

CURRICULUM VITAE

CURTIS E. CUMMINGS, M.D., M.P.H.

Captain, Medical Corps, U.S. Navy (retired)

Current Position: Associate Professor, School of Public Health, Drexel University

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Education:

M.P.H., 1991, Uniformed Service University of the Health Sciences, Bethesda, Maryland, 1989-1991. Major - epidemiology

M.D., 1977, Jefferson Medical College, Philadelphia, Pennsylvania, 1972-1977. Major - medicine

B.S., 1974, Pennsylvania State University, with high distinction, 1971-1972 (joint program with Jefferson Medical College); major - science

Post Graduate Medical Training:

1977 - 1980: Intern and Resident, Internal Medicine, U.S. Public Health Service Hospital, Staten Island New York

1980 - 1982: Resident in Preventive Medicine (Occupational and Environmental Medicine), Mt. Sinai Medical Center, New York, New York; chief resident, 1981-1982

Employment/ Appointments:

2003 – present: Associate Professor, School of Public Health, Drexel University, Philadelphia, Pennsylvania; faculty, Department of Environmental and Occupational Health

United States Navy, Medical Corps, multiple assignments, inclusive:

2000 - 2003: Safety and Health Manager, Armed Forces Radiobiology Research Institute, Bethesda, Maryland; teaching faculty, Medical Effects of Ionizing Radiation Course

1994 - 2000: Officer-in-Charge, Branch Clinics Philadelphia and Head, Occupational and Preventive Medicine Department (of National Naval Medical Center, Bethesda, Maryland)

1992 - 1994: Head, Applied & Field Science Division, Naval Medical Research Unit #3, Cairo, Egypt

1989 - 1992: Head, Branch Medical Clinics White Oak and Carderock, Maryland (of National Naval Medical Center Bethesda). Head, Occupational Medicine Division, 1990-91; assistant professor of preventive medicine, Uniformed Services University of the Health Sciences

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Employment/ Appointments (cont'd):

1986 -1989: Head, Branch Medical Clinic Keyport, Washington; Head, Occupational & Preventive Medicine Department, Branch Medical Clinic Bangor, Washington (of Naval Hospital Bremerton)

Hospital appointments – Naval Hospital Bremerton, National Naval Medical Center Bethesda

Civilian employment/ appointments:

1985 - 1986: Physician, Care-Plus Medical Centers, Seattle, WA; AT&T Corporation, Kent, WA

1982 - 1985: Senior Public Health Physician and Chief, Occupational and Environmental Health Clinic, State of New Jersey Department of Health. Head, Environmental Health Program, 1984-85;

1980 - 82: Physician & Consultant in Occupational Medicine and founder, occupational health program, Boriken Health Center, New York, New York

Certification and Licensure:

Certified, American Board of Preventive Medicine (Occupational & Environmental Medicine), 1985

Certified, American Board of Internal Medicine, 1980

Certified, B-reader, NIOSH (Radiology of the Pneumoconioses, “B-reader”), 1984

Hyperbarics Medical Officer, U.S. Navy qualified, 1997

License to practice Medicine – Pennsylvania, New York, New Jersey, Washington State

Uniformed Service:

U.S. Public Health Service Corps, Active Duty 1977-80; inactive reserve 1980 -86

U.S. Navy Medical Corps, Active Duty, 1986 -2003. Retired 1 October 2003; rank: Navy Captain

Honors and Awards

Eagle Scout, Boy Scouts of America, 1968

U.S. Navy, 1986-2003

Military decorations – Defense Superior Service Medal, Defense Commendation Medal, Navy Commendation Medal, Navy Achievement Medal, Joint Service Unit Commendation, Meritorious Unit Commendation, National Defense Medal, Humanitarian Service Medal

Numerous letters of commendation and letters of appreciation, including:

Letter of commendation, Rear Admiral D Lichtman, for outstanding service, 1992

Letter of commendation, Rear Admiral A Rondeau, for training performed in radiation emergencies and medical preparedness, 2002

Letters of appreciation for training in radiation emergencies and medical preparedness, Finch University of the Health Sciences, FDA, NASA, 2002

