

Curriculum Vitae

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David M. Mannino, M.D.

Professor and Chair

Kurt W. Deuschle Endowed Chair in Preventive Medicine & Environmental Health

Department of Preventive Medicine and Environmental Health

University of Kentucky, College of Public Health

General Information

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Certification: American Board of Internal Medicine, 1984
ABIM, Pulmonary Medicine, 1990, 2000, 2010
NIOSH B Reader, 1991-1995

Medical Licensure:

By examination

1982 Pennsylvania

By reciprocity

1984 Kentucky

1988 West Virginia

1991 Georgia

Military Status: United States Public Health Service (retired, Captain)

Education

B.S. - 1979 (Science) The Pennsylvania State University, State College, Pennsylvania

M.D. - 1981 (Medicine) Jefferson Medical College, Philadelphia, Pennsylvania

Internship, Internal Medicine - 1981-1982 Lankenau Hospital, Philadelphia, Pennsylvania

Residency, Internal Medicine - 1982-1984 Lankenau Hospital, Philadelphia, Pennsylvania

Fellowship, Pulmonary Medicine - 1988- 1991 West Virginia University School of
Medicine/ National Institute for Occupational Safety and Health (NIOSH);
Morgantown, WV

Professional Experiences

1984-1988	Medical Staff Officer, Federal Correctional Institution, Lexington, KY
1988-1991	Medical Officer, Clinical Investigations Branch, Division of Respiratory Disease Studies (DRDS), NIOSH, Morgantown, WV
1991-2004	Pulmonologist/Medical Epidemiologist, Air Pollution and Respiratory Health Activity, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA
1997-2004	Section Chief, Analytic Epidemiology Section, Air Pollution and Respiratory Health Activity, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA
2004-present	Clinician/Scientist, University of Kentucky Medical Center, Division of Pulmonary and Critical Care Medicine, Lexington, KY
2004-present	Director, Pulmonary Epidemiology Research Laboratory (PERL), College of Public Health, Department of Preventive Medicine, Lexington, KY

Academic Appointments

1986-1988	Clinical Assistant Professor, Department of Medicine, University of Kentucky, Lexington, KY
1988-1991	Adjunct Instructor, Pulmonary and Critical Care Section, Department of Medicine, West Virginia University School of Medicine, Morgantown, WV
1991-2004	Adjunct Assistant Professor in the Division of Environmental and Occupational Health, Emory University School of Public Health, Atlanta, GA
1991-2001	Clinical Instructor in Medicine, Pulmonary Division, Emory University School of Medicine, Atlanta, GA
2001-2004	Clinical Professor of Medicine, Pulmonary Division, Emory University School of Medicine, Atlanta, GA
2004-2010	Associate Professor of Medicine, University of Kentucky Medical Center, Division of Pulmonary, Critical Care and Sleep Medicine, Lexington, KY
2005-2010	Associate Professor, College of Public Health, Department of Preventive Medicine, Lexington, KY
2010-present	Professor of Medicine, University of Kentucky Medical Center, Division of Pulmonary, Critical Care and Sleep Medicine, Lexington, KY
2010-present	Professor, College of Public Health, Department of Preventive Medicine, Lexington, KY
2012-present	Professor and Chair, College of Public Health, Department of Preventive Medicine and Environmental Health, Lexington, KY
2015-present	Kurt W. Deuschle Endowed Chair in Preventive Medicine & Environmental Health, University of Kentucky, Lexington, KY
2013-present	Director of Graduate Studies, Master of Science in Clinical Research Design Program (2013-present)

Hospital Appointments

1986-1988	Veterans Administration Medical Center, Lexington, KY, Part-time
1988-1991	West Virginia University School of Medicine Hospital, Morgantown, WV, Full-time
1991-2004	Veterans Administration Medical Center, Atlanta, GA, Part-time
2004-present	University of Kentucky Medical Center, Lexington, KY, Part-time
2004-2011	Veterans Administration Medical Center, Lexington, KY, Part-time

Consultative Service

International

World Health Organization, Environmental Tobacco Smoke Workshop, May 2000
World Health Organization, Chronic Respiratory Disease Workshop, June 2004
Burden of Lung Disease Project, 2003- present
Global Burden of Disease – Co-Coordinator of Respiratory Section 2007-2010
World Health Organization, Respiratory Working Group, April 2010-present
WHO- ICD-11 Revision Committee, 2011-present

National

National Lung Health Education Program, 1999-present
USCOPD Coalition, 2001-present
Centers for Disease Control, 2004-present
Alpha 1 Foundation – Chair of Epidemiology Working Group, 2008-present
COPD Foundation – Board of Directors (2004- present)
COPD Foundation – Chair, Medical and Scientific Advisory Committee (2011-2015)
COPD Foundation – Chief Scientific Officer (2015-present)

Teaching Activities

University of Kentucky, CPH 911, Advanced Epidemiology Seminar, 2009-present
University of Kentucky, CPH 601, Environmental Health. Introduction to Environmental Health, 2008 to present
University of Kentucky, NUR 904: Epidemiology Applied to the Design and Evaluation of Nursing and Health Services, Fall 2008
University of Kentucky Pulmonary Fellows Lecture Series, 2004-present
COPD
Emory University Pulmonary Fellows Lecture Series, 1997-2004
Epidemiology, Creating a Research Agenda, COPD, Cadmium and the Lung
Emory University Summer Pulmonary Course, 2003
Epidemiology of COPD, Environmental Tobacco Smoke Exposure
University of Georgia, 2002-2003
Air Pollution in the Developed World
American College of Chest Physicians, Pulmonary and Critical Care Update, 2003

