

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Mary Ellen Gordian		POSITION TITLE Senior Research Associate	
eRA COMMONS USER NAME mgordian			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of California, Riverside, CA	B.S.	1964	Agriculture
Indiana University, Indianapolis, IN	M.D.	1971	Medicine
University of Washington, Seattle, WA	M.P.H.	1991	Public Health

A. POSITIONS AND HONORS

- 1971-1973 Rotating Internship. Wishard Memorial Hospital. Indianapolis, Indiana.
 1973-1975 Director of Neighborhood Health Center, Indianapolis, Indiana.
 1975-1984 Private provider of medical care in rural Indiana and Ashland, Oregon.
 1984-1990 Provider of medical care for CIGNA Healthplan, (HMO), Phoenix, Arizona.
 1990-1991 Residency in Preventive Medicine, Oregon Health Sciences University, Portland, Oregon.
 8/90 - 1/91 Research Assistant, Kaiser Center for Health Research, Portland, Oregon.
 1/91- 6/91 Chief of Preventive Medicine, MEDDAC Alaska, US Army Medical Corps
 6/91 - 9/91 Research Assistant, Kaiser Center for Health Research, Portland, Oregon.
 1991-1995 Medical Officer, Municipality of Anchorage, Anchorage, Alaska
 1994-1995 Principal Investigator, Environmental Protection Agency Grant, Respiratory Health and Air Pollution in Anchorage, Anchorage, Alaska
 1993-1998 Principal Clinical Coordinator, Pro-West/Alaska, a professional review organization, Anchorage, Alaska
 1996-present Senior Research Associate, Institute for Circumpolar Health Studies, University of Alaska Anchorage, Anchorage, Alaska
 1999-present Chief Medical Officer for Alaska Military Youth Academy (volunteer part-time)

Honors

- 1992-1993 Fellow, Public Health Leadership Society
 January 1996 Board Certification in Public Health and Preventive Medicine, American College of Preventive Medicine
 December 2004 Alaska Health Achievement Award from the Alaska Public Health Association
 January 2005 Trudeau Award for Outstanding Contribution to Lung Health from American Lung Association of Alaska
 2003 -2006 NIEHS reviewer, Center for Scientific Review
 2003 -2006 Air Quality in Alaska Instructor, Institute for Tribal Environmental Professionals, Northern Arizona University

Professional Associations

- 1991 -2005 Alaska State Medical Association
 1990 -2003 American Public Health Association
 1994 -2006 International Society for Environmental Epidemiology

Principal Investigator/Program Director (Last, First, Middle): Gordian, Mary Ellen

1999 -2004 Investigator at PM Center, University of Washington, Seattle
2005 -2006 Chairman of the Anchorage Metropolitan Area Transportation Solutions (AMATS)
Citizens Air Quality Advisory Committee
2004-2005 Member of the Asthma Coalition for the State of Alaska

B. SELECTED PEER-REVIEWED PUBLICATIONS

Gordian ME, Haneuse S, Wakefield J. An Investigation of the Association between Traffic Exposure and the Diagnosis of Asthma in Children *J Expo Sci Environ Epidemiol* 2006 16:49-55.
Gordian ME, Choudhury AH PM10 and asthma medication in school children *Arch Environ Health* 2003 Jan;58(1):42-7
Isbell M, Gordian ME, Duffy L. Winter indoor air pollution in Alaska: identifying a myth *Environ Pollut* 2002;117:69-75
Isbell M, Ricker J, Gordian ME, Duffy LK. Use of biomarkers in an indoor air study: lack of correlation between aromatic VOCs with respective urinary biomarkers. *Sci Total Environ*. 1999 Oct 29;241(1-3):151-9.
Choudhury AH, Gordian ME, Morris SS Associations between respiratory illness and PM10 air pollution *Arch Environ Health* 1997 52(2):113-117
Gordian ME, Ozkaynak H, Xue J, Morris SS, Spengler JD. Particulate air pollution and respiratory disease in Anchorage, Alaska. *Environ Health Perspect* 1996 104(3):290-297
Gordian ME, Huelsman MD, Brecht ML, Fisher DG. Health effects of methyl tertiary butyl ether (MTBE) in gasoline in Alaska. *Alaska Med* 1995 37(3):101-103
Gordian ME, Guay G. Benzene in Alaska *Alaska Med* 1995 37(1):25-28

