

CURRICULUM VITAE

6/26/2020

ACADEMIC OFFICE: The Dartmouth Institute for Health Policy and Clinical Practice
74 College St. Vail Building, Room 715
Hanover, NH 03755

CLINICAL OFFICE: Dartmouth-Hitchcock Medical Center
Section of Occupational and Environmental Medicine
1 Medical Center Drive
Lebanon, NH 03756

I. EDUCATION

<u>DATE</u>	<u>INSTITUTION</u>	<u>DEGREE</u>
1982 – 1986	University of Virginia School of Medicine	Doctor of Medicine
1981 – 82, 1985 – 86	University of California, Los Angeles (UCLA) School of Public Health	Master of Public Health (MPH)
1977 – 1981	University of California, Los Angeles (UCLA) School of Public Health	Bachelor of Science – Public Health

II. POSTDOCTORAL (OR HIGHEST DEGREE) TRAINING

<u>DATE</u>	<u>INSTITUTION</u>	<u>SPECIALTY</u>
1989 – 1990	University of Colorado Health Sciences Center Department of Preventive Medicine and Biometrics	Residency, Public Health/General Preventive Medicine
1986 – 1987	University of California, San Diego (UCSD) Medical Center	Internship (PGY 1), Department of Reproductive Medicine (Obstetrics/Gynecology)

III. PROFESSIONAL DEVELOPMENT ACTIVITIES

<u>DATE</u>	<u>ACTIVITY</u>	<u>PROGRAM</u>
2015-2016	Selected Participant	Public Voices/OpEd Fellowship Program at Dartmouth
August, 2006	Selected Participant	Dartmouth Center for the Advancement of Learning (DCAL) Active Learning Institute
2005-2007	Fellow	Veteran’s Administration Quality Scholar (VAQS) White River Jcn, VT (<i>certificate received</i>)
December, 2000	Selected Participant	American Association of Medical Colleges (AAMC) Junior Women Faculty Development Conference, Savannah, GA
December, 1998	Selected Participant	FAA Basic Aviation Medicine Course, Civil Aeronautics Medical Institute, Oklahoma City, OK (<i>certification as an FAA Aviation Medical Examiner</i>)
April, 1998	Participant	University of Cincinnati Occupational Medicine Mini-Fellowship (<i>3 week intensive certificate program</i>), Cincinnati, OH

IV. ACADEMIC APPOINTMENTS

<u>DATE</u>	<u>ACADEMIC TITLE</u>	<u>INSTITUTION</u>
2007 – present	Assistant Professor, The Dartmouth Institute for Health Policy and Clinical Practice	Geisel School of Medicine at Dartmouth
2000 – present	Assistant Professor of Community and Family Medicine	Geisel School of Medicine at Dartmouth
1998 – present	Assistant Professor of Medicine	Geisel School of Medicine at Dartmouth
1997 – 1998	Instructor in Medicine	Geisel School of Medicine at Dartmouth

V. INSTITUTIONAL LEADERSHIP ROLES

<u>DATE</u>	<u>PROGRAM</u>	<u>TITLE</u>
12/2018 – 6/2019	Section of Occupational and Environmental Medicine Department of Medicine	Interim Chief
12/2018- 6/2019	DHMC Employee Health Clinic	Interim Medical Director
1997 – 2005	Section of Occupational and Environmental Medicine Department of Medicine	Chief*
1997- 2004	DHMC Employee Health Clinic	Medical Director

*inaugural Chief of the Section of Occupational Medicine (section name later changed to Section of Occupational and Environmental Medicine)

VI. LICENSURE AND CERTIFICATION (IF APPLICABLE)

<u>DATE</u>	<u>LICENSURE/CERTIFICATION</u>
1996 – 2022	Medical License, New Hampshire Board of Medicine (9779)
2001– 2024	Certified, Senior Aviation Medical Examiner, FAA
2000- 2010	Certified, Undersea and Hyperbaric Medicine Society
2000- 2010; recertified 2010- 2020 (All MOC parts submitted, awaiting review, extension granted to July 2020)	Certified, American Board of Preventive Medicine, Occupational Medicine
1998 – 2001	Certified, Aviation Medical Examiner, FAA
1997– 2020	Certified, Medical Review Officer, Medical Review Officer Certification Counsel (MROCC)
1993 – 1996	Medical License, Connecticut Board of Medicine (<i>Inactive</i>)
1993 - present	Certified, American Board of Preventive Medicine, Public Health/General Preventive Medicine (<i>non-time limited</i>)
1987 - 2023	License, Federal Drug Enforcement Agency
1987 – 1994	Medical License, Colorado Board of Medicine (<i>Inactive</i>)

VII. HOSPITAL OR HEALTH SYSTEM APPOINTMENTS

<u>DATE</u>	<u>PROGRAM</u>	<u>TITLE</u>
1997 - present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Active Clinical Staff
1995 - 1996	Somerset Family Health Care, Glastonbury, CT	Staff Physician

1995 - 1996	Hartford Hospital, Hartford, CT	Carolyn J. Murray, MD, MPH Active Medical Staff with Admitting Privileges
1994 - 1995	Center for Occupational Medicine/Immediate Medical Care Centers, Hartford, CT	Staff Physician
1993 – 1994	State of Connecticut, Department of Corrections	Regional Public Health/Medical Consultant
1990 – 1993	El Paso County Department of Health and Environment, Colorado Springs, CO	Public Health Physician
1990- 1993	Penrose-St. Francis Health System, Colorado Springs, CO	Active Clinical Staff
1990 – 1993	Correctional Medical Services, El Paso County Criminal Justice Center, Colorado Springs, CO	Medical Director
1987 – 1989	Rose Health Care Centers/Colorado Occupational Medicine Associates, Denver, CO	Staff Physician

