11/2011

CURRICULUM VITAE

Robert Glenn Castile, M.D., M.S.
Center for Perinatal Research, W202
Nationwide Children's Hospital
700 Children's Drive
Columbus, Ohio 43205
E-mail address: robert.castile@nationwidechildrens.org

Date of Birth: 11/19/47
Place of Birth: Washington, D.C.
Marital Status: Married, 2 children
Telephone: (614) 722-5116
Fax: (614) 722-3455

EDUCATION

1969 B.S.	University of Maryland (Zoology) College Park, MD
1973 M.D.	University of Maryland School of Medicine Baltimore, MD
1979 M.S.	University of Minnesota (Pediatrics) Minneapolis, MN

Postdoctoral Training

1973 - 1976	Intern and Resident in Pediatrics Mayo Clinic, Rochester, MN
1977 - 1978	Mayo Research Fellow in Pulmonary Physiology Mayo Clinic, Rochester, MN
1978 - 1981	Clinical and Research Fellow in Pulmonary Medicine The Children's Hospital and Harvard Medical School Boston, MA

HONORS

1965	Maryland Tuberculosis and Heart Association Research Fellowship
1966 - 1969	National Science Foundation Research Fellowship
1969	Warfield Merit Scholarship
1969	B.S., Magna cum laude, Phi Beta Kappa, University of Maryland
1973	M.D., Cum laude, University of Maryland School of Medicine
2009-2012	Best Doctors in America

LICENSE AND CERTIFICATION

1974	National Boards (Minnesota)
1978	Massachusetts License
1979	American Board of Pediatrics Certification
1986	Certification, American Board of Pediatrics, Sub-Board of Pediatric Pulmonology
1992	Ohio License
1996, 2002	Re-certifications, American Board of Pediatrics, Sub-Board of

Pediatric Pulmonology

ACADEMIC APPOINTMENTS

1980 - 1981	Research Associate, Department of Physiology Harvard School of Public Health, Boston, MA
1980 - 1983	Instructor in Pediatrics Harvard Medical School, Boston, MA
1983 - 1986	Assistant Professor of Pediatrics Harvard Medical School, Boston, MA
1987 - 1989	Assistant Professor of Pediatrics Tufts University School of Medicine Tufts New England Medical Center, Boston, MA
1987 - 1992	Lecturer in Medicine Harvard Medical School, Boston, MA
1989 - 1992	Associate Professor of Pediatrics Tufts University School of Medicine Tufts New England Medical Center, Boston, MA
1992 - 2001	Associate Professor of Pediatrics with Tenure Ohio State University School of Medicine, Columbus, OH
2001 -	Professor of Pediatrics, Ohio State University School of Medicine and Public Health, Columbus, OH

HOSPITAL APPOINTMENTS

1982 - 1986	Assistant in Respiratory Diseases The Children's Hospital, Boston, MA
1987 - 1989	Assistant in Pediatrics New England Medical Center, Boston, MA
1989 - 1992	Pediatrician, New England Medical Center, Boston, MA
1992 -	Pediatrician, Children's Hospital, Columbus, OH

SOCIETIES

American Thoracic Society
American Physiologic Society
American Academy of Pediatrics
Society for Pediatric Research
European Respiratory Society
American Pediatric Society

EXTRA and INTRAMURAL COMMITTEES AND RESPONSIBILITIES

1988 - 1989	Task Force on Research Development, New England Medical Center
1989 - 1992	Chairman, Committee on Infant Pulmonary Function Testing American Thoracic Society
1991	Ad Hoc Member, Long Range Planning Committee Pediatric Assembly, American Thoracic Society
1991 - 1993	Program Committee, American Thoracic Society
1992 -	Member, International Working Group on Infant Lung Function

	European Respiratory Society and American Thoracic Society
1994 - 1995	Member, Search Committee for Director of Pediatric ICU Intensive Care Unit
1998-1999	Member, Endocrinology Search Committee
1998-2000	Member, Out-patient GER QI Team
1998-	Member, PAA Pension Plan Committee
1999-2002	Member, Children's Research Institute Investigator Advisory Committee
1999-2005	Member, PAA /WOC Committee
2000-2001	Member, Nominating Committee, Pediatric Assembly, American Thoracic Society
2000-2003	Member, American Thoracic Society Task Force on Pediatrics, Chairman, Sub-Committee on Clinical Research Member, Sub-Committee on Clinical Care
2002-2005	Member, American Thoracic Society Pediatric Assembly Committee on Research Priorities in Pediatric Respiratory Medicine
2003-2005	Member, Children's Clinical Research Institute Pilot Study Review Committee
2003-2010	Member, Conscious Sedation Advisory Group, Children's Hospital
2003-2010	Member, Cystic Fibrosis Foundation Therapeutic Development Network Manuscript Review Committee
2004-2010	Member, Pediatric Interstitial Lung Disease Clinical Research Network
2006-2010	Member, Pediatric Program Committee, 2007 American Thoracic Society Meeting
2010-2015	Consultant to the Pulmonary-Allergy Drugs Advisory Committee, United States Food and Drug Administration
2011-	Consultant, American Thoracic Society Sub-Committee on the Evaluation of Respiratory Mechanics and Function in the Pediatric and Neonatal Intensive Care Unit
2012-	Consultant to the Pediatric Advisory Committee, United States Food and Drug Administration

Editorial Board:	Pediatric Pulmonology 1995-current
Reviewer for:	American Journal of Respiratory and Critical Care Medicine Journal of Pediatrics Pediatrics Pediatric Pulmonology European Respiratory Journal Journal of Applied Physiology Pediatric Research New England Journal of Medicine Thorax Pediatric Asthma, Allergy and Immunology Archives of Pediatrics & Adolescent Medicine The Journal of Respiratory Diseases

Cystic Fibrosis Trust, London
Pediatric Allergy, Immunology, and Pulmonology

RESEARCH INTERESTS

Pulmonary Mechanics, Lung Growth, Lung Imaging, Cystic Fibrosis, Infant Pulmonary Function Testing, Neonatal Chronic Lung Disease

BIBLIOGRAPHY

1. Castile R, Marks J, Stickler G: Vitamin D deficiency rickets: Two cases with faulty infant feeding practices. Am J Dis Child 1975; 129:964-966.

2. Castile R, Kleinberg F: The pathogenesis and management of massive pulmonary hemorrhage in the neonate: A case report of a normal survivor. Mayo Clin Proc 1976; 51:155-158.

3. Castile R, Telander R, Cooney D, Istrup D, Perrault J, Van Heerden J, Stickler G: Crohn's disease in children: Assessment of the progression of disease, growth, and prognosis. J Pediatr Surg 1980; 15:462-469.

4. Castile J, Castile R, O'Connell EJ: Implementation and operation of a hospital pediatric satellite pharmacy. Hosp Pharm 1980; 15:457-469.

5. Castile RG, Hyatt RE, Rodarte JR: Determinants of maximal expiratory flow and density dependence in normal man. J Appl Physiol 1980; 49:897-904.

6. Castile R, Staats B, Westbrook P: Symptomatic pectus deformities of the chest. Am Rev Respir Dis 1982; 126:564-568.

7. Pedersen O, Castile R, Drazen J, Ingram R: Density dependence of maximal expiratory flow in the dog. J Appl Physiol 1982: 53:397-404.

8. Castile R, Mead J, Jackson A, Wohl ME, Stokes D: Effects of posture on flow-volume curve configuration in normal humans. J Appl Physiol 1982; 52:1175-1183.

9. Castile R, Pedersen O, Drazen J, Ingram RH: Density dependence of maximal flow in dogs with central and peripheral obstruction. J Appl Physiol 1983; 55:717-725.

10. Fredberg JJ, Keefe DH, Glass GM, Castile RG, Frantz III ID: Alveolar pressure nonhomogeneity during small amplitude high frequency oscillation. J Appl Physiol 1984; 57:788-800.

11. Brooks LJ, Castile RG, Glass GM, Griscom NT, Wohl MEB, Fredberg JJ: Reproducibility and accuracy of airway area by acoustic reflection. J Appl Physiol 1984; 57:777-787.

12. Fredberg JJ, Ingram RH Jr., Castile RG, Glass GM, Drazen JM: Nonhomogeneity of lung response to inhaled histamine assessed with alveolar capsules. J Appl Physiol 1985; 58:1914-1922.

13. Castile R, Shwachman H, Travis W, Hadley C, Warwick W, Missmahl H: Amyloidosis as a complication of cystic fibrosis. Am J Dis Child 1985; 139:728-732.

14. Castile R, Brown R: More problems with Boyle's Law or VTG or not VTG, that is the question. Am Rev Respir Dis 1986; 33:184-185.

15. Castile RG, Pedersen OF, Drazen JM, Ingram RH Jr.: Density dependence of maximal expiratory flow before and during tracheal constriction in dogs. J Appl Physiol 1986; 60:1060-1066.

16. Travis W, Castile R, Vawter G, Shwachman H, Warwick W: Secondary amyloidosis in cystic fibrosis. Am J Clin Pathol 1986; 85:419-424.

17. O'Donnell CR, Castile RG, Mead J: Changes in flow-volume curve configuration with bronchoconstriction and bronchodilation. J Appl Physiol 1986; 61:2243-2251.

18. Allen JL, Castile RG, Mead J: Positive effort dependence of maximal expiratory flow. J Appl Physiol 1987; 62:718-724.

19. Redline S, Tager IB, Castile RG, Weiss ST, Barr M, Speizer F: Assessment of the usefulness of helium-oxygen maximal expiratory flow curves in epidemiologic studies of lung disease in childhood. Am Rev Respir Dis 1987; 135:834-840.

20. McNamara JJ, Castile RG, Glass GM, Fredberg JJ: Heterogeneous lung emptying during forced expiration. J Appl Physiol 1987; 63:1648-1657.

21. Martin TR, Castile RG, Fredberg JJ, Wohl MEB, Mead J: Airway size is related to sex but not lung size in normal adults. J Appl Physiol 1987; 63:2042-2047.

22. Hoffstein V, Castile RG, O'Donnell CR, Glass GM, Strieder DJ, Wohl MEB, Fredberg JJ: In vivo estimation of tracheal distensibility and hysteresis in normal adults. J Appl Physiol 1987; 63:2482-2489.

23. Martin TR, Feldman HA, Fredberg JJ, Castile RG, Mead J, Wohl MEB: Relationship between maximal expiratory flow and lung volume during growth in normal humans. J Appl Physiol 1988; 65:822-828.

24. Ludwig MS, McNamara JJ, Castile RG, Glass GM, Fredberg JJ, Ingram RH Jr: Lung inflation does not increase maximal expiratory flow during induced obstruction in the dog. J Appl Physiol 1988; 65:415-421.