COPD in the Never Smoker
http://www.chestnet.org/education/online/pccu/vol16/lessons23_24/lesson23/index.php
 American College of Chest Physicians
 COPD Mortality – That was Then, This is Now, 2002
<http://www.chestnet.org/downloads/copd.pdf>

Advising Activities

Dr. Kristine Lain for her K-23 Application “Prognostic significance of adverse pregnancy outcomes for cardiometabolic disease”, Advisory Committee	2006-2009
Dr. James Temprano on his grant applications “Oral Contraceptive Use and Asthma Control” and “Monitoring and Outcome Measures in Asthmatics and Smokers (MOMAS) During Pregnancy”, Advisory	2006-2009
Dr. Don Hayes on his Robert Wood Johnson grant application “Understanding and Improving Asthma Disparities in Rural Kentucky”, Advisory	2008-2011
Dr. David Hiestand on his project “Sleep and Sleep Deprivation in Critically Ill, Mechanically Patients”, Advisory	2005-2008
Dana Hazen, Master student, College of Public Health, on her Capstone Project, Advisory	2005-2008
Jennifer Methvin, Master student, College of Public Health, Capstone Committee Member	2005-2007
Naomi Hudson, DrPH student, College of Public Health, Chair, Capstone Committee	2008-2010
Anand Vaishnav, M.D., MPH student, College of Public Health, Capstone Committee Member	2007-2008
Anna Barry, MPH student, College of Public Health, Capstone Committee Chair	2008-2009
Monica Clouse, MPH student, College of Public Health, Capstone Committee Chair	2008-2009
Heather Prentice, MPH student, College of Public Health, Capstone Committee Chair	2008-2009
Lloyd Asher, MPH student, College of Public Health advisee	2008-2009
Jackie Cassidy, MPH student, College of Public Health advisee	2009-2010
Michael Mitchell, MPH student, College of Public Health Capstone Committee Chair	2009-2010
Ashley Eason, MPH student, College of Public Health Capstone Committee Chair	2009-2010
Patrick McGuire, MPH student, College of Public Health Capstone Committee Chair	2009-2010
Michele Burwinkle, MPH student, College of Public Health Capstone Committee Chair	2009-2010
Lisandra Garcia, MPH student, College of Public Health Capstone Committee Member	2009-2010
Katarina Kehl, MPH student, College of Public Health Capstone Committee Member	2009-2010

Jacki Cassidy, MPH Student, College of Public Health Capstone Chair	2010-2011
Keisha Houston, DrPH Student, College of Public Health Capstone Chair	2010-2011
Kaylen Smith, MPH Student, College of Public Health Capstone Committee Member	2011
Seth Siameh, MPH Student, College of Public Health Capstone Committee Chair	2011-2016
Deepa Valvi, DrPH Student, College of Public Health Capstone Committee Chair	2011-2012
Erin Kaufman, DrPH Student, College of Public Health Capstone Committee Member	2011-2012
Brad Schulte, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Claudia Valdivesio, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Shana Davis, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Sunny Chanthavongsa, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Huston Hastie, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Meaghan Towle, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Mohamed Saeed, MPH Student, College of Public Health Capstone Committee Chair	2011-2012
Zheng Huang, MPH Student, College of Public Health Capstone Committee Member	2012
Diana Popa, MPH Student, College of Public Health Capstone Committee Chair	2012
Samah Hayek, DrPH Student, College of Public Health Capstone Committee Chair	2012-2013
Janie Leech, DrPH Student, College of Public Health Capstone Committee Chair	2012-2014
Ibitola Asaolu, MPH Student, College of Public Health Capstone Committee Member	2013
Charity Andrews, MPH Student, College of Public Health Capstone Committee Member	2013
Lauren Birkelbach, MPH Student, College of Public Health Capstone Committee Chair	2013
David Haddad, MPH Student, College of Public Health Capstone Committee Member	2013
Raymond Hicks, MPH Student, College of Public Health Capstone Committee Member	2013
Lea Jacobsen, MPH Student, College of Public Health	

Capstone Committee Member	2013
Abdulbaset Kamour, DrPH Student, College of Public Health	
Capstone Committee Chair	2014
Sarah Kim, MPH Student, College of Public Health	
Capstone Committee Chair	2014
Tyler McGrady, MPH Student, College of Public Health	
Capstone Committee Chair	2014
Ellen Lycan, DrPH Student, College of Public Health	
Capstone Committee Member	2014
Evelyn Thomas, MPH Student, College of Public Health	
Capstone Committee Member	2014
Allison Christian, MPH Student, College of Public Health	
Capstone Committee Member	2015
John Flunker, MPH Student, College of Public Health	
Capstone Committee Chair	2015
Kasandra Lambert, MPH Student, College of Public Health	
Capstone Committee Member	2015
Brent Weber, DrPH Student, College of Public Health	
Capstone Committee Member	2013-2016
Devon Collins, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
Scott Blakeman, MPH Student, College of Public Health	
Capstone Committee Member	2015-2016
Yaillet Cruz, MPH Student, College of Public Health	
Capstone Committee Member	2015-2016
Molly Reese, MPH Student, College of Public Health	
Capstone Committee Member	2015-2016
Shreya Berlia, MPH Student, College of Public Health	
Capstone Committee Member	2015-2016
Kady Rogers, MPH Student, College of Public Health	
Capstone Committee Member	2015-2016
Dana Seay, MPH Student, College of Public Health	
Capstone Committee Member	2013-2016
Manny Singh, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
Jordan Perkins, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
William Witt, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
Whitney Remy, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
Margo Sketch, MPH Student, College of Public Health	
Capstone Committee Chair	2015-2016
Mina Hanna, MSCRD Student, College of Public Health	
Thesis Committee Chair	2015-2016

Robert Ore, MSCRD Student, College of Public Health Thesis Committee Chair	2015-2016
Jeremiah Martin, MSCRD Student, College of Public Health Thesis Committee Chair	2015-2016

Administrative Activities

Section Leader, Air Pollution and Respiratory Health Branch, 1997-2002
Responsible for leading team of 6 scientists in analysis and reporting of data.