VIII. OTHER PROFESSIONAL POSITIONS

<u>DATE</u>	<u>POSITION/TITLE</u>	<u>INSTITUTION</u>
2017- present	Vice-Chair, Public Health and General Preventive Medicine	Board of Directors, American Board of Preventive Medicine
2012- current	Member	Board of Directors, American Board of Preventive Medicine

IX. TEACHING ACTIVITIES

A. UNDERGRADUATE TEACHING

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
Spring term, 2015	Dartmouth College	Geography 56: The Geographies of Health and Disease	Project Facilitator, Subject Matter Expert	20	4 (project) 30 (SME)
Summer term 2014 through Spring term 2015	Dartmouth College	Risk Communication Project, Department of Computer Science and the Neukom Digital Arts and Leadership Innovation Lab (DALI) at Dartmouth (work product listed under XXIII. B. Arsenic in our Food Supply Digital tool.)	Project Sponsor/ Subject Matter Expert	~20-30	6
Spring term, 2004	Dartmouth College	Environmental Studies 4/Environmental Health – “Food Safety & Regulation”	Guest Lecturer	2	30

B. UNDERGRADUATE MEDICAL EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
Fall 2015 Spring 2017 Spring 2018	Dartmouth Geisel School of Medicine	Epidemiology and Biostatistics Course, Year 1	Small group facilitator	16	10
2015 - 2019	Dartmouth Geisel School of Medicine	Patients and Populations: Improving Health and Healthcare, Year 1 and 2: <i>Medicine in Context Module</i>	Co-course Director/ Module Director	40-60	90

2012 -2014	Dartmouth Geisel School of Medicine	Fundamentals of Health Care Delivery Science, (HCDS) Year 1: <i>The Public Health System</i>	Faculty	4	80
2003 - 2008	Dartmouth Geisel School of Medicine	Interdisciplinary Clinical Exercises (ICE) Seminar: <i>Occupational and Environmental Medicine, and Public Health Career Opportunities</i> , Year 3	Guest Faculty	2	~ 60
2002	Dartmouth Geisel School of Medicine	Health, Society and the Physician (HSP), Year 4	Guest Panelist	1	~ 60
2000 – 2010	Dartmouth Geisel School of Medicine	OSHA training for Years 2,3,4 on Prevention of Blood Borne Pathogen exposures and brief introduction to Occupational Medicine	Presenter	1.5	~ 60

C. UNDERGRADUATE MEDICAL EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
2004 -2010	Dartmouth Geisel School of Medicine	“On Doctoring” Course, Year 1 and Year 2 (three cohorts/ 2-year commitment)	Facilitator	~ 40	8-10
1999, 2000	Dartmouth Geisel School of Medicine	Year 4 Interviewing Skills	Preceptor	2	~ 4-6

D. GRADUATE MEDICAL EDUCATION

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u># OF STUDENTS</u>
2012-2019	Dartmouth-Hitchcock/TDI	Occupational Medicine Rotation for Year 2 Preventive Medicine Residents	Rotation Director/ Preceptor	20-40	~ 4-8/ year
2007- 2019	Dartmouth-Hitchcock/TDI	Public Health Seminar Series for Preventive Medicine Residents (TDI MPH course credit also received)	Director	18	~10-15/ year
2007- 2014	Dartmouth-Hitchcock/TDI	Leadership Preventive Medicine Residency Program	Associate Program Director	.15 FTE	~10-15 year
2003- 2016	Dartmouth-Hitchcock/TDI	Governmental Public Health Experience (GPHE)/ MPH internship for Preventive Medicine Residents (TDI MPH course credit also received)	Rotation Director	~40	~ 6-8/year
2003- 2005	Dartmouth-Hitchcock/TDI	Leadership Preventive Medicine Program	Assistant Program Director	0.1 FTE	5-10/year
2001-2003	Dartmouth-Hitchcock/TDI	Leadership Preventive Medicine Residency Program	Co- Program Director	0.1 FTE	Planning stage
1998- 2005	Dartmouth-Hitchcock/ Concord Hospital	Mini-elective in Occupational Medicine for D-H Internal Medicine and Dartmouth-Concord Hospital Family Medicine residents	Faculty preceptor	20	~2-4/ year

1999-2006	Dartmouth-Hitchcock Department of Medicine	Noon Lecture Series for Internal Medicine Residents (average 2/academic cycle). Topics: <i>Physician Impairment, Evaluation of Work-related Injuries, Evaluation of Upper Extremity Injuries, Worker's Compensation: What You Need to Know</i>	Instructor	2	~20
1999- 2002	Dartmouth-Hitchcock Department of Medicine	Internal Medicine Residency Program, Subspecialty inpatient teaching attending, M2 Service: 11/22/99- 12/19/99, 8/28/2000-9/22/2000, 3/11/02- 4/8/02	Faculty	~20 per service rotation	4-5

E. OTHER CLINICAL EDUCATION PROGRAMS

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
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F. GRADUATE TEACHING

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
2016 – current	TDI Hybrid Online MPH program	PH 200B: Determinants, Design, and Data Sources/Foundations of Population Health (4-week module)	Course Co- director	30-40	30-42
2016- current	TDI Hybrid Online MPH program	PH 226: Introduction to Environmental Health (3-week course)	Course Director	~30	30-42
2002- 2016	CECS/TDI Residential MPH program	PH 151: Environmental Health Science and Policy	Course Co- founder/ Course Co- Director	40	40-65