25. Patterson R, Greenberger PA, Castile RG, Yee WF, Roberts M: Diagnostic problems in hypersensitivity lung disease. Allergy Proc 1989; 10:141-147.

26. Yee WF, Castile RG, Cooper A, Roberts M, Patterson R: Diagnosing Bird Fancier's Disease in children. Pediatrics 1990; 85:848-852.

27. Hanrahan JP, Tager IB, Castile RG, Segal MR, Weiss ST, Speizer FE: Pulmonary function measures in healthy infants: variability and size correction. Am Rev Respir Dis 1990; 141:1127-1135.

28. Allen J, Castile RG: Infant pulmonary function testing workshop, Boston, MA: Conference report. Pediatr Pulmonol 1991; 10:214-218.

29. Allen J, Bashir N, Brown R, Castile R: Infant pulmonary function testing workshop, Anaheim, CA: Conference report. Pediatr Pulmonol 1992; 12:263-269.

30. Hanrahan JP, Tager IB, Segal MR, Castile RG, VanVunakis H, Weiss ST, Speizer FE: The effect of maternal smoking during pregnancy on early infant lung function. Am Rev Respir Dis 1992; 145:1129-1135.

31. Castile R (ed): Respiratory system mechanics in infants: Physiologic evaluation in health and disease. A statement of the American Thoracic Society and European Respiratory Society Committees on Infant Pulmonary Function. Am Rev Respir Dis 1993; 147:474-496.

32. Allen JL, Bar Yishay E, Bryan AC, Budd J, Castile RG, Coates AL, Davis GM, Engalnd S, Gaultier C, Godfrey S, Grunstein M, LeSoeuf P, Mellins RB, Morgan WJ, Motoyama EK, Silverman M, Sly PD, Stocks J, Tepper RS, Warwick WJ. Respiratory mechanics in infants – Physiological evaluation in health and disease. Eur Respir J 1993; 6:279-310.

33. Tager I, Hanrahan J, Tosteson T, Castile R, Brown R, Weiss S, Speizer F: Lung function pre- and post-smoke exposure and wheezing in the first year of life. Am Rev Respir Dis 1993; 147:811-817.

34. McNamara JJ, Castile RG, Ludwig MS, Glass GM, Ingram RH Jr., Fredberg JJ: Interdependent regional emptying during forced expiration before and after histamine inhalation in canines. J Appl Physiol 1994; 76:356-360.

35. Brown RW, Hanrahan JP, Castile RG, Tager IB: The effect of maternal smoking during pregnancy on passive respiratory mechanics in early infancy. Pediatr Pulmonol 1995; 19:23-28.

36. McCoy K, Castile R, Allen E, Filbrun D, Flucke R, Bar-Yishay E: Functional residual capacity (FRC) measurements by plethysmography and helium dilution in normal infants. Pediatr Pulmonol 1995; 19:282-290.

37. Feher A, Castile R, Kisling J, Angeliccio C, Filbrun D, Flucke R, Tepper R: Flow limitation in normal infants: A new method for forced expiratory maneuvers from raised lung volumes. J Appl Physiol 1996; 80:2019-2025.

38. Hanrahan J, Brown R, Carey V, Castile R, Speizer F, Tager I: Passive respiratory mechanics in infants: Effects of growth, gender and smoking. Am J Respir Crit Care Med 1996; 154:670-680.

39. Rosenfeld M, Emerson J, Accurso F, Armstrong D, Castile R, Grimwood K, Hiatt P McCoy K, McNamara S, Ramsey B, Wagener J. Diagnostic accuracy of oropharyngeal cultures in infants and young children with cystic fibrosis. Pediatr Pulmonol 1999; 28:321-328.

40. Long F, Castile R, Brody A, Hogan M, Flucke R, Filbrun D, McCoy K. Lungs in infants and young children: Improved thin-section computed tomography of the lungs in infants and young children using a non-invasive controlled-ventilation technique: Initial experience. Radiology 1999; 212:588-593.

41. Davis S, Jones M, Kisling J, Castile R, Tepper R. Density dependence of forced expiratory flows in healthy infants. J Appl Physiol 1999; 87:1796-1801.

42. Tepper R, Jones M, Davis S, Kisling J, Castile R. Rate constant for forced expiratory flow decreases with lung growth during infancy. Am J Respir Crit Care Med 1999; 160:835-838.

43. Jones M, Castile R, Davis S, Kisling J, Filbrun D, Flucke R, Emsley C, Goldstein A, Ambrosius W, Tepper R. Forced expiratory flows and volumes in infants: Normative data and lung growth. Am J Respir Crit Care Med 2000; 161:353-359.

44. Jones M, Davis S, Kisling J, Howard J, Castile R, Tepper R. Flow limitation in infants assessed by negative expiratory pressure. Am J Respir Crit Care Med 2000; 161:713-717.

45. Coulter KR, Allen ED, Hart J, Wewers MD, Castile RG, Knoell DL. Induction of interleukin-8 release by lung epithelium with cystic fibrosis epithelial lining fluid is marginally affected by inhibitors of IL-1β. Pharmacotherapy 2000; 20:64-74.

46. Castile R, Filbrun D, Flucke R, Franklin W, McCoy K: Adult-type pulmonary function in infants without respiratory disease. Pediatr Pulmonol 2000; 30:215-237.

47. Tepper RS, Williams T, Kisling J, Castile R. Static compliance of the respiratory system in healthy infants. Am J Respir Crit Care Med 2001; 163:91-94.

48. Shell R, Allen E, Mutabagani K, Long F, Davis J, McCoy K, Castile R. Compression of the trachea by the innominate artery in a 2 month old child. Pediatr Pulmonol 2001; 31:80-85.

49. Burns JL, Gibson RL, McNamara S, Yim D, Emerson J, Rosenfeld M, Hiatt P, McCoy K, Castile R, Smith AL, Ramsey BW. Longitudinal assessment of Pseudomonas aueruginosa in infants with cystic fibrosis. J Infect Dis 2001; 183:444-452.

50. Stocks J, Godfrey S, Beardsmore C Bar Yishay E, Castile R. Standards for infant pulmonary function testing: Plethysmographic measurements of lung volume and airway resistance. Eur Repir J 2001; 17:302-312.

51. Long F, Castile R. Technique and clinical applications of full inflation and end-exhalation controlled-ventilation chest CT in infants and young children. Pediatr Radiology 2001; 31:413-422.

52. Goldstein AB, Castile RG, Filbrun DA, Flucke RL, McCoy KS, Tepper RS. Bronchodilator responsiveness in normal infants and young children. Am J Respir Crit Care Med 2001; 164: 447-454.

53. Sheikh S, Allen E, Shell R, Iram D, Castile R, McCoy K. Chronic aspiration without gastroesophageal reflux as a cause of chronic respiratory symptoms in neurologically normal healthy infants. Chest 2001; 120:1190-1195.

54. Oermann CM, Sockrider MM, Castile RG, Giles D, Sontag M, Accurso FJ. A comparison of high-frequency chest wall oscillation and oscillating PEP in the home management of cystic fibrosis: A pilot study. Pediatr Pulmonol 2001; 32:372-377.

55. Davis JT, Heistein J, Castile RG, Adler B, Mutabagani K, Villalobos R, Ruberg RL Lateral Thoracic Expansion for Jeune's Syndrome: A Seven Year Review. Annals Thoracic Surg 2001, 72:872-878.

56. Rosenfeld M, Gibson RL, McNamara S, Emerson J, Burns JL, Castile R, Hiatt P, McCoy K, Wilson C, Inglis A, Smith A, Ramsey BW. Early course of pulmonary infection, inflammation and clinical outcomes in infants with cystic fibrosis. Pediatr Pulmonol 2001; 32:356-366.

57. Kennedy MJ, Carpenter JM, Lozano RA, and Castile RG. Impaired recovery of hypothalamic-pituitary-adrenal axis function and hypoglycemic seizures following high-dose inhaled corticosteroid therapy in a toddler. Ann Allergy Asthma Immunol 2002 88:523-526.

58. Varekojis SM, Douce FH, Flucke RL, Filbrun DA, Tice JS, McCoy KS, Castile RG. A comparison of the therapeutic effectiveness and preference for postural drainage and percussion, intrapulmonary percussive ventilation and high frequency chest wall compression in hospitalized patients with cystic fibrosis. Respir Care 2003; 48:24-28.

59. Sheikh S, Castile R, Hayes J, McCoy K, Eid N. Assessing bronchodilator responsiveness in infants using partial expiratory flow-volume curves. Pediatr Pulmonol 2003; 36:196-201.

60. Long FR, Williams R, Castile RG. Structural airway abnormalities in infants and young children with cystic fibrosis. J Pediar 2004 144:154-161.

61. Davis JT, Long FR, Adler BH, Castile RG, Weinstein S. Lateral thoracic expansion for Jeune Syndrome: Radiographic evidence of rib healing and new bone formation. Ann Thorac Surg 2004; 77:445-448.

62. Lambert RK, Castile RG, Tepper RS. Dysanaptic lung growth: Computational model of infant forced expiratory flows. J Appl Physiol 2004; 96:688-992.

63. Robin B, Kim Y, Huth J, Klocksieben J, Torres M, Tepper R, Castile R, Solway J, Hershenson M, Goldstein-Filbrun A. Pulmonary function in bronchopulmonary dysplasia. Pediatr Pulmonol 2004; 37:236-242.

64. Castile R, Iram D, McCoy K. Gas trapping in normal infants and infants with cystic fibrosis. Pediatr Pulmonol 2004; 37:461-469.

65. Groner J, Wadwa PR, Hoshaw-Woodard S, Hayes J, Klein J, Koren G, Castile R. Active and passive tobacco smoke exposure: A comparison of maternal and child hair cotinine. Nicotine Tobacco Res 2004; 6:789-795.

66. Castile R. Novel techniques for assessing infant and pediatric lung function and structure. Pediatric Infectious Disease Journal 2004 23:S246-S253.

67. Groner J, Hoshaw-Woodard S, Koren G, Klein J, Castile RG. Screening for children's exposure to environmental tobacco smoke in a pediatric primary care setting. Arch Pediatr Adolesc Med 2005; 159:450-455.

68. Brody, A, Tiddens H, Castile R, Coxson H, de Jong P, Goldin J, Huda W, Long F, McNitt-Gray M, Rock M, Robinson T. Computed tomography in the evaluation of cystic fibrosis lung disease. Am J Respir Crit Care Med 2005; 172:1246-1252.

