

CURRICULUM VITAE

PERSONAL DATA:

Name: Philip Marshall Farrell

Email: pmfarrell@wisc.edu

EDUCATION:

1967 A.B. Chemistry, Minor in Biology
St. Louis University, St. Louis, Missouri

1970 M.D. (Medicine); Ph.D. in Biochemistry and Minor in Physiology
St. Louis University, St. Louis, Missouri

Professor/Advisor: Robert E. Olson, M.D., Ph.D.
Thesis: Properties of Creatine Kinase in Hereditary Muscular Dystrophy and Vitamin E Deficiency of the Chicken

POSTGRADUATE EDUCATION:

1970-1971 Internship, Department of Pediatrics
University of Wisconsin Hospitals; Madison, Wisconsin

1971-1972 Residency, Department of Pediatrics
University of Wisconsin Hospitals; Madison, Wisconsin

1972-1974 Fellowship, Pediatric Metabolism Branch, NIAMDD
National Institutes of Health, Bethesda, Maryland
(Clinical Associate of Paul A. di Sant'Agnese, M.D.)

CONTINUING EDUCATION:

1985 Fellowship in Developmental Biology; College de France

1991 "Introduction to Clinical Epidemiology" Course, University of Michigan, School of Public Health

1992 "Program for Chiefs of Clinical Services" Course, Harvard University School of Public Health

1993 "Epidemiology for Health Practitioners, Nutrition Assessment Epidemiology, Nutrition Intervention in Clinical Trials, Epidemiology and Health Policy" Courses, University of Michigan School of Public Health

1993 "Advanced Epidemiological Methods" Course, London School of Hygiene and Tropical Medicine

1994 "Genetic Epidemiology" Course, University of Michigan School of Public Health

RESEARCH FELLOWSHIPS:

1964-1965	NIH Medical Science Fellowship
1965	National Viets Traineeship
1966	National Multiple Sclerosis Society Fellowship
1967-1970	USPHS Traineeship in Biochemistry
1971-1972	American Academy of Pediatrics, Gerber Fellowship

HONORS AND AWARDS:

1965-1967	Avalon Foundation Scholarship
1966-1970	Thurston Memorial Scholarship
1970	Phi Beta Kappa
1970	Alpha Omega Alpha
1970	Borden Undergraduate Research Award
1970	Graduated Cum Laude
1985	Fogarty Senior International Fellowship Award
1995	Wisconsin Pediatrician of the Year, WI Chapter of the American Academy of Pediatrics
2001	Joseph B. Goldberger Award in Clinical Nutrition, American Medical Association
2005	Paul di Sant' Agnese Distinguished Scientific Achievement Award, U.S. Cystic Fibrosis Foundation
2007	Marshfield Clinic Heritage Foundation Award
2008	Edwin L. Kendig Award, American Academy of Pediatrics and American College of Chest Physicians
2010	Presidential Citation Award, Wisconsin Medical Society
2011	CDC Award of Excellence in recognition of leadership and outstanding efforts in newborn screening quality assurance for cystic fibrosis
2013	George Cunningham Visionary Award, in Newborn Screening, Association of Public Health Laboratories

SOCIETY MEMBERSHIPS:

American Academy of Pediatrics, American Medical Association, Wisconsin Medical Society, American Pediatric Society, European Cystic Fibrosis Society, Society for Pediatric Research, International Society for Neonatal Screening (emeritus member)

CERTIFICATIONS AND LICENSURE:

1971	National Board of Medical Examiners
1971	Medical Licensure, State of Wisconsin
1972	AEC Certification for Radionuclide Use in Patients
1977	American Board of Pediatrics
1979	Sub-Board of Neonatal-Perinatal Medicine
1986	Sub-Board of Pediatric Pulmonology
1995	Recertified in Pediatric Pulmonology

PROFESSIONAL APPOINTMENTS:

1974-1975	Senior Investigator Pediatric Metabolism Branch National Institute of Arthritis, Metabolism and Digestive Diseases National Institutes of Health Bethesda, Maryland
1975	Chief, Section on Developmental Biology and Clinical Nutrition Chief, Neonatal and Pediatric Medicine Branch National Institute of Child Health and Human Development National Institutes of Health Bethesda, Maryland
1975	Assistant Professor Department of Child Health School of Medicine and Health Sciences George Washington University Washington, D.C.
1977	Assistant Professor Department of Pediatrics Center for Health Sciences University of Wisconsin-Madison Madison, Wisconsin
1977-85	Attending Neonatologist Meriter Hospital Madison, Wisconsin
1977-81	Director, Cystic Fibrosis Center University of Wisconsin-Madison Madison, Wisconsin
1978	Associate Professor Department of Pediatrics Center for Health Sciences

University of Wisconsin-Madison
Madison, Wisconsin

1978 Affiliate Scientist
Wisconsin Regional Primate Research Center
University of Wisconsin-Madison
Madison, Wisconsin

1981 Affiliate Faculty
Department of Nutritional Sciences
University of Wisconsin-Madison
Madison, Wisconsin

1981-1987 Director, Pediatric Pulmonary Specialized Center of Research ("Nutrition and
Metabolism in Infant Lung Disease")
University of Wisconsin-Madison
Madison, Wisconsin

1982 Professor
Department of Pediatrics
University of Wisconsin-Madison
Madison, Wisconsin

1983 Co-Director, Cystic Fibrosis Center
University of Wisconsin-Madison
Madison, Wisconsin

1985-1995 Chairman
Department of Pediatrics
University of Wisconsin-Madison
Madison, Wisconsin