G. OTHER PROFESSIONAL/ACADEMIC PROGRAMS

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>HOURS</u>	<u>~ # OF STUDENTS</u>
August 2017	New England Public Health Training Center	Introduction to Environmental Health for New Hampshire Health Officers- 2-part asynchronous webinar series *50 enrolled over 2-year time frame	Instructor	1.5	50*
February 2013	Dickey Center and The Dartmouth Center for Health Care Delivery Science	Inaugural Global Health and Development Case Competition (Tuck/TDI/DC students in a week long competition) Case was an occupational/environmental health exposure case from Peru	Team Facilitator/ Subject Matter Expert	8	4

X. PRIMARY RESEARCH ADVISING

For each advisee for whom you are/were the primary mentor, provide the flowing information under the appropriate subheadings

A. UNDERGRADUATE STUDENTS

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

B. GRADUATE STUDENTS

<u>DATES</u>	<u>NAME OF ADVISEE/MENTEE</u>	<u>NAME OF PROGRAM</u>
2016 – 2019	Xiaofei He, PhD, R-25 Post-Doctoral Fellow	Children’s Environmental Health and Disease Prevention Research Center (Co-Mentor with Anna Tosteson, PhD)

C. MEDICAL STUDENTS

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

D. RESIDENTS/FELLOWS

<u>DATES</u>	<u>NAME OF ADVISEE/MENTEE</u>	<u>NAME OF PROGRAM</u>
2009-2012	Pam Zachar, MD	DH- LPMR Program Coach/ Practicum Advisor
2003-2005	Matthew Cole, MD	DH-LPMR Program Coach/ Practicum Advisor

E. OTHERS

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

XI. ADVISING/MENTORING (NOT RESEARCH)

A. UNDERGRADUATE STUDENTS

<u>DATES</u>	<u>NAME OF ADVISEE/MENTEE</u>	<u>NAME OF PROGRAM</u>
Spring 2015	Carly Carlin ‘15	Independent Study, Environmental Sciences
Summer and Fall Terms 2013	Carly Carlin ‘15	James O. Freedman Presidential Scholar, mentored activities within the Dartmouth Children’s Environmental Health and Disease Prevention Research Center

B. GRADUATE STUDENTS

<u>DATES</u>	<u>NAME OF ADVISEE/MENTEE</u>	<u>NAME OF PROGRAM</u>
Spring term, 2014	Elizabeth O’Neill, MPH candidate	TDI MPH Internship at the Children’s Environmental Health and Disease Prevention Research Center- participated in Integration of Well Water Testing into Primary Care Study
Spring term, 2013	Charlene Jones, MPH candidate	TDI MPH Internship at the Children’s Environmental Health and Disease Prevention Research Center- Community Outreach Project
Winter and Spring term, 2004	Margaret Caudill-Slosberg, MD, PhD: MPH candidate	TDI MPH field work preceptor: “Hazard Risk Assessment of Patient Handling and Movement among Nursing Staff at Dartmouth-Hitchcock Medical Center”
Spring term, 2003	Brit Doty, BSN, MPH candidate	“Health Communication Strategies for At Risk Youth”, Directed Reading Advisor CECS/TDI
Winter term, 2002	Stephen Elgert, MD, MPH candidate	“Curriculum Development for an MPH Environmental Health Course”, CECS (TDI) Directed Reading Advisor

C. MEDICAL

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

D. RESIDENTS/FELLOWS

<u>DATES</u>	<u>NAME OF ADVISEE/MENTEE</u>	<u>NAME OF PROGRAM</u>
2006-2016	Natalie Riblet, Sharon Alroy- Pries, Ben Chan, Jocelyn Carter, Laura Council, Pippa Shulman, Jonathan Ballard	D-H Preventive Medicine Residency Program (these are selected residents where I had more direct professional mentorship, in addition to formal teaching described in IX.D. and IX.F.)

E. NON-DEGREE PROGRAM STUDENTS

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

F. FACULTY

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

G. OTHERS

DATES NAME OF ADVISEE/MENTEE NAME OF PROGRAM

XII. ENGAGEMENT, COMMUNITY SERVICE/EDUCATION

<u>DATES</u>	<u>INSTITUTION/ORGANIZATION</u>	<u>COURSE/ACTIVITY TITLE</u>	<u>YOUR ROLE</u>	<u>HOURS/YEAR</u>
01/12/2019	Nathan Smith Society and Geisel Student Chapter of Physicians for Human Rights Annual Meeting	“A Planetary Health Perspective on Arsenic”	Invited speaker	2
02/23/2017	Geisel School of Medicine Student Chapter of “Citizen Physicians”	“Physicians as Public Health Advocates”	Invited speaker	1
09/26/2014	Science Pub Dartmouth College/ NSF Science Outreach Program	“Is Fracking on the Horizon? Feeling our Way to an Energy Future”	Co-faculty	2
09/2013	Science Pub Dartmouth College/ NSF Science Outreach Program	“Arsenic in our Food: Sources and Risks”	Co-faculty	2
July, 2011 and July, 2012	Health Careers Camp/ TDI	“Public Health Careers”- Presentation and Group Epidemiology Exercise	Guest faculty	3
2008- 2018	Town of Hanover, New Hampshire		Deputy Town Health Officer/ Town Health Officer	~20-30