69. Long FR, Williams RS, Castile RG. Factors influencing CT lung density in infants and young children Pediatr Radiol 2005; 35:1075-1080.

70. Lum S, Stocks J, Castile RG, Davis S, Henschen M, Jones M, Morris MG, Ranganathan S, Sly PD, Tepper RS. Standards for infant pulmonary function testing: Raised volume forced expirations in infants: guidelines for current practice. ATS/ERS Consensus Statement. Am J Respir Crit Care Med 2005; 172:1463-1471.

71. Long FR, Williams RS, Adler BH, Castile RG. Comparison of quiet breathing and controlled ventilation in high resolution CT assessment of airway disease in infants with cystic fibrosis. Pediatr Radiol 2005; 35:1075-1080.

72. Jadcherla SR, Gupta A, Fernandez S, Nelin LD, Castile R, Gest AL, Welty S. Spatio-temporal characteristics of acid refluxate and relationship to symptoms in premature and term infants with chronic lung disease. Am J Gastroenerol, 2008; 103:720-728.

73. Mumcuoglu EU, Prescott J, Baker BN, Clifford B, Long F, Castile R, Gurcan MN. Image analysis for cystic fibrosis: Automatic lung airway wall and vessel

measurement on CT images. Conf Proc IEEE Eng Med Biol Soc. 2009; 1:3545-8 PMID: 19963586 [PubMed].

74. Sontag MK, Quittner AL, Modi AC, Koenig JM, Giles D, Oermann CM, Konstan MW, Castile R, Accurso FJ. Lessons learned from a randomized trial of airway secretion clearance techniques in cystic fibrosis. Pediatr Pulmonol 2010; 45: 291-300.

75. Davis SD, Rosenfeld M, Kirby GS, Brumback L, Kloster MH, Acton JD, Colin AA, Conrad CK, Hart MA, Hiatt PW, Mogayzel PJ, Johnson RC, Wilcox SL, Castile RG. Multicenter longitudinal evaluation of infant lung function tests as clinical trial endpoints. Am J Respir Crit Care Med, 2010; 182:1387-1397.

76. Colin AA, McEvoy C, Castile RG. Respiratory morbidity and lung function in preterm infants of 32-36 weeks gestational age. Pediatrics; 2010; 126:115-128.

77. Mueller KS, Long FL, Flucke RL, Castile RG. Volume monitored chest CT: A simplified method for obtaining motion free images near full inspiratory and end expiratory lung volumes. Pediatr Radiol 2010; 40: 1663-1669.

78. Kerby GS, Rosenfeld M, Ren CL, Mayer OH, Brumback LC, Castile R, Hart M, Hiatt PW, Kloster M, Johnson R, Jones P, Davis SD. Lung function distinguishes preschool children with cystic fibrosis from healthy controls in a multicenter setting. Pediatr Pulmonol 2011 (in press).

79. Ren CL, Rosenfeld M, Mayer OH, Davis SD, Kloster M, Castile R, Hiatt PW, Hart M, Johnson R, Jones P, Brumback LC, Kerby GS. Analysis of the association between lung function and clinical features in preschool cystic fibrosis. Pediatr Pulmonol 2011 (in press).

80. Rosenfeld M, Allen J, Arets B, Aurora P, Beydon N, Calogero C, Castile R, Davis S, Fuchs S, Gappa M, Gustaffson PM, Hall GL, Jones M, Kirkby J, Kraemer R, Lombardi E, Lum S, Mayer H, Merkus P, Nielsen KG, Oliver C, Oostveen E, Ranganathan S, Ren C, Robinson P, Seddon P, Sly P, Sonnappa S, Stocks J, Subbarao P, Tepper R, Vilozni D. Optimal lung function tests for monitoring cystic fibrosis, bronchopulmonary dysplasia and recurrent wheezing in children < 6 years of age: An Official ATS Workshop Report. Proc Am Thorac Soc 2011 (submitted June 2011).

81. Mumcuoglu EU, Long F, Castile RG, Gurcan MN. Image analysis for cystic fibrosis: Automated airway wall and vessel measurements from CT images of the lungs. IEEE Transactions on Medical Imaging (re-submitted September 2011).

82. Brody AS, Castile RG, Dell S, Deterding RR, Fan LL, Hagwood JS, Hamvas A, Hilman BC, Kurland G, Langston C, Nogee LM, Redding GJ, Young LR. An Official ATS Guideline: Classification, Evaluation, and Management of Childhood Interstitial Lung Disease (ChILD). Proc Am Thorac Soc 2011 (accepted by ATS Documents Committee, re-submitted Proc Am Thorac Soc, October 2011).

83. Brumback LC, Davis SD, Kerby GS, Kloster M, Johnson R, Castile R, Hiatt PW, Hart M, Rosenfeld M. Lung function from infancy through preschool in a cohort of children with cystic fibrosis. Chest 2011 (re-submitted October 2011).

84. Long F, Adler B, Castile R. Comparison of quantitative thin-section CT and pulmonary function tests for the assessment of air trapping in infants and young children with cystic fibrosis. Pediatr Radiol (rejected, in revision).

MULTICENTER TRIAL PARTICIPATION WITH PUBLISHED ACKNOWLEDGEMENT

1. Deutsch GH, Young LR, Deterding RR, Fan LL, Dell SD, Bean JA, Brody AS, Nogee LM, Trapnell BC, Langston C; Pathology Cooperative Group, Albright EA, Askin FB, Baker P, Chou PM, Cool CM, Coventry SC, Cutz E, Davis MM, Dishop MK, Galambos C, Patterson K, Travis WD, Wert SE, White FV; ChILD Research Co-operative. Diffuse lung disease in young children: application of a novel classification scheme. Am J Respir Crit Care Med. 2007; 176: 1120-8.

2. Stanojevic S, Wade A, Cole TJ, Lum S, Custovic A, Silverman M, Hall GL, Welsh L, Kirkby J, Nystad W, Badier M, Davis SD, Turner S, Piccioni P, Vilozni D, Eigen H, Vlachos-Mayer H, Zheng J, Tomalak W, Jones M, Hankinson JL, and Stocks J on behalf of the Asthma UK Spirometry Collaborative Group. Spirometry Centile Charts for Young Caucasian Children: The Asthma UK Collaborative Initiative. Am J Respir Crit Care Med 180:547-552, 2009.

NON-PEER REVIEWED PUBLICATIONS

1. Castile R. High resolution CT scans of the chest should be a routine part of CF lung disease assessment: Pro. Pediatr Pulmonol 2010; Suppl 33: 130-131.

BOOK CHAPTERS

1. LeSouef PN, Castile R, Turner DJ, Motoyama E, Morgan WJ. Forced Expiratory Maneuvers in Infant Respiratory Function Testing; In Infant Respiratory Function Testing; Stocks J, Sly P, Tepper R, Morgan W (eds). John Wiley & Sons, Inc. 1996.

2. Castile RG. Pulmonary Function Testing in Children. In Disorders of the Respiratory Tract in Children (6th Ed); Chernick V, Boat T (eds). W.B. Saunders, Inc. 1998

3. Castile RG, Hansen TN. Pulmonary Function Testing. In Contemporary Diagnosis and Management of Neonatal Respiratory Diseases (3rd Ed); Weisman LE, Cooper TR, Hansen TN (eds). Handbooks in Health Care, 2001.

4. Castile RG. Pulmonary Function Testing in Children. In Disorders of the Respiratory Tract in Children (7th Ed); Chernick V, Boat T, Wilmott R, Bush A (eds). W.B. Saunders, Inc. 2006.

5. Davis JT, Phillips ABM, Long FR, and Castile RG. Staged Surgical Approach to Thoracic Expansion in Jeune Syndrome and other Asphyxiating Thoracic Dystrophies. In Reoperative Pediatric Surgery, Caniano DA and Teich S, (eds) The Humana Press, Totowa, NJ, 2007.

6. Castile RG, Nelin LD. Lung function, structure and the physiologic basis for mechanical ventilation of infants with established BPD. In Bronchopulmonary Dysplasia; Abman SH (ed). Marcel Dekker, Inc. New York, NY, 2009.

7. Castile RG, Davis SD. Pulmonary Function Testing in Children. In Disorders of the Respiratory Tract in Children (8th Ed); Chernick V, Boat T, Wilmott R, Bush A, Ratjen F, Deterding R. (eds). W.B. Saunders, Inc. 2011 (in press).

ABSTRACTS

1. Castile RG, Rodarte JR, Wilson TA, Hyatt RE: Determinants of maximal expiratory flow and density dependence in normal man. The Physiologist 1978; 21:18.

2. Castile R, Mead J, Jackson A, Wohl ME, Stokes D: Postural changes in the configuration of maximal expiratory flow-volume curves in normal man. The Physiologist 1979; 22:18.

3. Pedersen OF, Castile RG, Drazen JM, Ingram RH: Direct measurement of convective accelerative pressure during flow limitation in dogs: Effect of changes in gas density. Fed Proc 1981; 40:597.

4. Castile R, Pedersen O, Drazen J, Ingram R: Density dependence of maximal flow in dogs with central and peripheral obstruction. The Physiologist 1981; 24:29.

5. Mazzei W, Castile R, Fredberg J, Wohl ME, Glass G, Brooks L: Correlation of maximal expiratory flow and airway area. The Physiologist 1981; 24:83.

6. Abraham EH, Gerdes JS, Castile RG, Shwachman HS, Wilkinson RH, Anast CS: Vitamin D deficiency rickets with abnormal liver function tests and myopathy as the presenting manifestations of cystic fibrosis. Pediatric Res 1981; 15:625.

7. Keefe D, Glass G, Castile R, Frantz I, Stark A, Fredberg J: Alveolar pressure during high frequency oscillation in excised dog lungs. Fed Proc 1983; 42:763.

8. O'Donnell CR, Castile RG, Mead J, Wohl ME: Changes in maximal expiratory flow-volume curves following induced bronchoconstriction and bronchodilation. Fed Proc 1983; 42:1094.

9. Castile RG, Pedersen OF, Drazen JM, Ingram RH: Density dependence of maximal expiratory flow during central bronchoconstriction in dogs. Fed Proc 1983; 42:1094.

10. Brooks LJ, Glass GM, Castile RG, Fredberg JJ, Wohl ME: Reproducibility of tracheal areas measured by acoustic reflection. Am Rev Respir Dis 1983; 127:242.

11. Castile R, Ingram R, Mead J: Effects of neck extension on density dependence of maximal expiratory flow in normal humans. The Physiologist 1983; 26:114.

12. Fredberg JJ, Drazen JM, Ingram RH, Glass GM, Castile RG: Inhomogeneity of alveolar pressure during forced oscillations: Effect of inhaled histamine. Fed Proc 1984; 43:306.