Letter of appreciation, Congressman Dana Rohrabacher, for training performed in radiation emergencies and medical preparedness, 2003

Other professional awards, during Navy service

Navy Occupational Safety and Health Officer of the Year, honorable mention, 1998

Federal Executive Board of Philadelphia awards:

Manager of the Year, Silver Medal, 1997

Outstanding Technical Performer, Group, Gold Medal, 1998

Outstanding Professional Performer, Group, Silver Medal, 1999

(Several additional bronze medals and nominations)

National Partnership for Reinventing Government, Honorable Mention, 1999

Exemplary inspection letters, Nuclear Regulatory Commission, 2002, 2003

Professional Memberships:

American College of Occupational and Environmental Medicine (ACOEM)

(national and Philadelphia area chapter)

American College of Preventive Medicine (ACPM)

American Public Health Association (APHA)

Association of Military Surgeons of the United States (AMSUS)

College of Physicians of Philadelphia

Health Physics Society (national and Delaware Valley chapter)

Professional Committees – Institutional

1978-1979 – Medial Education Committee, U.S. Public Health Service Hospital, Staten Island NY

Institutional Review Boards – Mt. Sinai Medical Center (1981-82); Naval Medical Research Unit #3, Cairo, Egypt (1993-94); The Institutes for the Achievement of Human Potential, Philadelphia, PA (1998 -present); Drexel University IRB #3 (2004 -present)

1986 - 2000 – U.S. Navy, numerous medical, administrative and safety and health committees, served during each Navy assignment, including the following:

Chair: Credentials committee, 1992-94; Military Awards Board 1992-94; Chemical Hygiene Officer, 1992-94, 2000-03; Occupational Safety and Health Committee, 2001-02

Member: Occupational Safety and Health Policy Committees, 1986-2000; Host-tenant Committees, 1986-2000; Quality Assurance Committees (medical practice), 1986-2000;

Hazardous Material Control and Management Committees, 1992-94, 2000-03;

Fullbright Commission Review Committee, Cairo, Egypt, 1993;

Bureau of Medicine Process Improvement Committee, Occupational Health, 1996-98

2000 - 2003 – Armed Forces Radiobiology Research Institute: Occupational Health and Safety Committee (chair, 2001-02), Radionuclide and X-ray Safety Committee, Institute Executive and Supervisory Committee

Drexel University, 2003 - present – membership on the following committees:

School of Public Health – Student Promotions Committee, Center for Academic and Public Health Practice (joint Drexel-City committee)

Interdepartmental – Environmental Faculty Coordinating Committee

Statewide Advisory Committee for Preparedness (PA Dept of Health) – dean’s representative

Community Service

- 1979 - 1984 – American Red Cross Volunteer Speaker, Health Effects of Smoking
- 1994 - 1995 – Hope-For-Kids, community immunization volunteer
- 1995 - 1996 – Jefferson Medical College, career counseling medical students, letters of appreciation
- 1996 - 1997 – soccer coach and referee, YMCA of Philadelphia
- 1996 - present – Consultant, preventive medicine, The Institutes for the Achievement of Human Potential, Philadelphia, PA (non-profit institution for treatment and research in brain injury)
- 1997 - present – Church Choir, singer and soloist
- 1999 - present – Boy Scouts of America, Assistant Scoutmaster, physician volunteer and instructor in camping, first aid, and the effects of tobacco and drugs

Educational Activities

Professional Courses Developed

1. 1987 - 1989 – Occupational Health Seminar Series, created/taught, Naval Hospital Bremerton
2. 1989 - 1990 – Uniformed Services University of the Health Sciences, M.P.H. program and residency in occupational and environmental medicine – academic courses developed and presented: Introduction to Occupational Health, Field Seminar in Occupational Health
3. 1997 - 2000 – U.S. Navy, Medical Effects of Asbestos Course: revised, expanded, taught annually
4. 1998 -1999 – Hosted, managed regional occupational audiometry course
5. 2000 - 2003 – Medical Effects of Ionizing Radiation. Department of Defense standard medical course in radiation protection and response. Modules created: Acute Radiation Syndrome, Internal Radionuclide Contamination, Case Studies and Scenarios; others edited or expanded. Presented nationwide/worldwide; top-rated instructor
6. 2003 – Distance learning courses for Continuing Medical Education, Armed Forces Radiobiology Research Institute, Bethesda, Maryland. Courses in Acute Radiation Syndrome, Internal Radionuclide Contamination