Scientific Director, Air Pollution and Respiratory Health Branch, 2002-2004
Responsible for scientific oversight in Branch of 40 scientists and public health workers.

Director, Southeast Center for Agricultural Health and Injury Prevention. 2012-present
Director of Graduate Studies, Master of Science in Clinical Research Design Program

Special Assignments

NCEH representative to the CDC internal working group investigating the relationship between mold exposure and pulmonary hemorrhage in children.

Committee member, Neurology 6-year review, University of Kentucky Medical Center, 2005-2006

Study Section: National Institutes of Health, Special Emphasis Panel (July 2006)

NIH Study Section: Reviewer for Epidemiology of Respiratory Diseases (2006)

National Academy of Science: Member of Committee to review the NIOSH Respiratory Disease Program (2006-2007)

Consultant: National Institutes of Health - Link between COPD and Lung Cancer (Workshop June 2007)

Consultant: Global Burden of Disease Project (funding by Gates Foundation), respiratory disease section. (Jan 2008-present)

Consultant: European Respiratory Society, White Book of Respiratory Disease Review (June 2008-present)

Consultant: Institute of Medicine, Committee on a National Surveillance System for Cardiovascular and Select Chronic Diseases (2010-2011)

Chair- Task Force for Organizational Structure, University of Kentucky College of Public Health (2013)

Honors and Awards

Top Specialist in COPD in the United States 2013, 2014, 2015 (Expertscape
<http://www.expertscape.com/ex/copd>)

COPD Foundation Award for Development of the Pocket Consultant Guide, 2013

Faculty of 1000 – Global Faculty of Experts, United Kingdom, 2009
QFORMA's Most Influential Doctors - 2009

USPHS Awards

Meritorious Service Medal 1984-2004- For an exemplary career in the USPHS

Commendation, 1999 - For development of CDC Surveillance Summary on Asthma

Unit Commendation, 1997 - For work on task force investigating 1995 cigarette recall

Commendation, 1996 - For exemplary leadership in increasing public awareness of dangers of environmental tobacco smoke exposure

Commendation, 1995 - For exemplary work demonstrating the association between smoking and sexual dysfunction in men

Outstanding Unit Citation, 1994 - For work on task force investigating health effects related to fuel exposures

Unit Commendation, 1992 - For work on respirator testing program

Citation, USPHS, 1992 - For working to enact a Clean Indoor Air ordinance in a community

Achievement Award, USPHS, 1990 - For exemplary performance of clinical duties

Other Awards

Soffer Research Award, American College of Chest Physicians, 2003 (for best scientific abstract at scientific meeting)

Advocate of the Year, American Lung Association, 2003 (for work on smoking ordinance in DeKalb County, Georgia)

DuPont Young Investigator Award, American College of Chest Physicians, 1994 (for work examining the health effects of environmental tobacco smoke exposure in children)

Affiliates Forum, American College of Chest Physicians, 1989 (for work on hypersensitivity pneumonitis)

Professional Activity and Public Services

American College of Chest Physicians, fellow	
Chair of Environmental and Occupational Health Section	1998-1999
American Thoracic Society, member	1988-present
Georgia Thoracic Society, member	1991-2004
European Respiratory Society, member	2003-present
American Lung Association National Action Panel, member	2003-2006
COPD Foundation, board member	2004-present

ACCP Workshop Panel on Anxiety and Depression in COPD, member	2007
Clean Indoor Air Partnership Advisory Board	2007-present

University Service

Six Year Review Committee, Department of Neurology, COM	2006-07
College of Public Health Research Committee	2009-2012
University of Kentucky Health Care Secondhand Smoking Steering Committee	2009-present
University of Kentucky Faculty Council Officer	2009-2012
Health Care Clinical Services Area Advisory Committee	2011-2012
College of Public Health Administrative Council	2012-present

Speaking Engagements

International

2004, World Health Organization, Assessing COPD in the General Population
4/25/2006, “COPD: Mortality and Beyond” Toronto, ON. (Symposium)
6/3/2006, “Recent Advances on the Comprehensive Treatment of Chronic Obstructive Pulmonary Disease” International Symposium, Japanese Respiratory Society, Tokyo, Japan.
6/27/2006, “Race and Gender Differences in COPD” COPD5 International Meeting, Birmingham, UK
10/27/2006, “The Changing Burden of COPD”, COPD: New Developments, Verona, Italy
2/10/2007, “Complex Comorbidities in COPD”, COPD seminar, Rome, Italy
9/1/2007, European Respiratory Society, Health Effects of Smoking-Epidemiology of COPD –Lower Limit of Normal
2007, Astra-Zeneca Pharmaceuticals, Comorbidities of COPD
6/15/2007, “COPD and Comorbid Disease” COPD Symposium, Lisbon, Portugal
9/17/2007, “COPD, comorbid disease, and outcomes” European Respiratory Society, Stockholm, Sweden
9/17/2007, “Health Effects of Smoking – Epidemiology of COPD – Lower Limit of Normal”, European Respiratory Society, Sweden
10/6/2007, “Morbidity, Mortality and Costs of COPD and Asthma Exacerbations” 1st International Conference in COPD Exacerbations, San Juan, PR
4/8/2008, Madrid Pulmonology Association, “End-of-Life Decision Making”, Madrid, Spain
4/8/2008, Madrid Pulmonology Association, “Restrictive Diagnosis”, Madrid, Spain
10/2/2008, “COPD in the West” Guangzhou International Forum on COPD & Sleep Disordered Breathing, China
10/31/2008, Italian Society of Respiratory Disease, Restriction on Spirometry
10/31/2008, “Cadmium and Lung Cancer; The Benefits of Atopy; Exactly what is