XIII. RESEARCH ACTIVITIES

A. SPONSORED ACTIVITY (GRANTS AND CONTRACTS)

<u>DATES (START & STOP</u>	<u>PROJECT TITLE AND AWARD NUMBER</u>	<u>YOUR ROLE</u>	<u>PERCENT EFFORT</u>	<u>SPONSORING AGENCY</u>	<u>ANNUAL DIRECT COSTS OF THE AWARD</u>
2019- current	Children's Environmental Health and Disease Prevention Research Center at Dartmouth ES022832-01	Director, Community Outreach and Research Translation M. Karagas, PI	20%	NIEHS	\$113,158 NCE \$61,922 subaward institutional funds
2018- 2019	Children's Environmental Health and Disease Prevention Research Center at Dartmouth Supplemental Award ES022832-01S1	Core Director, Community Outreach and Translation (COTC) M. Karagas, PI	20%	NIEHS	\$204,905 total supplement \$32,293 subaward
9/21/2016- 8/21/2020	NIH IDEA States Pediatric Clinical Trial Network (C) UG1HD090877	Co-site Investigator P. Palumbo, PI	10%	NIH/NICHD	\$891,982
2013-2018	Children's Environmental Health and Disease Prevention Research Center at Dartmouth (C) NIEHS: P01 ES022832-01/ U.S. EPA RD835442-01	Core Director, Community Outreach and Translation (COTC) M. Karagas, PI	20%	NIEHS & EPA	EPA \$4,060,713 NIEHS \$4,528,552
2009*- 2013	Children's Environmental Health and Disease Prevention Research Center at Dartmouth (Formative Center Award) NIEHS P20 ES018175-01/ U.S. EPA ER834599	Member, Administrative Core, and leader of Community Outreach team *joined November, 2011 M. Karagas, PI	20%	NIEHS & EPA	NIEHS \$891,914 EPA \$1,079,663
2000 - 2001	"Employee Exposure System" (C)	Principal Investigator	n/a	DHMC Quality Research Grant Committee	\$10,000

B. PENDING SUBMISSIONS:

<u>DATES (START & STOP</u>	<u>PROJECT TITLE AND AWARD NUMBER</u>	<u>YOUR ROLE</u>	<u>PERCENT EFFORT</u>	<u>SPONSORING AGENCY</u>	<u>ANNUAL DIRECT COSTS OF THE AWARD</u>
9/1/2020- 8/31/2024	NIH Pediatric Clinical Trials Network (C)	Co-site Investigator (P. Palumbo PI)	5%	NIH	\$274,495

C. CLINICAL FACULTY:

<u>DATES</u> <u>(START & STOP)</u>	<u>NAME OF PROJECT</u>	<u>YOUR ROLE</u>	<u>PROTECTED TIME (I.E., FRACTIONAL FTE)</u>	<u>IRB APPROVAL (IF RELEVANT)</u>
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XIV. ENTREPRENEURIAL ACTIVITIES

None

XV. MAJOR COMMITTEE ASSIGNMENTS

NATIONAL:

<u>DATES</u>	<u>COMMITTEE NAME</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/AGENCY</u>
2017- Present	Board Exam Writing Committee, ABPM Public Health and General Preventive Medicine Exam	Chair	American Board of Preventive Medicine (ABPM) Chicago, IL
2017- Present	CME Maintenance of Certification (MOC) Subcommittee	Member	American College of Preventive Medicine (ACPM) Education Committee
2016- Present	Health Systems Transformation Task Force/ Curriculum Advisor	Invited member	American College of Preventive Medicine (ACPM) under grant from Centers for Disease Control and Prevention (CDC), Center for State, Tribal, Local and Territorial Support
2014- 2016	ABPM Examination Committee	Chair	American Board of Preventive Medicine (ABPM) Chicago, IL
2014 – 2016	Board Exam Writing Committee, ABPM Core Exam	Chair	American Board of Preventive Medicine (ABPM) Chicago, IL
2011– 2013	Milestones Committee for Preventive Medicine	Invited Member	Accreditation Council for Graduate Medical Education (ACGME) Chicago, IL
2006- 2007	Planning Committee for the CDC’s Tenth International Symposium on Biosafety	Invited Member, Occupational Medicine physician representation	Centers for Disease Control and Prevention Atlanta, GA
2003– 2014	Board Exam Writing committee, ABPM Public Health and General Preventive Medicine Exam	Invited Member	American Board of Preventive Medicine (ABPM) Chicago, IL

STATE/REGIONAL:

<u>DATES</u>	<u>COMMITTEE NAME</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/AGENCY</u>
2019- Present	NH State Health Improvement Plan Advisory Council	Invited Member	Commissioner NH Department of Health and Human Services

			Carolyn J. Murray, MD, MPH
2018- Present	Biomonitoring NH Technical Advisory Committee	Invited Member	Biomonitoring Program, NH Public Health Laboratories, Division of Public Health Services NH Dept of Health and Human Services
2010 – 2015	NH Occupational Health Surveillance Program Advisory Committee	Member	New Hampshire Occupational Health Surveillance Program, funded under NIOSH, Division of Public Health Services, NH Department of Health and Human Services
2009 – 2011	Advisory Committee	Member	Upper Valley Medical Reserve Corps
2008 – 2013	Advisory Committee	Member, Vice Chair	New Hampshire Physician Health Program
2000 – 2003	Advisory Committee on Needle Safety Devices	Physician Representative	New Hampshire Department of Labor
2000 – 2003	Needle Protection Device Committee	Member	Dartmouth Hitchcock Alliance/Dartmouth-Hitchcock Clinic
1998 – 2001	Latex Safe Committee	Chair	Dartmouth Hitchcock Alliance/Dartmouth-Hitchcock Clinic

INSTITUTIONAL:

<u>DATES</u>	<u>COMMITTEE NAME</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/AGENCY</u>
2019- Present	Residency Advisory Committee, Leadership Preventive Medicine Residency Program	External Member	Dartmouth-Hitchcock
2016- 2019	Medical Education Committee	Dept of Medicine representative	Geisel School of Medicine
2006	Internal Review Committee for Radiology Residency program	Chair	Dartmouth-Hitchcock GME
2004 – 2005	Ad Hoc Physician Compensation Committee	Member	Dartmouth-Hitchcock Clinic
2003 – 2004	Internal Review Committee for Dermatology Residency Program	Member	Dartmouth-Hitchcock GME
2003 – 2004	SARS Readiness Committee	Member	Dartmouth-Hitchcock
2002 – 2003	Smallpox Preparedness Planning Committee	Member	Dartmouth-Hitchcock
2002 – 2003	Search Committee, Director of Continuing Education in the Health Sciences	Member	Dartmouth-Hitchcock
2002 – 2004	Credentials Committee	Member	Mary Hitchcock Memorial Hospital
2001 – 2007	Clinical Gene Transfer Subcommittee of the IBC	Member	Dartmouth-Hitchcock/ Dartmouth College
2001 – 2002	Physiatry Search Committee	Co-Chair	D-H Spine Center
2000 – 2010	Dartmouth College Institutional Biosafety Committee (IBC)	Member	Dartmouth College
2000 – 2002	Multidisciplinary Hand Clinic Planning Group	Member	Dartmouth-Hitchcock
2000 – 2001	Preventive Medicine Residency Planning Group	Member	Dartmouth- Hitchcock
1999 – 2004	Dartmouth Women Faculty Group	Program Committee Member	Dartmouth-Hitchcock/ DMS
1998 – 2001	Latex Committee	Chair	Dartmouth-Hitchcock
1998 – 2001	Functional Restoration/Back Rehabilitation Program Work Group	Member	Dartmouth-Hitchcock Spine Center
1997 – 2007	Infection Control Committee	Member	DHMC
1997 – 1998	Spine Center Planning Committee	Member	Dartmouth-Hitchcock

DEPARTMENTAL:

<u>DATES</u>	<u>COMMITTEE NAME</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/AGENCY</u>
2018- present	Director of Education's Advisory Committee	Invited Member	Carolyn J. Murray, MD, MPH The Dartmouth Institute
2018	TDI Education Rapid Assessment Team	Invited Member	The Dartmouth Institute
2014- 2019	Curriculum Committee	Member	The Dartmouth Institute
2014- 2016	Admissions Committee	Member	The Dartmouth Institute
2007- 2012	Admissions Committee	Member	The Dartmouth Institute
2005 – 2006	MPH Curriculum Review Committee	Chair	Center for the Evaluative Clinical Sciences (now TDI)
2003 – 2006	Education Committee (DOMEC)	Member	Department of Medicine
2003 – 2004	Search Committee, Dermatology Section Chief	Member	Department of Medicine
2002 – 2003	Physician Search Committee, General Internal Medicine	Member	Department of Medicine
2002 – 2003	Physician Search Committee, Occupational Medicine	Chair	Department of Medicine
2000 – 2001	Educational Resource Value Units (ERVU) Subcommittee on Continuing Medical Education	Member	Department of Medicine
1999 – 2003	Internship Selection Committee	Member	Department of Medicine

XVI. MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES

ELECTED OFFICE:

<u>DATES</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/AGENCY</u>
2011 – 2017	Regent, Board of Regents	American College of Preventive Medicine (ACPM)
2000 – 2002	Regional Delegate	American College of Occupational and Environmental Medicine (ACOEM), House of Delegates
1998 – 2003	Member, Board of Directors	New England Regional Component Society (NECOEM), American College of Occupational and Environmental Medicine (ACOEM)

MEMBERSHIP:

<u>DATES</u>	<u>INSTITUTION/ORGANIZATION</u>
2015 – Current	International Society for Children's Health and the Environment (ISCHE)
2002 – Current	American Public Health Association
1999 – Current	American College of Preventive Medicine
1997 – Current	American College of Occupational and Environmental Medicine (ACOEM)
1997 – Current	New Hampshire Medical Society
1997 – Current	New Hampshire Public Health Association

XVII. INSTITUTIONAL CENTER OR PROGRAM AFFILIATIONS

<u>DATES</u>	<u>COMMITTEE NAME</u>	<u>YOUR ROLE</u>	<u>INSTITUTION/ORGANIZATION</u>
2011- current	Children's Environmental Health & Disease Prevention Research Center at Dartmouth	Director, Community Outreach and Translation Core	Geisel School of Medicine

XVIII. EDITORIAL BOARDS

- N/A

XIX. JOURNAL REFEREE ACTIVITY

<u>DATES</u>	<u>SOCIETY/JOURNAL</u>	<u>YOUR ROLE</u>	<u>FREQUENCY OF REVIEW FOR EACH JOURNAL/SOCIETY</u>
2001- 2002	Spine Journal	Reviewer	4/year
2010- 2011	Science of the Total Environment Journal (STOTEN)	Reviewer	3/year

XX. AWARDS AND HONORS

<u>DATES</u>	<u>AWARD/HONOR</u>
2009	Fellow, American College of Preventive Medicine (ACPM)
2001	Fellow, American College of Occupational and Environmental Medicine (ACOEM)
1991	Medical Director of the Year, Correctional Medical Systems
1990	Jail Health Care Project Award, Colorado Public Health Association/Colorado Medical Society
1985	Bowman Clinical Scholar Finalist, University of Virginia School of Medicine
1985	Geographic Medicine Scholarship, University of Virginia School of Medicine
1981	Bachelor of Science degree, Public Health, <i>summa cum laude</i> , University of California, Los Angeles