Residency Module Created

Armed Forces Radiobiology Research Institute, Bethesda, Maryland – clinical/practicum rotation for residency in occupational and environmental medicine, Uniformed Services University of the Health Sciences, 2001 - 02

Drexel University

School of Public Health, 2003 – present. Graduate courses taught:

1. Environmental and Occupational Health, core module (both full-time and executive MPH programs)
 2. Concentration Seminar in Environmental and Occupational Health (coordinator, 2004 - present)
 3. Community-Based Master’s Project – adviser, and chair of thesis committees
- Medical college – Pulmonary Division, Department of Medicine – Grand Rounds: Occupational Lung Disease, February 2005

Support – Current

Center for Public Health Readiness and Communication, Drexel University – 30% time & effort.
Commonwealth of Pennsylvania funds, \$566,000 annually; Sep 2004 – Aug 2007; role: Co-PI;
PI: Rumm

Former Pantex Workers Surveillance Program, Amarillo, Texas – 10% time & effort; Department of
Energy Funds; through December 2007; \$2.4 million; role: co-investigator; PI: Frank

Supervision of Graduate Students

Preceptor and adviser of MPH-degree candidates:

1. Catherine A Klinger, 2003-2004 – Childhood lead poisoning prevention: learning from environmental and toxicological data
2. Kate L Cushman, 2004-2005 – The Effectiveness of Chelation Therapy in Reducing Elevated Blood Lead Levels
3. Kristen M Rappazzo, 2003- 2005 – Secondary analysis of environmental factors influencing changes in childhood blood lead levels

Personal Data: Born: April 19, 1953, Norristown, Pennsylvania. Married, two children

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Publications

(* denotes peer reviewed publication)

- *1. Rose DN, Cummings CE, Molinaro J and Fertig A. Screening for lead toxicity among autobody workers. *Am Jour Indus Med* 3:405-412, 1982
- *2. Thompson CG, Cummings CE, Ruvalcaba RHA. Effects of oxandrolone on genital development in uncomplicated growth retardation. *Andrologia* 23:163-65, 1991
3. Arthur RR, Rodier GR, Cummings CE et al. Rift Valley Fever, Egypt. *MMWR*. September 1994
- *4. Youssef FG, Hassanein SH and Cummings CE. A modified staining method to detect *Wuchereria bancrofti* microfilariae in thick smear preparations. *Ann Trop Med Parasit* 2, 1995
5. Abu-ElYazeed R, El-Sharkawy S, Olson J, Botros B, Soliman A, Salib A, Cummings C and Arthur R. Prevalence of anti-Rift-Valley-fever IgM antibody in abattoir workers in the Nile Delta during the 1993 outbreak in Egypt. *Bulletin of the WHO* 74 (2), 155-158, 1996
- *6. Luo NP, Baboo KS, Diab A, Mwenya D, Cummings CE, Dupont HL, Murphy JR and Zumla AL. Isolation of *Campylobacter* species from Zambian patients with acute diarrhea. *So Afr Med Jour*, 1998
- *7. Abu-ElYazeed RR, Youssef FG, Merrell BR, El-Gamal RL, El-Khoby, Hassanein YA, Cummings CE. Praziquantel in the treatment of *Schistosoma mansoni* infection. *Am J Trop Med Hyg* 56 (4), 404-407, 1997
- *8. Baboo KS, Luo NP, Murphy JR, Cummings CE, Chintu C, Dupont HL, Kleinoski M, Mathewson J, Zumla A. HIV Type-1 seroprevalence in Zambian Patients with acute diarrhea: a community-based study. *Jour AIDS and Retrovirology* 20 (2): 160-3, 1999
- *9. Gaskins M, Rumm PD, Cummings CE, Hu XH. An update of terrorism preparedness evaluations, two years after the bioterrorism preparedness accountability indicators project. *Jour Homeland Security* (accepted for publication)
10. American Academy of Pediatrics. Pediatric Disaster and Terrorism Preparedness Resource. Multiple authors. Chapters written: Acute Radiation Syndrome, Internal Radionuclide Contamination, External Radionuclide Contamination. (Invited manuscript, in press.)

