2. Ph.D. thesis; University of Wisconsin, Department of Genetics; Masayasu Nomura, Ph.D., advisor; "Studies on the Biochemical Action of Colicin E3."

MISCELLANY

1. Bowman CM: Treatment of shock. *Audio-Digest Pediatrics*, Vol. 28, No. 22, November, 1982 (taped from presentation to the Texas Pediatric Society in September, 1982).
2. Bowman CM, R Diaz: Prayer for those who care for sick children. Copyright, 1988; *Pediatrics* 1989; 84:A29.

Revised May, 2007

G. PROFESSIONAL ACTIVITIES (LECTURES AND PRESENTATIONS, LAST FIVE YEARS)

(Numbers represent total number of lectures/presentations given; earlier presentations available on request)

RESEARCH PRESENTATIONS:

65. Research Presentation, Western Consortium of Cystic Fibrosis Care and Research Centers Annual Care-givers Conference; Yosemite, CA; March 13, 1998.
Lecture: “Appropriate use of TOBI in children with CF”
66. Research Presentation, CHLA Comprehensive CF Center (CCFC) Lecture Series; CHLA, LA, CA; May 15, 1998.
Topic: “Introduction of TOBI into the treatment armamentarium for children with CF”
67. Quarterly update, CHLA CCFC team meeting, Kaiser Permanente Hospital, Panorama City, CA; June 17, 1998.
Topic: “New research protocols in the CHLA CCFC”
68. Invited research presentation, CF physicians’ roundtable, PathoGenesis Corp., San Francisco, CA; October 9, 1998.
Lecture: “Innovative approaches to the treatment of lung infection in cystic fibrosis”
69. Invited research presentation, UK CF Research Panel, PathoGenesis Corp., London, England; November 13, 1998.
Lecture: “Challenges in treating airway infections in cystic fibrosis”
70. Research presentation; ECFS 23rd European Cystic Fibrosis Conference; The Hague, The Netherlands; June 10, 1999.
Lecture: “Tobramycin solution for inhalation; Clinical perspectives”
71. Research presentation; ECFS 24th European Cystic Fibrosis Conference; Stockholm, Sweden; June 6, 2000.
Lecture: “Key results from the 2 year trial of TOBI in the United States”
72. Research presentation; European Respiratory Society Annual Conference; Florence, Italy; August 31, 2000.
Lecture: “Key findings from the US 2 year trial of TOBI”

GRAND ROUNDS PRESENTATIONS:

21. Lecturer, Pediatric Grand Rounds, Department of Pediatrics; Cedars Sinai Medical Center, Los Angeles, CA; January 14, 1999.
Lecture: “Cystic fibrosis 1999: Challenges for the new millennium”
22. Lecturer: Pulmonary Grand Rounds, Department of Internal Medicine, Cedars Sinai Medical

Center, LA, CA; October 13, 1999.

Lecture: "Pediatric lung disorders with adult sequelae"

23. Lecturer; Pediatric Grand Rounds, Dept. of Pediatrics, Medical University of South Carolina (MUSC); Charleston, SC; September 29, 2000

Lecture: "Cystic fibrosis 2000"

24. Coordinator and discussion leader; Pediatric Grand Rounds; Dept. of Peds; MUSC, Sept 14, 2001

Panel Discussion: "When tragedy strikes...."

PRESENTATIONS TO HOUSESTAFF, MEDICAL STUDENTS, FELLOWS:

98. Invited Discussant, Clinical Case Conference, Dept of Pediatrics, CSMC; LA, CA; February 3, 1998.

Case topic: "Respiratory syncytial virus infection in children"

99. Lecturer, Resident's Teaching Conference; Dept of Pediatrics, CSMC, LA, CA; March 11, 1998.

Topic: "Cystic Fibrosis"

100. Organizer/Discussant, Clinical Care Conf, Dept of Pediatrics, CSMC, LA, CA; April 7, 1998.

Topic: "A newborn with bowel obstruction"

101. Lecturer, Intern Core Pediatrics Course; Dept of Pediatrics, CHLA; LA, CA; July 13 and August 14, 1998.

Topics: "CF for the houseofficer"
"Bronchopulmonary dysplasia"

102. Lecturer, Pulmonary Fellows Teaching Conference series; DPP, Dept of Pediatrics, CHLA; LA, CA; September 15, 1998.

Topic: "Current understanding and management of CF"

103. Lecturer, Medicine-Pediatrics Housestaff Lecture series; Depts of Pediatrics and Internal Medicine; CSMC; LA, CA; November 18, 1998.