XXI. INVITED PRESENTATIONS**A. INTERNATIONAL:**

<u>DATES:</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
02/2008	CDC's Tenth International Symposium on Biosafety* "Evaluation and Management of Laboratory Exposures and Injuries"	Centers for Disease Control and Prevention *Also served on planning committee	Atlanta, GA

B. NATIONAL:

<u>DATES:</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
11/04/2019	"Engaging Key Stakeholders to Reduce Early Life Exposure to Arsenic in Drinking Water" *^	American Public Health Association (APHA) Annual Meeting Oral Presentation	Philadelphia, PA
05/21/2019	"Becoming Board Certified in General Preventive Medicine/Public Health" *^	American College of Preventive Medicine (ACPM) Annual Meeting Prevention 2019	Pittsburgh, PA
05/20/2019	"Preventive Medicine Board Certification Update for Residency Program Directors" *^	Preventive Medicine Residency Program Director's Meeting Prevention 2019, ACPM Annual Meeting	Pittsburgh, PA
11/13/2018	"Addressing Disparities in Drinking Water Protection: Report of an Intervention Study to Address Private Well Testing" *^	American Public Health Association (APHA) Annual Meeting Oral Presentation	San Diego, CA
05/23/2018	"Preventive Medicine Board Certification Update for Residency Program Directors" *^	Residency Program Director's Meeting Prevention 2018, ACPM Annual Meeting	Chicago, IL
05/02/2016	"Does Clinical Advice About Well Water Testing for Arsenic Make Any Difference?"	Pediatric Academic Society Meeting	Baltimore, MD

		Carolyn J. Murray, MD, MPH	
11/07/2017	“Mitigating Dietary Arsenic Exposure: Current Status in the U.S. and Recommendations for an Improved Path Forward”*^	American Public Health Association (APHA) Annual Meeting Oral Presentation	Atlanta, GA
10/30/2015	“Simplifying the Complicated: Leveraging Digital Media for More Effective Research Translation”*	NIEHS/EPA Children’s Environmental Health Annual Meeting	Washington, DC
12/17/2014	“Risk Communication Challenges Posed by Arsenic in Rice Cereal and Other Infant Food Sources” *	Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition, Meeting of the Food Advisory Committee	Washington, DC
3/21/2014	“Integration of Environmental Health Screening into Primary Care: The Case of Arsenic and Well Water”*^	Association of Prevention Teaching and Research (APTR) Annual Meeting	Washington, DC
2/21/2013	“Careers in Preventive Medicine and Public Health”*^	Prevention 2013, American College of Preventive Medicine Annual Meeting	Phoenix, AZ
02/20/2013	“Putting ACGME Milestones into Practice in Preventive Medicine Residency Programs”*^	ACGME Milestones Workshop Preventive Medicine Program Director’s Meeting	Phoenix, AZ
04/28/2005	“Best Practices in Health and Safety Programs: Lessons Learned at Dartmouth-Hitchcock Medical Center”*	Worker Health and Safety in Healthcare Conference, University of Massachusetts	Lowell, MA
05/02/2004	“Millennium Update on Occupational Musculoskeletal Care”*^	American Occupational Health Conference (AOHC)	Kansas City, MO
10/28/2002	“Upper Extremity Injuries in Health Care”*^	American College of Occupational & Environmental Medicine Scientific Meeting (SOTAC)	Baltimore, MD
03/22/2002	“The Dartmouth Leadership Preventive Medicine Residency Program – A New Model”*^	Association of Teachers of Preventive Medicine (ATPM) Annual Conference	Washington, DC
10/28/2001	Faculty for Seminar on Occupational Low Back Pain*^	American College of Occupational and Environmental Medicine (ACOEM) State of the Art Conference	Seattle, WA
10/3/2000	Invited participant, "Expert Panel on Low Back Pain- Creating a Consensus for Quality Indicators"*	University of Washington and State of Washington Department of Labor and Industries	Seattle, WA

C. REGIONAL:

<u>DATES:</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
04/11/2019	“Promoting Private Well Testing for Arsenic and Other Contaminants: What is the role of the Primary Care Clinician?” *^	Northern New England Nurse Practitioner Conference	Nashua, NH
03/29/2019	“Research Updates from the Dartmouth Children’s Environmental Health Center”*	Arsenic Consortium, NH Dept of Environmental Services	Concord, NH
02/20/2018	“Why Water Quality Matters: Drinking Water Contamination Issues in NH and Implications for Clinicians” *^	New London Hospital Medical Staff	New London, NH
01/28/2017	“Integrating Private Well Testing into Routine Pediatric Preventive Care: Lessons Learned and Next Steps” *^	Dartmouth CO-OP Annual Meeting	Meredith, NH
05/11/2016	“Arsenic in Drinking Water and Early Life Health Effects: Updates from the NH Birth Cohort Study” *	2016 NH Drinking Water Source Protection Conference, NH Dept of Environmental Services	Concord, NH