13. Athan E, Castile R, Allen J, Feldman H, Mead J: Variability of density of dependence of maximal expiratory flow. Am Rev Respir Dis 1984; 129:226.

14. Wheeler W, Castile R, Brown E, Wohl M: Pulmonary function in survivors of prematurity. Am Rev Respir Dis 1984; 129:218.

15. McNamara JJ, Castile RG, Glass GM, Mead J, Fredberg JJ: Inhomogeneity of alveolar pressure during forced expiration in excised canine lungs. The Physiologist 1984; 27:212.

16. Castile RG, McNamara J, Glass G, Mead J, Fredberg J: Rates of alveolar pressure change during forced expiration in canine lungs. The Physiologist 1984; 27:212.

17. Travis W, Castile R, Vawter G, Shwachman H, Warwick W: Secondary amyloidosis in cystic fibrosis. Am J Clin Pathol 1985; 83:261-262.

18. Hillebrecht AU, Castile RG, Griscom NT, Martin TR, Fredberg JJ, Wohl MEB: Airway area by acoustic reflection in children 6-12 years. Am Rev Respir Dis 1985; 131:245.

19. Martin TR, Wohl ME, Castile RG, Wheeler W, Feldman H, Mead J: Longitudinal analysis of airflow and lung volume in children. Am Rev Respir Dis 1985; 131:324.

20. Castile R, Wheeler T, Mead J, Feldman H: Functional versus anatomic dysanapsis of lung and airways. The Physiologist 1985; 28:265.

21. Martin TR, Castile RG, Fredberg JJ, Wohl MEB, Mead J: Tracheal areas by acoustic reflectance in normal young adults. The Physiologist 1985; 28:265.

22. Fredberg J, McNamara J, Wilson T, Glass G, Castile R, Mead J, Hyatt R, Rodarte J, Solway J: Interdependence of regional expiratory flows during forced expiration. Fed Proc 1986; 45:874.

23. McNamara JJ, Ludwig MS, Castile RG, Glass GM, Ingram RH Jr., Fredberg JJ: Heterogeneity of alveolar pressures during forced expiration before and after histamine inhalation in canines. Fed proc 1986; 45:1018.

24. Ludwig M, McNamara J, Glass G, Castile R, Fredberg J, Ingram RH Jr.: Lung inflation does not increase maximal expiratory flow during induced obstruction in the dog. Am Rev Respir Dis 1986; 133:31.

25. Allen J, McNamara J, Glass G, Castile R, Fredberg J: Interregional asynchrony of alveolar filling during high frequency oscillations (HFO). Am Rev Respir Dis 1986; 133:74.

26. Redline S, Weiss S, Castile R, Tager IB, Barr M, Speizer FE: Density dependence in children: Is it useful epidemiologically? Am Rev Respir Dis 1986; 133:356.

27. Hanrahan JP, Castile RG, Tager IB, Cole DL, Weiss ST, Speizer FE: Similarity of forced expiratory flow-volume curves at resting and increased lung volumes in infants. Am Rev Respir Dis 1987; 135:237.

28. Castile RG, Laflamme MJ, Dorkin HL, MacKinnon B, Frantz ID: Changes in intrathoracic pressure during partial expiratory flow-volume maneuvers in infants. Pediatr Res 1988; 23:562.

29. Hanrahan JP, Castile RG, Segal MR, Aylward D, Barr MB, Chjervin BS, Tager IB, Speizer FE, Weiss ST: Longitudinal lung and airway growth in health infants in the first 6 months of life. Am Rev Respir Dis 1988; 137:381.

30. Hanrahan JP, Moy FJ, Segal MR, Castile RG, Aylward D, Gaccione P, Barr MB, Weiss St, Speizer FE, Tager IB: Appropriate size correction of pulmonary function measures in healthy infants. Am Rev Respir Dis 1989; 139:340.

31. Hanrahan JP, Tager IB, Segal MR, Castile RG, Van Vunakis H, Weiss ST, Speizer FE: Effect of prenatal smoking on infant lung function. Am Rev Respir Dis 1990; 141:282.

32. Hanrahan JP, Tager IB, Castile RG, Tosteson TD, Weiss ST, Speizer FE: Early lung function as a predictor of wheezing LRIs in healthy infants. Am Rev Respir Dis 1991; 143:509.

33. Brown RW, Hanrahan JP, Tager IB, Castile RG, Goetsch MA, Weiss ST, Speizer FE: Effect of prenatal smoking on passive respiratory mechanics in early infancy. Am Rev Respir Dis 1991; 143:809.

34. Hanrahan JP, Brown RW, Tager IB, Tosteson TD, Castile RG, Weiss ST, Speizer FE: Growth of passive mechanics in normal infants: Influence of passive smoking. Am Rev Respir Dis 1992; 145:560.

35. Castile R, Filbrun D, Flucke R, Shani N, McCoy K: Measurement of full flow-volume curves in sedated infants. Am J Respir Crit Care Med 1994; 149:37.

36. Filbrun D, Castile R, Flucke R, Shani N, McCoy K: Measurement of fractional lung volumes in sedated infants. Am J Respir Crit Care Med 1994; 149:37.

37. Flucke R, Castile R, Filbrun D, Shani N, McCoy K: Measurement of full pressure volume curves of the respiratory system in sedated infants. Am J Respir Crit Care Med 1994; 149:694.

38. Feher AT, Castile RG, Tepper RS, Kisling J, Angelicchio C, Filbrun D, Flucke R: Flow limitation during full flow-volume curves in normal infants. Am J Respir Crit Care Med 1994; 149:694.

39. Castile R, Filbrun D, Flucke R, Shani N, McCoy K: Measurement of maximal respiratory flow-volume curves and fractional lung volumes in sedated infants. Eur Respir J 1994; 7 (Suppl. 18): 108s.

40. Castile R, Rosenfeld M, Drake J, Gadek J, McCoy K, Ramsey B: Relationship of adult-type lung function tests to bronchoalveolar lavage differential counts in infants with cystic fibrosis. Pediatr Pulmonol 1994; 10:262.

41. Rosenfeld M, Ramsey B, Redding G, Castile R, McCoy K, Hiatt P: Changes in pulmonary function associated with pseudomonal respiratory colonization in infants with cystic fibrosis. Pediatr Pulmonol 1994; 10:262.

42. Corbato S, Potter C, Castile R, Allen B, Young G, McCoy K, Fishbein M, Qualman S: The effect of liver disease on pulmonary function and nutrition in cystic fibrosis. Pediatr Pulmonol 1994; 10:275-276.

43. Filbrun D, Castile R, McCoy K, Flucke R, Shani N: Influence of rebreathing on plethysmographic measurements of thoracic gas volume in infants. Am J Respir Crit Care Med 1995; 151:440.

44. Brown R, Hanrahan J, Castile R, Tager I: Correlation of tidal breathing parameters and pulmonary function in healthy infants. Am J Respir Crit Care Med 1995; 151:441.

45. Castile R, Filbrun D, Flucke R, McCoy K: Documentation of flow limitation using the multiple inflation method to produce maximal expiratory flow-volume curves in infants with cystic fibrosis. Pediatr Pulmonol 1996; Supplement 13:301.

46. Castile R, Filbrun D, Flucke R, Franklin W, McCoy K: Adult-type lung function measurements in infants and toddlers without respiratory disease. Am J Respir Crit Care Med 1997; 155:376.

47. Oermann C, Accurso F, Castile R, Sockrider M: Evaluation of the safety, efficacy and impact on quality of life of ThAirapy Vest and Flutter compared to conventional chest physical therapy (CPT) in patients with cystic fibrosis (CF) Am J Respir Crit Care Med 1997; 155:638.

48. Groner J, Castile R, Rich L, Cawley A: Exposure of young children to environmental tobacco smoke. Society for Research on Nicotine and Tobacco; June 1997.

49. Terk J, Castile R, Franklin W: Effects of amiodarone on pulmonary function tests in infants. Circulation 1997; 96:1043 (Suppl).

50. Rosenfeld M, Accurso F, Armstrong D, Castile R, Emerson J, Grimwood K, Hiatt P, McCoy K, Ramsey B, Wagner J: Diagnostic accuracy of oropharyngeal cultures

relative to lower respiratory cultures in infants and young children with cystic fibrosis. Pediatr Pulm 1997; Suppl. 14: 295.

51. Davis S, Jones M, Kisling J, Castile R, Tepper R. Density dependence of forced expiratory flows in healthy infants. Am J Respir Crit Care Med 1998; 157:470.

52. Jones M, Davis S, Kisling J, Castile R, Tepper R. Negative expiratory pressure to assess flow limitation in infants. Am J Respir Crit Care Med 1998; 157:471.

53. Castile R, Filbrun D, Jones M, Flucke R, Jackson A, Tepper R. Frequency content of forced expiratory maneuvers in infants. Am J Respir Crit Care Med 1998; 157:471.

54. Tepper R, Jones M, Davis S, Kisling S, Howard J, Castile R. The time constant from forced expiratory flow volume curves increases with lung growth during infancy. Eur Respir J 1998; 12:15s.

55. Long F, Castile R, Hogan M, Brody A, Shiels W. Improved high-resolution CT of the lung in infants and very young children using a “stop ventilation” technique. Pediatr Radiology 1998; 28:656.

56. Iram D, Castile R, Filbrun D, Flucke R, McCoy K. Gas trapping in normal infants and in infants with cystic fibrosis. Pediatr Pulmonol 1998; 17:329.

57. Castile R, Tice J, Flucke R, Filbrun R, Varekojis S, McCoy K. Comparison of three sputum clearance methods in in-patients with cystic fibrosis. Pediatr Pulmonol 1998; 17:329.

58. Jones M, Castile R, Davis S, Goldstein A, Filbrun D, Kisling J, Flucke R, Tepper R. Forced expiratory maneuvers in normal infants: Normative values. Am J Respir Crit Care Med 1999; 159:504.

59. Goldstein A, Castile R, Davis S, Filbrun D, Flucke R, McCoy K, Tepper R. Bronchodilator responsiveness in normal infants. Am J Respir Crit Care Med 1999; 159:674.

60. Castile R, Long F, Flucke R, Goldstein A, Filbrun D, Brody A, McCoy K. High resolution computed tomography of the chest in infants with cystic fibrosis. Pediatr Pulmonol 1999; 28:277.

61. Goldstein A, Castile R, Davis S, Filbrun D, Flucke R, Tepper R, McCoy K. Bronchodilator responsiveness in infants with cystic fibrosis. Pediatr Pulmonol 1999; 28:279.