Topic: "Update on the care of patients with CF"

104. Lecturer, Intern Core Pediatrics Course; Dept of Pediatrics, CHLA, LA, CA; July 6 and 12, 1999.

Topics: "Bronchopulmonary dysplasia"
"Cystic fibrosis for the houseofficer"

105. Lecturer; Pulmonary fellows' orientation course; DPP, Dept of Pediatrics; CHLA, LA, CA; July 26, 1999.

Topics: "Cystic fibrosis: State of the art in 1999"
"Fiberoptic bronchoscopy"

106. Conference Coordinator / case presenter, Pediatric Housestaff Case Conference, Dept. of Pediatrics; CSMC, LA, CA; May 30, 2000.

Topic: "Referral for lung transplantation in a young man with cystic fibrosis"

107. Ward teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC; August 23, 2000.
Topic “CF for the houseofficer”
108. Student teaching conference; Dept. of Pediatrics; MUSC; Charleston, SC; September 21, 2000.
Topic: “Asthma”
109. Housestaff teaching conference; Dept. of Pediatrics; MUSC; Charleston, SC; September 28, 2000.
Topic: “Pulmonary function testing for the houseofficer”
110. Housestaff teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC; January 17, 2001.
Topic: “Fiberoptic bronchoscopy in children”
111. Housestaff teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC, March 5, 2001.
Topic: Current care of children with asthma
112. Housestaff/student clinical teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC, March 7, 2001.
Topic: Use of hand-held devices in the care and monitoring of children with asthma
113. Housestaff/student clinical teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC, March 14, 2001.
Topic: “A current update on cystic fibrosis”
114. Commentary at Housestaff Journal Club; Dept. of Pediatrics, MUSC, Charleston, SC; April 13, 2001.
Topic: “Use of albuterol vs. levalbuterol in children”
115. Housestaff/student clinical teaching conference, Dept. of Pediatrics, MUSC, Charleston, SC, April 23, 2001.
Case Discussion: “Diagnosis of Cystic Fibrosis”
116. Housestaff/student clinical teaching conference, Dept. of Pediatrics; MUSC; Charleston, SC, May 16, 2001.
Topic: “Airway clearance devices and techniques for children with cystic fibrosis”
117. Housestaff Case Conference, Med-Peds residency program; Dept. of Pediatrics, MUSC, Charleston, SC, May 25, 2001.
Case Discussion: “Care of a young woman with severe cystic fibrosis”
118. Housestaff Case Conference, Dept. of Pediatrics; MUSC; Charleston, SC; July 6, 2001.
Case Discussion: “Pneumonia in a teenager with recurrent respiratory papillomatosis”
119. Commentary at Housestaff Journal Club; Dept. of Pediatrics, MUSC, Charleston, SC; July 13, 2001.
Topic: “Cardiorespiratory events recorded on home monitors”

120. Housestaff morning report case conf; Dept. of Pediatrics, MUSC; Charleston, SC; July 18, 2001.
Topic: "Care of a young man with massive pulmonary embolus and sepsis"
121. Pediatrics Housestaff Teaching Conf, Dept. of Pediatrics, MUSC; Charleston, SC; July 27, 2001.
Topic: "SIDS and the evaluation of infants with suspected apnea of infancy"
122. Pediatrics Housestaff Teaching Conf, Dept. of Pediatrics, MUSC; Charleston, SC; August 27, 2001.
Topic: "Understanding current treatment of children with cystic fibrosis"
123. Pediatrics Housestaff Teaching Conf; Dept. of Peds; MUSC; September 7, 2001
Topic: "Use of pulmonary function testing in outpatient management of children with asthma"
124. Discussion at Housestaff Journal Club; Dept. of Peds; MUSC; September 19, 2001
Article: "Impact of inhaled anti-inflammatory therapy on hospitalization and emergency department visits for children with asthma"

