

Esther Debra Chernak, MD, MPH, FACP

PERSONAL INFORMATION

Work Address: Division of Environmental and Occupational Health
Nesbitt Hall, 3215 Market Street, Room 615
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Ambulatory Health Services
Philadelphia Department of Public Health
500 S. Broad Street, 3rd Floor
Philadelphia, PA 19146
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EDUCATION/POST GRADUATE TRAINING

College/University Princeton University, Princeton, New Jersey
A.B. in Comparative Literature, September 1979 – June 1982

Medical School UMDNJ-Robert Wood Johnson Medical School
Piscataway, New Jersey
M.D., September 1982 – June 1986

Internship Department of Internal Medicine, Michael Reese Hospital
Chicago, Illinois
July 1986 – June 1987

Residency: Department of Internal Medicine, Michael Reese Hospital
Chicago, Illinois
July 1987 – June 1989

Fellowship Infectious Diseases, Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania, July 1989– June 1991

Other Masters Degree in Public Health and General Preventive Medicine
Medical College of Wisconsin, Milwaukee, Wisconsin
July 1997 – June 2002

PRESENT POSITIONS

June 2016 – present Associate Professor, Department of Medicine
Drexel University College of Medicine
Philadelphia, Pennsylvania
Course Director, “Frontiers” (population health, health systems science content for medical students in pre-clinical years)

July 2010 – present Associate Clinical Professor, Environmental and Occupational Health
Director of the Center of Public Health Readiness and Communication
Director, MD/MPH Program (2016-present)
Director, Graduate Minor in Infectious Diseases (2018-present)

E. Chernak, MD, MPH, FACP

Director, Graduate Minor in Public Health Preparedness (2019-present)
Dornsife School of Public Health, Drexel University
Philadelphia, Pennsylvania

September 2009 – present Medical Specialist, Infectious Diseases
Division of Ambulatory Health Services
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS

July 1991– May 1994 Director of Clinical HIV Services
Division of Ambulatory Health Services
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

October 1994 – August 1997 Medical Specialist – Public Health Physician
Acute Communicable Disease Control Program
Division of Disease Control
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

November 1997 – April 1998 Contractor, Yoh Scientific, for Merck & Company
Report Evaluation and Safety Surveillance
Worldwide Product Safety and Epidemiology
Merck Research Laboratories, Merck & Co., Inc.
West Point, Pennsylvania

January 1998 – Dec 2002 Staff Physician, Public Health Infectious Diseases Clinics
Montgomery County Department of Health
Abington, Pennsylvania and Norristown, Pennsylvania

September 1999 – Jan 2000 Consultant/Manuscript Preparation
Adult Vaccines, Biologicals Research Division
SmithKline Beecham Pharmaceuticals
Collegeville, Pennsylvania

December 1999 – Sept 2008 Medical Specialist - Public Health Physician
Acute Communicable Disease Control Program
Program Manager, Public Health Preparedness Program
Division of Disease Control
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

September 2000 – June 2001 Medical Director (part-time position)
Montgomery County Health Department
Montgomery County Human Services Center
Norristown, Pennsylvania

October 2007 – July 2009 Program Manager and Medical Director
Acute Communicable Disease Control Program
Public Health Emergency Preparedness Program

Division of Disease Control
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

Adjunct Academic and Staff Appointments:

1991–1999	Adjunct Assistant Professor Infectious Diseases Section, Department of Medicine University of Pennsylvania School of Medicine Philadelphia, Pennsylvania
1998 – 2002	Consultant in Infectious Diseases Abington Memorial Hospital Abington, Pennsylvania
2010	Adjunct Assistant Professor Drexel University School of Public Health Philadelphia, Pennsylvania
2010 – 2015	Associate Member of Medical Staff Methodist Hospital Philadelphia, Pennsylvania
2016-present	Member of Medical Staff Department of Medicine, Infectious Diseases Mercy Philadelphia Hospital Philadelphia, Pennsylvania

MEDICAL LICENSURE

Commonwealth of Pennsylvania (MD-043645-E)

BOARD CERTIFICATION

Diplomate in Infectious Disease, 1992, 2002, 2012, American Board of Internal Medicine (#125632)
Diplomate in Internal Medicine, 1989, American Board of Internal Medicine (#125632)
Diplomate, 1987, National Board of Medical Examiners (#322405)