1988-1995 Medical Director
University of Wisconsin Children's Hospital
Madison, Wisconsin

1990-2006 Alfred Dorrance Daniels Professor on Diseases of Children
University of Wisconsin-Madison
Madison, Wisconsin

1992-1997 Director, Pulmonary Specialized Center of Research on Lung Biology and
Diseases in Infants and Children ("Pathobiology of Bronchopulmonary Dyplasia")
University of Wisconsin-Madison
Madison, Wisconsin

1994 Interim Dean, Medical School
University of Wisconsin-Madison
Madison, Wisconsin

1995-2005 Dean, Medical School
University of Wisconsin-Madison
Madison, Wisconsin

2006 Dean, School of Medicine and Public Health
University of Wisconsin-Madison

Madison, Wisconsin

2001-2006 Vice Chancellor for Medical Affairs
University of Wisconsin-Madison
Madison, Wisconsin

2005-2009 Robert Turell Professor in Medical Leadership
University of Wisconsin-Madison
Madison, Wisconsin

2006 Affiliate Faculty
Department of Population Health Sciences
University of Wisconsin-Madison
Madison, Wisconsin

2007- Clinical Professor
Department of Pediatrics
University of South Florida
Tampa, Florida

2008- Special Advisor to Professor Gilles Bousquet
Dean of International Studies & Vice Provost for Globalization
University of Wisconsin-Madison
Madison, Wisconsin

2011- Emeritus Dean and Professor
Departments of Pediatrics and Population Health Sciences
University of Wisconsin-Madison
Madison, Wisconsin

2011- Clinical Professor
Department of Pediatrics
Medical College of Wisconsin
Milwaukee, Wisconsin

PROFESSIONAL ACTIVITIES:

1974-1977 Member, Clinical Research Committee National Institute of Child Health and Human Development

1974-1976 Lecturer, Foundation for Advanced Education in the Sciences National Institutes of Health

1974-1977 Member, Conference Committee, National Cystic Fibrosis Research Foundation

1975-1977 Member, International Research Review Panel Fogarty International Center

1975- Reviewer of grant and contract applications for the following agencies: NIAMDD, NICHD, NHLI (NHLBI), American Lung Association, National Foundation-March of Dimes

1975 Member, Nutrition Task Force National Institute of Child Health and Human Development

1975-1977 Medical Staff, Pediatrics Section Children's Hospital, National Medical Center

- 1976 Co-Chairman, Cystic Fibrosis Foundation Conference on Exocrine Gland Function and Development
- 1976 Member, Clinical Trials Review Panel National Heart and Lung Institute
- 1976-1977 Co-Chairman, Steering Committee, Clinical Trial on Antenatal Steroid Therapy for the Prevention of RDS, National Heart and Lung Institute
- 1976-1977 Member, Advisory Committee, Lung Cell Resource Facility, American Type Culture Collection
- 1977 Co-Chairman, NIAMDD/NHLBI/CFF Conference on Tissue Culture Approaches to the Study of Cystic Fibrosis
- 1977-1980 Chairman, Conferences Committee, Cystic Fibrosis Foundation
- 1977-1979 Member, Nutrition Committee, Cystic Fibrosis Foundation
- 1977-1980 Director, Core Week Lecture Program in Neonatology, University of Wisconsin School of Medicine (III Year course)
- 1977-1989 Lecturer, Respiratory Pathophysiology Course, University of Wisconsin School of Medicine (II Year course)
- 1977- Member, Pediatric and Neonatology Section Madison General Hospital
- 1978-1979 Member, South-central Wisconsin Perinatal Center Planning Committee
- 1978-1980 Member, Research Committee Cystic Fibrosis Foundation
- 1978 Member, National Workshop on Bronchopulmonary Dysplasia, Sponsored by the NHLBI, National Institutes of Health
- 1979-1984 Director, University of Wisconsin Pediatric Pulmonary Lab
- 1979-1982 Chairman, University of Wisconsin Perinatal Research Committee
- 1979 Reviewer, SERCA Ad Hoc Committee NICHD/NIAMDD, National Institutes of Health
- 1979 Member, Program Committee for the Pediatric Scientific Assembly, American Thoracic Society
- 1979-1981 Extramural Advisor, Case Western Reserve Cystic Fibrosis Research Center
- 1980 Chairman, Planning Committee for the National Symposium on the Diabetic Pregnancy in the Infant of the Diabetic Mother, University of Wisconsin
- 1980 Chairman, Nutrition Committee, Cystic Fibrosis Foundation
- 1980-1985 Member, Recommended Dietary Allowances Committee, Food and Nutrition Board National Academy of Sciences