Disease Progression?" Centre for Research in Environmental epidemiology, CREAL Seminar, Barcelona, Spain

11/21-22/2008, "COPD and Related Disorders", COPD2day: Looking at a Better Life for Patients, Rome, Italy

2/6-7/2009, "COPD Update" COPD: Reactive Past, Preventive Future, COPD Conference, Vancouver, British Columbia

6/22/2009, "Treatment Initiation Strategies: A Critical Review", The Asia Pacific Experts' Forum on COPD, Ho Chi Minh City, Vietnam

6/23/2009, "What are the Asia-specific needs in COPD? Lung-Function Values?" The Asia Pacific Experts' Forum on COPD, Ho Chi Minh City, Vietnam

9/13/09, "What Defines Abnormal Lung Function?" Symposium: Natural History of COPD, European Respiratory Society, Vienna, Austria

11/13/09, "The Real Impact of COPD on the Patient" Are We On A Changing Course of Management in COPD, Korea

6/29/10, "Gold Stage 1: Is It A Disease?" COPD7, Birmingham, UK

6/30/10, "Defining Obstruction – The Fixed Ration vs the Lower Limit of Normal" COPD7, Birmingham, UK

9/24/10, "Historia naturalna POChP" Reducing the Burden of COPD Conference, Warsaw, Poland

3/1/11, "COPD and Complex comorbidities", Italian Respiratory Society, Modena, Italy.

6/13/11, "Asthma and COPD overlap", European association of Allergy and Clinical Immunology, Istanbul, Turkey.

10/23/11, "Epidemiology of Comorbidities of COPD", Consensus Conference, Venice, Italy.

1/21-22/12, "COPD: The Big Picture", COPD Masterclass, Dubai, UAE

1/21/12, "Implications of the 2011 GOLD Document Revision", COPD Masterclass, Dubai, UAE

1/21/12, "Case Study Workshop", COPD Masterclass, Dubai, UAE

4/16-20/12, "Treatment of COPD", Wuhan, Xi'an, Chengdu, Nanjing, China

5/12/12 – The Old Patient and Restrictive Disease, Palermo, Italy

6/8/12- "COPD Using the Fixed Threshold or Lower Limit of Normal: Does it Matter?" Wiselberg Lecture, Montreal, Canada, 6/8/12

6/20/12 – "Lung development and population studies", COPD8, Birmingham, England

3/29/2013 – "COPD and Occupation", Chest Occupational Lung Disease Conference, Toronto, Canada

2/1/2014 - "COPD Management – The Guidelines: GOLD Guidelines, Past, Present and Future", Pune, India

2/2/2014 – "The Growing Epidemic of COPD: the Global Perspective." Pune, India

3/22/2014 – "The Global Impact of COPD" Chest World Congress, Madrid, Spain.

9/10/2015 – "A Novel Approach for Identifying Patients with Undiagnosed Clinically Significant COPD", European Respiratory Society, Amsterdam, Netherlands.

5/15/2016 – “Why Are Patients With COPD Readmitted? ”, American Thoracic Society, San Francisco, CA
 5/16/2016 – “Screening for COPD Does Not Improve Outcomes”, American Thoracic Society, San Francisco, CA
 6/17/2016 – “Overlap Syndromes: Effect of Treatment on COPD Outcomes” International Conference on Respiratory Pathophysiology, Sleep, and Breathing, Rome, Italy
 6/30/2016 – “Insights From NIH Case Finding” COPD10, Birmingham, England

National

2003, American Thoracic Society, Epidemiology of COPD
 2003, American College of Chest Physicians, Epidemiology of COPD
 2004, American Thoracic Society, Epidemiology of COPD
 7/10/2006, COPD Foundation, COPD
 5/1/2006, “COPD in the Never Smoker” Washington, D.C. (NHLBI/NIOSH meeting, Chair of meeting)
 10/13/2006, “COPD: Epidemiology and Burden”, Special Issues Board, Boston, MA
 2/26/2007, “Asthma in Women and the Elderly” Sheldon Siegel Lectureship, American Academy of Allergy, Asthma and Immunology, San Diego, CA
 2/25/2007, AAAAI, Epidemiology of Asthma
 5/18/2007, “Epidemiology of COPD” American Thoracic Society Post Graduate Course, San Francisco, CA.
 6/27/2007, “COPD and Lung Cancer” NHLBI workshop, Bethesda, MD
 10/2/2007, “Urban and Rural Asthma” Discussant, Tuesday Morning Seminar, Centers for Disease Control and Prevention, Atlanta, GA.
 9/18-19/2008, Session Moderator for Alpha-1 Foundation Workshop “Feasibility of Alpha-1 Antitrypsin Newborn Screening” Arlington, VA
 10/1-2/2008, “COPD in 2008: Myths, Challenges and Opportunities” Williams Scholar Visiting Professor, Yale University, New Haven, Connecticut
 10/14/2008, “Cadmium...Cigarettes...CellularChanges...COPD...Cancer: Connecting the Dots” Grand Rounds Presentation, Northwestern University, Chicago, IL
 11/15/2008, “COPD: A Worldwide Epidemic”, COPD and Lung Health, The COPD Foundation, New York, NY
 1/12/2009, “Early Exposure to Second Hand Smoke”, Task Force on Second Hand Smoke, Bethesda, MD
 5/15/2009, “Epidemiology of COPD”, Post Graduate Course, American Thoracic Society, San Diego, CA
 5/15/2009, “COPD and Lung Cancer”, Post Graduate Course, American Thoracic Society, San Diego, CA
 9/20/2009, “COPD”, National Coalition of Black Lung and Respiratory Disease Clinic’s Annual Conference 2009, Lexington, KY
 10/3/09, “Understanding the Scope and Burden of COPD”, Improving COPD Patient Outcomes Breaking Down the Barriers to Optimal Care, Buffalo, NY