Other Publications

Gordian ME, Mustin HD. Antithrombotic therapy for stroke prevention among Medicare beneficiaries hospitalized in Alaska with a trial fibrillation. *Alaska Med*. 1998 Oct-Dec;40(4):79-84
Gordian ME, Kelly J Why patients with diabetes, hypertension and /or proteinuria are not on angiotensin converting enzyme inhibitors. *Alaska Medicine* 1998 Jul-Sep;40(3):51-4
Gordian ME, Ballard JE Expanding use of thrombolytic therapy in the treatment of acute myocardial infarction in rural Alaskan hospitals. *Alaska Med* 1997 39(2):43-46
Gordian ME The evaluation and treatment of congestive heart failure in Alaska. *Alaska Med* 1996 38(3):101-104

Presentations

International Society of Environmental Epidemiology, poster presentation August 3rd 2004, "Traffic as a Risk Factor for Asthma in Alaska", New York City, NY
National Research Council, Board on Environmental Studies and Toxicology, August 15th, 2001 " The Health Effects of Air Pollution in Fairbanks, Alaska" in Fairbanks, AK
International Conference On Arctic Development, Pollution And Biomarkers Of Human Health, May 1-3, 2000, Air Pollution Problems in Arctic Environment, Anchorage, AK
Winter Forum on Alaskan Health Issues, Alaska State Hospital Association, November 9, 1995 "Health Effects of Particulate Pollution in Anchorage" Girdwood, AK
Annual Conference of International Society for Environmental Epidemiology and International Society for Exposure Analysis, August 31, 1995, poster presentation "Benzene Air Pollution Before and After MTBE" Noordwijkerhout, The Netherlands
The Air and Waste Management National Meeting, April 2, 1995, oral presentation "The association of coarse particulate pollution and doctors visits for respiratory illness." Pittsburg, PA
Pacific Northwest International Section Air and Waste Management Association, November 16, 1994, oral presentations "Coarse Particulate Air Pollution and Health Effects" and "Using claims data to evaluate health effects of MTBE." Eugene, OR
International Society of Environmental Epidemiology and International Society of Exposure Analysis Annual Meeting, September 14, 1994, Poster Presentation "Correlations between Particulate Pollution and Outpatient Medical Visits". Research Triangle Park, NC

C. RESEARCH SUPPORT

Research Interests and Experience

Dr. Gordian, a practicing physician for 18 years, retrained in public health research fifteen years ago. She was PI on an EPA grant to the Municipality of Anchorage to study the effect of coarse particulate pollution experienced in Anchorage and its effect on human respiratory illnesses in 1994. She also evaluated the effects of introducing methyl tertiary butyl ether as a gasoline additive in Alaska and participated in the design of ambient air benzene studies in Anchorage. She presented research on a study of particulate pollution and the use of asthma medication in Anchorage elementary schools by school children diagnosed with asthma. As a senior research associate at University of Alaska Anchorage she was PI on an NIEHS AREA grant doing research on particulate pollution and hospital admissions and mortality. She just finished an NIEHS RO1 sponsored study relating local area childhood asthma rates to traffic exposure using Geographical Information Systems. She also has participated in a study on indoor air volatile organic compounds and biomarkers in Fairbanks, Alaska. She worked with the Cold Climate Housing Research Center on health effects of changing indoor air exposures for asthmatic children in Fairbanks and Hooper Bay, Alaska. She analyzed data regarding health risks of construction workers on Amchitka Island. She has collaborated with investigators at the PM Center at the University of Washington in Seattle. She is currently working on a study of the exposure to diesel exhaust and possible health effects from the use of diesel for home heating in rural Alaska.

Past support

Geographic Modeling of Traffic and Asthma Rates, NIEHS, 5 R01 ES010100

Relating childhood asthma rates to traffic exposure using Geographic Information Systems.

Amchitka Workers Health Assessment & Medical Screening Program, Alaska State District Council of Laborers

Health risks of construction workers on Amchitka Island.

Healthy Homes Data Analysis, Cold Climate Housing Research Center

Health effects of changes in indoor exposures in Fairbanks and Hooper Bay, Alaska.

Current Support

Alaska Medical Informatics Initiative, USAMRAA, DAMD17-02-2-0028

Gathering data from administrative sources about outcomes from medical transport.

Health Effects of Diesel Exhaust on Rural Alaska, Alaska Department of Environmental Conservation

A study of the exposure to diesel exhaust in rural Alaska.