Technical Reports

1. Zaganiski RT, Cummings CE, Marshall F, Parkin WE. Health effects of radiation contamination, Montclair-Glen Ridge NJ. New Jersey State Dept of Health, 20 December 1993
2. Cummings CE, Miller SM, Patel DB. Health Survey of workers and residents in the vicinity of Research Organic/ Inorganic Chemical Company, Belleville, NJ. New Jersey State Dept of Health, 27 Aug 1984

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Technical Reports, cont'd.

3. Cummings CE, Rosenman KD. Health effects of sludge composting on workers and nearby residents. New Jersey State Department of Health, 22 October 1984
4. Cummings CE, Roseman J. Health Hazard Evaluation, Witco Chemical Corporation, Perth Amboy, NJ. HETA-83-166-1594, National Institute of Occupational Safety and Health, May 1985
5. Cummings CE, Schirmer J. Health Hazard Evaluation, Public Service Electric & Gas Corporation, Iselin, NJ, HETA-83-246. National Institute for Occupational Safety and Health, July 1985
6. Cummings CE, Miller SM, Rizzo JE. Health Survey of residents of the Relocated Bayway neighborhood, Elizabeth, NJ. New Jersey State Department of Health, 17 June 1985
7. Cummings CE, Rosenman KD. A State Health Department-based occupational and environmental health clinic. New Jersey State Department of Health, 12 August 1985
8. Cummings CE, Liegey EP, Kombet EM, Akinsete DA. Baseline Industrial Hygiene Survey, Armed Forces Radiobiology Research Institute, Bethesda, Maryland, 31 July 2001.
9. Cummings CE, Liegey EP, Kombet EM, O'Donnell MB. Industrial Hygiene Survey, Armed Forces Radiobiology Research Institute, Bethesda, Maryland, 15 September 2002.
10. Cummings CE, Liegey EP, Kombet EM, O'Donnell MB. Industrial Hygiene Survey, Armed Forces Radiobiology Research Institute, Bethesda, Maryland, 15 July 2003.

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Professional Presentations

1. Cummings CE and Barr AB. Mitral Insufficiency and Glaucoma in a Forme Fruste of Mucopolysaccharidosis Type IIB. U.S. Public Health Service, Fourteenth Annual Scientific Meeting, 19 April 1979.
2. Cummings CE and Chun CH. Bacterial Endocarditis Occurring Despite Adequate Prophylaxis. U.S. Public Health Service Fifteenth Annual Scientific Meeting, 29 May 1980.
3. Cummings CE. Health Effects of PCB and Respiratory Irritant Exposure in a Chemical Plant. Northeast States and Big City Epidemiologists Annual Meeting, November 3, 1984.
4. Cummings CE. A State Health Department-Based Occupational and Environmental Health Clinic. Northeast States and Big City Epidemiologists Annual Meeting, November 3, 1984.
5. Cummings CE and Miller SM. Health Effects Associated with Air Contamination in Belleville, NJ. American Public Health Association Annual Meeting, November 17, 1985.
6. Cummings, CE. A State Agency-Based Occupational and Environmental Health Clinic. American Public Health Association Annual Meeting, November 18, 1985.
7. Zaganiski RT, Cummings CE, Gent JF, Rosenman KD and Altman RA. Clinical Olfactory Testing in a Survey of Workers and Residents Near a Sewage Plant. American Public Health Association Annual Meeting, November 19, 1985.
8. Cummings CE and Schulze TL. Health Effects from Chlordane/Heptachlor Exposure in Homes. American Public Health Association Annual Meeting, November 19, 1985.
9. Cummings CE and Rosenman KD. Health Effects of Sludge Composting on Workers and Nearby Residents. American Public Health Association Annual Meeting, October 2, 1986.
10. Cummings CE. Liver Abnormalities Associated with Low-Level Solvent Exposure in Civilian Workers at NUWES Keyport. Thirtieth Navy Occupational and Preventive Medicine Workshop, 2 March 1988.
11. Cummings CE. Liver Abnormalities and Chemical Exposure at Naval Station Keyport. Thirty-first Navy Occupational and Preventive Medicine Workshop, 10 February 1989.
12. Cummings CE, Arthur RR, Morrill J. A Study of Partial Immunization with Rift Valley Fever Vaccine During the Investigation of a Fever Outbreak in Upper Egypt. Thirty-fifth Navy Occupational and Preventive Medicine Workshop, 28 February 1992.
13. Cummings CE, Youssef FG, Hassanein SH, Safwat M, Rida M, Fouad R. Long Term Effect of Two Single Doses of Ivermectin on Microfilaremia of Bancroftian Filariasis in Egypt. American Society of Tropical Medicine & Hygiene Annual Meeting, 1993.