5/17/10, "COPD Epidemiology", ATS Postgraduate Course, New Orleans, LA
 5/16/11, "COPD and Asthma", ATS, Denver, CO
 12/2/11 – Progress in COPD, COPD7usa, Washington, D.C.
 12/3/11 – Detecting Chronic lower respiratory disease, COPD7usa, Washington, D.C.
 5/22/12 – "What is Progression of COPD?", ATS, San Francisco, CA
 5/24/12 – "Reversibility of Obstruction and Mortality", ATS, San Francisco, CA
 10/22/12 – "Is Nonsmoker's COPD Different From Smoker's COPD?", ACCP, Atlanta, Ga
 10/24/12 – "Cardiovascular Disease, the Metabolic Syndrome, and COPD", ACCP, Atlanta, Ga
 11/3/12 – "Chronic Obstructive Pulmonary Disease (COPD) and the "Orphans": Refractory Asthma and Bronchiectasis", AARC, New Orleans, LA
 7/22/13 – "What is in a reference equation?" Johns Hopkins University, Visiting professor
 8/15/2013 – "Diagnosis and Progression of Pneumoconiosis", Central Appalachian Regional Work Safety and Health Symposium, Lexington, KY.
 10/23/2013 – "Surveillance Spirometry for Military personnel and High Risk Populations" Chest 2013, Chicago, IL
 10/29/2013 – "COPD: A Global Disease with Important Local Variation", American Public Health Association Annual Meeting, Boston, MA
 6/4/2015 – "Common Comorbidities in Women with COPD" Women's Healthcare in COPD, Chicago, IL
 10/31/2015 – "Asthma/COPD Overlap Syndrome" 10th Annual Nemaconlin International Asthma Conference, Pittsburgh, PA.
 4/1/2016 – "AlphaNet Health Management Data", Alpha 1 Foundation ELSI Conference, Washington, DC
 4/21/2016 – "Identifying New Strategies to Optimize the Management and Treatment of COPD", 2016 Spring Managed Care Forum, Orlando, FL
 4/21/2016 – "Improving Outcomes in the Management and Treatment of COPD", 2016 Spring Managed Care Forum, Orlando, FL

Local

2002, University of Nebraska, Cadmium and the Lung
 2/9/2006, University of Louisville, Louisville, KY , "Second-hand Smoke – What the Internist Needs to Know" Nancy Middleton Smith Lecture
 6/15/2006, Glaxo Smith Kline, Epidemiology of COPD
 8/6/2006, Pfizer, "Smoking Cessation", multiple locations in Florida
 8/22/2006, Pfizer, "Chantix", Lexington Clinic East, Lexington, KY
 9/29/2006, "Tobacco Treatment Update", Medical Grand Rounds, University of Kentucky, Lexington, KY
 10/6/2006, "Tobacco in Communities", Kentucky League of Cities, Lexington, KY
 10/18/2006, "COPD and Tobacco", Inspiring Issues in Lung Disease, Richmond, KY
 1/17/2007, Kentucky Lung Cancer Research Program "COPD & Lung Cancer

Connection", Lexington, KY

1/25/2007 College of Public Health Research Day, "Research Update" University of Kentucky, Lexington, KY

2/4/2007, "Toxicology of Cadmium in the Lung", Toxicology Seminar, University of Kentucky, Lexington, KY

2/5/2007, "Occupational Lung Disease", Toxicology Seminar, University of Kentucky, Lexington, KY

2/29/2007, "Occupational and Environmental Lung Disease", Occupational Epidemiology Class, University of Kentucky, Lexington, KY.

3/16/2007, Lung Cancer: Past, Present and Future, University of Kentucky, Medical Grand Rounds, Lexington, KY

4/14/2007, "Occupational Asthma", Kentucky Occupational and Environmental Medicine Association, Lexington, KY.

5/2/2007, Pfizer, "Lung Function", Lexington, KY

5/11/2007, UK Pulmonary and Critical Care Update "Lung Cancer Epidemiology", Lexington, KY

9/26/2007, "Second Hand Smoke in 2007", Kentucky Medical Association Annual Meeting, Louisville, KY

9/27/2007, "Second Hand Smoke- What the Internist Needs to Know" Grand Rounds, Metro Hospital, Cleveland, OH.

9/28/2007, "COPD- Myths, Trends and Challenges" Metro Hospital, Pulmonary Rounds, Cleveland, OH.

9/29/2007, "Update in COPD" American Lung Association of Ohio, Cleveland, OH.

10/3/2007, "Occupational and Environmental Lung Disease" Talk to medical residents, University of Kentucky, Lexington, KY.