- 1980 Chairman, Pregnancy and Fetal Development Task Group of the NIH Task Force on Animal Models Appropriate for Research on Diabetes Mellitus
- 1982 Member, American Academy of Pediatrics Infant Nutrition Task Force
- 1982-1984 Member, University of Wisconsin Institutional Research Grant Committee
American Cancer Society
- 1983 Member, Wisconsin Infant Apnea Task Force
- 1984-1990 Member, Medical Advisory Council Cystic Fibrosis Foundation
- 1984-1986 Vice-Chairman, Cystic Fibrosis Foundation Research Committee
- 1984 Visiting Professor, Laboratoire de Physiologie du Developpement, College de France
- 1984-1989 Member, Editorial Board of Pediatric Pulmonology and Section Editor for Symposia
- 1985 Fogarty Senior International Fellowship Award Laboratoire de Physiologie du Developpement College de France (with Professeur Alfred Jost)
- 1985- Member, Executive Committee, Wisconsin Chapter of the American Academy of Pediatrics
- 1985- Member, Association of Medical School Pediatric Department Chairmen
- 1986-1990 Chairman, Cystic Fibrosis Foundation Research and Research Training Committee
- 1986-1989 American Academy of Pediatrics Mead-Johnson Award Committee
- 1988 Chairman, American Academy of Pediatrics Mead-Johnson Award Committee
- 1989-1993 Member, Editorial Board of Annual Review of Nutrition
- 1989-1994 President, Hearts and Hands for Children, Inc. Madison Ronald McDonald House
- 1990 Member, Borden Award Jury, American Institute of Nutrition
- 1991- Member, Nominating Committee, Association of Medical School Pediatric Department Chairmen
- 1994 Chairman, Nominating Committee, Association of Medical School Pediatrics Department Chairman
- 1998- Member, ELAM Advisory Committee, (Executive Leadership in Academic Medicine Program for Woman)
- 1999- Member, Veterans Administration/Council of Deans Liaison Committee
- 2003 Lecturer on "Chronic Pediatric Malnutrition" in the Clinical Nutrition Course, University of Wisconsin Medical School (II Year course)

- 2005-2006 Course Director for “Cystic Fibrosis Newborn Screening—An Opportunity to Improve the Health of Children Through Early Diagnosis and Treatment” (CME presentation in 32 US cities)
- 2006 National Facilitator for Implementation of Cystic Fibrosis Newborn Screening, U.S. Cystic Fibrosis Foundation
- 2006-2009 Member, Subcommittee on Newborn Screening Guidelines for Premature and/or Sick Newborns, Clinical and Laboratory Standards Institute
- 2007-2009 Member, Subcommittee on Sweat Testing: Sample Collection and Quantitative Chloride Analysis, Third Edition Clinical and Laboratory Standards Institute
- 2007-2008 Course Director for “A New Era in Cystic Fibrosis: Newborn Screening and Preventive Management” (CME Webcast program presented nationwide in 10 interactive sessions)
- 2007-2009 Advisor to the Florida Department of Health Newborn Screening Program for Cystic Fibrosis Newborn Screening
- 2008-2011 Chairholder, Subcommittee on Newborn Screening for Cystic Fibrosis, Clinical and Laboratory Standards Institute
- 2008-2013 Chairman, Healthy Birth Initiative Steering Committee, Wisconsin Partnership Program, University of Wisconsin School of Medicine and Public Health
- 2012-2013 Consultant for the Division of Children’s Medical Services
Florida Department of Health
- 2016- Member, Clinical and Laboratory Standards Institute NBS05 Document Development Committee

TRAINEES (STUDENTS AND FELLOWS):

1. Graduate Students

Susan M. Langan, MS (article #81)
Dorothy M Ainsworth, PhD (article #86)
Kathleen E. McMahon, MS (articles #71, #82 and #90)
Mary S. Marcus, MS (article #113)
Julie Mares-Perelman, MS (article #87)
Molly Kloosterboer Groose, MS (articles #226 and #240)
Janelle M. Wells, MD, MPH (article #255)
Adam J. Grieve, PhD (articles #247 and #251)
Katelyn Parker-McGill, MPH, MD (article #275)

2. Medical Students

James Bruno, MD (article #77)
Amy Simantal, MD (articles #136)
Christopher E. Colby, MD (articles #138 and #145)
Charles Kwon, MD (article #158)
Amy Haavisto, MD (article #163)
Raymond J. Kotwicki, MD, MPH (article #159)
Laura Certain, MD, PhD (article #162)
David J. Ciske, MD (article #163)
Joseph L. Bobadilla, MD (articles #167 and #171)
Don S. Lee, MD, MPH (article #180)
Andrew Peterson, MD (article #180)
Andrew T. Braun, MD (article #207)
Simona Joffe, MD (article #217)
Malika Siker, MD (articles #214 and #223)
Aimee Cunningham Walsh, MD (article #233)
Adam Fritz, MD (article # 256)

3. Postdoctoral and Clinical Fellows in Neonatology and Pulmonology

T. Alan Merritt, MD (article #19)
Michael F. Epstein, MD (articles #14, #18, #24, #25, #31 and #41)
Lawrence F. Cohen, MD (articles #23, #28, and #29)
Sharon L. Levine, MD (articles #30 and #35)
Robert L. Manniello, MD (articles #30, #35, #38, and #39)
Dorothy B. Gail, PhD (articles #40 and #43)
Van S. Hubbard, MD, PhD (article #47)
Michael J. Engle, PhD (articles #70, #71, and #106)
Suzzane S. Toce, MD (article #68)
Steven Blythe, MD (article #73)
Jacques R. Bourbon, PhD (articles #58, #93, #95, and #105)
Robert E. Schumacher, MD (articles #78 and #96)
Jerry J. Zimmerman, MD, PhD (articles #89, #117, and #124)
Jeffrey Lobas, MD (article #86)
Michael J. Rock, MD (articles #101 and #107)
Mark R. Weatherly, MD (article #120)
Benjamin S. Wilfond, MD, MPH (articles #112, #121, and #123)
Andreas Van Egmond, MD (article #132)
Donald Hayes, MD (articles #234 and #241)

ARTICLES:

1. Tureen LL, Farrell PM, Cova RR. Comparison of plasma protein changes in antioxidant deficiency muscular dystrophy and genetic muscular dystrophy in the chicken. *Proc Soc Exp Biol Med.* 1965 May;119:28-32. PubMed PMID: [14297873](#).
2. Farrell PM, Eyerman EL, Tureen LL. Comparison of plasma creatine phosphokinase changes in nutritional and genetic muscular dystrophy in the chicken. *Ann N Y Acad Sci.* 1966 Sep 9;138(1):102-12. PubMed PMID: [5230204](#).
3. Farrell PM, Tureen LL. Phenotypic expression in chickens heterozygous for hereditary muscular dystrophy. *Proc Soc Exp Biol Med.* 1968 Mar;127(3):678-82. PubMed PMID: [5657039](#).
4. Farrell PM, Zachman RD. Induction of choline phosphotransferase and lecithin synthesis in the fetal lung by corticosteroids. *Science.* 1973 Jan 19;179(4070):297-8. PubMed PMID: [4683129](#).
5. Farrell PM, Zachman RD. Corticosteroids as primary therapeutic agents in respiratory distress syndrome (RDS). *Pediatrics.* 1973 May;51(5):952-5. PubMed PMID: [4703410](#).
6. Farrell PM, Olson RE. Creatine phosphate and adenine nucleotides in muscle from animals with muscular dystrophy. *Am J Physiol.* 1973 Nov;225(5):1102-6. PubMed PMID: [4745208](#).
7. Klagsbrun M, Farrell PM. The methylation of transfer and ribosomal ribonucleic acid in human fibroblasts: normal methylation of ribonucleic acid in cystic fibrosis. *Pediatr Res.* 1974 Mar;8(3):205-11. PubMed PMID: [4815834](#).
8. Farrell PM, Lundgren DW, Adams AJ. Choline kinase and choline phosphotransferase in developing fetal rat lung. *Biochem Biophys Res Commun.* 1974 Apr 8;57(3):696-701. PubMed PMID: [4363938](#).
9. Farrell P, Fratantoni J, Bieri J, Sant'Agnese P. Effects of vitamin E deficiency in man. *Acta Paediat Scand.* 1975; 64:150-151.
10. Farrell PM, Avery ME. Hyaline membrane disease. *Am Rev Respir Dis.* 1975 May;111(5):657-88. Review. PubMed PMID: [1093459](#).
11. Farrell PM, Pallavicini JC, Ulane MM. Growth characteristics and protein content of tissue-cultured fibroblasts from cystic fibrosis patients. *Proc Soc Exp Biol Med.* 1975 Jun;149(2):340-3. PubMed PMID: [1153407](#).
12. Wood RE, Wanner A, Hirsch J, Farrell PM. Tracheal mucociliary transport in patients with cystic fibrosis and its stimulation by terbutaline. *Am Rev Respir Dis.* 1975 Jun;111(6):733-8. PubMed PMID: [1137241](#).
13. Lundgren DW, Farrell PM, Di Sant'Agnese PA. Polyamine alterations in blood of male homozygotes and heterozygotes for cystic fibrosis. *Clin Chim Acta.* 1975 Jul 23;62(2):357-62. PubMed PMID: [1149299](#).
14. Epstein MF, Farrell PM. The choline incorporation pathway: primary mechanism for de novo lecithin synthesis in fetal primate lung. *Pediatr Res.* 1975 Aug;9(8):658-65. PubMed PMID: [1153240](#).
15. Farrell PM, Bieri JG. Megavitamin E supplementation in man. *Am J Clin Nutr.* 1975 Dec;28(12):1381-6. PubMed PMID: [803000](#).
16. Bieri JG, Farrell PM. Vitamin E. *Vitam Horm.* 1976;34:31-75. Review. PubMed PMID: [828356](#).

17. Farrell PM, Kotas RV. The prevention of hyaline membrane disease: new concepts and approaches to therapy. *Adv Pediatr.* 1976;23:213-69. Review. PubMed PMID: [795280](#).
18. Farrell PM, Epstein MF, Fleischman AR, Oakes GK, Chez RA. Lung lecithin biosynthesis in the nonhuman primate fetus: determination of the primary pathway in vivo. *Biol Neonate.* 1976; 29(3-4):238-46. PubMed PMID: [8165](#).
19. Merritt TA, Farrell PM. Diminished pulmonary lecithin synthesis in acidosis: experimental findings as related to the respiratory distress syndrome. *Pediatrics.* 1976 Jan;57(1):32-40. PubMed PMID: [1706](#).
20. Farrell PM, Fox GN, Spicer SS. Determination and characterization of ciliary ATPase in the presence of serum from cystic fibrosis patients. *Pediatr Res.* 1976 Feb;10(2):127-35. PubMed PMID: [128730](#).
21. Farrell PM. Letter: Indices of fetal maturation in diabetic pregnancy. *Lancet.* 1976 Mar 13;1(7959):596. PubMed PMID: [55881](#).
22. Farrell PM, Ridders H, Moel D. Cortisol-dihydrotestosterone antagonism in a patient with hypoparathyroidism and adrenal insufficiency: apparent inhibition of bone resorption. *J Clin Endocrinol Metab.* 1976 May;42(5):953-7. PubMed PMID: [1270584](#).
23. Lundgren DW, Farrell PM, Cohen LF, Hankins J. Fluctuations of unbound whole blood polyamine levels during the menstrual cycle. *Proc Soc Exp Biol Med.* 1976 May;152(1):81-5. PubMed PMID: [1265084](#).
24. Epstein MF, Farrell PM, Chez RA. Fetal lung lecithin metabolism in the glucose-intolerant Rhesus monkey pregnancy. *Pediatrics.* 1976 May;57(5):722-8. PubMed PMID: [133326](#).
25. Epstein MF, Farrell PM, Chez RA. Fetal lung lecithin metabolism and the amniotic fluid L/S ratio in rhesus monkey gestations. *Am J Obstet Gynecol.* 1976 Jun 15;125(4):545-9. PubMed PMID: [824955](#).
26. Farrell PM, Wood RE. Epidemiology of hyaline membrane disease in the United States: analysis of national mortality statistics. *Pediatrics.* 1976 Aug;58(2):167-76. PubMed PMID: [951131](#).
27. Douglas WH, Farrell PM. Isolation of cells that retain differentiated functions in vitro: properties of clonally isolated type II alveolar pneumocytes. *Environ Health Perspect.* 1976 Aug;16:83-8. PubMed PMID: 797569; PubMed Central PMCID: [PMC1475225](#).
28. Cohen LF, Farrell PM, Lundgren DW, di Sant'Agnese PA. Electrolyte values of sweat obtained by local and whole body collection methods in cystic fibrosis patients. *J Pediatr.* 1976 Sep;89(3):430-3. PubMed PMID: [956970](#).
29. Cohen LF, Lundgren DW, Farrell PM. Distribution of spermidine and spermine in blood from cystic fibrosis patients and control subjects. *Blood.* 1976 Sep;48(3):469-75. PubMed PMID: [953366](#).
30. Levine SL, Manniello RL, Farrell PM. Familial dysautonomia: unusual presentation in an infant of non-Jewish ancestry. *J Pediatr.* 1977 Jan;90(1):79-81. PubMed PMID: [830899](#).
31. Epstein MF, Farrell PM, Sparks JW, Pepe G, Driscoll SG, Chez RA. Maternal betamethasone and fetal growth and development in the monkey. *Am J Obstet Gynecol.* 1977 Feb 1;127(3):261-3. PubMed PMID: [402074](#).
32. Farrell PM. Fetal lung development and the influence of glucocorticoids on pulmonary surfactant. *J Steroid Biochem.* 1977 May;8(5):463-70. PubMed PMID: [579641](#).