62. Kennedy M, Alderman J, Castile R. Severe hypoglycemia and seizures associated with chronic, high-dose inhaled corticosteroid use in a three-year old with chronic lung disease. J Pediatr Pharm Practice 1999; 4:215-216.

63. Groner J, Nguyen H, Hayes J, Koren G, Klein J, Castile R. Sources of environmental tobacco smoke exposure in infants and young children. Soc Res Nicotine Tobacco Pediatr Res 2000; 47:194A.

64. Long F, Castile R, Flucke R. Clinical and research applications of controlled-ventilation computed tomography of the chest in young children. Pediatr Res 2000; 47:479A.

65. Castile R, Groner J, Nguyen H, Flucke R, Filbrun D, Hayes J, Goldstein A, McCoy K. Impact of environmental tobacco smoke on the pulmonary function of infants and young children. Pediatr Res 2000; 47:477A.

66. Shell R, Sferra T, McCoy K, Castile R. Lack of relationship of bronchoalveolar fluid DNA levels and lung function in infants and young children with cystic fibrosis. Pediatr Res 2000; 47:482A.

67. Wadwa R P, Groner J, Hayes J, Koren G, Klein J, Castile R. Infant and maternal hair cotinine as indicators of tobacco smoke Exposure. Pediatr Res 2000; 47:232A.

68. Sheikh S, Castile R, Hayes J, McCoy K, Eid N. A new test for measuring bronchodilator responsiveness in infants using partial expiratory flow-volume curves. Pediatr Res 2000; 47:481A.

69. Sheikh S, Allen E, Shell R, Iram D, Castile R, McCoy K. Chronic aspiration without gastroesophageal reflux as a cause of chronic respiratory symptoms in neurologically normal healthy infants. Pediatr Res 2000; 47:481A.

70. Long FR, Castile RG, Flucke RL. Length of respiratory pauses for inspiratory and expiratory chest CT in infants and young children using controlled ventilation technique. Radiology (Suppl) 2000; 217(P):169.

71. Long FR, Castile RG, Flucke RL. Clinical applications of inspiratory and expiratory controlled ventilation chest CT in infants and young children. Radiology (Suppl) 2000; 217(P):640.

72. Castile RG, Hayes JR, Flucke RL, Long FR, McCoy KS. Correlation of structural and functional abnormalities in the lungs of infants with cystic fibrosis. Pediatr Pulmonol 2000; Suppl 20:295.

73. Long FR, Castile RG. Structural changes in the airways of infants with cystic fibrosis. Pediatr Pulmonol 2000; Suppl 20:295.

74. Varekojis, S.M., Douce, F.H., Flucke, R., Filbrun, D., Tice, J., McCoy, K., and Castile, R. A Comparison of the Therapeutic Effectiveness and Acceptance of PD&P, IPV and HFCC in Hospitalized Patients with Cystic Fibrosis. Respir Care 2000; 45(8):990.

75. Halasa NB, Shiels WE, Castile RG, Wiet GJ. Childhood tracheomalacia: Etiologies and frequencies. Children's Hospital Research Forum; 2000 (presented), Pediatr Res 2001; 49:463A.

76. Sheikh S, Flucke R, McCoy K, Castile R. Changes in lung function during treatment for pulmonary exacerbations in infants with cystic fibrosis. Pediatr Pulmonol 2000; Suppl 20:295-296 and Pediatr Res 2001; 49:461A.

77. Arteta M, McCoy K, Good J, Flucke R, Sheikh S, Castile R, Pulmonary function in infants and young children with cystic fibrosis. Am J Respir Crit Care Med 2001 163:A85.

78. Long FR, Castile RG, Short RF, Brody AS. Detection of airway changes in infants and young children with cystic fibrosis by using controlled ventilation CT: Comparison with normal infants. Pediatr Radiol 2001; 31:B30-31.

79. Long FR, Short RF, Castile RG. CT measurement of tracheal distensibility in children. Pediatr Radiol 2002; 32:, presented at the International Pediatric Radiology Society, May 2001, Paris, France.

80. Long FR, Castile RG, Young GA, Brody AS. Full-inflation and end-exhalation computed tomography (HRCT) of interstitial lung disease presenting in infancy: Correlations with histology and pulmonary function tests. Radiology (Suppl) 2001; 221(P):682.

81. Brody AS, Long F, Castile R, Crotty E, Bean J, Quan J, Accurso F. High-resolution CT demonstrates progressive bronchiectasis in young CF patients with mild lung disease. Pediatr Pulmonol 2001; Suppl 22:300.

82. Robin B, Y Kim, Huth J, Klocksieben J, Torres M, Tepper R, Castile R, Hershenson M, Goldstein A. Pulmonary Function in infants with bronchopulmonary dysplasia. Am J Respir Crit Care Med 2002; 165: A431.

83. Adler B, Long F, Shell R, Castile R, Davis JT. Data analysis of 3D lung volumes of children with asphyxiating thoracic dystrophy undergoing lateral thoracic expansion surgery. Pediatr Radiol 2002; 32(Suppl 1):S55.

84. Groner J, Hayes J, Nguyen H, Castile R. Relationships between child hair cotinine levels and parental report of smoking behavior, knowledge, and beliefs. Pediatr Res 2002; 51:216A. Also presented to National Conference on Tobacco or Health.

85. Arteta M, Woodard S, McCoy K, Castile R. Impact of Environmental Tobacco Smoke Exposure on Lung Function of Infants and Young Children with Cystic Fibrosis. Pediatr Pulmonol 2002; Suppl 24:299-300.

86. Long FR, Short RF, Williams RS, Adler B, Castile RG. Evaluation of early air trapping in the lungs of infants and young children with cystic fibrosis: Controlled-ventilation HRCT versus pulmonary function tests. Radiology (Suppl) 2002; 225(P):527.

87. Williams RS, Long FR, Short RF, Castile RG. Changes with age in normal anatomy and lung density in infants and young children demonstrated with inspiratory and expiratory 2D and 3D controlled-ventilation HRCT. Radiology (Suppl) 2002; 225(P):694.

88. Rosenfeld M, Emerson J, McNamara S, Castile R, McCoy K, Hiatt P, Burns JL, Gibson RL, Ramsey BW. Longitudinal followup of Pseudomonas aeruginosa infection in young children with cystic fibrosis. Am J Respir Crit Care Med 2003; 167:A164.

89. Lambert RK, Castile RG, Tepper RS. Computational model of forced expiration for infants. Am J Respir Crit Care Med 2003; 167:A545

90. Shell R, Adler B, Long F, Davis T, McCoy K, Castile R. Respiratory function and structure in patients with asphyxiating thoracic dystrophy Pediatr Res, 2003; 53:574A.

91. Groner J, Castile R, Hoshaw-Woodard S. The accuracy of maternal report of children's environmental tobacco smoke exposure. Pediatr Res, 2003; 53:159-160A.

92. Long FR, Williams RS, Adler B, Touney TC, Castile RG. Effect of tidal breathing and lung inflation on thin-section CT diagnosis of bronchial abnormalities and air trapping in infants with cystic fibrosis. In: Radiological Society of North America Scientific Assembly and Annual Meeting Program. Oak Brook, IL: Radiological Society of North America, 2003: 642.

93. Short RF, Long FR, Roush KA, Castile RG. Quantitative assessment of airway compliance in infants and young children using noninvasive controlled ventilation HRCT: Airway elastography mapping as a diagnostic tool. In: Radiological Society of North America Scientific Assembly and Annual Meeting Program. Oakbrook, IL: Radiological Society of North America, 2003: 643.

94. Sheehan D, Goldstein A, Woodard S, McCoy K, Castile R. Factors influencing albuterol responsiveness in infants and young children with cystic fibrosis. Pediatr Pulmonol 2003 Suppl 25:313.

95. Rosenfeld M, Caron H, Emerson J, Hamblett N, Burns JL, Gibson R, McNamara S, Hiatt P, McCoy K, Castile R, Ramsey B. What effect do anti-Pseudomonal antibiotics have on serial upper airway cultures in infants with CF? Pediatr Pulmonol 2003 Suppl 25:323.

96. Shell R, Davis JT, Adler B, Long F, McCoy K, Castile R. Change in thoracic volume following surgery for asphyxiating thoracic dystrophy. Am J Respir Crit Care Med 2004; 169: A381.

97. Davis SD, Kerby G Acton J, Castile R, Colin A, Conrad C, Hart M, Hiatt P, Mogayzel P, Brumback L, Johnson R, Wilcox S, Rosenfeld M. Creating an infant lung function testing network. Pediatr Pulmonol 2004; Suppl 27:302.

98. Long FR, Adler BH, Castile R. Extent and distribution of lung disease at HRCT in infants 1 year of age with cystic fibrosis. Radiology (Suppl) 2004; 233: (accepted).

99. Hawley J, Long F, Adler B, Castile R. Cystic fibrosis lung disease in the first year of life. Pediatr Radiol 2004 (accepted).

100. Castile R, Hawley J, Adler B, Long F. Impact of parental smoking on lung structure and function in infants with cystic fibrosis. Pediatr Pulmonol 2005; Suppl 28:301.

101. Rosenfeld M, Brumback L, Knutzen S; Acton JD, Castile RG; Colin AA; Conrad CK, Hart MA, Hiatt PW, Kerby GS Mogayzel PJ, Johnson RC, Wilcox SL, Davis SD. Multicenter longitudinal evaluation of raised volume forced expiratory flows in infants with CF is feasible. Pediatr Pulmonol 2005; Suppl 28:313.

102. Long FR, Schirmer J, Feltes T, Castile RG. Effect of congenital heart disease on prenatal lung growth. Pediatr Radiol 2006 (submitted, not accepted).

103. Davis SD, Kerby GS, Acton JD, Castile RG, Colin AA, Conrad CK, Hart MA, Hiatt PW, Mogayzel PJ, Johnson RC, Wilcox SL, Knutzen S, Brumback L, Rosenfeld M. Feasibility, sensitivity and variability of adult-type pulmonary function tests in infants with CF in a multicenter, longitudinal trial. Pediatr Pulmonol 2006; Suppl 29:334.

104. Deterding RR, Young LR, Dishop M, Fan L, Dell S, Sweet,S, Hagwood J, Redding G, Castile R, Kurland G, Prestridge A, Morton R, Galambos C, White F, Askin F, Trapnell B, Langston C. Diffuse lung disease in older children-Report of the chILD Network. Am J Respir Crit Care Med, 2007 175:A148.

105. Astor T, Long F, Baker P, L. Schwartz L, Galantowicz M, Phillips A, Castile R. Concurrent use of controlled ventilation high resolution computed tomography, pulmonary function testing, and transbronchial biopsy for allograft ejection/infection surveillance in infant lung and heart-lung transplant recipients. Am J Respir Crit Care Med, 2007; 175:A519.