HONORS AND AWARDS

1989	Housestaff Teacher of the Year (Jordan J. Cohen Award) Michael Reese Hospital, Chicago, Illinois
2003	Art Blackshaw Award for Courage (Contributions to Terrorism Preparedness) Thomas Jefferson University, Philadelphia, PA
2005	Award for Outstanding Services to the Citizens of the Southeast Region of Pennsylvania and Southeastern Pennsylvania Regional Anti-Terrorism Task Force
2005	Delta Omega Society, Alumni inductee to the Alpha Omicron Chapter at the Medical College of Wisconsin, inducted May 20, 2005 (National Honorary Public Health Society, recognition of efforts in public health and preventive medicine)

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- 2017 Golden Apple Award for Excellence in Teaching
Dornsife School of Public Health, Drexel University
- 2018, 2020 Golden Apple Award for Excellence in Teaching
Drexel University College of Medicine
- 2019 Alpha Omega Alpha Honor Medical Society, Delta Zeta Chapter
Drexel University College of Medicine, inducted March 6, 2019

PROFESSIONAL AND SOCIETY MEMBERSHIPS

Infectious Disease Society of America (Member, 1991-present)
American College of Physicians (Member, 1987-present; Elected to Fellowship in March 2010)
American Public Health Association (Member, 1994-present)
Council of State and Territorial Epidemiologists (Member, 2003 - 2013)
College of Physicians of Philadelphia, Fellow (Elected April 2014), and member of the Section on Public Health and Preventive Medicine (1996-present)

EDITORIAL ACTIVITIES

Editorial Advisory Board Member, History of Vaccines website
College of Physicians of Philadelphia, Philadelphia, Pennsylvania, 2009-present

Director, National Resource Center on Advancing Emergency Preparedness for Culturally Diverse Communities (diversitypreparedness.org - web-based clearinghouse for resources related to emergency preparedness for culturally diverse communities), operated by Dornsife School of Public Health, Drexel University, 2010-present

Publication Review:

American Journal of Public Health (*ad hoc* reviewer)
Annals of Internal Medicine (*ad hoc* reviewer – recognized for outstanding reviews)
Pediatrics (*ad hoc* reviewer)
Health Equity (*ad hoc* reviewer)
Clinical Infectious Diseases (*ad hoc* reviewer)
International Journal of Infectious Diseases (*ad hoc* reviewer)

COMMITTEE, ADMINISTRATIVE APPOINTMENTS, AND SERVICE

Drexel University

- 2012– 2015 Member, Admissions Committee
Dornsife School of Public Health, Drexel University
Philadelphia, Pennsylvania
- 2013 – present Member, Drexel School of Public Health Emergency Preparedness Committee
and Drexel University Closed Point of Dispensing Planning Committee
Drexel University, Philadelphia, Pennsylvania
- 2014 – 2015 Member, Search Committees for Chairs of Departments of Health Management
and Policy and Environmental and Occupational Health
Dornsife School of Public Health, Drexel University
Philadelphia, Pennsylvania
- 2015 – 2016 MPH Curriculum Revision Task Force and Core Curriculum Revision Workgroup
Dornsife School of Public Health, Drexel University

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Philadelphia, Pennsylvania

- 2016- present Member, Executive Committee of the Faculty (Vice Chair 2018/19;
Chair, 2019/20)
Dornsife School of Public Health, Drexel University
Philadelphia, Pennsylvania
- 2018-2019 Dean's 5-year Review Committee, Dornsife School Public Health
Drexel University
- 2018 – present Professionalism Advisory Board (Faculty Advisor for Students)
Drexel University College of Medicine
- 2019 – 2020 Member, Program Alignment Review Committee
Department of Environmental and Occupational Health
Dornsife School of Public Health, Drexel University
- 2019 – present Interviewer, Medical school applicants
Drexel University College of Medicine
- 2020-present Chair, Scientific Advisory Committee
Drexel University COVID Pandemic Response Oversight Committee
Philadelphia, Pennsylvania
- 2020-present Member, Essential Travel Review Committee, Office Global Engagement
Drexel University (advises re: travel policy during COVID pandemic)
- 2020-present Member, Ad hoc Task Force on Shared Governance
Dornsife School of Public Health, Drexel University
- 2020-2021 Member, School Council (pilot)
Dornsife School of Public Health, Drexel University