PRESENTATIONS TO OTHER PHYSICIANS:

70. Lecturer: Pediatric Grand Rounds; Ventura County Medical Center, Ventura, CA; January 13, 1998.
Topic: "Apnea and sudden infant death syndrome"
71. Lecturer: San Luis Obispo County CCS Continuing Education Program, San Luis Obispo, CA March 20, 1998.
Topic: "Acute care of children with asthma" (Part II)
72. Lecturer; Pediatric Grand Rounds, White Memorial Hospital, Los Angeles, CA; June 11, 1998.
Topic: "Chronic cough in children"
73. Lecturer, Pediatric Grand Rounds, White Memorial Hospital; LA, CA: October 8, 1998.
Topic: "Bronchiolitis 1998: Controversies in management"
74. Roundtable discussion leader, 12th Annual North American Cystic Fibrosis Conference; Montreal, Canada; October 17, 1998 (two sessions).
Topic: "Allergic bronchopulmonary aspergillosis (ABPA)"
75. Lecturer, Pediatric Conference series; Kaiser - Permanente Hospital; LA, CA; October 28, 1998.
Topic: "Bronchiolitis 1998: Controversies in management"
76. Lecturer, San Luis Obispo County CCS Continuing Education Program; San Luis Obispo, CA; October 30, 1998.
Topic: "Bronchiolitis 1998: Controversies in management"
77. Discussant, Liver Transplant Conference; Division of Pediatric Gastroenterology, CHLA, LA, CA;

February 2, 1999.

Discussion: “Factors influencing the progression of lung disease in patients with cystic fibrosis”

78. Lecturer; Pediatric Grand Rounds; White Memorial Hospital; LA, CA; April 22, 1999.
Topic: “Cystic fibrosis, 1999”
79. Lecturer; Postgraduate Evening Seminar, American Thoracic Society Annual Meeting; San Diego, CA; April 25, 1999.
Lecture: “Other potential applications for aerosol antibiotic therapy”
80. Discussion Leader, Roundtable Discussion, 23rd European Cystic Fibrosis Conference; The Hague, The Netherlands; June 10, 1999.
Topic: “Use of aerosol antibiotics”
81. Lecturer; Pediatric Conference; Queen of Angels - Hollywood Presbyterian Hospital; Hollywood, CA; September 9, 1999.
Topic: “Bronchiolitis 1999 – Controversies in management”
82. Guest speaker, Southwestern Pediatric Society, Los Angeles, CA; September 29, 1999.
Topic: “Cystic fibrosis as we approach the next millennium”
83. Lecturer; Pediatric Conference; Providence St. Joseph’s Hospital; Burbank, CA; October 12, 1999.
Topic: “Bronchiolitis -- Controversies in management”
84. Discussant; TOBI Launch Meetings; PathoGenesis Limited, UK; February 29 (Leeds), March 1 (Bristol), March 2, 2000 (Royal Society of Medicine, London)
Topic: “Effects of treatment with TOBI for 96 weeks on patients with cystic fibrosis”
85. Lecture; Weekly Teaching Conference; Department of Anesthesia; CHLA; LA, CA; April 6, 2000.
Topic: “Cystic fibrosis, 2000”
86. Invited Participant; Annual Caregivers Conference, Western Consortium of CF Centers; Redondo Beach, CA; June 11, 2000.
Topic: “Meeting the financial challenges of providing effective team care to chronically ill children”
87. Invited lecturer, Annual Pediatric CME Course, Dept. of Pediatrics, MUSC, Charleston, SC; December 1, 2000.
Topic: “Evaluation and treatment of the infant or child with cough”
88. Invited lecturer, Speakers Bureau Training Session, Chiron/PathoGenesis Corporation; Phoenix, AZ; December 2, 2000.
Topic: “Treatment of chronic *Pseudomonas* infection in children with cystic fibrosis”
89. Invited speaker, All-Ireland Cystic Fibrosis Clinical Symposium; Chiron/Pathogenesis Corp. UK; Killarney, Ireland; February 9, 2001.
Topic: “Current care of lung infections in patients with cystic fibrosis”

