

CURRICULUM VITAE

Name: Edward Regis McFadden, Jr.

Social Security: 172-32-5053

Address: 2706 Landon Road, Shaker Heights, Ohio 44122

Date of Birth: August 2, 1936

Place of Birth: Pittsburgh, Pennsylvania

Marital Status: Married

Children: Two

Present Positions: Argy1 J. Beams Professor of Medicine
Case Western Reserve University School of Medicine

Program Director, General Clinical Research Center
Case Western Reserve University School of Medicine

Present Address: General Clinical Research Center
University Hospitals of Cleveland
11100 Euclid Avenue
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Education:

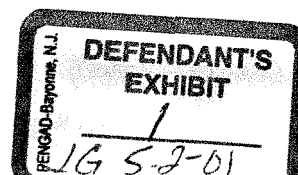
1958 A.B. St. Vincent College, Latrobe, Pennsylvania
1963 M.D. University of Pittsburgh, School of Medicine

Postdoctoral Training:

Internship and Residencies:

1963-1964 Intern in Medicine, Mercy Hospital, Pittsburgh, Pennsylvania
1964-1966 Junior and Senior Assistant Resident in Medicine, Mercy
Hospital, Pittsburgh, Pennsylvania

1968-1969 Registrar in Pulmonary Medicine, University of London, Royal
Postgraduate Medical School, Hammersmith Hospital, London,
England



Research Fellowships:

1966-1968	NIH Postdoctoral Research Fellow in Pulmonary Physiology, State University of New York, Downstate Medical Center, Brooklyn, New York
1968-1969	Advanced Research Fellow of American and British Heart Associations, Royal Postgraduate Medical School, University of London, Hammersmith Hospital, London, England

Licensure:

1963	Pennsylvania License Registration No. 29054
1966	New York License Registration No. 96687
1968	British Medical Council
1970	Texas License Registration No. D-8572
1973	Massachusetts License Registration No. 36209
1984	Ohio License Registration No. 51063

Board Certification:

1969	American Board of Internal Medicine
1970	American Subspecialty Board of Pulmonary Medicine

Academic Appointments:

1966-1968	Assistant Instructor of Medicine, Downstate Medical Center, State University of New York
1971-1972	Assistant Professor of Medicine, University of Texas Medical Branch, Galveston, Texas
1972-1973	Associate Professor of Medicine, University of Texas Medical Branch, Galveston, Texas
1973-1976	Assistant Professor of Medicine, Harvard Medical School, Boston, Massachusetts
1976-1977	Assistant Professor of Medicine at the Peter Bent Brigham Hospital, Harvard Medical School, Boston, Massachusetts
1977-1981	Associate Professor of Medicine at the Peter Bent Brigham Hospital, Harvard Medical School Boston, Massachusetts

1979-1984	Associate Professor of Medicine, Harvard University, Massachusetts Institute of Technology Combined Division of Wealth Sciences and Technology
1981-1984	Associate Professor of Medicine at the Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts
1984-	Argyl J. Beams Professor of Medicine, Case Western Reserve University School of Medicine, Cleveland, Ohio
1988-1991	Vice Chairman Department of Medicine, Case Western Reserve University School of Medicine, Cleveland, Ohio
1984-1993	Director, Airway Disease Center, University Hospitals, Cleveland, Ohio
1993- 2000	Director, Division of Pulmonary and Critical, Care Medicine, University Hospitals, Cleveland, Ohio
1986-	Director, Clinical Research Center, University Hospitals of Cleveland, Case Western Reserve University School of Medicine

Hospital Appointments:

1966-1968	Attending Physician, Kings County Hospital, Downstate Medical Center, State University of New York
1969-1971	Assistant Chief, Pulmonary Disease Service, and Chief, Pulmonary Function Laboratory, William Beaumont Army Medical Center, El Paso, Texas
1971-1973	Senior Staff Member, John Sealy Hospital Complex, University of Texas Medical Branch, Galveston, Texas
1971-1973	Director, Pulmonary Function Laboratory, University of Texas Medical Branch, Galveston, Texas
1972-1973	Associate Director, Pulmonary Disease Division, University of Texas Medical Branch, Galveston, Texas
1973-1979	Associate in Medicine, Peter Bent Brigham Hospital, Boston, Massachusetts
1973-1979	Consultant in Pulmonary Diseases, Robert Breck Brigham Hospital, Boston, Massachusetts

1977-1984	Consultant in Pulmonary Diseases, Sidney Farber Cancer Institute, Boston, Massachusetts
1979-1982	Senior Associate Physician, Peter Bent Brigham Hospital, Boston, Massachusetts
1973-1984	Director, Pulmonary Physiology Laboratory, Brigham and Women's Hospital, Boston, Massachusetts
1980-1984	Associate Director, Pulmonary Disease Division, Brigham and Women's Hospital, Boston, Massachusetts
1980-1984	Director of Research, Shipley Institute of Medicine, Brigham and Women's Hospital, Harvard Medical School
1982-1984	Senior Physician, Brigham and Women's Hospital, Boston, Massachusetts
1985-1989	Director, Adult Respiratory Diagnostic and Therapeutic Services, University Hospitals of Cleveland

Awards and Honors:

1980	George W. Thorn Award for Teaching Excellence, Peter Bent Brigham Hospital Medical Housestaff
1992	First National Asthma Education Program Award for Clinical Research, NIH

Major Committee Assignments:

National and Regional:

1972-1973	Board Member San Jacinto Tuberculosis and Respiratory Disease Association
1973-1974	Pulmonary Academic Award Curriculum Committee, National Heart and Lung Institute, National Institutes of Health
1975	Asthma and Allergic Disease Center Committee, National Institute of Allergy and Infectious Diseases, National Institutes of Health
1975- 1976	Pulmonary Academic Award Review Committee, National Heart and Lung Institute, National Institutes of Health
1978	Task Group on Prevention, Control and Education in Asthma, National Heart and Lung Institute, National Institutes of Health
1978	Special Study Section, National Institute of Environmental Health Sciences, National Institutes of Health
1979	Pulmonary-Allergy Drug Advisory Committee, Federal Drug Administration
1981	Committee on Lung Disease and Behavior, National Heart Lung and Blood Institute, National Institutes of Health
1986	Invited testimony before the Clean Air Scientific Advisory Committee of the Environmental Protection Agency on the Health Effects of SO ₂
1988	Special Study Section General Clinical Research Center Committee, National Institutes of Health
1989	Invited testimony before the United States Senate Subcommittee on Environmental Protection on the Health Effects of Acid Rain
1989	Specialized Centers of Research (SCOR) - Chronic Diseases of Airways, Committee, National Heart Lung and Blood Institute, National Institutes of Health

- 1989 National Institute of Allergy and Infectious Diseases (NIAID) Task Force on Asthma and Other Allergic Diseases and New Initiatives in Immunology
- 1990 Consultant to the National Heart Lung and Blood Institute's Expert Panel on the Management of Asthma, Crystal City, VA
- 1990 Co-Chairman, Workshop on Fiberoptic Bronchoscopy in Asthma and Chronic Obstructive Lung Disease, Division of Lung Disease NHLBI, and Division of Allergy, Immunology and Transplantation, NIAID, Columbia, MD
- 1992 Member National Heart, Lung and Blood Institute Program on Asthma Measures Outcome Working Group, Bethesda, MD
- 1992 Member National Heart, Lung and Blood Institutes Pulmonary Diseases Advisory Committee Asthma Basic Science Working Group
- 1992 Special Reviewer, Lung Biology and Pathology Study Section, Harvard Medical School
- 1976-1984 Curriculum Committee, Harvard University - MIT, Program in Health Sciences and Technology

Hospital:

- 1974-1975 Utilization Review Committee, Peter Bent Brigham Hospital
- 1975-1977 Electrical Safety Committee, Peter Bent Brigham Hospital
- 1977-1984 Intern Selection Committee, Peter Bent Brigham Hospital
- 1980-1984 Committee for the Protection of Human Subjects in Research (co-chairman, 1981), Brigham and Women's Hospital
- 1984- Disaster Committee, University Hospitals of Cleveland

Editorial Boards:

- 1978-1982 Journal of Allergy and Clinical Immunology
- 1981-1986 Journal of Asthma
- 1984-1988 Editor-in-Chief: Airway Diseases - Advances in Allergy and Pulmonary Medicine
- 1988- Lung
- 1989-1993 Associate Editor, Journal of Applied Physiology
- 1990-1995 International Advisory Board, Respiratory Medicine
- 1993-1996 Journal of Applied Physiology

Editorial Consultant:

Journal of Clinical Investigation
Journal of Applied Physiology
American Review of Respiratory Disease
American Journal of Medicine
New England Journal of Medicine
Lung
Chest
Clinical Science
Journal of Allergy and Clinical Immunology
Journal of Laboratory and Clinical Medicine
Lancet
Neurology

Membership in Professional Societies:

American Federation of Clinical Research
American College of Physicians (Fellow)
American Thoracic Society
Southern Society of Clinical Investigation
American Academy of Allergy and Immunology (Fellow)
American Physiologic Society
Central Society for Clinical Investigation
American Society for Clinical Investigation
Association of American Physicians

Offices and Committee Assignments in Professional Societies:

1973-1975	Counselor, Southern Section, American Federation of Clinical Research
1974-1976	Secretary of the Assembly on Structure and Function, American Thoracic Society
1974-1976	Program Committee, Respiratory Structure and Function Assembly of the American Thoracic Society
1976-1978	Advisory Committee on Respiratory Impairment, American Thoracic Society
1977-1978	Committee on Fellowship Review; Committee on Research Review; Committee on Pulmonary Nomenclature, American Thoracic Society

Major Research Interests:

1. Mechanics of Respiration
2. Pathophysiology and Pathogenesis of Asthma
3. Airway Reactivity

4. Early Detection of Chronic Obstructive: Lung Disease
5. Exercise-Induced Asthma
6. Effects of chemical mediators of immediate hypersensitivity on lung function
7. Respiratory heat and water exchange
8. Airway inflammation
9. Effect of environmental and occupational stimuli on lung function

Teaching Experience:

1966-1968	Organized Seminars in Pulmonary Physiology
1971-1973	Organized and taught entire Respiratory Curriculum at the University of Texas Medical Branch; Attending Physician, Medical Service, John Seale Hospital
1973-1984	Attending Physician, Medical Intensive Care Unit, Peter Bent Brigham Hospital and then Brigham and Women's Hospital
1973-1984	Attending Physician, Pulmonary Consultation Service, Peter Bent Brigham Hospital and then Brigham and Women's Hospital
1973-1984	Lectures and Demonstrations in Pulmonary Physiology, Harvard Medical School Respiratory Pathophysiology Course
1973-1984	Lectures and Demonstrations in Pulmonary Medicine, Health Sciences Course in Introduction to Clinical Medicine
1973-1984	Didactic Sessions on Lung Physiology and Pulmonary Medicine for Core Clerkship in Medicine, Harvard Medical School
1973-1984	Lectures on Pulmonary Physiology and Pulmonary Medicine for Medical Housestaff and Pulmonary Fellows
1973-1974	Seminars in Respiratory Physiology, Department of Physiology, Harvard Medical School
1974-1984	Lectures and Seminars on Pulmonary Mechanics for Biomedical Engineering Students, Massachusetts Institute of Technology
1975-1976	Tutor in Medical Sciences, Harvard Medical School
1976-1984	Tutor Coordinator, Harvard University - Massachusetts Institute of Technology, Combined Program in Health Sciences and Technology, Boston, Massachusetts
1977-1984	Attending Physician, Medical Service, Peter Bent Brigham Hospital and then Brigham and Women's Hospital
1977-1984	Lectures on Asthma and Airway Reactivity, Respiratory Pathophysiology Course, Harvard Medical School
1980-1984	Lectures in Pulmonary Medicine and Physiology, Advanced Pathophysiology Course, Harvard Medical School
1986-	Lectures in Pulmonary Medicine, Case Western Reserve University School of Medicine
1993-	Director of Pulmonary Critical Care Training Program, Case Western Reserve University School of Medicine

Preceptor Post-Doctoral Research Fellows:

1975-1984	Research and Clinical supervisor for 18 fellows - Harvard Medical School
1984-	Research supervisor for 22 fellows - Case Western Reserve University

Thesis Supervisor in Research Setting:

1976	2,BS, MIT
1978	MD, HST
1979	MS, MIT
	MD, HST
1980	MD, HST
1981	MD, Ph.D. (MIT)
1982-1984	MD, Ph.D. (MIT)
1984-	5, MS (Case Western Reserve University)
	1 PhD (Case Western Reserve University)

Grant Support:

1972-1973	NHLI, Pulmonary Academic Awardee
1975-1980	NHLBI, Research Career Development Awardee
Current:	
12/94-11/99	Pathophysiology of exercise-induced asthma. HL 33791; P.I.: E.R.McFadden, Jr.; Annual Direct Costs = \$97,125
4/1/95-2/29/00	Pathophysiology of airway effects to cold exposure. HL 44920; NHLBI P.I.: E.R. McFadden, Jr.; Annual Direct Costs = \$132,520
12/91-11/96	Specialized Center for Research (Chronic Diseases of the Airway) HL 37117; P.I.: E.R. McFadden, Jr.; Total = \$4,664,367
12/93-11/98	General Clinical Research Center Grant. MO1-RR00080; PI (Dean, Case Western Reserve University); Project Director: E.R. McFadden, Jr.: Total = \$11,547,628

BIBLIOGRAPHY

A. Original Reports

1. McFadden ER Jr, Lyons HA. Airway resistance, flow rates and uneven ventilation as independent abnormalities of bronchial asthma. Proceedings of the 10th Aspen Emphysema Conference. 1967;10:267-73.

2. Lyons HA, McFadden ER Jr, Mauro R. Relation of N₂ washout to compliance and resistance. Digest of the Seventh International Conference on Medical and Biological Engineering. 1967;7:36-40.
3. McFadden ER Jr, Lyons HA. Arterial blood gas tensions in asthma. N. Engl. J. Med. 1968;278:1027-32.
4. Luparello T, Lyons HA, Bleeker E, McFadden ER Jr. Influences of suggestion on airway reactivity in asthmatic subjects. Psychosom. Med. 1968;30:819-25.
5. McFadden ER Jr, Lyons HA. Airway resistance and uneven ventilation in bronchial asthma. J. Appl. Physiol. 1968;25:365-70.
6. McFadden ER Jr, Luparello T, Lyons HA, Bleeker E. The mechanism of action of suggestion in the induction of acute asthma attacks. Psychosom. Med. 1969;83:134-43.
7. McFadden ER Jr, Lyons HA. Serial studies of factors influencing airway dynamics during recovery from acute asthma attack. J. Appl. Physiol. 1969;27:452-9.
8. McFadden ER Jr, Luparello F. Bronchopleural fistula complicating massive pulmonary infarction. Thorax 1969;24:500-5.
9. McFadden ER Jr, Newton-Howes J, Pride NB. Acute effects of inhaled isoproterenol on the mechanical characteristics of the lungs in normal man. J. Clin. Invest. 1970;49:779-89.
10. Field GB, Jones G, McFadden ER Jr. Alveolar-arterial PCO₂ differences during rebreathing in chronic airways obstruction. J. Appl. Physiol. 1971;31:490-96.
11. Luparello T, McFadden ER Jr, Bleeker E, Lyons HA. Psychologic factors and bronchial asthma. NY State J. Med. 1971;71:2161-65.
12. McFadden ER Jr, Linden DA. A reduction in maximum mid-expiratory flow rate - a spirographic manifestation of small airway disease. Am. J. Med. 1972;52:725-37.
13. McFadden ER Jr, Kiser R, De Groot WJ. Acute bronchial asthma: Relations between clinical and physiologic manifestations. N. Engl. J. Med. 1973;288:221-5.
14. Welford NT, McFadden ER Jr. Instrumentation System for Automation of Pulmonary Gas Exchange Analysis. Digest of X International Conference on Medical and Biological Engineering. 1973;10:40-4.
15. Milisic R, Decherd J, McFadden ER Jr, Strader WJ III, Nusynowitz M MD. Phenformin-induced lactic acidosis: recovery with massive bicarbonate therapy and hemodialysis. Am. J. Med. Sci. 1973;265:447-53.

16. McFadden ER Jr, Kiker R, Holmes B, DeGroot WJ. Small airway disease. **An** assessment of the tests of peripheral airway function. *Am. J. Med.* 1974; 57:171-82.
17. McFadden Er Jr, Holmes **BA**, Kiker R. Variability of closing volume measurements in normal man. *Am. Rev. Respir. Dis.* 1975; 111:135-40.
- X 18. McFadden ER Jr. Exertional dyspnea and cough **as** preludes to acute attacks of bronchial asthma. *N. Engl. J. Med.* 1975; 292:555-9.
- X 19. McFadden ER Jr. Chronicity of acute attacks of asthma. Mechanical and therapeutic implications. *J. Allergy Clin. Immunol.* 1975; 56:18-26.
20. Herman PG, Sandcr T, Mann BE, McFadden ER Jr, Korngold E, Murphy MA, Mellins HZ. Rapid computerized **lung** volume determination from chest radiographs. *Am. J. Radiol. Rad. Ther. Nuc. Med.* 1975; 124:477-8.
21. McFadden ER Jr. Some Observations on the Pathophysiology of "Acute Bronchial Asthma. In: Stein M, ed. *New Directions in Asthma*. Park Ridge, Illinois: American College of Chest Physicians, 1975; 339-49.
22. McFadden ER Jr, Kiser R, DeGroot W, Holmes B, Kiker R, Viser G. A controlled study of the effects of single doses of hydrocortisone on the resolution of acute attacks of asthma. *Am. J. Med.* 1976; 60:52-9.
23. Wellman JJ, Brown R, Ingram RH Jr, Mead J; McFadden ER Jr. Effect of volume history on successive partial expiratory flow volume maneuvers. *J. Appl. Physiol.* 1976; 41:153-8.
24. Wellman JJ, McFadden ER Jr, Ingram RH. Density dependence of **maximal** expiratory flow rates before and after bronchodilators in patients with obstructive airways disease. *Clin. Sci. Mol. Med.* 1976; 51:133-9.
- X 25. Haynes R, Ingram RH Jr, McFadden ER Jr. **An** assessment of the pulmonary response to exercise in asthma and an analysis of the factors influencing it. *Am. Rev. Respir. Dis.* 1976; 114:739-52.
26. McFadden ER Jr, Stearns DR, Ingram RH Jr, Leith DE. Relative contributions of hypocarbia and hyperpnea as mechanisms in post-exercise asthma. *J. Appl. Physiol.* 1977; 42:22-7.
27. Brown R, Ingram RH Jr, Wellman JJ, McFadden ER Jr. Effects of intravenous histamine on pulmonary mechanics in asthmatic and non-asthmatic subjects. *J. **Appl.** Physiol.* 1977; 42:221-7.

28. Strauss RH, Haynes RL, Ingram RH, McFadden ER Jr. Comparison of arm versus leg work in the induction of acute episodes of asthma, *J. Appl. Physiol.* 1977; 42:565-70.
29. McFadden ER Jr, Soter NA. A search for chemical mediators of immediate hypersensitivity and humoral factors in the pathogenesis of exercise induced asthma. In: Lichtenstein LM, Austen KF, **Simon AS**, eds. Asthma: Immuno-pharmacology, and Treatment. Second International Symposium. New York: Academic Press, 1977; 351-66.
30. Brown N, McFadden ER Jr, Ingram RH Jr. Airway responses to inhaled histamine in asymptomatic smokers and non-smokers. *J. Appl. Physiol.* 1977; 42:508-13.
31. McFadden ER Jr, Ingram RH Jr, Haynes RL, Wellman JJ. Predominant site of flow limitation and mechanism of post-exertional asthma. *J. Appl. Physiol.* 1977; 42:746-52.
32. Ingram RH, Wellman JJ, McFadden ER Jr, Mead J. Relative contributions of large and small airways to flow limitation in normal subjects before and after atropine and isoproterenol. *J. Clin. Invest.* 1977; 59:696-703.
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35. Strauss RH, McFadden ER Jr, Ingram RH Jr, Jaeger JJ. Enhancement of exercise-induced asthma by cold air breathing. *N. Engl. J. Med.* 1977; 297:743-47.
36. Brown R, Ingram RH Jr, McFadden ER Jr. Effects of intravenous prostaglandin F₂alpha on pulmonary mechanics in non-asthmatic and asthmatic subjects. *J. Appl. Physiol.* 1978; 44:150-5.
37. Strauss RH, McFadden ER Jr, Ingram RH Jr, Deal EC Jr, Jaeger JJ. Influence of heat and humidity on the airway obstruction induced by exercise in asthma. *J. Clin. Invest.* 1978; 61:433-40.
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39. Brown R, Ingram RH Jr, McFadden ER Jr. Problems in the plethysmographic assessment of changes in total lung capacity in asthma. *Am. Rev. Respir. Dis.* 1978; 118:685-92.

40. Hensley MJ, O'Cain CF, McFadden ER Jr, Ingram RH Jr. Distribution of bronchodilation in normal subjects: Beta-agonists versus atropine. *J. Appl. Physiol.* 1978;45:778-82.
41. Deal EC Jr, McFadden ER Jr, Ingram RH Jr, Strauss RH, Jaeger JJ. The role of respiratory heat exchange in the production of exercise-induced **asthma**. *J. Appl. Physiol.* 1979;46:467-75.
42. Deal EC Jr, McFadden ER Jr, Ingram RH Jr, Jaeger JJ. Hyperpnea and heat flux. The initial reaction sequence in exercise-induced asthma. *J. Appl. Physiol.* 1979; 46:467-83.
43. Deal EC, McFadden ER Jr, Ingram RH Jr, Jaeger JJ. Esophageal temperature during exercise in asthmatic and non-asthmatic subjects. *J. Appl. Physiol.* 1979; 46:484-90.
44. O'Cain CF, Hensley MJ, McFadden ER Jr, Ingram RH Jr. Pattern and mechanism of airway response to hypocapnia in normal subjects. *J. Appl. Physiol.* 1979;47:8-12.
- ✓ 45. McFadden ER Jr, Ingram RH Jr. Exercise-induced asthma. Observations on the initiating stimulus. *N. Engl. J. Med.* 1979; 301:763-9.
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56. Rossing TH, Fanta CH, Goldstein DH, Snapper Jr, McFadden ER Jr. Emergency therapy of asthma: Comparison of the acute effects of parenteral and inhaled sympathomimetics and infused aminophylline. *Am Rev. Respir. Dis.* 1980;122:365-71.
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72. Griffin MP, McFadden ER Jr, Ingram RH Jr. A controlled analysis of the effects of inhaled lidocaine in exercise-induced asthma. *Thorax* 1982; 37:741-5.
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78. Fanta CH, Rossing TH, McFadden ER Jr. Glucocorticoids in acute asthma. A critical controlled trial. *Am. J. Med.* 1983; 74:845-51.
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81. Weiss JW, Rossing TH, McFadden ER Jr, Ingram RH Jr. Relationship between bronchial responsiveness to hyperventilation with cold arid methacholine in asthma. *J. Allergy Clin. Immunol.* 1983; 72:140-4.
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

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