106. Astor TL, Long F, Baker P, Galantowicz M, Castile R. Controlled ventilation high resolution computed tomography, pulmonary function testing, and transbronchial/open lung biopsy for the detection of allograft related complications following infant lung transplantation. J Heart and Lung Transplantation, 2008; 27: S188.

107. Shepherd E, Long F, Gest A, Welty S, Castile, R. Lung structure and function in infants with severe BPD. Pediatric Academic Societies, Annual Meeting, 2008, Poster.

108. Kerby GS, Rosenfeld M, Ren C, Mayer O, Castile R, Hart M, Hiatt P, Kloster M, Brumback L, Johnson R, Davis SD. Multi-center lung function testing in preschool subjects. Pediatr Pulmonol 2008; Suppl 43:376-377.

109. Mumcuoglu EU, Prescott J, Baker BN, Clifford B, Long F, Castile R, Gurcan MN. Image analysis for cystic fibrosis: Automatic lung airway wall and vessel measurement on CT images. Engineering in Medicine and Biology 2009; (accepted).

110. Jadcherla SR, Gupta A, Wang M, Long F, Castile R. Characterization of esophageal dysmotility in relation to altered pulmonary structure and function in chronic lung disease of infancy (CLDI). Pediatric Academic Societies, Annual Meeting, 2009, A-754140.

111. Kerby GS, Rosenfeld M, Ren C, Mayer OH, Castile R, Hart M, Hiatt P, Kloster M, Brumback L, Johnson R, Davis SD. Spirometry distinguishes preschool children with CF from healthy controls in a multicenter setting. Pediatr Pulmonol Suppl 2009; Suppl 32: 293.

112. Castile R, Mueller G, Long F, Flucke R, Baker B, Clifford B. Effects of nebulized recombinant human deoxyribonuclease (dornase alpha) in infants with cystic fibrosis evaluated using infant pulmonary function testing and high resolution computerized tomographic imaging of the chest . Pediatr Pulmonol 2009; Suppl 32: 357.

113. Mueller KS, Long FL, Flucke RL, Castile RG. Volume monitored chest CT: A simplified method for obtaining motion free images near full inspiratory and end expiratory lung volumes. Pediatr Radiol 2010; 40:574 (platform presentation).

114. Brumback LC, Davis SD, Kerby GS, Kloster M, Johnson R, Castile R, Hiatt PW, Rosenfeld M. Lung function from infancy through preschool in a cohort of children with CF. Pediatr Pulmonol 2010; Suppl 33: 365.

115. Ren CL, Rosenfeld M, Davis SD, Mayer OH, Kloster M, Castile R, Hiatt PW, Hart M, Johnson R, Brumback LC, Kerby GS. Analysis of the association between clinical features and lung function in preschool CF. Pediatr Pulmonol 2010; Suppl 33: 366.

116. Long F, Yan Y, Castile R. Volumetric inspiratory/expiratory chest computed tomography findings in bronchopulmonary dysplasia. Pediatr Radiol May 2011 (accepted).

117. Yates AR, Cua C, Shepherd E, Nicholson L, Yan Y, Long F, Castile R. Echocardiography is not related to infant pulmonary function or lung structural findings on computed tomography in infants with severe bronchopulmonary dysplasia (presented AAP Fall Meeting).

118. Rosenfeld M, Farrell P, Kloster M, Brumback L, Acton JD, Colin AA, Conrad CK, Hart MA, Kerby GS, Hiatt PW, Mogayzel PJ, Johnson RC, Castile RG, Davis SD. Association of lung function and clinical characteristics in a multicenter cohort of CF infants. Pediatr Pulmonol 2010 (accepted NACF Meeting 2011).

PRESENTATIONS

04/87 "Theory of Forced Expiration for Pediatricians", International Workshop on Pediatric Pulmonology, Jerusalem, Israel

07/87 "Forced Expiration in Infants", Divisions of Thoracic Diseases and Respiratory Physiology, Mayo Clinic, Rochester, MN

12/87 "Measuring Lung Function in Infants", City-wide Pediatric Pulmonary Conference, Massachusetts General Hospital, Boston, MA

01/88 "The Physiology of Forced Expiration for Epidemiologists", Channing Laboratory, Department of Epidemiology, Harvard University, Boston, MA

01/88 "The Growth of Lung Function in Normal Infants", City-wide Pediatric Pulmonary Conference, Massachusetts General Hospital, Boston, MA

02/88 "Forced Expiration in Infants", Research Seminar, Department of Biomechanics, Boston University, Boston, MA

02/88 "Infant Lung Function", Neonatal Research Conference, New England Medical Center, Boston, MA

03/88 "Changes in Transpulmonary Pressures during Forced Expiration in Infants", as part of the Terrigal Satellite Symposium on Pediatric Lung Diseaase of the Tenth International Cystic Fibrosis Conference, Sydney, Australia

04/88 "Infant Pulmonary Function Testing, So Why All the Excitement?", Grand Rounds, Visiting Professor, Oakland Children's Hospital, Oakland, CA

04/88 "Infant Pulmonary Function Studies at Tufts University", Neonatal Research Conference, Oakland Children's Hospital, Oakland, CA

04/88 "Pulmonary Function Testing in Infants", Pediatric Days, Mayo Clinic, Rochester, MN

05/88 "Changes in Intrathoracic Pressure During Partial Expiratory Flow-Volume Maneuvers in Infants", Society for Pediatric Research, Washington, D.C.

05/88 Longitudinal Lung and Airway Growth in Healthy Infants in the First Six Months of Life", American Thoracic Society, Las Vegas, NV

06/89 "Infant Pulmonary Function Testing", Grand Rounds, St. Margaret's Hospital, Boston, MA

05/90 "Measurements of Respiratory Mechanics in Infants: An Overview", Introduction to the Ad Hoc Workshop on Infant Pulmonary Function Testing, Boston, MA, Conference Organizer and Moderator

06/90 "Pulmonary Function Testing in Infants", Grand Rounds, North Shore Hospital, Salem, MA

09/90 "Lessons Learned from Clamping and Squeezing", Infant Lung Function Testing Workshop, Hospital for Sick Children, Great Ormand Street, London, England

10/90 "Case Presentation: Hypersensitivity Pneumonitis", American Academy of Pediatrics Meeting, Boston, MA

10/90 "The Role of Infant Lung Function Tests", Cystic Fibrosis Foundation, National Meeting, Washington, D.C.

01/91 "Pulmonary Function Testing in Infants: Is It of Value", Pediatric Grand Rounds, University of Minnesota, Minneapolis, MN

05/91 "Forced Expiration in Infants", American Thoracic Society Workshop on Infant Pulmonary Function Testing, Anaheim, CA, Speaker, Moderator, and Conference Organizer

05/91 "Forced Expiration in Infants", Pediatric Respiratory Research Conference, University of Utah, Salt Lake City, UT

08/91 "Lung Function in the First 18 Months of Life", Respiratory Research Conference, Children's Hospital Medical Center, University of Cincinnati, Cincinnati, OH

10/91 "Forced Expiration", Pediatric Pulmonary Conference, Department of Pediatrics, University of Minnesota, Minneapolis, MN

02/92 "Smoking and the Lungs", Respiratory Diseases in Children: New Developments, Royal Postgraduate School of Medicine, Hammersmith Hospital, London, England

05/92 Postgraduate course on Infant Pulmonary Function Testing, American Thoracic Society Meetings, Miami, FL, Course Organizer and Moderator

01/93 "The Impact of the Environment on the Newborn Child (Smoking during Pregnancy and the Effect upon the Respiratory Tract)", International Congress on the Respiratory Tract and the Environment, European Pediatric Respiratory Society, Oslo, Norway (Invited Speaker)

05/93 "Mini-Symposium, Cystic Fibrosis: Clinical Studies, Co-Chairman, ATS International Congress, San Francisco, CA

10/93 "What the Future Holds for Infants with CF", Workshop on Infant PFTs, North American Cystic Fibrosis Conference, Dallas, TX, Speaker and Moderator

10/93 "PFTs? Their Role in Clinical Management", North American Cystic Fibrosis Conference, Dallas, TX, Roundtable Discussion

03/94 "The Effects of Passive Smoking on the Respiratory Function of Children", Pediatrics Grand Rounds, Children's Hospital, Columbus, OH

08/94 "Adult-Type Lung Function Testing in Infants", The Ohio State University Pulmonary Research Conference, Columbus, OH

08/94 "Pulmonary Function in Infants with CF", Pulmonary Research Conference, Rainbow Babies & Children's Hospital, Cleveland, OH

10/94 "Measurement of Adult-Type Lung Function Tests in Infants with CF", Workshop on Infant PFTs, North American Cystic Fibrosis Conference, Orlando, FL, Speaker and Moderator

10/94 "Maximum Expiratory Flow-Volume Curves in Infants", International Flow-Volume Underworld Meeting, Comogli, Italy

10/94 "Spirometry and Lung Volume Measurements in Infants and Toddlers", Respiratory Research Conference, Great Ormand Street Hospital for Sick Children, London, England

10/94 "New Methods for Assessing Lung Function in Infants", Genentech ESCF Investigators Meeting, Orlando, FL

10/94 "PFTs - Their Role in Clinical Management", North American CF Meeting, Orlando, FL, Roundtable Discussion

10/94 "Infant PFTs", Workshop Moderator/Introduction, North American CF Meeting, Orlando, FL

10/94 "Relationship of Adult-Type Lung Function Tests to Bronchoalveolar Lavage Differential Cell Count", North American CF Meeting, Orlando, FL

01/95 "Relation of Mediators of Inflammation Obtained by Bronchoalveolar Lavage to Lung Function Tests in Infants with Cystic Fibrosis", Pulmonary Research Conference, The Ohio State University, Columbus, Ohio

04/95 "Lung Function in Infants with Cystic Fibrosis", Pediatric Research Conference, Cincinnati Children's Hospital, Cincinnati, OH

05/95 "Lung Development and Applied Pulmonary Physiology", Thematic Poster Session Facilitator, ATS Meeting, Seattle, WA

04/96 "Pulmonary Function Testing in Infants - The Future", Visiting Professor, Diamond Conference, Arkansas Children's Hospital, Little Rock, AR

09/96 "The Infant with Cystic Fibrosis", Workshop on Clinical Application of Lung Function Testing in Infants, European Respiratory Society, Stockholm, Sweden, Speaker and Moderator