Extramural and Community Service

- 1991–1994 Member, Formulary Committee
Ambulatory Health Services
Philadelphia Department of Public Health
Philadelphia, Pennsylvania
- 1991–1994 Co-Chair, Clinical Care Subcommittee
Planning and Evaluation Committee
The Philadelphia AIDS Consortium
Philadelphia, Pennsylvania
- 1992–1997 Member, Committee on the Protection of Human Subjects
(Institutional Review Board)
Philadelphia Department of Public Health
Philadelphia, Pennsylvania
- 1992– 1997 Board Member, Philadelphia FIGHT (Field Initiating Group for HIV Trials)
Community Research Initiative of Philadelphia

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- Philadelphia, Pennsylvania
- 1992 –1994 Board Member, Circle of Care
Pediatric AIDS Demonstration Grant Project
Philadelphia, Pennsylvania
- 1992– 1994 Member, District Health Centers Task Force
City of Philadelphia Department of Public Health
Philadelphia, Pennsylvania
- 1993 –1994 Board Member, The Philadelphia AIDS Consortium
Philadelphia, Pennsylvania (Regional HIV Planning Council)
- 1993 –1994 Member, Planning and Evaluation Committee
The Philadelphia AIDS Consortium
Philadelphia, Pennsylvania
- 1995 –2002 Member, Professional Advisory Board
Visiting Nurse Association of Greater Philadelphia
Philadelphia, Pennsylvania
- 2001– 2006 Public Health Subcommittee Chair (2001-2005) and Member
Southeastern Pennsylvania Regional Counterterrorism Task Force and Delaware
Valley Regional Bioterrorism Working Group
- 2006 – 2007 Member, Philadelphia Emergency Preparedness Review Committee (convened
by Mayor Street to assess City of Philadelphia’s preparedness for emergencies)
Public Health and Hospitals Sub-committee
- 2007 – 2014 Advisory Board, Disaster Medicine and Management Program
Philadelphia University, Philadelphia, Pennsylvania
- 2007 –2009 Member, Infection Control Committee
Philadelphia Department of Public Health
Philadelphia, Pennsylvania
- 2008 –2009 Founding Member, Philadelphia *Ad-hoc* Task Force to Address Hepatitis B
Infection in Asian-Pacific Islanders
Philadelphia, Pennsylvania
- 2008 – 2014 Member, Advisory Committee to Joint State Government Commission to Update
Pennsylvania’s Public Health Law (authorized by 2007 Pennsylvania Senate
Resolution No. 194), Harrisburg, Pennsylvania
- 2009 – 2018 Community Member, Childrens Hospital of Philadelphia
Infection Prevention and Control Committee of the Medical Staff
Philadelphia, Pennsylvania
- 2011– 2016 Member, Statewide Advisory Committee for Preparedness
Pennsylvania Department of Health

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- 2012– 2016 Member, Stakeholder Group, Community Health Resilience Initiative
U.S. Department of Homeland Security
- 2017 – present Member and Coordinator, Infection Control Committee and Emergency
Management Committees
Division of Ambulatory Health Services
Philadelphia Department of Public Health
Philadelphia, Pennsylvania

EDUCATIONAL ACTIVITIES

Courses at Dornsife School of Public Health:

Overview of Global Health, Introduction to Environmental and Occupational Health, Public Health Emergency Preparedness, Preparation for Independent Work in Public Health, Microbes in Public Health Practice

Courses at Drexel University College of Medicine:

Frontiers 1 and 2 Course Director (course in pre-clinical phase of medical school: topics in statistics, epidemiology, research in health sciences, health care policy, US health system, health care quality and improvement, public health and prevention)

Preceptor for Professionalism Formation course, Phase 2 medical students

Academic Programs, Drexel University:

- 2016- present Director, MD/MPH Dual Degree Program, Drexel University
- 2017 – present Director Public Health Scholars Program, Drexel University College of Medicine
- 2018 – present Director, Graduate Minor in Infectious Diseases, Dornsife School of Public
Health
- 2019 – present Director, Graduate Minor in Public Health Emergency Preparedness, Dornsife
School of Public Health
- 2020 – present Director, Certificate in Infection Prevention and Control, Dornsife School of
Public Health

Advising and Mentoring

Philadelphia Department of Public Health:

- 1996 Community preceptor at Philadelphia Department of Public Health for Temple University
Internal Medicine Resident Susan Franzel-Levine, MD, MPH, Public Health Rotation
during Internal Medicine residency. Student was winner of Kass Award from Infectious
Diseases Society of America for survey of Philadelphia clinical laboratories re: drug-
resistance and *Streptococcus pneumoniae*.
- 2003 Served as community preceptor at Philadelphia Department of Public Health for Drexel
University Public Health Student (Nilani Jayatilaka, MPH), Masters Project (Capacity
assessment of emergency preparedness capabilities of Federal Health Centers in
Philadelphia.)
- 2002 – 2009 Field Supervisor for CDC Epidemic Intelligence Service Officers (EIS) assigned to
Philadelphia Department of Public Health Division of Disease Control; 2002-2004,
2005–2007, 2007-2009.

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2003 – 2009 Field Supervisor for CDC Career Epidemiology Field Officers (CEFO) assigned to the Philadelphia Department of Public Health Division of Disease Control; 2003-2009.

Drexel University, 2010-present:

Masters students in public health (MPH degree) thesis advisor:

Ashley Kenworthy Orr, Terry Dugan, Anastasiya Kamenko, Demetrios Pazaharias, Julia Wells, Anna Katenta, Asha Dorsey, Audun Lier, Ry Bloomdahl, Shannon Keisling, Yetunde Akinde, Brian Lefchak, Julie Hyppolite, Heather Conway, Sierra Wallace, Amanda Spear, Peyton Scott, Karen Lazarus, Janelle Edwards, Casey Leech, Josh Dossick, Stephanie Steiner, Patrycja Dziekonska

Doctoral students:

Suzy Redington, DrPH 2017, Drexel University Dornsife School of Public Health, Department of Community Health and Prevention. “Examining the Perceived Willingness and Ability of Public Works Staff to Respond During a Public Health Emergency: A Mixed Methods Study.”

Rachel Peters, DrPH 2020, Drexel University Dornsife School of Public Health, Department Health Management and Policy. “Health Status and Health Care Utilization Among Insured and Uninsured Patients in Urban Federally Qualified Health Centers” and A Mixed Methods Analysis of Reasons for Being Uninsured Among Patients at an Urban FQHC.” and “Policy Analysis: Strategies to Increase Health Insurance Uptake Among Community Health Center Patients.”

Erica Smith, PhD 2019, Drexel University Dornsife School of Public Health, Department of Epidemiology. “Social Determinants of Health as Upstream Risk Factors for *Salmonella* and *Campylobacter* Infections in Pennsylvania.”

Nguyen Tran, PhD candidate Drexel University Dornsife School of Public Health, Department of Epidemiology. “Evaluating the Mechanism of Behavioral Risk Compensation due to HIV Pre-exposure Prophylaxis among Gay, Bisexual and Men Who Have Sex with Men.”

Meredith Parrado, Doctor of Health Science candidate, Drexel University College of Nursing and Health Professions. “A Quantitative Analysis of national Public Health and Preparedness Frameworks and their Impact on Community and At-Risk Population Preparedness in Fifty States and Washington, DC”

CLINICAL ACTIVITIES (Current)

2009 – present	Infectious Disease/Internal Medicine clinician Division of Ambulatory Health Services, Philadelphia Department of Public Health
2017 – present	Member and Coordinator, Infection Control Committee and Emergency Management Committees, Division of Ambulatory Health Services Philadelphia Department of Public Health Philadelphia, Pennsylvania

SUPPORT – FUNDED GRANTS AND CONTRACTS

1992-1994	Family-Centered HIV Care Program, Strawberry Mansion Health Center, Philadelphia Department of Public Health, supported through the Circle of Care, Ryan White Title IV, HRSA
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E. Chernak, MD, MPH, FACP