33. Ulane RE, Stephenson LL, Farrell PM. A rapid accurate assay for choline kinase. *Anal Biochem.* 1977 May 1;79(1-2):526-34. PubMed PMID: [17331](#).
34. Farrell PM, Blackburn WR, Adams AJ. Lung phosphatidylcholine synthesis and cholinephosphotransferase activity in anencephalic rat fetuses with corticosteroid deficiency. *Pediatr Res.* 1977 Jun;11(6):770-3. PubMed PMID: [194213](#).
35. Manniello RL, Adams AJ, Farrell PM. The influence of antenatal corticosteroids on hypoglycemia in newborn rats with intrauterine growth retardation. *Pediatr Res.* 1977 Jul;11(7):840-4. PubMed PMID: [876707](#).
36. Farrell PM, Bieri JG, Fratantoni JF, Wood RE, di Sant'Agnese PA. The occurrence and effects of human vitamin E deficiency. A study in patients with cystic fibrosis. *J Clin Invest.* 1977 Jul;60(1):233-41. PubMed PMID: [874086](#); PubMed Central PMCID: PMC372361.
37. Kotas RV, Farrell PM, Ulane RE, Chez RA. Fetal rhesus monkey lung development: lobar differences and discordances between stability and distensibility. *J Appl Physiol Respir Environ Exerc Physiol.* 1977 Jul;43(1):92-8. PubMed PMID: [408323](#).
38. Manniello RL, Schulman JD, Farrell PM. Amino acid metabolism in dysmature newborn rats--possible explanation for the antihypoglycemic effect of prenatal glucocorticoids. *Pediatr Res.* 1977 Nov;11(11):1165-6. PubMed PMID: [917617](#).
39. Manniello RL, Farrell PM. Analysis of United States neonatal mortality statistics from 1968 to 1974, with specific reference to changing trends in major causalities. *Am J Obstet Gynecol.* 1977 Nov 15;129(6):667-74. PubMed PMID: [920767](#).
40. Gail DB, Farrell PM. Measurement of phosphatidylcholine precursors--choline, ethanolamine and methionine--in fetal and adult rat lung. *Lung.* 1978;155(3):255-63. PubMed PMID: [703381](#).
41. Epstein MF, Farrell PM, Chez RA. Lung lecithin synthesis in primates as related to respiratory distress syndrome. *J Med Primatol.* 1978;7(6):339-45. PubMed PMID: [110939](#).
42. Perelman R, Farrell PM. The impact of perinatal intensive care and regionalization in Wisconsin. *Wis Med J.* 1978 Mar;77(3):S35-S36. PubMed PMID: [636461](#).
43. Curbelo V, Gail DB, Farrell PM. Determination of disaturated lecithin in rhesus monkey amniotic fluid as an index of fetal lung maturity. *Am J Obstet Gynecol.* 1978 Aug 1;131(7):764-9. PubMed PMID: [99039](#).
44. Farrell PM, Hamosh M. The biochemistry of fetal lung development. *Clin Perinatol.* 1978 Sep;5(2):197-29. Review. PubMed PMID: [371894](#).
45. Farrell PM, Levine SL, Murphy MD, Adams AJ. Plasma tocopherol levels and tocopherol-lipid relationships in a normal population of children as compared to healthy adults. *Am J Clin Nutr.* 1978 Oct;31(10):1720-6. PubMed PMID: [707325](#).
46. Ulane RE, Stephenson LL, Farrell PM. Evidence for the existence of a single enzyme catalyzing the phosphorylation of choline and ethanolamine in primate lung. *Biochim Biophys Acta.* 1978 Dec 22;531(3):295-300. PubMed PMID: [216394](#).
47. Hubbard VS, Farrell PM, di Sant'Agnese PA. 25-Hydroxycholecalciferol levels in patients with cystic fibrosis. *J Pediatr.* 1979 Jan;94(1):84-6. PubMed PMID: [758431](#).