10/96 "Spirometry and Fractional Lung Volumes in Infants and Toddlers with CF - 3 Years of Experience", Workshop on Outcome Measures in Infants, North American CF Meeting, Orlando, FL, Speaker and Moderator

02/97 “Respiratory Disease in Infants with Cystic Fibrosis: Perspectives from Infant Pulmonary Function Testing.” Visiting Professor, Section of Pulmonary medicine, Chapel Hill, North Carolina

04/97 “Infant Pulmonary Function Testing”, Children’s Hospital Denver, Colorado

05/97 “Infant Pulmonary Function Testing”, Workshop on Surrogate Markers for CF, Speaker and Co-Chair, Session on Pulmonary Function and Clearance, National Institutes of Health

05/97 “Measurement of Forced Expiratory Flows”, Postgraduate Course on Lung Function Testing in Infants: Theory and Practice, American Thoracic Society Meeting, San Francisco, California

05/97 “Infant Pulmonary Function and Control of Breathing”, Thematic Poster Session Facilitator, American Thoracic Society Meeting, San Francisco, California

05/97 “The Multiple Inflation Method,” Workshop on Raised Volume Rapid Compression Techniques, ATS/ERS Infant Lung Function Working Group, American Thoracic Society Meeting, San Francisco, California

06/97 “Adult-Type Pulmonary Function Tests in Infants and Toddlers”, Clinical Science Research Seminar, Children’s Hospital, Columbus, Ohio

07/97 “Infant Pulmonary Function Testing”, CFF/FDA/NIH Workshop on Surrogate Outcome Markers, National Institutes of Health, Bethesda MD

09/97 “Flow Limitation During Forced Expiration in Infants and Toddlers”, Flow-Volume Underworld, Mayo Clinic, Rochester, MN

10/97 “A Technique to Optimize CT Quality”, CF CT Working Group Meeting, North American Cystic Fibrosis Conference, Nashville, TN

12/97 “Pulmonary Function Testing”, Surgical Residents Conference, Children’s Hospital, Columbus Ohio

12/97 “Update on Infant Lung Function Testing “, Research Conference, St. Christopher’s Hospital for Children, Philadelphia, PA

12/97 “Effects of passive Smoking in Infancy”, Pediatric Residents Conference, St. Christopher’s Hospital for Children, Philadelphia, PA

12/97 “Flow Limitation”, Pulmonary Journal Club, St. Christopher’s Hospital for Children, Philadelphia, PA

12/97 “Novel Methods for Assessing Lung Disease in Infants”, Ray Kroc Visiting Professor, Grand Rounds, St. Christopher’s Hospital for Children, Philadelphia, PA

01/98 “New Methods for Assessing Lung Disease in Infants”, Lounge and Learn, Children’s Hospital, Columbus, Ohio

02/98 “Current research in Mucus Clearance Technologies”, Percussionaire Technical Advisory Committee Meeting, Los Angeles,CA

06/98 “Assessment of Early CF Disease Interventions”, CF Caregivers Conference, Hyatt Regency Hotel, Columbus, Ohio

09/98 “Measuring Outcome in Infants with Cystic Fibrosis”, Pulmonary Research Conference, Children’s Hospital Medical Center, Cincinnati, Ohio

02/99 “Pulmonary Function Testing in Children”, Surgical Residents Conference, Children’s Hospital Columbus, Ohio

02/99 “Effects of High Frequency Chest Wall Oscillation on Infants with Cystic Fibrosis”, American Biosystems, Inc., Minneapolis, Minnesota

04/99 “Forced Expiratory Maneuvers in Normal Infants: Normative Values”, Mini-Symposium, Progress in Infant Pulmonary Function Testing, American Thoracic Society Meeting, San Diego, California

05/99 “Respiratory Management of Infants with Cystic Fibrosis”, Cystic Fibrosis Regional Conference, Hueston Woods Conference Center, College Corner, Ohio

05/99 “Respiratory Management of Infants with Cystic Fibrosis”, Pediatric Pulmonary Conference, Riley Children’s Hospital, Indianapolis, Indiana

05/99 “Flow Limitation – a Personal History”, Pediatric Pulmonary Fellows Conference, Children’s Hospital, Columbus, Ohio

10/99 “Infant Pulmonary Function Testing”, Luncheon Roundtable Presentation, North American CF Meeting, Seattle, WA

10/99 “High Resolution Computed Tomography of the Chest in Infants with CF”, Workshop on Imaging in CF Lung Disease, North American CF Meeting, Seattle, WA

10/99 “Infant Pulmonary Function Testing”, Rise and Shine Roundtable Presentation, North American CF Meeting, Seattle, WA

11/99 “Controlled Ventilation HRCT Imaging of the Lungs of Infants with Cystic Fibrosis”, Regional Pediatric Pulmonary Conference, Massachusetts General Hospital, Boston, MA

11/99 “What Comes Around (in Respiratory Mechanics) Goes Around or . . . Stuff we did before in adults and children, done now in infants”, Pulmonary Research Conference, Children’s Hospital, Boston, MA

02/00 “Pulmonary Function Testing”, Pediatric Surgery Residents Conference, Children’s Hospital, Columbus, Ohio

05/00 “Impact of Environmental Tobacco Smoke on the Pulmonary Function of Infants and Young Children”, Pediatric Academic Societies and American Academy of Pediatrics Year 2000 Joint Meeting, Boston, MA

06/00 “Controlled Ventilation High Resolution Computed Tomographic Imaging of the Lungs of Infants with Cystic Fibrosis”, Pediatric Pulmonary Research Conference, North Carolina Children’s Hospital, Chapel Hill, NC

08/00 “Measuring Outcome in Infants with Respiratory Disease”, National Jewish and Children’s Hospitals Combined Pediatric Pulmonary Conference, Denver, CO

11/00 “Infant Pulmonary Function Tests”, Rise and Shine & Luncheon Roundtable Presentations, North American CF Meeting, Baltimore, MD

12/00 “Objective Measures of Respiratory Outcome in Infants", Housestaff Conference, Akron Children’s Hospital, Akron, OH

12/00 “Infant Pulmonary Function Testing”, Pediatric Pulmonary Conference, Akron Children’s Hospital, Akron, OH

02/01 “Structural and Functional Changes in the Lungs of Infants with Cystic Fibrosis”, Pulmonary Research Conference, Rainbow Babies & Children’s Hospital, Cleveland, OH

02/01 “Pulmonary Function Testing”, Pediatric Surgery Residents Conference, Children’s Hospital, Columbus, Ohio

03/01 “Controlled Ventilation HRCT in Infants with Cystic Fibrosis”, Pulmonary Research conference, Texas Children’s Hospital, Baylor University, Houston, TX

03/01 “Objective Measurements of Respiratory Outcomes in Infants", CRI Retreat, Cherry Valley Inn, Granville, OH

04/01 “Flow Limitation”, Pulmonary Fellows Lecture Series, Children’s Hospital, Columbus, OH

09/01 “Infant Respiratory Disease: the Utility of PFTs and Controlled Ventilation HRCTs ", Chairman’s Visiting Professor Lecture Series, Children’s Hospital, Dayton, OH

10/01 "Use of Infant PFTs and High Resolution Chest CT to Detect Early Airway Obstruction" in “Issues in Evaluation and Management of Infants”, Workshop Speaker and Co-moderator, North American Cystic Fibrosis Meeting, Orlando, FL

02/02 “Pulmonary Function Testing in Children”, Pediatric Surgery Residents Conference, Children’s Hospital, Columbus, Ohio

04/02 “Lung Function and Structure in Infants and Young Children with Cystic Fibrosis”, Pulmonary Research Conference, Hospital for Sick Children, Toronto, Canada

10/02 “Impact of Environmental Tobacco Smoke Exposure on Lung Function of Infants and Young Children with Cystic Fibrosis” in Workshop on "Insights into CF Lung Disease", North American Cystic Fibrosis Conference, New Orleans, LA

12/02 “Medical and Health Care Needs of the Internationally Adopted Child”, Adoption Academy, Children’s Institute for Pediatric Education, Columbus, OH

12/02 “Management of Infants and Young Children with CF using PFTs and HRCTs”, Seminar on Performing and Utilizing Infant Pulmonary Functions in Today’s Clinical Environment, Sponsor – Ferraris Cardiorespiratory, Inc. Todedo, OH

02/03 “Pulmonary Function Testing in Infants and Children”, Pediatric Surgery Residents Conference, Children’s Hospital, Columbus, Ohio

05/03 “Methodologies for the Assessment of Pediatric Lung Disease”, Co-Moderator, Thematic Poster Discussion Session, American Thoracic Society Meeting, Seattle, WA

05/03 “Long term clinical experience with raised volumes/fractional lung volumes”, Ferraris Evening Seminar, American Thoracic Society Meeting, Seattle, WA

06/03 “Using Pulmonary Function Testing in Infants and Young Children with Cystic Fibrosis”, Johns Hopkins University, Baltimore, MD

8/03 “Assessing Airway Function in Infants with Cystic Fibrosis”, Pulmonary Retreat, Section of Pulmonary Medicine, Phoenix Children’s Hospital, Phoenix, AZ

10/03 “Chest HRCT as a Clinical Management Tool in Children with CF between 0 and 4 years old”, HRCT in CF, State of the Art Conference, North American Cystic Fibrosis Meeting, Anaheim, CA

11/03 “Medical and Health Care Needs of the Internationally Adopted Child”, Adoption Academy, Children’s Institute for Pediatric Education, National Center for Adoption Law, Capital University, Columbus, OH

2/04 “Pulmonary Function Testing”, Pediatric Surgery Residents Conference, Children’s Hospital, Columbus, OH

3/04 “Infant Pulmonary Function Tests: Pediatric Interstitial Lung Disease Evaluation, Outcome Measure, and Research Tool”, Pediatric Interstitial Lung Disease Conference, Cincinnati, OH

4/04 "Techniques for Assessing Infant Lung Function and Structure", The 2004 International Congress on Respiratory Viruses, Chicago IL.

2/05 “Infant PFTs”, Pulmonary Fellow Lecture Series, Children’s Hospital, Columbus, OH

4/05 “Infant Pulmonary Function Tests”, Children’s Interstitial Lung Disease Annual Conference, Rare Lung Diseases Consortium Conference, Cincinnati, OH

5/05 “Infant PFTs: Basic Techniiques, Caveats, and Correlations”, American Thoracic Society Workshop on Pediatric Interstitial Lung Disease, San Diego, CA.

6/05 “Cystic Fibrosis”, Pediatric Grand Rounds, Children’s Hospital, Columbus, OH.