PRESENTATIONS TO ALLIED HEALTH PROFESSIONALS:

42. Lecturer; Respiratory Therapy Orientation Course; CHLA, LA, CA; June 15, 1998.
Topics: “Bronchopulmonary dysplasia”
“Interpretation of blood gases”
43. Keynote Speaker, Pediatric Pharmacy Advocacy Group annual meeting; Las Vegas, NV; December 6, 1998.
Topic: “Cystic fibrosis 1998 – Hopes and challenges for the new millennium”
44. Symposium speaker, Symposium on inhaled antibiotics; Pediatric Pharmacy Advocacy Group Annual meeting, Las Vegas, NV; December 4, 2000.
Topic: “Control of chronic *Pseudomonas* infection in patients with cystic fibrosis”
45. Lecturer, Pediatric Nurse Practitioner clinical course; MUSC School of Nursing; Charleston, SC; December 11, 2000.
Topic: “Chronic obstructive lung disease in children: Cystic fibrosis and asthma”
46. Course faculty member, 4th Annual Airway Clearance Course for Respiratory Therapists; MUSC Dept. of Internal Medicine; Charleston, SC; January 26, 2001.
Topic: “Case presentation: Assessment and treatment of a child with asthma”
47. Invited presentation, Physicians Assistants continuing education program, MUSC, Charleston, SC; March 31, 2001.
Topic: “Recognizing and treating pediatric asthma in the 21st century”
48. Informal discussion, Respiratory Therapy Department, MUSC, Charleston, SC; May 16, 2001.
Topic: “Current approaches to respiratory care in infants and children”

MISCELLANEOUS PRESENTATIONS:

19. Lecturer, CHLA CCFC Annual Cystic Fibrosis Education Day; Glendale, CA; February 28, 1998.
Lecture / Discussion: "Latest news about CF -- Comments from the 1997 North American CF conference"
20. Lecturer, Cedars Sinai Medical Center Patient and Family Education Conference, Los Angeles, CA; April 15, 1998.
Lecture / Discussion: "Asthma in Children"
21. Invited lecturer, Annual sales meeting, PathoGenesis Corp. Chicago, IL; July 28, 1998.
Lecture: “Pathophysiology of lung disease in cystic fibrosis”
22. Invited lecturer, Advanced Placement Biology, St. Francis High School, LaCanada, CA; January 26, 1999.
Lecture/Discussion: “Cystic fibrosis: Molecular biology in action”

23. Invited lecturer, Houghton American Legion Post 560 Auxiliary, Long Beach, CA; April 8, 2000.
Topic: “The CHLA comprehensive cystic fibrosis center”
24. Invited consultant, “Ask the Doc Chat” computer conference (sponsored by StarBright Foundation), MUSC Children’s Hospital, Charleston, SC, April 12, 2001.
Topic: “CF and other lung problems” (mostly questions and answers from hospitalized children on-line)
25. Lecturer, Honors Theology Classes; Bishop England High School, Charleston, SC, May 15, 2002.
Topic: “Making ethical decisions in medicine and daily life”
26. Speaker; Annual CF Family Education Day, Comprehensive CF Center, MUSC, Charleston, SC; December 7, 2002.
Topic: “Early diagnosis of CF”

H. **COMMUNITY ACTIVITIES**

Youth sports activities

Coach, American Youth Soccer Organization (AYSO) Region 88, Glendale, CA; 1990-‘93

Coach, Burbank Parochial League Baseball; Burbank, CA; 1992-‘93

Coach, Crescenta Valley Little League (CVLL) Baseball; La Crescenta, CA; 1994, 1999

Member, Board of Directors (Player Agent and Safety Officer) CVLL Baseball; La Crescenta, CA; 1995-‘98

Coach, La Crescenta Babe Ruth Baseball; La Crescenta, CA; 1997

Religious activities

Lector and Eucharistic Minister; St. Bede’s Catholic Church; Denver, CO; 1981-‘84

Founder and Co-Director, Grief Ministry; St. Bede’s Catholic Church; La Canada, CA; 1989-‘91

Academic activities

Judge for high school science fair; St. Francis High School, La Canada, CA; 1997, 2000.

Revised: