

# CURRICULUM VITAE

## Alfred F. Connors, Jr., M.D.

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**Education:** 1968-1971 St. Louis University, B.A., cum laude  
1971-1974 Medical College of Ohio, M.D.

### Post-Graduate Training and Fellowship Appointments:

1974-1975 Intern, Internal Medicine, Cleveland Metropolitan General Hospital, Cleveland, Ohio.  
1975-1977 Assistant Resident, Internal Medicine, Cleveland Metropolitan General Hospital, Cleveland, Ohio.  
1978-1979 Clinical Fellow in Pulmonary Disease and Critical Care, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma.  
1979-1981 Fellow in Pulmonary and Critical Care Research, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma.

### Faculty Appointments:

1981 - 1989 Assistant Professor of Medicine, Case Western Reserve University School of Medicine, Cleveland, Ohio.  
1989 - 1996 Associate Professor of Medicine, Case Western Reserve University School of Medicine, Cleveland, Ohio.  
1996 Associate Professor of Epidemiology and Biostatistics, Case Western Reserve University School of Medicine, Cleveland, Ohio.  
1996 - 2002 Professor of Health Evaluation Sciences and Internal Medicine, University of Virginia School of Medicine, Charlottesville, Virginia.  
1996 Award of Tenure, University of Virginia School of Medicine, Charlottesville, Virginia.  
2002 - Charles H. Rammelkamp, Jr. Professor of Medicine, Case Western Reserve University School of Medicine, Cleveland, Ohio  
2002 Award of Tenure, Case Western Reserve University School of Medicine, Cleveland, Ohio  
2006 - Secondary Appointment in the Center for Clinical Investigation at Case Western Reserve University

### Hospital and Administrative Appointments:

1981 - 1995 Director of Medical Intensive Care Unit, MetroHealth Medical Center, Cleveland, Ohio.  
1995 - 1996 Director, Division of Pulmonary and Critical Care Medicine, MetroHealth Medical Center, Cleveland, Ohio.  
1995 - 1996 Director, Respiratory Therapy, MetroHealth Medical Center, Cleveland, Ohio.  
1995 - 1996 Director, Pulmonary and Critical Care Medicine Training Program, MetroHealth Medical Center, Cleveland, Ohio.  
1996 - 2002 Director, Division of Health Services Research and Outcomes Evaluation, University of Virginia School of Medicine, Charlottesville, Virginia.  
1999 - 2002 Co-Clinical Director, Medical Management Program, University of Virginia Health System, Charlottesville, Virginia.

- 2000 - 2002 Associate Director, Center for Improving Minority Health, University of Virginia School of Medicine, Charlottesville, Virginia.
- 2000 - 2002 Director, Master of Science Program, Department of Health Evaluation Sciences, University of Virginia School of Medicine, Charlottesville, Virginia
- 2002 - Chairperson, Case Western Reserve University Department of Medicine at MetroHealth Medicinal Center, Cleveland, Ohio

**Specialty Certifications:**

- 1977 American Board of Internal Medicine
- 1980 Pulmonary Diseases, American Board of Internal Medicine
- 1987 - 1997 Critical Care Medicine, American Board of Internal Medicine
- 1997 - 2007 Recertified, Critical Care Medicine, American Board of Internal Medicine

**Licensure:**

- 1975 Ohio #38299
- 1997 Virginia #0101055730

**Awards:**

- 1968 National Merit Scholarship Finalist
- 1974 Medical College of Ohio, Best Student, Pediatrics
- 1974 Medical College of Ohio, Best Student, Radiology
- 1974 Alpha Omega Alpha Medical Honor Society
- 1988 Faculty Teaching Award, Student Committee on Medical Education, CWRU
- 1989 Faculty Teaching Award, Student Committee on Medical Education, CWRU
- 1991 Faculty Teaching Award, Student Committee on Medical Education, CWRU
- 1991 Kaiser Teaching Excellence Award, Best Clinical Teacher, CWRU

**Membership in Professional and Scientific Societies:**

- 1974 Alpha Omega Alpha Medical Honor Society
- 1978 American Thoracic Society
- 1978 American College of Chest Physicians
- 1982 Ohio Thoracic Society
- 1987 Society of Medical Decision Making
- 1996 Society of Critical Care Medicine
- 1997 Virginia Thoracic Society
- 1997 Association of Health Services Research

**Hospital Committees:**

**MetroHealth Medical Center**

- 1981 - 1995 Medical Intensive Care Unit Committee, Chairman
- 1984 - 1988 Committee for Investigation in Humans
- 1984 - 1995 Critical Care Committee, Chairman
- 1984 - 1992 Internship Selection Committee
- 1985 - 1989 Burns, Emergency Services and Trauma, Advisory Committee
- 1985 Hospital Referral Committee
- 1986 - 1996 Department of Medicine Quality Assurance Committee
- 1987 - 1994 Nursing Recruitment and Retention Committee
- 1990 Quality Marketing Committee
- 1990 - 1991 Physician Evaluation Committee, Chairman
- 1992 Chairman, Department of Medicine Retreat Committee
- 1994 Chair, Programmatic Review of Pulmonary Services
- 1994 - 1995 Chairman, Critical Care Clinical Utilization Process Management Team

**University of Virginia Health Sciences Center**

- 1996-1997 Director, Clinical Evaluation Service
- 1998 Member, Medical Management Council
- 1999-2002 Co-Medical Director, Medical Management Program

**MetroHealth Medical Center**

2002 - MetroHealth Management Council  
2002 - Medical Executive Committee  
2002 - Catalyst Leadership Committee  
2002 - Patient Safety and Performance Improvement Coordinating Committee  
2002 - Executive Committee, Service Line Portfolio Project  
2003 Search Committee, Chief Executive Officer, MetroHealth Medical Center  
2005- Chair, Radiology Chair Search Committee  
2005- Planning Subcommittee, MHS Board of Trustees  
2005- Council of Chairs  
2006- Diversity Advisory Council

**University Committees:****Case Western Reserve University, School of Medicine, 1981 - 1996**

1982 - 1984 Phase I Cardiovascular-Pulmonary-Renal Committee  
1984 - 1986 Chairman, Pulmonary Section, Phase I Cardio-pulmonary-renal Committee  
1986 - 1992 Chairman, Pulmonary Section, Integrated Human Physiology  
1987 - 1990 Committee on Student Affairs  
1990 - 1991 Clinical Core Task Force  
1992 - 1993 Search Committee, Chair, Dept of Medicine, MetroHealth Medical Center  
1993 - 1996 Member, Faculty Council

**University of Virginia, School of Medicine, 1996 - 2002**

1997 Search Committee, Chair, Department of Family Practice  
1997 - 1998 Chair, Clinical Data Repository Steering Committee  
1997 LCME Task Force  
1997 - Principles of Medicine Committee  
1997 Research Subcommittee, LCME Task Force  
1997 - Clinical Research Committee, Department of Anesthesiology  
1997 Research Committee, Department of Emergency Medicine  
1997 Search Committee, Director, Division of Endocrinology  
1998 Multi-disciplinary Clinical Investigator Training Award Committee  
1999 Curriculum Committee  
2000 Student Academic Support Program Advisory Committee  
2000 Associate Director for Research, Center for Improving Minority Health  
2000 Search Committee, Director, Physical Medicine and Rehabilitation  
2001 Co-Chair, Faculty Recruitment Task Force, Council on Diversity  
2001 Chair, Five Year Review Committee, Chairman of the Department of Psychiatry  
2001 Chair, Grading Subcommittee, Curriculum Committee

**Case Western Reserve University, School of Medicine, 2002 -**

2002 - 2003 Dean's Executive Committee  
2002 - GCRC Advisory Committee  
2002 - 2004 Applicant Selection Committee, Robert Wood Johnson Generalist Faculty Scholars Program  
2005 - Curriculum Reform Steering Committee  
2005 - Curriculum Reform, Block 4 Planning Committee

**Community Committees:****Cleveland, Ohio**

1983 Program Planning Committee, Ohio Thoracic Society  
1987 - 1989 Board of Trustees, American Lung Association of Northern Ohio  
1988 - 1989 Stop Smoking Committee, American Heart Association, Member  
1989 Program Planning Committee, Ohio Thoracic Society  
1989 - 1996 Professional Education and Research Committee,  
American Lung Association of Northern Ohio  
1989 - 1991 Chairman, Stop Smoking Committee, American Heart Association  
1990 - 1991 Chairman, Program Planning Committee, Ohio Thoracic Society

1992 - 1993 President, Ohio Thoracic Society  
1994 - 1995 Chair, Tobacco Control Coalition, ALA, AHA, and ACS.

**Charlottesville, Virginia**

1998 Hospital Quality and Outcomes Expert Panel, Virginia Health Information

**National Committees:**

1988 - 1989 Member, ACCP Planning Committee, The Second National ACCP Critical Care Examination Review Course  
1988- Member, ACCP Critical Care Position Panel on Hemodynamic Monitoring  
1988 - 1996 Chairman, Steering Committee, Program to Enhance Decision-Making and Outcomes in Severely Ill Patients, Robert Wood Johnson Foundation  
1989 Original Investigations Committee for the 55th Annual Scientific Assembly and XVI World Congress on Diseases of the Chest  
1989 ACCP DuPont Critical Care Research Awards Committee  
1989 ACCP Alfred Soffer Research Awards Committee  
1990 ATS Program Committee, Section on Critical Care  
1992 Co-Chair, "Scoring Systems in the ICU", ACCP Annual Meeting  
1996 Society of Critical Care Medicine, Pulmonary Artery Catheterization Consensus Panel  
1997 NHLBI and FDA Workshop on Pulmonary Artery Catheterization and Clinical Outcomes  
1997 ATS, Program Committee, Section on Clinical Problems  
1997 ATS, Education Committee for the Critical Care Assembly  
1998 Last Acts Task Force on Palliative Care, Evaluation and Outcomes Committee, Robert Wood Johnson Foundation  
1998 Member, Board of Trustees, National Hospice Organization  
1998 Member, Pulmonary Artery Catheter and Clinical Outcomes (PACCO) Education Committee, National Heart Lung and Blood Institute, National Institute of Health  
2000 - NHLBI Workshop on Clinical Epidemiology of Lung Disease  
2001 - FACTT Executive Committee, NHLBI ARDS network  
2001 - ARDSnet Executive Committee, NHLBI ARDS network  
2002 - Institute of Medicine, Committee on Aerospace Medicine and Medicine in Extreme Environments  
2003- Institute of Medicine, Committee on the Longitudinal Study of Astronaut Health  
2004- Data Safety and Monitoring Board, VA Cooperative Study, #530, VA/NIH Acute Renal Failure Trial Network(ATN) Study  
2005 Agency for Healthcare Research and Quality Workshop: Establishing an Agenda for Aging Research, 10/31 to 11/1/2005  
2006- NHLBI Strategic Plan Theme 5 Working Group  
2006- NIH Roadmap, Re-engineering the Clinical Research Enterprise: Clinical Research Networks. Panel Member: Data Credibility Panel A: Issues of Data Collection in Collaborative Research Projects, May 11-12, 2006  
2006 Institute of Medicine, Committee on NASA's Space Flight Health Standards

**Invited Manuscript Reviews:**

1983- Chest  
1985- American Review of Respiratory Disease  
1986- Medical Care  
1988- Journal of Critical Care  
1989- New England Journal of Medicine  
1990- Journal of Laboratory and Clinical Medicine  
1991- Health Services Research  
1993- Respiratory Physiology  
1993- Intensive Care Medicine  
1993- Journal of Respiratory Diseases  
1996- Critical Care Medicine  
1996- Medical Decision Making  
1997- Journal of Critical Illness  
2000- Journal of the American Medical Association

**Editorial Responsibilities:**

- 1997 - 2002 Editorial Board, American Journal of Medicine
- 1999 - Editorial Board, Medical Decision Making
- 2001 - Editorial Board, Journal of Critical Care

**Clinical Responsibilities:****MetroHealth Medical Center**

- 1981 - 1995 Director, Medical Intensive Care Unit, MetroHealth Medical Center.
- 1981 - 1996 Attending Physician, Pulmonary Consultation Service, Medical Service and Medical Intensive Care Unit, MetroHealth Medical Center, Cleveland, Ohio.

**University of Virginia Health Science Center**

- 1996 - Attending Physician, Pulmonary Consultation Service and Medical Intensive Care Unit, University of Virginia Health Sciences Center, Charlottesville, Virginia.

**MetroHealth Medical Center**

- 2002 - Attending Physician, Pulmonary Consultation Service, Medical Service and Medical Intensive Care Unit, MetroHealth Medical Center, Cleveland, Ohio

**Teaching Responsibilities:****University of Virginia School of Medicine**

- 1997 - Director, Health Services Research and Outcomes Evaluation Track, Master of Science Program in Health Evaluation Sciences
- 1998 - Course Director, Technology Assessment and Outcomes Evaluation (HES 712), Master of Science Program in Health Evaluation Sciences
- 1998 - Course Director, Clinical Epidemiology Course (MED 632), 2nd Year Medical Students
- 2000 - Lecturer, Pulmonary Physiology Course, 1st Year Medical Students
- 2001 - Course Director, Comprehensive Introduction to Clinical Investigation (CI)<sup>2</sup>
- 2001 - Medical Director, Master of Science in Health Evaluation Sciences Program

**Case Western Reserve University School of Medicine**

- 1982 – 1985 Lecturer and small group leader, Homeostasis I, Pulmonary Committee
- 1982 – 1996 Lecturer and small group leader, Homeostasis II, Pulmonary Committee
- 1985 – 1996 Chair, Homeostasis I, Pulmonary Committee
- 1984 – 1996 Chest Radiology lectures, 12 hrs/year, MetroHealth Medical Clerkship
- 2002 - Lecturer and small group leader, Homeostasis I, Pulmonary Committee
- 2003 - Lecturer and small group leader, Homeostasis II, Pulmonary Committee

**MANUSCRIPTS:** Peer-reviewed

1. **Connors** AF, Hammon WE, Martin RJ, Rogers RM. Chest physical therapy: the effect on oxygenation in acutely ill patients. *Chest*, 78:559-564, 1980.
2. **Connors** AF, McCaffree DR, Rogers RM. The adult respiratory distress syndrome. *Disease-a-Month*, 27(4): 1-78, 1981.
3. Farber JP, **Connors** AF, Gisolfi CV, McCaffree DR, Smith RM. Effects on breathing of putative neurotransmitters in the rostral hypothalamus of the rat. *Brain Research Bulletin*, 6:13-17, 1981.
4. **Connors** AF, McCaffree DR, Gray BA. The effect of inspiratory flow rate on gas exchange during mechanical ventilation. *Am Rev Resp Dis*, 124:537-543, 1981.
5. **Connors** AF, Farber JP, McCaffree DR, Howard RF, Stark MM. Lidocaine in the rat rostral hypothalamus: effect on arterial carbon dioxide. *Proc Soc Exp Biol Med*, 170:405-410, 1982.
6. **Connors** AF, McCaffree DR, Gray BA. Evaluation of right heart catheterization in the critically ill patient without myocardial infarction. *New Engl J Med*, 308:263-267, 1983.
7. Bacon BR, Bailey-Newton RS, **Connors** AF. Pleural effusions after endoscopic variceal sclerotherapy. *Gastroenterology*, 88:1910-1914, 1985.
8. Bailey-Newton RS, **Connors** AF, Bacon BR. Effect of endoscopic variceal sclerotherapy on gas exchange and hemodynamics in humans. *Gastroenterology*, 89:368-373, 1985.
9. **Connors** AF, Castele RJ, Farhut N, Tomashefski JF. Complications of right heart catheterization: a prospective autopsy study. *Chest*, 88:567-575, 1985.
10. Castele RJ, **Connors** AF, Altose MD. Effects of changes in PCO<sub>2</sub> on the sensation of respiratory drive. *J Appl Physiol*, 59:1747-1751, 1985.
11. Grisoni ER, Mehta S, **Connors** AF. Thrombosis and infection complicating central venous catheterization in neonates. *J Ped Surg*, 21:772-776, 1986.
12. **Connors** AF, Bacon BR, Miron S. Quantitative determination of distribution of sclerosant following endoscopic variceal sclerotherapy. *Ann Int Med*, 105:539-542, 1986.
13. Altose MD, Castele RJ, **Connors** AF Jr., DiMarco AF. Effects of volume and frequency of mechanical ventilation on respiratory activity in humans. *Respir Physiol*, 66:171-181, 1986.
14. Emerman CL, **Connors** AF Jr, Burma GM. Level of consciousness as a predictor of complications following tricyclic overdose. *Ann Emerg Med*, 16:326-330, 1987.
15. **Connors**, AF, Dawson, NV, McCaffree, DR, Gray, BA, Siciliano, C. Predicting hemodynamic status in critically-ill patients: Do physicians use clinical information optimally? *J Crit Care*, 2:174-180, 1987.
16. DiMarco AF, **Connors** AF, Jr., Altose MD. Management of chronic alveolar hypoventilation with nasal positive pressure breathing. *Chest*, 92:952-954, 1987.
17. Emerman CL, **Connors** AF Jr., Lukens TW, May M, Effron D. A randomized controlled trial of methylprednisolone in the emergency treatment of acute exacerbations of COPD. *Chest*, 95:563-567, 1989.
18. Emerman CL, **Connors** AF Jr., Lukens TW, May M, Effron D. Relationship between arterial blood gases and spirometry in acute exacerbations of COPD. *Ann Emerg Med*, 18:523-527, 1989.
19. Speroff T, **Connors** AF, Dawson NV. Lens model analysis of hemodynamic status in the critically ill. *Med Decis Making*, 9:243-252, 1989.
20. Speroff T, **Connors** AF, Dawson NV. The lens model: A gem of a method of judgement analysis or a diamond in the rough? *Med Decis Making*, 9:257-261, 1989.

21. Emerman CL, **Connors** AF, Lukens TW, May ME, Efron D. Theophylline concentrations in patients with acute exacerbations of COPD. *Am J Emerg Med*, 8:289-292, 1990.
22. Tomaszewski JF Jr., **Connors** AF Jr., Rosenthal E. Peripheral versus central squamous cell carcinoma of the lung: a comparison of clinical features, histopathology and survival. *Arch Pathol Lab Med*, 114:468-474, 1990.
23. Emerman CL, Devlin C, **Connors** AF. Risk of toxicity in patients with elevated theophylline levels. *Ann Emerg Med*, 19:643-648, 1990.
24. **Connors** AF Jr., Dawson NV, Shaw PK, Montenegro HD, Nara AR, Martin L. Accuracy of assessment of hemodynamic status in critically ill patients with and without acute heart disease. *Chest*, 1990; 98:1200-06
25. **Connors** AF, Dawson NV, Lynn DJ. Introduction to decision-making. *J Clin Epidemiol*, 1990;43:47S-49S.
26. **Connors** AF, Dawson NV, Arkes HR, Roach MJ. Decision making in SUPPORT: physician perceptions and preferences. *J Clin Epidemiol*, 1990;43:59S-62S.
27. Dawson NV, **Connors** AF. Decision making in SUPPORT: physician characteristics. *J Clin Epidemiol*, 1990;43:63S-66S.
28. Dawson NV, Youngner SJ, **Connors** AF. Phase II: influencing decision-making in SUPPORT. *J Clin Epidemiol*, 1990;43:103S-108S.
29. Mehta S, **Connors** AF Jr., Grisoni ER and Danish E. Incidence of thrombosis during central venous catheterization in newborns: a prospective study. *J Ped Surg*, 1992;27:18-22.
30. Hammon WE, **Connors** AF, Jr., and McCaffree DR. Cardiac arrhythmias during postural drainage and chest percussion of critically ill patients. *Chest*, 1992;102:1836-41.
31. Dawson NV, **Connors** AF Jr., Shaw PK, Hsiue IL, Arkes HR. Hemodynamic assessment in the critically ill: "Is physician confidence warranted?" *Med Decis Making*, 1993;13:258-266.
32. Teno JM, Lynn J, Phillips RS, Murphy D, Youngner SJ, Bellamy P, **Connors** AF, Jr., Desbiens N, Fulkerson W, Knaus WA, and the SUPPORT investigators. The impact of formal advanced directives on decision-making regarding resuscitation for seriously ill adults. *J Clin Ethics*, 1994; 5:23-30.
33. Teno JM, Murphy D, Lynn J, Tosteson A, Desbiens N, **Connors** A, Hamel MB, Wu A, Phillip RS, Wenger N, Harrell F, Knaus WA for the SUPPORT investigators. Prognosis-based futility guidelines: does anyone win? *J Am Geriatr Soc*, 1994; 42:1202-1207
34. Covinsky KE, Goldman L, Cook EF, Oye R, Desbiens N, Reding D, Fulkerson W, **Connors** AF Jr, Lynn J, Phillips RS. The impact of serious illness on patients families. *JAMA*, 1994; 272:1839-1844.
35. Iberti TJ, Daily EK, Leibowitz AB, Schechter CB, Fischer EP, Silverstein JH, Albertson TE, Cerra FB, **Connors** AF, Halpern NA, Kambe JC, Lipper B, Nisam M, Panacek EA, Papadakos PJ, Rutledge FS, Sibbald WJ, Warshawski FJ, Yeston NS. Assessment of critical care nurses knowledge of the pulmonary-artery catheter. *Crit Care Med*, 1994; 22: 1674-1678.
36. Knaus WA, Harrell FE, Lynn J, Goldman L, Phillips RS, **Connors** AF, Jr., Dawson NV, Fulkerson WJ, Califf RM, Desbiens N, Layde P, Oye RK, Bellamy PE, Wagner DP, and the SUPPORT investigators. The SUPPORT prognostic model: prediction of survival for seriously ill hospitalized adults. *Ann Intern Med*, 1995; 122:191-203.
37. Arkes HR, Dawson NV, Speroff T, Lynn JD, Harrell FE, Alzola C, Phillips R, Desbiens N, Oye RK, Knaus W, **Connors** AF and the SUPPORT Investigators. The covariance decomposition of the probability score and its use in evaluating prognostic estimates. *Med Decis Making*, 1995;15:120-131.
38. Teno J, Hakim R, Knaus W, Wenger N, Phillips RS, Wu AW, Califf R, Layde P, **Connors** AF, Dawson

- NV, Wagner D, Lynn J. Preferences for cardiopulmonary resuscitation: physician-patient agreement and hospital resource use. *J Gen Intern Med*, 1995;10:179-186.
39. Hamel MB, Goldman L, Teno J, Lynn J, Davis RB, Harrell F, **Connors** AF Jr, Califf R, Kussin P, Bellamy P, Vidaillet H, Phillips RS for the SUPPORT investigators. Identification of comatose patients at high risk for death or severe disability. *JAMA*, 1995;273:1842-1848.
  40. The SUPPORT Investigators. Impact of an intervention to improve decision-making for seriously ill hospitalized patients. *JAMA*, 1995;275:1591-1598.
  41. Layde PM, Beam CA, Broste SK, **Connors** AF Jr., Desbiens N, Lynn J, Phillips RS, Reding D, Teno J, Vidaillet H, Wenger N. Surrogates' predictions of seriously ill patients' resuscitation preferences. *Arch Fam Med*, 1995; 4: 518-523.
  42. Phillips RS, Wenger N, Teno J, Oye R, Youngner S, Califf R, Layde P, Desbiens N, **Connors** AF Jr., Lynn J for the SUPPORT investigators. Choices of seriously ill patients about cardiopulmonary resuscitation: correlates and outcomes. *Am J Med*, 1996;100:128-137.
  43. Hsu R, **Connors** AF, Jr., Tomaszefski JF, Jr. Histologic, microbiologic and clinical correlates of the diagnosis of sarcoidosis by transbronchial biopsy. *Arch Pathol*, 1996;120:364-368.
  44. Kennard MJ, Speroff T, Puopolo AL, Follen MA, Mallatratt L, Phillips R, Desbiens N, Califf RM, **Connors** AF. Participation of nurses in decision making for seriously ill adults. *J Clin Nursing Research*, 1996;5:199-219.
  45. Wenger NS, Oye RK, Desbiens NA, Phillips RS, Teno JM, **Connors** AF, Jr., Liu H, Zemsky MF, Kussin P for the SUPPORT Investigators. The stability of do not resuscitate orders on hospital readmission. *J Clin Ethics*, 1996;7:48-54.
  46. Rosenfeld KE, Wenger NS, Phillips RS, **Connors** AF, Dawson NV, Layde PM, Califf RM, Lynn J, Liu HH, and Oye RK for the SUPPORT investigators. Factors associated with change in resuscitation preference for seriously ill patients. *Arch Intern Med*, 1996;156:1558-64.
  47. Covinsky KE, Landefeld CS, Teno J, **Connors** AF, Jr., Dawson NV, Youngner S, Desbiens N, Lynn J, Fulkerson W, Reding D, Oye R, Phillips RS. Is economic hardship on the families of the seriously ill associated with patient and surrogate care preferences? *Arch Intern Med*, 1996; 156: 1737-1741.
  48. Hakim RB, Teno JM, Harrell FE Jr., Knaus WA, Wenger N, Phillips RS, Layde P, Vidaillet H, Califf R, **Connors** AF Jr., Lynn J. Factors influencing do-not-resuscitate orders: patient preferences, prognoses, and physician judgments. *Ann Intern Med*, 1996; 125: 284-293.
  49. Phillips RS, Hamel MB, Teno J, Bellamy P, Broste S, Califf RM, Vidaillet H, Davis RB, Muhlbaier L, **Connors** AF, Lynn J, Goldman L. Race, resource use and survival in seriously ill adults. *J Gen Intern Med*, 1996; 11: 387-396.
  50. **Connors** AF, Jr., Speroff T, Dawson NV, Thomas CL, Harrell FE, Wagner DW, Desbiens N, Goldman L, Wu AW, Fulkerson WJ, Califf R, Bellamy PE, Vidaillet H, Broste SK, Knaus WA. The effectiveness of right heart catheterization in the initial care of critically ill patients. *JAMA*, 1996; 276: 889-897.
  51. **Connors** AF, Jr., Dawson NV, Thomas CL, Harrell FE, Desbiens N, Fulkerson WJ, Califf R, Kussin P, Bellamy PE, Goldman L, Knaus WA. Acute exacerbation of severe chronic obstructive lung disease: hospital and long term outcomes. *Am J Resp Crit Care Med*, 1996; 154: 959-967.
  52. Hamel MB, Phillips RS, Teno J, Lynn J, Galanos AN, Davis RB, **Connors** AF, Oye RK, Desbiens N, Reding DJ, Goldman L, for the SUPPORT investigators. Seriously ill hospitalized adults: Do we spend less on older patients? *J Am Geriatr Soc*, 1996;44:1043-1048.
  53. Renston JP, **Connors** AF Jr., DiMarco AF. A survey of physician attitudes about risks and benefits of chest CT scanning. *So Med J*, 1996;89:1067-1073.
  54. Desbiens NA, Wu AW, Broste SK, Wenger NS, **Connors** AF Jr, Lynn J, Phillips RS, Fulkerson W and the SUPPORT investigators. Pain and satisfaction with pain control in seriously ill hospitalized adults -

findings from SUPPORT. *Crit Care Med*, 1996;24:1953-1961.

55. Siddique RM, Siddique MI, **Connors** AF, Rimm AA. 30-day case fatality rates for pulmonary embolism in the elderly. *Arch Intern Med*, 1996;156:2343-2347.
56. Lynn J, Teno JM, Phillips RS, Wu AW, Desbiens N, Harrold J, Claesens MT, Wenger N, Kreling B, **Connors** AF Jr. Perceptions by family members of the dying experience of older and seriously ill patients: the SUPPORT study. *Ann Intern Med*, 1997;126:97-106.
57. FitzGerald JD, Wenger NS, Califf RM, Phillips RS, Desbiens NA, Liu H, Lynn J, Wu AW, **Connors** AF Jr, Oye RK. Functional status among survivors of in-hospital cardiopulmonary resuscitation. *Arch Intern Med*, 1997;157:72-76.
58. Lynn J, Harrell FH Jr., Cohn Felicia, Wagner D, **Connors** AF Jr. Prognoses of seriously ill hospitalized patients on the days before death: implications for patient care and public policy. *New Horizons*, 1997;5:56-61.
59. Desbiens NA, Wu AW, Alzola C, Mueller-Rizner N, Wenger NS, **Connors** AF Jr., Lynn J, Phillips RS, Fulkerson W and the SUPPORT Investigators. Pain during hospitalization is associated with continued pain six months later in survivors of serious illness. *Am J Med*, 1997;102:269-276.
60. Teno J, Lynn J, Wenger N, Phillips RS, Murphy DP, **Connors** AF, Desbiens N, Fulkerson W, Bellamy P, Knaus WA. Advance directives for seriously ill hospitalized adults: effectiveness of the patient self-determination act and the SUPPORT intervention. *J Am Geriatr Soc*, 1997; 45:500-507.
61. Teno J, Licks S, Lynn J, Wenger N, **Connors** AF, Phillips RS, O'Connor MA, Murphy DP, Fulkerson W, Desbiens N, Knaus WA. Do advance directives provide instructions that direct care? *J Am Geriatr Soc*, 1997; 45:508-512.
62. Teno J, Lynn J, **Connors** AF, Wenger N, Phillips RS, Alzola C, Murphy DP, Desbiens N, Knaus WA. The illusion of end-of-life resource savings with advance directives. *J Am Geriatr Soc*, 1997; 45:513-518.
63. Desbiens NA, Mueller-Rizner N, **Connors** AF Jr., Wenger NS. The relationship of nausea and dyspnea to pain in seriously ill patients. *Pain*, 1997;71:149-156.
64. Hamel MB, Phillips RS, Davis RC, Desbiens N, **Connors** AF Jr., Teno J, Wenger N, Lynn J, Wu A, Fulkerson WJ, Tsevat J. Outcomes and costs of renal dialysis for seriously ill patients. *Ann Intern Med*, 1997;127:195-202.
65. Desbiens NA, Mueller-Rizner N, **Connors** AF, Jr., Hamel MB, Wenger NS. Pain in the Oldest-old during hospitalization and up to one year later. *J Am Geriatr Soc*, 1997; 45:1167-1172.
66. Galanos AN, Pieper CE, Kussin PS, Winchell MT, Fulkerson WJ, Harrell FE Jr., Teno, JM, Layde P, **Connors**, AF Jr., Phillips R, Wenger NS. The relationship of body mass index to subsequent mortality among seriously ill patients. *Crit Care Med*, 1997;25:1962-1968.
67. Wenger NS, Greengold NL, Oye RK, Kussin P, Phillips RS, Desbiens NA, Liu H, Hiatt JR, Teno JM, **Connors** AF for the SUPPORT Investigators. Do not resuscitate orders in the operating room. *J. Clin Ethics*, 1997;8:250-257.
68. Hofmann JC, Wenger NS, Davis RB, Teno JM, **Connors** AF Jr., Desbiens N, Lynn J, Phillips RS. Patients' preferences for communications with physicians about end-of-life decisions. *Ann Intern Med*, 1997;127:1-12.
69. Mattimore T, Wenger N, Phillips RS, **Connors** AF, Desbiens N, Califf R, Lynn J, Teno JM, Knaus WA. Living permanently in a nursing home: Patients preferences and surrogate and physician understanding. *J Am Geriatr Soc*, 1997;45:818-824.
70. Puopulo AL, Kennard MJ, Mallatratt L, Follen MA, Califf R, Desbiens NA, **Connors** AF Jr., Phillips RS. Discussion between nurses and patients about preferences for cardiopulmonary resuscitation. *Image*, 1997;29:229-235.

71. Roach MJ, **Connors** AF Jr., Dawson N, Speroff TS, Wenger Neil, Wu AW, Tsevat J, Schubert DSP. Depressed mood and its relationship to physical functioning, severity of illness and mortality. *Arch Intern Med*, 1998;158:397-404.
72. Zhong Y, Bowlin S, Einstadter D, Cebul R, **Connors** AF Jr., Rimm AA. Atrial fibrillation as a risk factor for embolic and non-embolic stroke: a population based study in the elderly. *Am J Publ Health*, 1998;88:395-400.
73. Weeks JC, Cook EF, O'Day SJ, Peterson, LM, Wenger N, Reding D, Harrell FE, Kussin P, Dawson NV, **Connors** AF Jr., Lynn J, Phillips RS. Relationship between cancer patients' predictions of prognosis and their treatment choices. *JAMA*, 1998;279:1709-1714.
74. Desbiens NA, Wu AW, Yasui Y, Lynn J, Alzola C, Wenger NS, **Connors** AF Jr, Phillips RS, Fulkerson W and the SUPPORT investigators. Patient empowerment and feedback does not decrease pain in seriously ill hospitalized adults. *Pain*,1998;75:237-246.
75. Cooper GS, Chak A, **Connors** AF, Harper DL, Pine M, Rosenthal GE. The effectiveness of early endoscopy for upper gastrointestinal hemorrhage: a community based analysis. *Medical Care*, 1998;36:462-474.
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**MANUSCRIPTS:** Editorials, invited manuscripts

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131. **Connors, AF Jr.** Right heart catheterization: Is it effective? *New Horizons* 1997;5:195-200.
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135. Provencio J, Bleck T, **Connors AF, Jr.** Update in Critical Care Neurology. *Am J Resp Crit Care Med,* 2001;164:341-345.
136. **Connors, AF, Jr.** Equipoise, power, and the pulmonary artery catheter. *Intensive Care Med* 2002;28:225-226.

137. **Connors**, AF, Jr. The transformation of medicine: the role of outcomes research. *Obes Res.* 2002 Nov;10 Suppl 1:3S-5S.
138. Watson RS, Bernard GR, **Connors** A. The Connors et al PAC Study. *J Crit Care.* 2005;20:181-6.

## BOOKS AND CHAPTERS

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144. **Connors** AF, Altose MD. Pleural anatomy, pleural fluid dynamics and the diagnosis of pleural disease. Chapter 76. In: Wolinsky E, Baum GL, eds. *Textbook of Pulmonary Disease, 4th Edition.* Boston: Little, Brown and Co., pp. 1589-1595, 1989.
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146. **Connors** AF, Altose MD. Hemothorax, chylothorax, pneumothorax and other pleural disorders. Chapter 78. In: Wolinsky E, Baum GL, eds. *Textbook of Pulmonary Disease, 4th Edition.* Boston: Little, Brown and Co., pp. 1589-1595, 1989.
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Hall, 1997.

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**MANUSCRIPTS:** Accepted for publication, in press.

157. Boles JM, Bion J, **Connors** AF, Herridge M, Marsh B, Melot C, Pearl R, Stanchina M, Veillard-Baron A, Welte T. Weaning from Mechanical Ventilation. Am J Resp Crit Care Med, In press, 2006
158. Connors AF, Jr. A fresh look at the weaning process. Intensive Care Med, In Press, 2006

**MANUSCRIPTS:** Submitted for publication

159. Kilbridge KL, Fraser G, Krahn M, Conaway M, Bashore R, Wolf A, Gong D,, Robert F. Nease RF, Jr., **Connors** AF, Jr., Comprehension of Common Prostate Cancer Terms: Results from an Underserved Population. Submitted for Publication

**GRANT SUPPORT:** Completed

American Lung Association of Northern Ohio.  
Regulation of Respiration in the Adult Respiratory Distress Syndrome,  
Alfred F. **Connors**, Jr., Principal Investigator, 40% effort.  
7/1/83 to 8/30/85, Total award \$32,145.

Cuyahoga County Hospital Foundation.  
Regulation of Respiration in Interstitial Lung Disease,  
Alfred F. **Connors**, Jr., Principal Investigator, 40% effort.  
1/1/86 to 12/31/86, Total award \$17,479.

American Heart Association.  
Prediction of Hemodynamic Status in Critically-Ill Patients,  
Alfred F. **Connors**, Jr., Principal Investigator, 25% effort.  
7/1/86 to 6/30/88, Total award \$39,083.

Robert Wood Johnson Foundation. Grant #13726.  
Program on the Care of Critically Ill Adults (Phase I).  
Alfred F. **Connors**, Jr., Principal Investigator, 40% effort.  
9/1/88 to 10/31/90, Total Direct Costs \$810,483.

Robert Wood Johnson Foundation. Grants #17506 and 18606.  
Program on the Care of Critically Ill Adults (transition from Phase I to Phase II).  
Alfred F. **Connors**, Jr., Principal Investigator, 40% effort.  
11/1/90 to 10/31/91, Total Direct Costs \$511,358.

National Institute of Health. NO1 - HR 46020  
Early Intervention for Chronic Obstructive Lung Disease.  
Murray D. Altose, M.D., Principal Investigator.  
Alfred F. **Connors**, M.D., Co-Principal Investigator, 10% effort.  
10/1/86 to 9/30/93, Total Direct Costs approximately \$3,000,000.

Agency for Health Care Policy Research. RO1-HS-06754-01  
A Model of Patients' Preferences in Serious Illness.

Neal V. Dawson, M.D., Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-Investigator, 10% effort  
4/1/91-12/31/93, Total Direct Costs \$98,951.

Robert Wood Johnson Foundation. Grant # 20856  
Hospitalized Elderly Longitudinal Program  
Alfred F. **Connors**, M.D., Principal Investigator, 10% effort.  
12/1/92 to 11/31/94, Total Direct Costs: \$174,646

Robert Wood Johnson Foundation. Grant # 23004  
MediCaring: Demonstration of an Alternative for Financing Home Health Care  
Alfred F. **Connors**, M.D., Principal Investigator, 5% effort.  
12/1/93 to 11/31/94, Total Direct Costs: \$35,811

Robert Wood Johnson Foundation. Grant # 19199  
Program on the Care of Critically Ill Adults (Phase II).  
Alfred F. **Connors**, M.D., Principal Investigator, 20% effort.  
11/1/91 to 6/30/96, Total Direct Costs \$2,092,098.

National Heart Lung and Blood Institute  
National Institute of Health. NO1 - HL 50292-02  
Clinical Trial of Inhaled Steroids in Chronic Obstructive Lung Disease.  
Murray D. Altose, M.D., Principal Investigator.  
Alfred F. **Connors**, M.D., Co-Principal Investigator, 10% effort.  
9/1/95 to 8/31/96, Total Direct Costs approximately \$139,744.  
**GRANT SUPPORT:** Completed (continued)

National Institute of Aging  
Aging: End of Life Care of Hospitalized Cancer Patients  
Julia H Rose, Ph.D., Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Consultant, 5% effort  
Total Direct Costs: \$163,551

Agency for Health Care Policy and Research  
Medical Treatment Effectiveness Program # RO1-HS08354-01  
Right Heart Catheterization: Outcomes and Effectiveness  
Alfred F. **Connors**, Jr., M.D., Principal Investigator, 30% effort  
9/30/96 - 6/30/99, Total Direct Costs: \$783,156

Cerner Corporation  
Development of health risk assessment models and tools  
Health Evaluations Sciences Subcontract  
Alfred F. **Connors**, Jr., Project Director, 10% effort  
6/1/98 – 12/31/99, Total direct costs: \$217,940

National Institute for Child Health and Human Development # R21-HD36984  
Title: Efficacy of muscle tendon surgery in cerebral palsy: Planning grant  
Mark Abel, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-investigator, 5% effort  
9/01/98-8/31/99, Total Direct Costs: \$50,000

Centocor, Inc.  
Title: Incidence of lymphoma in patients with Crohn's disease.  
Fabio Cominelli, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-investigator, 5% effort  
9/01/98-8/31/00, Total direct costs: \$77,499

First Hospital Corporation Research Funding Agreement  
Title: Center for Behavioral Health Outcomes  
John A. Hunter, PhD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-investigator, 5% effort

10/1/98 – 3/31/00, Total Direct Costs: \$253,500

Robert Wood Johnson Foundation

Title: Virginia Medicare/Medicaid Integration Project

Dennis G. Smith, Project Director

Alfred F. **Connors**, Jr., M.D., Co-investigator, 2% effort

10/01/98-9/30/00

Department of Veterans Affairs, #11R-99257-1

Title: Automated ICU Risk Adjustment Performance

Marta L. Render, MD, Principal Investigator

Alfred F. **Connors**, Jr., M.D., Co-investigator, 15% effort

7/1/00 – 6/30/02, Total Direct Costs: \$503,400

National Heart, Lung and Blood Institute, #N01-HR-16154

Clinical Center for the Clinical Network for the

Treatment of the Adult Respiratory Distress Syndrome

Alfred F. **Connors**, Jr., MD, Principal Investigator, 20% effort

10/31/00 – 10/30/03, Total Direct Costs: \$496,087

National Center for Complimentary and Alternative Medicine, #K30-AT-00060-01

Complimentary and Alternative Medicine Clinical Research Curriculum Program

Anne Taylor, RN, PhD, Principal Investigator

Alfred F. **Connors**, Jr., M.D., Co-investigator, 5% effort

9/1/00 – 8/31/05, Total Direct Costs: \$1,558,373

Department of Defense, #DAMD 17-00-10106

Title: Utility assessment for prostate cancer screening among African American men

Kerry Kilbridge, MD, Principal Investigator

Alfred F. **Connors**, Jr., M.D., Co-investigator, 5% effort

7/1/00 – 6/30/03, Total Direct Costs: \$332,460

Agency for Health Care Research and Quality, #RO1 HS10134-01A2

Title: Administrative data and general comorbidity models

George J. Stukenborg, Ph.D., Principal Investigator

Alfred F. **Connors**, Jr., M.D., Co-investigator, 20% effort

5/1/01 – 4/30/03, Total Direct Costs: \$335,907

Crohn's & Colitis Foundation of America

Title: Patient preferences and treatment decisions in Ulcerative Colitis

Alfred F. **Connors**, Jr., MD, Principal Investigator, 15% effort

7/01/01 – 6/30/03, Total direct costs: \$229,610

National Institute of Neurological Disorders and Stroke, #1-K23-NS-02168-01-NST

Mentored Patient-Oriented Research Career Development Award

Title: A predictive risk model for acute ischemic stroke

Karen C. Johnston, MD, Principal Investigator

Alfred F. **Connors**, Jr., M.D., Co-Mentor, 5% effort

5/1/00 – 4/30/05, Total Direct Costs: \$661,141

Agency for Health Care Research and Quality, #KO2-HS-11419-01

Independent Scientist Award, KO2

Title: Mortality risk adjustment using hospital claims data

George J. Stukenborg, Ph.D., Principal Investigator

Alfred F. **Connors**, Jr., M.D., Mentor, 5% effort

Total Direct Costs: \$209,493

**GRANT SUPPORT:** Active

NIH/NCRR Case Multidisciplinary Clinical Research Training Program, #8 K12RR023264-02  
This program is a collaboration involving Case Western Reserve University, Cleveland Clinic Foundation, University Hospitals of Cleveland, MetroHealth Medical Center, and Cleveland VA Medical Center.  
Rudick, Richard, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co- Principal Investigator (confirmation pending) 15% effort  
09/23/04 - 07/31/09

National Heart, Lung, and Blood Institute, #HHSN268200536168C  
Title: "Clinical research network for the treatment of Acute Lung Injury (ALI) and the Acute Respiratory Distress Syndrome (ARDS)"  
Herbert Weidemann, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co- Principal Investigator  
9/30/05 - 9/29/12, Total Direct Costs: \$1,345,390 5% effort

National Institute of Child Health and Human Development, RO1 HD030053-07A1  
Title: "Assessment of Growth Hormone Use in Short Children"  
Leona Cuttler, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-Investigator 2.5% effort  
9/30/05 - 9/30/10, Total Direct Costs: \$1,986,754

National Cancer Institute, #KO7-CA-85754-01  
Cancer Prevention and Control Career Development Award, K07  
Title: Prostate cancer utilities among African-American males  
Kerry Kilbridge, MS, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-Mentor, 2.5% effort  
5/1/01 - 4/30/06, Total Direct Costs: \$612,046

National Heart Lung and Blood Institute, RO1  
Title: Economic Analysis of the Pulmonary Artery Catheter  
Derek Angus, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Consultant, 2.5% effort  
12/01/01 - 11/30/05, Total Direct Costs: \$2,502,324

**GRANT SUPPORT:** Submitted/Under consideration:

National Heart Lung and Blood Institute, K23  
Title: TSP-1: A mediator of sepsis induced lung injury  
Naeem Ali, MD, Principal Investigator  
Alfred F. **Connors**, Jr., M.D., Co-Mentor 10% effort  
7/01/05 - 6/30/10, Total Direct Costs: \$632,678

**Current Trainees:**

2000 – present	George Stukenborg, PhD	Junior Faculty, Co-Mentor on KO2
2000 – present	M. Norman Oliver, MD	Junior Faculty, Co-Mentor on KO7
1998 – present	Kerry L. Kilbridge, MD, MS	Junior Faculty, Co-Mentor on K07
1997 – present	Karen C. Johnston, MD, MS	Junior Faculty, Co-Mentor on K23
2004 - present	Naeem Ali, MD	Junior faculty, Co-mentor on K23 (pending)

**Previous Trainees (since 1994):**

2000 – 2002	Sydney Rice, MD	Fellow, Pediatric Rehabilitation, Mentor, NRSA award
1999 – 2002	Renee Friday, MD	Fellow, Pediatric Cardiology, Masters Student, Mentor for thesis
2000 – 2002	Elena Farace, PhD	Junior Faculty, Mentor on KO7, subsequently funded
2001 - 2002	Heather Evans, M.D.	Resident, General Surgery, Mentor, NRSA award Masters Student, Mentor for thesis
2001 - 2002	Tanya Fatovich, MD	Masters Student, Mentor for thesis
1998 – 2001	Elizabeth Cook, RN, PhD	Advisor on Doctoral Thesis
2000 – 2001	Carolyn Alimeco, MS	Masters Student, Mentor for thesis
1999 – 2000	Kristen Arseneau, MS	Masters Student (Degree 8/00) Currently, Instructor of Research, UVA
1997 – 2000	John Owen, MS	Masters Student (Degree 5/00) Currently, Director of Research, Center for the Advancement of Generalist Medicine, UVA
1998 – 1999	Nancy Brecheisen, MD, MS	Fellow, Pulmonary and Critical Care Masters Student (Degree 5/99) Currently, Private Practice
1998 – 1999)	Kateri H. Heydon, MS	Masters Student (Degree 5/99) Currently, Research Associate, University of Pennsylvania
1998 – 1999	Denise C. Daly, MS	Masters Student (Degree 5/99) Currently Research Faculty, Department of Medicine, VCU-MCV
1997 – 1999	Walden Garris, MD, MS	Fellow, General Internal Medicine Masters Student (Degree 5/98) Currently Faculty, General Internal Medicine, Vanderbilt University
1997 – 1999	Michael Fisch, MD, MPH	Junior Faculty (Research Mentor) Currently Faculty, M.D. Anderson Cancer Center Symptom Control & Palliative Care

1995 – 1997	Reshmi Siddique, PhD	Doctoral Candidate (Degree 5/97) Currently Research Scientist, Johnson & Johnson Jansen Research Foundation
1995 – 1996	Yuan Zhong, PhD	Doctoral Candidate (Degree 5/96) Currently Faculty, Epidemiology and Biostatistics, Case Western Reserve University
1994 – 1996	Priit Jaagosild, MD	Resident, Internal Medicine Currently Fellow in Cardiology
1994 – 1996	James Sexton, MD MS	Fellow, Pulmonary and Critical Care Currently Faculty, Pulmonary and Critical Care, Syracuse University