10/11/2007, "What's New in COPD?" Lung Biology Seminar, University of Kentucky, Lexington, KY.

2/29/2008, University of Pittsburgh, "Epidemiology and COPD", Pittsburgh, PA

9/11/2008 "Pulmonary Function Testing" Talk to Internal Medicine Residents, University of Kentucky, Lexington, KY

10/21-22/2008, "COPD Update" Talk to medical providers, multiple locations in Boise, Idaho

11/25/2008, "Smoking as a (Contagious) Chronic Illness", Daviess Co Medical Society, Owensboro, KY.

5/28/2009, "Epidemiology of COPD", Houston Respiratory Society, Houston, TX

10/14/09, "COPD in 2009: Myths, Challenges and Opportunities" Internal Medicine Grand Rounds, University of Cincinnati, Cincinnati, OH

10/14/09, "Work in Progress: Cadmium and Lung Cancer; The Benefits of Atopy?; What is COPD Progression?; Does Reversibility Matter?" Fellow's Lecture Series, University of Cincinnati, OH

12/15/11, "COPD", Residents lecture, Lexington, KY

12/13/12, "Classifying COPD Severity: Changing the Paradigm", Washington University, St. Louis, MO

12/13/12, "Asthma and COPD: Separate Diseases or on the Same Continuum?" Washington University, St. Louis, MO

10/18/2013, COPD in Women, Breath of Life 2013, ALA Symposium, Lexington, KY.

7/7/2014, "COPD Update", Fellows Talk, Lexington, KY

7/17/2014, "COPD in Kentucky: From Diagnosis to Treatment", AHEC Summer Conference, Mt. Vernon, KY"

11/13/2014, "COPD in Kentucky: From Diagnosis to Treatment", AHEC Fall Conference, Lexington, KY"

Research and/or Scholarship

H-Index (July 2016) – 74 (from Scholarometer), 65 (from SCOPUS)

Publications (Peer-reviewed)

1. **Mannino DM**, Kennedy RD, Hodous TK. Classification of radiographs for pneumoconiosis: A comparison of digitized images and conventional film images. *Radiology* 1993; 187:791-796.
2. **Mannino DM**, Etzel RA, Flanders WD. Do the medical history or physical examination predict low lung function? *Arch Intern Med* 1993; 153:1892-1897.
3. **Mannino DM**, Klevens RM, Flanders WD. Cigarette Smoking: An independent risk factor for impotence? *Am J Epidemiol* 1994; 140:1003-1008.
4. Sinks T, Hartle R, Boeniger M, **Mannino DM**, Boyd J, Fernback J, Hawkins M, Grimes G, Watkins K, Dill P, Anderson B. Exposure to biogenic silica fibers and respiratory health in Hawaii sugarcane workers. *J Occ Med* 1994; 36:1329-1334.
5. **Mannino DM**, Schreiber J, Aldous K, Moolenaar R, Almaguer D. Human exposure to volatile organic compounds: a comparison of organic vapor monitoring badge levels with blood levels. *Internat Arch Occupat Environ Health* 1995; 67:59-64.
6. Petsonk EL, Daniloff EM, **Mannino DM**, Wang ML, Short SR, Wagner GR. Airway responsiveness and job selection: a study in coal miners and non-mining controls. *Occupat Environ Med* 1995; 52:745-749.
7. **Mannino DM**, Etzel RA. Are oxygenated fuels effective? An evaluation of ambient carbon monoxide concentrations in 11 western states, 1986 to 1992. *J Air and Waste Management Association* 1996; 46:20-24.
8. Hanrahan JP, Sherman CB, Bresnitz EA, Emmons KM, **Mannino DM**. Cigarette smoking and health. *Am J Respir Crit Care Med* 1996; 153:861-865.

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Book Chapters

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33. **Mannino DM**, Martinez FJ. Lifetime risk of COPD: what will the future bring? *Lancet*. 2011 Sep 10; 378(9795):964-5. (editorial)
34. Burgel PR, **Mannino D**. Systemic inflammation in patients with chronic obstructive pulmonary disease: one size no longer fits all! *Am J Respir Crit Care Med*. 2012 Nov 15; 186(10):936-7. (editorial)
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Current Grant Activity

Epidemiologic and Biostatistical Support to AlphaNet

(PI:Mannino)

1/1/15 – 6/30/17

AlphaNet

\$250,944

This study consists of multiple components. Specific Aim 1 includes Merging components of AlphaNet surveys and data in a single database, Data clearing and Validation of merged database, and Providing descriptive tables summarizing merged database. Specific Aim 2 will create a subset of AlphaNet database that includes baseline data and time to death or data last known to be alive, Develop models to determine predictor of mortality in AlphaNet database, Develop partnership with Dr. Robert Stockley (UK) to compare parallel data from his database looking at mortality in British Alpha 1 patients.

Community-Engaged Research and Action to Reduce Respiratory Disparities in Appalachia

(PI:Browning) Role: Co-Investigator

4/14/15 -1/31/20

National Institutes of Environmental Health Sciences

\$ 2,499,427

Rural Appalachian residents experience the nation's highest rates of serious respiratory illnesses, with rural Appalachia Kentuckians twice as likely to be diagnosed with adult asthma and chronic

obstructive pulmonary disease as their national counterparts. This study will address community concern and the critical need to reduce respiratory health disparities in Appalachia. We will investigate the extent, nature and source of health inequities; enhance health inequities (EPHAS); test the efficacy of the EPHAS, we will implement and evaluate a three arm RCT involving self-management and home modification.