03/09/2015	“Arsenic in Food and Water: Pediatric Update”*^	Concord Hospital Department of Pediatrics	Concord, NH
03/19/2014	“Children’s Environmental Health Center Updates” with Margaret Karagas	NH Dept of Environmental Services Arsenic Consortium Meeting	Concord, NH
02/03/2012	“Translating Research into Practice: How do we educate and appropriately screen our patients for environmental exposures?” *^	Dartmouth Primary Care CO-OP Annual Meeting	North Conway, NH
02/2004	“Smallpox Vaccinations – Implications for Health Care Workers” *^	New Hampshire Dept. of Health and Human Services	Hanover, NH
10/16/2001	"Preventing Occupational Exposure to Bloodborne Pathogens: Implications for Emergency Medical Services" *^	Dartmouth-Hitchcock Regional Trauma Conference	Lebanon, NH
03/28/2001	"DHMC Spine Center and the National Spine Network Data System"*	Liberty Mutual Disability Research Center	Hopkinton, MA
11/1999	"Latex Allergy in Health Care Workers"*^	Rutland Regional Medical Center Medical Staff	Rutland, VT
07/1998	“Preventing Latex Allergy in Health Care Workers” *^	Valley Regional Hospital Medical Staff	Claremont, VT

D. INSTITUTIONAL:

<u>DATES:</u>	<u>TOPIC/TITLE</u>		
07/15/2016	“Population Health, Public Health and Health Care- Are We Confusing our Learners?” (<i>co-presented with Paul Gardent</i>)	TDI Teaching in Progress Seminar Series	
04/08/2015	“Public Health Week Ethics Session: Mandatory Vaccination?” with <i>William Nelson, PhD</i>	Dartmouth College Ethics Institute	
05/ 2013	“Health Effects of Early Life Exposure to Arsenic: Updates from the NH Birth Cohort Study” (<i>co-presented with Margaret Karagas</i>) *^	Department of Pediatrics Grand Rounds	
01/08/2010	“The Employer as Health Coach: Strategies and Challenges”	Leadership Preventive Medicine Grand Rounds	
11/9/2004	“Influenza Vaccination and the Health Care Worker: A Case Study in Real Time”	Leadership Preventive Medicine Evening Seminar	
06/21/2001	"Overview of Medical Surveillance Program for Blood and Body Fluid Exposures" (with Lisa Hegel, ARNP)	Hospital Infections Committee	
05/30/2001	"Prevention of Bloodborne Pathogen Exposures"	Department of Anesthesiology Quality Assurance Conference	
05/19/2001	"Prevention of Bloodborne Pathogen Exposures"	Department of Surgery Morbidity and Mortality Conference	
03/22/2001	"The Rise and Fall of the OSHA Ergonomic Standard" (with Brad Shedd, PT)	Spine Center Grand Rounds	
01/24/2001	"Occupational Medicine Overview"	Dick Hall's House Clinical Staff, Dartmouth College	
10/6/2000	“Hyperbaric Medicine: An Overview” (with Jay Buckey, MD)	Department of Medicine Grand Rounds	
03/30/2000	“Workers’ Compensation Issues for Family Practitioners”	Department of Family and Community Medicine	
03/23/2000	“Improving Outcomes in Occupational Low Back Pain”	Spine Center Grand Rounds	
03/09/2000	“Occupational Medicine Overview”	Department of Community and Family Medicine	

10/1999	"Latex Allergy Issues and Occupational Glove Use"	Carolyn J. Murray, MD, MPH Dartmouth College Environmental Health and Safety
03/1999	"Occupational Health Issues for Health Care Workers"	Presented to Community and Family Medicine Department Residents
03/1998	"Non-human Primates - Occupational Health Issues for Researchers and Animal Care Providers"	Dartmouth College Animal Resource Center staff
01/1998	"Skin Testing for Tuberculosis"	Dick's House, Dartmouth College
10/1997	"Repetitive Strain Injuries in the Workplace"	Multi-disciplinary Hand Conference, Section of Plastic Surgery

XXII. BIBLIOGRAPHY

A. Peer- reviewed publications in print or other media

1. Original peer-reviewed articles

Adachi-Mejia A, **Murray CJ**, Karagas M. "If Providers Had Recommended It, We Would Have Had It Tested": Rural Mother's Perspectives on Barriers and Facilitators to Testing for Arsenic in Their Well Water. *J Environ Health*. 2019;82(3): 26-32.

Baker BA, Cassano VA, **Murray C**; ACOEM Task Force on Arsenic Exposure. Arsenic Exposure, Assessment, Toxicity, Diagnosis, and Management: Guidance for Occupational and Environmental Physicians. *J Occup Environ Med*. 2018;60(12):e634–e639. doi:10.1097/JOM.0000000000001485

Nachman KE, Punshon T, Rardin AJ, **Murray CJ**, Jackson BP, Guerinot ML, Burk TA, Chen CY, Ahsan H, Argos M, Cottingham CL, Cubadda F, Ginsberg GL, Goodale BC, Kurzius-Spencer M, Meharg AA, Miller MD, Nigra AE, Pendergrast CB, Raab A, Feimer K, Scheckel KG, Schwerdtle T, Taylor VF, Tokar TW, Warczak TM, Karagas MR: "Opportunities and Challenges for Dietary Arsenic Intervention". *Environ Health Perspect*. 2018;126(8):84503. doi:10.1289/EHP399 <https://ehp-niehs-nih.gov.dartmouth.idm.oclc.org/doi/pdf/10.1289/EHP3997>.