48. Farrell PM, Blackburn GK, Cefalo RC. Familial respiratory distress syndrome in three consecutive full-term infants. Case reports and documentation of lung enzyme activities. *J Reprod Med*. 1979 May;22(5):255-8. PubMed PMID: [222902](#).
49. Farrell PM. Vitamin E deficiency in premature infants. *J Pediatr*. 1979 Nov;95(5 Pt 2):869-72. PubMed PMID: [490264](#).
50. Taussig LM, Chernick V, Wood R, Farrell P, Mellins RB. Standardization of lung function testing in children. Proceedings and Recommendations of the GAP Conference Committee, Cystic Fibrosis Foundation. *J Pediatr*. 1980 Oct;97(4):668-76. PubMed PMID: [7420232](#).
51. Perelman RH, Engle MJ, Farrell PM. Perspectives on fetal lung development. *Lung*. 1981;159(2):53-80. Review. PubMed PMID: [7015023](#).
52. Lemanske RF Jr, Mischler EH, Farrell PM, Anderson C, Busse WW. Analysis of granulocyte beta-adrenergic response in cystic fibrosis: correlation of decreased responsiveness with disease severity. *Am Rev Respir Dis*. 1981 Jun;123(6):622-6. PubMed PMID: [7271056](#).
53. Schwartz DB, Engle MJ, Brown DJ, Farrell PM. The stability of phospholipids in amniotic fluid. *Am J Obstet Gynecol*. 1981 Oct 1;141(3):294-8. PubMed PMID: [7282809](#).
54. Farrell PM, Mischler EH, Gutcher GR. Evaluation of vitamin E deficiency in children with lung disease. *Ann N Y Acad Sci*. 1982;393:96-108. PubMed PMID: [6959573](#).
55. Farrell PM, Engle MJ, Frantz ID, Goldman AS, Kalkhoff R, Kemnitz JW, Perelman R, Stern JS, Susa JB. Complications of pregnancy and fetal development. *Diabetes*. 1982;31(Suppl 1 Pt 2):89-94. PubMed PMID: [6219019](#).
56. Graft DF, Mischler E, Farrell PM, Busse WW. Granulocyte chemiluminescence in adolescent patients with cystic fibrosis. *Am Rev Respir Dis*. 1982 May;125(5):540-3. PubMed PMID: [7081813](#).
57. Perelman RH, Engle MJ, Kemnitz JW, Kotas RV, Farrell PM. Biochemical and physiological development of fetal rhesus lung. *J Appl Physiol Respir Environ Exerc Physiol*. 1982 Jul;53(1):230-5. PubMed PMID: [7118636](#).
58. Bourbon JR, Rieutort M, Engle MJ, Farrell PM. Utilization of glycogen for phospholipid synthesis in fetal rat lung. *Biochim Biophys Acta*. 1982 Aug 18;712(2):382-9. PubMed PMID: [7126612](#).
59. Perelman RH, Farrell PM. Analysis of causes of neonatal death in the United States with specific emphasis on fatal hyaline membrane disease. *Pediatrics*. 1982 Oct;70(4):570-5. PubMed PMID: [7122155](#).
60. Mischler EH, Parrell S, Farrell PM, Odell GB. Comparison of effectiveness of pancreatic enzyme preparations in cystic fibrosis. *Am J Dis Child*. 1982 Dec;136(12):1060-3. PubMed PMID: [7148760](#).
61. Gourley GR, Farrell PM, Odell GB. Essential fatty acid deficiency after hepatic portoenterostomy for biliary atresia. *Am J Clin Nutr*. 1982 Dec;36(6):1194-9. PubMed PMID: [7148738](#).
62. Farrell PM. RDS today: Advances in treatment and prevention. *J Resp Dis*. 1983: 80-100.
63. MJ, Zachman RD, Curet LB, Morrison JC, Rao AV, Poole WK. Amniotic fluid phospholipids after maternal administration of dexamethasone. *Am J Obstet Gynecol*. 1983 Feb 15;145(4):484-90. PubMed PMID: [6337495](#).

64. Farrell PM. Nutrition in cystic fibrosis. *ASDC J Dent Child*. 1983 Sep-Oct;50(5):385-8. PubMed PMID: [6580306](#).
65. Kemnitz JW, Eisele SG, Lindsay KA, Engle MJ, Perelman RH, Farrell PM. Changes in food intake during menstrual cycles and pregnancy of normal and diabetic rhesus monkeys. *Diabetologia*. 1984 Jan;26(1):60-4. PubMed PMID: [6706046](#).
66. Farrell PM. Early diagnosis of cystic fibrosis: to screen or not to screen--an important question. *Pediatrics*. 1984 Jan;73(1):115-7. PubMed PMID: [6691035](#).
67. Gutcher GR, Lax AA, Farrell PM. Tocopherol isomers in intravenous lipid emulsions and resultant plasma concentrations. *JPEN J Parenter Enteral Nutr*. 1984 May-Jun;8(3):269-73. PubMed PMID: [6539829](#).
68. Toce SS, Farrell PM, Leavitt LA, Samuels DP, Edwards DK. Clinical and roentgenographic scoring systems for assessing bronchopulmonary dysplasia. *Am J Dis Child*. 1984 Jun;138(6):581-5. PubMed PMID: [6720645](#).
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2. Farrell PM, Taussig LM. Bronchopulmonary Dysplasia and Related Chronic Respiratory Disorders. Report of the Ninetieth Ross Conference on Pediatric Research. Columbus, OH: Ross Laboratories, 1986.
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5. Gopal-Srivastava R, Percy A (Eds.) and Farrell P (Guest Ed.). Translational Science of Rare Diseases. Vol 1, Number 1. 2016.
6. Gilbert-Barness E, Barness L, and Farrell P (Eds.). Metabolic Diseases: Foundations of Clinical

Management, Genetics, and Pathology. IOS Press, Amsterdam, 2017.