Southeast Center for Agricultural Health and Injury Prevention: Admin Core

5U54OH007547-12 (PI:Mannino)

9/30/2001 – 9/29/2016

CDC/NIOSH

\$299,521

The major goals are to enhance health of people working in agricultural settings in the Southeastern U.S.

Design and Testing of Tools to Identify Individuals at High Risk for COPD

5 U50 OH007547 (PI: Mannino)

09/30/2001-09/29/2016

2.4 calendar

CDC/NIOSH

\$893,758

Southeast Center for Agricultural Health and Disease Prevention

The goals of the Center are to conduct a multidisciplinary agricultural health and safety research program to develop novel disease and injury prevention models and evaluate educational, outreach and intervention programs.

Role: PI/Project Director

Occupational Safety and Health Training Grant - Education and Research Center (ERC)

Central Appalachian Regional Education Research Center

T42 OH010278 (PI: Sanderson)

07/01/14-06/30/19

0.66 calendar

CDC/NIOSH

\$941,923

The major goal of the Center will be to provide graduate training, continuing education and outreach in occupational safety and health to serve the Central Appalachian Region.

Role: Co-investigator

Lung Function Decline and Disease Risk from Young Adulthood to Middle Age

R01HL122477 (PI: Kalhan) Role: Subaward PI/Co-investigator

8/1/2014 – 7/31/2019

1.64 calendar

National Heart, Lung, and Blood Institute/Northwestern University

\$495,772

The major goal of this study is to identify subclinical manifestations of COPD and other lung disease and explore why heart and lung disease co-exist. This is an ancillary study to the Coronary Artery Risk Development in Young Adults (CARDIA) cohort study's year 30 examination.

Past Grant Activity

Managing Nicotine Withdrawal in Medical and Surgical Patients

044752 (PI: Darville) Role: Co-investigator

Pfizer Inc.

12/1/2012 – 2/28/2015

0.87 calendar

\$155,553

The goal of this project is to offer targeted training to health care providers about the management of tobacco dependence in medical and surgical specialty settings.

Kentucky Children's Health Program (KCHIP) Migrant Outreach FY15 and FY16

P02 746 1400003619 1 (PI: Mannino)

07/01/2014-06/30/2016

0.13 calendar

Kentucky Department for Medicaid Services

\$51,919

The University of Kentucky Research Foundation and its Kentucky Farm Workers Outreach Program shall support ongoing Kentucky Children's Health Program (KCHIP) outreach by providing an 800 telephone line and translation services for written material to Spanish speaking families for the purpose of providing information about KCHIP and other benefit programs available to them in their communities.

Role: Supervisor of translator

Cross-Sectional Analyses Investigating the Prevalence and Characteristics of Asthma-COPD Overlap Patients in the General Population Using NHANES

32654 (PI: Mannino)

10/07/2014-02/28/2016

0.6 calendar

GlaxoSmithKline

\$66,568

The goal of this study is to use data from the National Health and Nutrition Examination Survey (NHANES) to investigate the prevalence of ACOS in U.S. general population and explore how different definitions of ACOS may affect prevalence estimates.

Role: PI

COPD & CVD in NH3

Mannino (PI)

7/15/11 – 7/30/13

GlaxoSmithKline

\$50,000

\$33,670 direct

Reversibility in Chronic Respiratory Disease

Mannino (PI)

11/1/10 – 8/31/13

Astra Zeneca

\$99,000

\$66,667 direct

This project examines the role of bronchodilator responsiveness and reversibility as predictors of COPD outcomes.

COPD and Strength of Smoke-free Laws

Mannino (Co-PI)

7/1/10-6/30/13

FAMRI

Reversibility and Asthma in Chronic Respiratory Disease

Mannino (PI)

8/16/10-1/13/12

GlaxoSmithKline

\$86,213

\$58,056 direct

This project will look critically at the relation between measures of “reversibility” and “airways responsiveness” and outcomes such as hospitalizations and mortality. We will also look at the relation between asthma, COPD, and lung function impairment and mortality.

Managing Nicotine Withdrawal for Comfort and Cessation in Medical and Surgical Patients 2

Mannino (Co-PI)

12/1/12-11/30/14

Pfizer

\$200,000

\$160,000 direct

This project will develop an online resource to train physicians in 5 subspecialties about the most effective management and treatment of tobacco addiction.

Transitions in Early Respiratory Disease

Mannino (PI)

8/16/10-1/30/12

GlaxoSmithKline

\$89,375

\$60,185 direct

This project will look at the development of a new framework for COPD progression using a model that focuses on transitions from health to disease rather than simply lung function decline.

Fibrinogen

Mannino (PI)

11/1/10-5/30/12

GlaxoSmithKline

\$135,000

\$90,909 direct

This is a cohort study where the primary objective is to determine the relationship between elevated fibrinogen levels, cardiovascular disease, lung function decline, and outcomes such as COPD exacerbations and death.

SEARCH 1

Mannino (PI)

8/1/10- 6/30/12

Boehringer-Ingelheim

\$300,000

\$250,000 direct

This study will look at the diagnosis of COPD in primary care. Dr Mannino will coordinate 14 of approximately 180 nationwide sites.

VA/UK QVA149: A 52-week treatment, multi-center, randomized, double-blind, parallel-group, active controlled study to evaluate the effect of QVA 149 vs NVA 237 and open-label tiotropium on COPD exacerbations in patients with severe to very severe COPD

Mannino (Co-PI)

10/1/10- 12/22/10

Novartis Pharmaceuticals Inc.