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14. Cummings CE, Youssef FG, Hassanein SH, Safwat M, Rida M, Fouad R. Effect of two single doses of ivermectin in treatment of bancroftian filariasis in two endemic villages in Egypt. Egyptian Society of Tropical Medicine, Infectious and Parasitic Diseases, 1994.
15. Cummings CE, Youssef FG. Safety of Two Single Doses of Ivermectin in Treatment of Asymptomatic Bancroftian Filariasis in Egypt. American Society of Tropical Medicine and Hygiene Annual Meeting, 1994
16. Ricks RR, Blakely WF, Cummings CE. Establishment of Medical Preparedness System for Radiation Accidents. Twenty-second Annual Meeting – Republic of Korea/USA Joint Standing Committee on Nuclear Energy Cooperation (JSCNEC), 18 May 2001
17. Cummings CE. Medical Management of Nuclear Casualties. Biological, Chemical and Nuclear Warfare...Are We Prepared? St. Luke's Regional Trauma Center, 14 November 2001
18. Cummings CE. Nuclear Terrorism. The Medical Aspects of Terrorism, Finch University of the Health Sciences/ The Chicago Medical School, 25 March 2002
19. Cummings CE. Medical Effects of Ionizing Radiation. 2002 NASA Occupational Health Conference – Assessment and Management of Health Threats, 10 July 2002
20. Cummings CE. Medical Effects of Ionizing Radiation. Naval Reserve Symposium – Counterterrorism, DOD/ Fleet Hospital Perspective, 21 July 2002
21. Cummings, CE. Medical Effects of Ionizing Radiation. Maryland Hospital Association Annual Meeting, Maryland Healthcare Education Institute, 17 October 2002
22. Cummings CE. Radiological and Nuclear Issues. 2003 Western Regional Medical Command Medical Preparedness Conference, May 30, 2003.
23. Gaskins MM, Rumm PD, Cummings CE, Hu XH. An update of terrorism preparedness evaluations, two years after the bioterrorism preparedness accountability indicators project. College of Physicians of Philadelphia Section on Public Health and Preventive Medicine Annual Meeting, May 5, 2005
24. Klinger CA, Cummings CE, Himmelsbach RM. Childhood lead poisoning prevention: learning from environmental and toxicological data. College of Physicians of Philadelphia Section on Public Health and Preventive Medicine, Annual Meeting, May 5, 2005
25. Rappazzo KM, Cummings CE, Himmelsbach RM, Tobin RE. Secondary analysis of environmental factors influencing changes in childhood blood lead levels. College of Physicians of Philadelphia Section on Public Health and Preventive Medicine Annual Meeting, May 5, 2005
26. Rappazzo KM, Cummings CE, Himmelsbach RM, Tobin RE. Secondary analysis of environmental factors influencing changes in childhood blood lead levels. American Public Health Association Annual Meeting, November 7, 2005 (pending, poster presentation)

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27. Cummings CE, Frank AL. Mercury exposure among public utility workers. American Public Health Association Annual Meeting, November 7, 2005 (pending, poster presentation)
28. Gaskins MM, Rumm PD, Cummings CE, Hu XH. An update of terrorism preparedness evaluations, two years after the bioterrorism preparedness accountability indicators project. American Public Health Association Annual Meeting, November 9, 2005 (pending, oral presentation)