7. Farrell P, and White T. (Guest Eds.) Cystic Fibrosis Foundation Consensus Guidelines for Diagnosis of Cystic Fibrosis. Supplement to The Journal of Pediatrics. Vol 181S, 2017.

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1. LeGrys VA, Applequist R, Briscoe DR, Farrell P, Hickstein R, Lo SF et al: Sweat Testing: Sample Collection and Quantitative Chloride Analysis: Approved Guideline- Third Edition. CLSI Document C34-A3. Wayne PA; Clinical and Laboratory Standards Institute; 2009.
2. Farrell P, Cutting GR, Earley MC, Hoffman GL, Kharrazi M, Parad R, Quashnock JM, Sontag MK, Casellani C, LeGrys VA, and McColley SA. Newborn Screening for Cystic Fibrosis: Approved Guideline. CLSI document I/LA35-A. Wayne, PA: Clinical and Laboratory Standards Institute 2011.

INVITED EDITORIALS/COMMENTARIES:

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6. Farrell, PM. Creating much more than a medical school. *Wisc Med J* 98:59-60, 1999.
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8. Kindig DA and Farrell PM. Assessing Wisconsin's health needs and priorities. *Wisc Med J* 99:25-26, 2000.
9. Farrell PM. Integrated health sciences learning: a dream becomes reality. *Wisc Med J*. 99:79-81, 2000.
10. Grosse SD, Khoury MJ, Hannon WH, Boyle CA, Farrell PM. Early diagnosis of cystic fibrosis. *Pediatrics*. 107:1492, 2001.
11. Farrell PM, Fiore M. Solving complex health problems with interdisciplinary approaches. *Wisc Med J*. 100:75-6, 2001.
12. Farrell PM, Hammes B. A promise for palliative care at the end-of-life. *Wisc Med J*. 100:59-66, 2001.
13. Farrell PM, Mejicano G. Preparing for bioterrorism. *Wisc Med J*. 101:35-6, 2002.
14. Farrell PM. Enhancing men's urologic health. *Wisc Med J*. 101:46-7, 2002.

15. Turkal NW, Farrell P, Howe GE. A view from the clinical campus: a partnership of an academic medical center with an integrated delivery system. *Wisc Med J.* 102:19-23, 2003.

RESEARCH GRANTS as PI, unless otherwise noted; (agency and total direct costs award):

1973-1975	Cystic Fibrosis Foundation (\$49,050): "Effects of Vitamin E Deficiency in Man"
1977-1979	Cystic Fibrosis Foundation (\$57,960): "Essential Fatty Acids in Cystic Fibrosis As Related to Vitamin E Deficiency"
1977-1980	National Foundation-March of Dimes (\$62,330): "Substrate-Mediated Control of Lung Phosphatidylcholine Metabolism"
1978-1981	National Institutes of Health (HD 11429-01) (\$224,248): "Fetal Lung Development in the Diabetic Pregnancy"
1977-1981	Cystic Fibrosis Foundation (\$46,369): "Care, Teaching, and Research Center Grant"
1979-1981	Juvenile Diabetes Foundation (\$73,749): "Mechanisms of abnormal Fetal and Neonatal Lung Metabolism in Pregnancies Complicated by Diabetes" (with Dr. Michael J. Engle)
1979	Organon Pharmaceuticals, Inc. (\$20,000): "Assessment of Digestants in Cystic Fibrosis"
1979-1982	Cystic Fibrosis Foundation (\$59,141): "Correction of Linoleic Acid Deficiency in Cystic Fibrosis" (with Dr. Elaine H. Mischler)
1981-1986	National Institutes of Health (1P50 HL27358) (\$2,784,390): "SCOR: Nutrition and Metabolism in Infant Lung Disease"
1982-1985	American Lung Association (\$48,000): "Pediatric Pulmonary Fellowships-Institutional Training Grant"
1984	Mead Johnson, Inc. (\$3,500): "Choline Nutrition in Low Birthweight Infants"
1984-1989	Cystic Fibrosis Foundation (A001 5-01) (\$869,660): "Benefits and Risks of Cystic Fibrosis Neonatal Screening" (Voluntarily terminated in 1985)
1985	National Institutes of Health (Fogarty Center) (F06 TW00881) (\$10,000): "Fogarty Senior International Fellowship" for Research at College de France on Fetal Lung Development in the Diabetic Pregnancy
1985-1987	Mead Johnson Nutritional Group (\$18,000): "Nutritional Benefits of Cystic Fibrosis Screening"
1985-1990	National Institutes of Health (1R01 AM34108)(\$1,056,082): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"
1987-1988	National Institutes of Health (IROI HL 38149) (\$783,513): "Risk Factors in Bronchopulmonary Dysplasia" (Co-Principal Investigator with Dr. Mari Palta)
1988-1990	Cystic Fibrosis Foundation (\$263,973): "Supplement of Assessment of the Benefits and Risks of Neonatal Screening for Cystic Fibrosis"
1988-1991	Mead John Nutritionals (\$18,150): "Cystic Fibrosis Neonatal Screening"