He X, Karagas MR, **Murray C**. Impact of receipt of private well arsenic test results on maternal use of contaminated drinking water in a U.S. population. *Sci Total Environ*. 2018;643:1005–1012. doi:10.1016/j.scitotenv.2018.06.228

Nachman KE, Ginsberg GL, Miller MD, **Murray CJ**, Nigra AE, Pendergrast CB. Mitigating dietary arsenic exposure: Current status in the United States and recommendations for an improved path forward. *Sci Total Environ*. 2017;581-582:221–236. doi:10.1016/j.scitotenv.2016.12.112

Foster T, Regan-Smith M, **Murray C**, Dysinger W, Homa K, Johnson LM, Batalden PB. Residency education, preventive medicine, and population health care improvement: the Dartmouth-Hitchcock Leadership Preventive Medicine approach. *Acad Med*. 2008;83(4):390–398. doi:10.1097/ACM.0b013e3181667da9

Boulay BR, **Murray CJ**, Ptak J, Kirkland KB, Montero J, Talbot EA. An outbreak of pertussis in a hematology-oncology care unit: implications for adult vaccination policy. *Infect Control Hosp Epidemiol*. 2006;27(1):92–95. doi:10.1086/500420

Murray C, Haverkamp AD, Orleans M, Berga S, Pecht D. Nifedipine for treatment of preterm labor: a historic prospective study. *Am J Obstet Gynecol*. 1992;167(1):52–56. doi:10.1016/s0002-9378(11)91624-x

2. Reviews

Invited by Editors:

Murray, C, Review of "*Understanding Environmental Health: How We Live in the World, 2nd Edition*" by N.I. Maxwell, *JOEM* 55(10), October 2013. DOI: 10.1097/JOM.0000000000000002

Murray, C, Review of “*How Every Day Products Make People Sick: Toxins at Home and in the Workplace*”, by P.D. Blanc, University of California Press, 2007, JOEM 50(3):371-372, March 2008.

Murray, C. Point of View. Spine. 2002;27(10):1108-1109.

<http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=ovfte&NEWS=N&AN=00007632-200205150-00018>.

3. Book Chapters

Murray C, “Back Pain”, Chapter 9, in Family Medicine Clerkship Guide, Paulman, P, Editor, Mosby, Inc. 2005.

B. Other scholarly work in print or other media:

1. Editorially Reviewed Publications

Murray C, “Test Upper Valley Well Water for Arsenic”, Op-Ed, Valley News, 5/21/2015, URL: <http://www.vnews.com/home/16970529-95/column-test-upper-valley-well-water-for-arsenic>

Potterat, J, Muth, JB, and **Murray, C**. ‘Letter to Editor: Partner Notification’, *Annals of Internal Medicine*, 113(6):481, 1990.

2. Print resources

3. Electronic resources

Murray CJ. *The DALI Project: Arsenic in our Food Supply and What You Can Do About It - A digital educational tool*, Neukom Digital Arts and Leadership Innovation Lab (DALI Lab) at Dartmouth, 2015. (I worked with student programmers to conceive of the concept, edit content, collaborate with student designers and ensure scientific accuracy of the [Arsenic in our Food Supply Digital tool](#).) This digital tool has been accessed widely in NIEHS publications, and [newsletters](#), and is incorporated as an interactive tool in numerous educational websites. (e.g. [Arsenic and You](#), PEPH Resource Library). It has also been used by Dartmouth’s DALI Lab to showcase student design talents.

<http://dali.dartmouth.edu/projects>

Websites

As part of the Community Outreach and Translation Core, I have overseen the development of web resources for our key stakeholders, including participants in the New Hampshire Birth Cohort Study. This has involved editing, formulating social media strategies, and Blog posts and working within a communication platform with the other NIEHS/EPA Children’s Environmental Health Centers.

[Children’s Environmental Health and Disease Prevention Research Center at Dartmouth website](#)

[Arsenic and You: Information on Arsenic in Food, Water and Other Sources](#) I contributed to the content development of this web resource including editing for scientific accuracy and appropriate risk communication as well as ongoing updates and revisions. The DALI lab tool described above is embedded into this website as a visual learning tool.

4. Large-team publications:

NIEHS/EPA Children’s Environmental Health and Disease Prevention Research Centers *Impact Report*, October 2017. (Drafted and edited Dartmouth Center related content, document reviewer.)

https://www.epa.gov/sites/production/files/2017-10/documents/niehs_epa_childrens_centers_impact_report_2017_0.pdf?pdf=childrens-center-report

C. ABSTRACTS/ POSTER PRESENTATIONS

Sayarath, V., **Murray, C.**, Karagas, M. (2020), “Development of Health Communication Strategies in a Children’s Environmental Health Center: The Past, The Present and the Future”. Poster, Partnerships for Environmental Public Health Annual Meeting, February 12-13, 2020, Durham, NC. #

He, X., Karagas, M., **Murray, C.**, LaFlamme, D. (2018), “The relationship between pregnancy intention, private well testing advice and testing behavior: An analysis of NH 2013-2015 Pregnancy Risk Assessment Monitoring System Data”, New England Superfund Annual Meeting, Wood’s Hole, MA.

Murray, C., Madan J., Karagas, M. et al. (2017) “Should Rice Cereal be an Infant’s First Food?”, Children’s Environmental Health and Disease Prevention Research Centers Annual Meeting, San Francisco, CA. #

Murray, CJ., Larson, RL. (2017) “Determinants, Designs and Data Sources: Integrating Core Public Health Concepts and Data Sources in an Introductory Foundations Course”, Poster, Association of Schools and Programs of Public Health (ASSPH) Annual Meeting, Washington, DC. #

Zbehlik, A., **Murray, C.**, Merrithew, R., et al. (2012) “The Use of Electronically Reported Occupational Injury Data to Populate a Dashboard to Improve State Occupational Health Surveillance”, Poster Session, American College of Preventive Medicine Annual Meeting, Orlando, FL. #

Murray, C., & Hegel, L. (2001) “Improving an Employee Exposure Reporting System”. National Institute of Occupational Health and Safety (NIOSH) Symposium on Best Practices in Medical Surveillance. Cincinnati, OH. #

Appendix: Log of CV revisions