10/05 “Impact of Parental Smoking on Lung Structure and Function in Infants with Cystic Fibrosis”, North American Cystic Fibrosis Conference, Baltimore, MD

10/05 “Lessons Learned from Assessing Lung Structure and Function in Infants with Cystic Fibrosis”, Mid-Atlantic Cystic Fibrosis Consortium Meeting, Philadelphia, PA

10/05 “Lessons Learned from Assessing Lung Structure and Function in Infants with Respiratory Disease”, Pulmonary Conference, Children’s Hospital of Philadelphia, Philadelphia, PA

9/06 “Lessons Learned from Assessing Lung Structure and Function in Children with Respiratory Disease”, Children’s Hospital of Pittsburgh, Pittsburgh, PA

9/06 “Lessons Learned from Assessing Lung Structure and Function in Children with Cystic Fibrosis”, Children’s Hospital, Boston, MA

11/06 “Detecting and Reversing Airway Disease in the First Year of Life”, North American Cystic Fibrosis Conference, Denver, CO

3/07 “Clinical and Research Utility of Computed Tomography and Infant Pulmonary Function Testing”, Northern New England Cystic Fibrosis Consortium, Woodstock, VT

5/07 “Assessment of Lung Structure and Function in Infants with BPD”, Symposium: State of the Art Update: Prevention and Management of Neonatal Chronic Lung Disease, Speaker and Symposium Chairman, American Thoracic Society International Conference, San Francisco, CA

10/07 “Early Detection of Structural and Functional Changes in CF Lung Disease” Symposium on Advances in Cystic Fibrosis Assessment and Treatment, American College of Chest Physicians Meeting, Chicago, IL

5/09 “New Data Regarding Lung Function Measurement in Childhood”, Mini-Symposium, Co-Chairman, American Thoracic Society Meeting, San Diego, CA

8/09 “Lung Structure and Function in Neonates with CLD”, Section of Neonatology, West Virginia University Children’s Hospital, Morgantown, WV

10/10 “High resolution CT scans of the chest should be a routine part of CF lung disease assessment: Pro”, Pro Con Debates, North American Cystic Fibrosis Meeting, Baltimore, MD

8/11 “Clinical Applications of Lung Function Testing and Controlled Ventilation HRCT Imaging in Infants and Young Children”, Pediatric Grand Rounds, West Virginia University, Morgantown, WV

10/11 “Lung Imaging and Pulmonary Function Testing: Can we tailor therapies for CLD with more information?” Symposium: Overview of Neonatal Chronic Lung Disease: Prevention and Treatment, American Academy of Pediatrics Fall Meeting, Boston, MA

10/11 “Pulmonary Function Testing for the Neonatologist”, Concurrent Skills Workshop, American Academy of Pediatrics Fall Meeting, Boston, MA

10/11 “Lung Function Testing and Controlled Ventilation HRCT Imaging in Infants with BPD”, Respiratory Therapy Week Conference, Nationwide Children’s Hospital Columbus, Ohio

RESEARCH SUPPORT

1981 - 1986 Co-Investigator, Project 6 - Relative Growth of Human Airways and Parenchyma

P50 HL 19170 Harvard Pulmonary Score: Diagnosis and Treatment of COPD
PI - J. Brain
Project Funding: $216,699

1981 - 1986 Co-Investigator, Project 8 - Central Airway Mechanics in Pediatric Lung Diseases
Project 9 - Definition of the Pulmonary Sequalae of RDS and BPD
P50 HL 27372-Respiratory Disorders of Neonates and Children
PI - M. E. Avery
Project Funding: $262,088

1984 - 1986 Co-Investigator
Project 4 - Oscillation Mechanics of the Lung
Project 5 - Inhomogeneous Emptying during Forced Expiration
PPG HL 33009-Non-uniform Ventilatory Mechanics,
PI - J. Drazen
Project Funding: $1,693,622

1985 - 1995 Co-Investigator
R01 HL 36474-Effect of Maternal Smoking on Neonatal Lung Function
PI - F. Speizer
Project Funding: $5,234,066

1993 - 1996 Co-Investigator
Cystic Fibrosis Foundation Shannon Award
P. aeruginosa Colonization and Serologic Response in Young Children with Cystic Fibrosis,
PI - B. Ramsey
Project Center Funding: $74,466

1994 - 1996 Co-Investigator
A Phase IV, Multicenter Study to Monitor the Long-term Safety and Efficacy of Pulmozyme (dornase alfa) in Cystic Fibrosis Patients who Participated in a Phase II Study, Genentech, Inc.
Project Center Funding: $36,000

1994 - 1997 Principal Investigator
A858 Cystic Fibrosis Foundation
Adult-Type Lung Function Tests in Infants with CF
Project Funding: $144,969

1996 Principal Investigator
American Biosystems, Inc.
A Pilot Study to Determine the Efficacy of High-Frequency Chest Wall Oscillation and Flutter in the Home Management of Patients with Cystic Fibrosis
Project Funding: $26,586

1996 - 2001 Co-Principal Investigator
NIH R01, HL 54062
Growth of Airways and Lung Parenchyma in Normal Infants, PI - R. Tepper
Project Funding: $1,676,159

1996 Research Advisor, Samuel J. Roessler Memorial Scholarship Fund
Impact of Parental Smoking Habits on Infant Lung Function
Roessler Fellow - Annalise Cawley
Funding Support: $2,100

1997-1998 Principal Investigator
Percussionaire Corporation
Therapeutic Effectiveness and Acceptance of Conventional Postural Drainage and Percussion, High Frequency Chest Wall Compression and Intrapulmonary Percussive Ventilation in Patients with Cystic Fibrosis
Project Funding: $5,000.00

1997-1998 Principal Investigator
NIH/STTR 1 R41 HL 59064-01
Adult-Type Pulmonary Function Tests in Infants
Project Funding: $98,038

1997 Research Advisor, Samuel J. Roessler Memorial Scholarship Fund
Impact of Environmental Tobacco Smoke on Health of Infants and Toddlers
Roessler Fellow - Helen Nguyen
Funding Support: $2,100

1997 Research Advisor, Department of Pediatrics Summer Research Fellowship
Impact of Environmental Tobacco Smoke on Young Children
Fellow - David Gurd
Funding Support: $2,100

1998-2000 Co-Investigator/Mentor
Tobacco Smoke Exposure and Infant Respiratory Function
American Lung Association Grant
PI-Dr. Judith Groner
Funding Support $50,000 (to Dr. Groner)

1998-2000 Principal Investigator
Clinical Research Grant
Cystic Fibrosis Foundation
Improved HRCT Images of the Lungs in Infants with CF
Funding Support: $139,923

1999-2000 Principal Investigator
Clinical Research Grant
Cystic Fibrosis Foundation
Phase II, Prospective, Multi-center, Randomized, Double-Blinded, Age Stratified, Adjuvant-Controlled Trial of the Safety, Immunogenicity, and

Effectiveness of the Intramuscularly Administered A248/404 Derived Respiratory Syncytial Virus Purified Fusion Protein (PFP-3) Vaccine against Lower Respiratory Tract Illness (LRTI) in Children with Cystic Fibrosis (CF) during the Respiratory Syncytial Virus (RSV) Season (Protocol # D144-P2)
Funding Support: $95,333

1999-2001 Co-Investigator/Mentor
Development and Application of a New Non-Invasive Controlled Ventilation Technique for Computed Tomography of the Lungs in Infants and Young Children
Radiological Society of North America Research Scholar Grant
PI-Dr. Frederick Long
Funding Support: $120,000

1999-2001 Principal Investigator
Contract
Cystic Fibrosis Foundation
Transfer of Infant Pulmonary Function Device Technology
Funding Support (Year 1): $382,694
Funding Support (Year 2): $557,950

2003-2006 Site Principal Investigator
Cystic Fibrosis Foundation
Evaluation of Pulmonary function Tests from Raised Lung Volumes as Outcome Measures for Clinical Trials in Infants with Cystic Fibrosis
Funding Support: $59,353

2004-2010 Principal Investigator
Genentech, Inc.
Efficacy of Pulmozyme in Infants and Young Children with Cystic Fibrosis
Support: $170,130 (approved and funded, IND from FDA approved)

2004-2011 Principal Investigator
Cystic Fibrosis Foundation
Changes in Lung Structure and Function in Children with Cystic Fibrosis
Funding Support: $132,197

2005-2008 Site Principal Investigator
Cystic Fibrosis Foundation
Lung Function Measures in Preschool Children with CF
Funding Support: $23,640

2005-2010 Co-Principal Investigator
Cystic Fibrosis Foundation
HRCT and Growth in Preschoolers Receiving Behavioral Therapy
Funding Support: $125,622

2007-2010 Site Principal Investigator
Cystic Fibrosis Foundation Therapeutic Development Network

Two year study to assess the natural history of progressive CF lung disease utilizing CT imaging, pulmonary function tests and clinical scores
Funding Support: $204,916 (transferred to Dr. Karen McCoy, 4/2008)

2007-2008 Co-Principal Investigator
Device and method for non-invasive monitoring of airway function in patients with chronic respiratory disease
Coulter Foundation
Funding Support: $113,831 (submitted and not funded)

2009-2011 Co-Principal Investigator
Lung Function and Bronchial Responsiveness in Infants and Toddlers with Sickle Cell Disease
Clinical and Translational Intramural Funding Program, Research Institute at Nationwide Children's Hospital
Funding Support: $46,000

2009 Research Advisor, Samuel J. Roessler Memorial Scholarship Fund
Lung Structure and Function in Infants with Cystic Fibrosis
Roessler Fellow – Brian Baker
Funding Support: $5,100

2010-2013 Co-Principal Investigator
Lung Function and Bronchial Responsiveness in Infants and Toddlers with Sickle Cell Disease
Doris Duke Foundation
Funding Support: $150,000 (submitted July 2009, not funded)

2009-2012 Principal Investigator
Improving BPD Predictors and Outcomes for Clinical Trials
NIH/NICHD
Funding Support: $94,235

2010-2012 Co-investigator/Mentor
New & robust computer tomography (CT) outcome measures for pediatric lung disease
Center for Clinical and Translational Science
PI-Dr. Frederick Long
Funding Support: $24,989

2010-2012 Consultant/Mentor
New and robust computer tomography outcome measures for pediatric lung disease
NIH Grant Number:R01HL111099-01
PI-Dr. Frederick Long, Co-PI – Metin Gurcan
Funding Requested: $1,200,000
Submitted 2/4/11, In revision for re-submission January 2012

U.S. PATENTS

Method for Measuring Adult-Type Pulmonary Function in Sedated Infants and Apparatus Therefor.
Filed May 3, 1994
Granted in Full May 7, 1996
Patent Number - 5,513,647
FDA Device Approval – May 2003.