1991-1995 National Institutes of Health (2ROI DK 34108) (\$1,312,749): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"

1991-1996 National Institutes of Health (1P50 HL 46478) (\$2,628,944) "SCOR: Lung Biology and Diseases in Infants and Children - Pathology of Bronchopulmonary Dysplasia"

1994-1999 National Institutes of Health (2 MO1 RR03186) (\$12,036,474): "General Clinical Research Center - University of Wisconsin"

1995-1998 National Institutes of Health (2ROI DK 34108) (\$874,478): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"

1996-2000 Howard Hughes Medical Institute; (\$2,800,000): "UW/HHMI Carrier Development Program in Molecular Mechanisms of Disease"

1996-2001 The Robert Wood Johnson Foundation (\$349,508): "Health Professions Partnership Initiative"

1998-2001 National Institutes of Health (2RO1 DK 34108) (\$1,027,212): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"

1999-2004 National Institutes of Health (2 MO1 RR03186)(\$15,839,890): "General Clinical Research Center - University of Wisconsin"

2000-2003 Howard Hughes Medical Institute; (\$1,600,000) "UW/HHMI Career Development Program in Molecular Mechanisms of Disease"

2001-2006 National Institutes of Health (2RO1 DK 34108) (\$2,472,753): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"

2003-2008 National Institutes of Health (K01 HL072530) (\$584,125): "Quality of Communication after Newborn Genetic Screening" (Advisor to PI, Dr. Michael Farrell)

2004 National Institutes of Health (1 C06 RR020102) (\$7,000,000 as 5 awards of \$1,400,000 each): "Extramural Facilities Improvement Program" (for Intradisciplinary Research Complex construction--- cancer research laboratories)

2006-2011 Cystic Fibrosis Foundation (FARREL06A0) (\$796,139): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening: Psychosocial Outcomes"

2006-2011 National Institutes of Health (5R01 DK072126) (\$185,000): "Malnutrition and Lung Disease in Cystic Fibrosis" (Co-investigator with PI, Dr. HuiChuan Lai)

2007-2008 Worldwide Universities Network (\$8,000): "The Ancient Origin of Cystic Fibrosis"

2007-2013 National Institutes of Health (2RO1 DK 34108) (\$2,030,842): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening"

2008-2011 National Institutes of Health (R21 HG004252) (\$356,913): "Developing a Family-Centered Approach for Genetic Counseling: A New Paradigm" (Co-Investigator with PI, Dr. Audrey Tluczek)

- 2008-2011 National Institutes of Health (R01 HL086691) (\$1,051,250): "Improvement of Communication Process and Outcomes after Newborn Genetic Screening" (Advisor to PI, Dr. Michael Farrell)
- 2009-2011 National Institutes of Health (1RC1HL100819) (\$499,940): "A Rapid-Throughput Feedback Intervention for Population-Scale Communication Quality Assurance Projects" (Subcontract PI with PI, Dr. Michael Farrell)
- 2010-2011 National Institutes of Health (3RO1 DK 34108-23S1) (\$77,957): "Pulmonary Benefits of Cystic Fibrosis Neonatal Screening" (ARRA Supplemental Grant)
- 2010-2012 National Institutes of Health (1R21HL102523) (\$412,000): "IL-1 Family Gene Polymorphisms and Susceptibility to P. aeruginosa in CF Patients" (Advisor to PI, Dr. Hara Levy)
- 2010-2015 National Institutes of Health (1DP2OD007031) (\$1,500,000): "Integration of Genomics with Genetics – Molecular Phenotypes for CF Lung Disease" (Advisor to PI, Dr. Hara Levy)
- 2011-2016 National Institutes of Health (R01 DK072126) (\$2,110,407): "Newborn Screening, Malnutrition and Lung Disease in Cystic Fibrosis" (Co-investigator with PI, Dr. HuiChuan Lai)
- 2012-2013 Legacy of Angels Foundation (\$153,944): "Quality Improvement in Cystic Fibrosis Newborn Screening: Addressing the Sweat Test QNS Problem with a Novel Method" (Co-investigator with PI, Dr. Michael Rock)
- 2012-2014 Legacy of Angels Foundation (\$223,853): "Quality Improvement in Cystic Fibrosis Newborn Screening: Improving Follow-up and Outcomes with Tools for Facilitative Interactive Communication" (Co-investigator with PI, Dr. Michael Farrell)
- 2012-2014 Legacy of Angels Foundation (\$377,521): "Improving IRT/DNA Newborn Screening for Cystic Fibrosis to Reduce False Positives by a New Molecular Strategy" (Co-investigator with PI, Dr. Mei Baker)
- 2015 National Institutes of Health (1R56DK109692-01) (\$150,456): "Early Childhood Diet, Growth, Gut Microbiome and Lung Health in Cystic Fibrosis" (Co investigator with PI, Dr. HuiChuan Lai)
- 2016 Cystic Fibrosis Foundation (LAI15AO) (\$334,443): "Early Childhood Diet, Growth, Gut Microbiome and Lung Health in Cystic Fibrosis" (Co-investigator with PI, Dr. HuiChuan Lai)
- 2016-2021 National Institutes of Health (R01 DK109692A) (\$3,435,587): "Early Childhood Diet Growth, Gut Microbiome and Lung Health in Cystic Fibrosis" (Co-investigator with PI, Dr. HuiChuan Lai)