\$286,381.20

This study will hope to demonstrate that QVA 149 (110/50 µg o.d.) is superior to NVA237 (50 µg o.d.) with regard to the rate of moderate to severe COPD exacerbations during 52 weeks of treatment. A secondary goal is to demonstrate that QVA 149 (110/50 µg o.d.) is superior to open-label tiotropium (18 µg o.d.) with regard to the rate of moderate to severe COPD exacerbations during 52 weeks of treatment.

ARRA: Evaluation and Treatment of Skeletal Muscle Weakness in Critically Ill Patients

Mannino (Co-PI)

NHLBI

Lung Function Impairment and Adverse Outcomes

Mannino (PI)

10/2006-9/2010

Glaxo-Smith Kline

\$205,000 direct costs

\$205,000 available to PI

This study examines the effect of impaired lung function on long-term follow-up of subjects in large population-based studies and the outcomes of pneumonia, COPD exacerbations, and incident cardiovascular disease.

Validation of Lung Function Questionnaire in a Clinical Population

Mannino (PI)

11/07-12/09

Glaxo-Smith Kline

\$75,000

Tobacco Use as a Chronic Illness

Mannino (PI)

11/2007-6/2009

Pfizer

\$75,000 direct costs

\$75,000 available to PI

This study examines how tobacco use affects morbidity and mortality and compares outcomes to that seen with other chronic illness.

Spirometry in a Family Medicine Clinic

Mannino (PI)

10/2006-4/2009

Glaxo-Smith Kline

\$115,000 direct costs

\$115,000 available to PI

This study examines a brief screening questionnaire for COPD, validated by spirometry, in 2 outpatient populations, one in Hazard, Kentucky and one in Lexington, Kentucky.

Role- Principle investigator

Lung Function Impairment and Comorbid Disease

Mannino (PI) 8/2006-5/2008

Novartis

\$75,000 direct costs

\$75,000 available to PI

This study will look at the effect of impaired lung function and its relation to diabetes, hypertension, and cardiovascular disease, and how these diseases affect mortality.

Targeted Intervention in Children with Asthma

Wilson (PI) Role – Co-investigator 5/2002-5/2007

NHLBI

R01 HL70012-01

\$400,000 (estimated)

direct costs, \$0 available to D. Mannino

This study seeks better asthma outcomes in children by lowering tobacco smoke exposure
5 years of funding

COPD, Lung Function Decline, and Mortality

Mannino (PI) 8/2004-8/2005

Glaxo-Smith Kline

\$150,000 direct costs

\$150,000 available to PI

This study will look at the effect of impaired lung function on long-term follow-up of subjects in large population-based studies

Health Screening in a Managed Care Population

Mannino (PI) 1/2005-1/2006

Pfizer

\$150,000 direct costs

\$150,000 available to PI

This study will look at utility of spirometry in a managed care setting to improve the care and outcomes of patients in the general population and those with chronic respiratory disease.
1 year of funding

The Marty Driesler Cancer Project: Early Detection of Lung Cancer in a High Risk Population Defined by Pulmonary Function Testing, Biomarkers, and Computed Tomography

Cohen (PI) Role – Co PI 10/2004-9/2006

Centers for Disease Control and Prevention

\$700,000 available to project

The primary goals of this study are to: 1) develop the infrastructure and institutional partnerships to conduct high quality population-based clinical epidemiological studies in the 5th Congressional District of Kentucky, 2) implement the International Burden of Lung Disease study in the 5th Congressional District of Kentucky, 3) perform a CT cohort screening study in the 5th Congressional District of Kentucky to detect early stage lung cancer among patients at high-risk (defined by pulmonary function tests and stringent tobacco exposure) of having (prevalence screen) or developing incident lung cancer during the study period, and 4) collect the biological specimens

necessary for the discovery and further development of selected biomarkers for the risk assessment, early detection, diagnosis, prognosis, and treatment of lung cancer using phase II case-control, phase III nested case-control, and phase IV cohort study designs.

Research Projects

Health Effects Related to Tobacco Smoke
Metals and the Lung
Outcomes and Comorbidities of COPD

Other Activities

Associate Editor –International J of Tuberculosis and Lung Dis	2006-present
Associate Editor – The Clinical Respiratory Journal	2008-present
Associate Editor – Journal of COPD	2011-2013
Associate Editor – Journal of the COPD Foundation	2013-present
Editorial Board – Chest	2005-present
Editorial Board – American J of Respir and Critical Care Med	2007-present
Editorial Board – Therapeutic Advances in Respiratory Disease	2008-present
Associate Editor –Thorax	2006 – 2010
Reviewer – Chest <i>NAMED TOP 75 REVIEWERS FOR CHEST</i>	2004-present
Reviewer – Thorax	2004-present
Reviewer – American Journal of Respir and Critical Care Med	2004-present
Reviewer – New England Journal of Medicine	2004-present
Reviewer – Lancet	2004-present
Reviewer – JAMA	2004-present
Reviewer – Respiratory Medicine	2004-present
Reviewer – International Journal of Tuberculosis and Lung Dis	2004-present
Reviewer – Nicotine and Tobacco Research	2004-present
Reviewer – Journal of COPD	2004-present
Reviewer – Journal of Allergy and Clinical Immunology	2004-present
Reviewer – Pediatrics	2004-present
Reviewer – Biomedical Central	2004-present
Reviewer – European Respiratory Journal	2004-present
Reviewer – Pediatric Pulmonology	2004-present
Reviewer – Pediatrics	2004-present
Reviewer – Annals of Internal Medicine	2004-present
Reviewer – Archives of Internal Medicine	2004-present
Reviewer – Respiratory Research	2004-present
Reviewer – American Journal of the Medical Sciences	2004-present