- Role: Project Director/Principal Investigator
- 1993-1994 HIV Early Intervention Program in West Philadelphia, Philadelphia Department of Public Health, Ryan White Title IIIb, HRSA
Role: Project Director
- 1993-1994 HIV Early Intervention Demonstration Project in North Philadelphia, Philadelphia Department of Public Health, Centers for Disease Control and Prevention
Role: Project Director
- 2005 – 2006 CDC Health Alert Network Grant Award to Philadelphia Department of Public Health (H75/CCH324930-01)/CC Johnson, Principal Investigator
Role: Project Director
- 2000 – 2003 Metropolitan Medical Response System, Biological Preparedness Department of Health and Human Services, UPHS Region III Pennsylvania Emergency Management Agency, Philadelphia Office Emergency Management
Role: Public Health Coordinator for Biological Response Plan
- 2004 – 2009 CDC Public Health Preparedness Cooperative Agreement /Pandemic Preparedness, Contract with Pennsylvania Department of Health
Role: Project Manager, 2004-2008
- 2007 – 2009 CDC Cooperative Agreement with Philadelphia Department of Public Health, Enhanced Epidemiology and Laboratory Capacity (ELC) for Infectious Diseases (PA 99032, Philadelphia Department of Public Health, C. Johnson Principal Investigator).
Role: Public Health Physician/Project oversight, 2007-2009
- 2007 – 2009 CDC Cooperative Agreement with Philadelphia Department of Public Health Adult Viral Hepatitis Coordination Grant
Role: Project Manager
- 2011-2016 Pennsylvania Department of Health Contract with Drexel University. Total funding \$1,613,485; Direct: \$1,372,047
Public Health Risk Assessment and Community Preparedness Projects for the Philadelphia Metropolitan Area and Commonwealth of Pennsylvania
Role: Principal Investigator
- 2012 – 2013 Integrating Human Service Agencies into Emergency Preparedness Planning and Response. Total funding \$59,395; Direct \$53,030
Grant from the United Way of Southeastern Pennsylvania, January 2012 – June 2013
Role: Principal Investigator
- 2013-2013 Ethical Issues Related to Vaccine Mandates in Healthcare Professionals (white paper)
Grant from National Vaccine Program Office (PI: Yudell) Total funding \$26,395
US Department of Health and Human Services, January 2013-July 2013
Role: Co-Investigator
- 2014 – 2016 Impact of Public Health Laws on Electronic Disease Surveillance. Total funding \$190,433; Direct: \$170,030

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- Grant from Robert Wood Johnson Foundation (PI: Buehler/Purtle)
Role: Co-Investigator
- 2016-2019 Effective Communications in Public Health Emergencies – Developing Community Centered Tools for People with Special Health Care Needs. Total funding \$1,147,856; (Direct: \$733,591)
Center for Disease Control and Prevention, BAA 2016-N-17770
Role: Principal Investigator
- 2018 Climate and Urban Systems Partnership (CUSP). Total funding \$2,000
Collaboration with Physicians for Social Responsibility and Philadelphia academic health centers, Philadelphia Chapter; grant for educational program development
Franklin Institute, Philadelphia, Pennsylvania
Role: Lead, Drexel University
- 2018 Public Health Risk Assessment Analysis Project for Southeastern Pennsylvania Region and 5 SE PA counties; Total funding \$10,000
Sponsored by Chester County Health Department
Role: Principal Investigator
- 2018 – 2022 Home Assessments for Patients and Families with Special Health Care Needs: Developing Tools, Communication Strategies, and Standards (PI: Turchi). Total funding \$1,619,304 (Direct: \$1,034,699)
Centers for Disease Control and Prevention, BAA 2018 - 67817
Role: Co-Investigator
- 2019 – 2020 Grace and Harold Memorial Sewell Fund, Health Science Librarian Fellowship in Public Health and Preparedness. Total funding \$70,000.
Role: PI
- 2019 – 2020 Review and Evaluation Human Health Effects and Toxicology Data, Epidemiology Studies, Reports for PFAS (PI: Hamilton), PA Department Environmental Protection
Total funding \$315,073 (Direct \$137,427).
Role – key personnel
- 2020 – 2021 Training and Protocols for Safe Disinfection Practices in Schools, Day Care Centers (PI: Fagliano), PA Department of Health/CDC. Total funding \$34,000 (\$29,488 Direct).
Role: Co-I

BIBLIOGRAPHY

Publications (peer-reviewed)

Chernak ED, Dubin G, Henry D, Naides SJ, Hodinka RL, MacGregor RR, Friedman HM. Infection due to parvovirus B19 in patients infected with human immunodeficiency virus. *Clinical Infectious Diseases* 1995;20:170-173.

Dubin G, **Chernak ED**, Friedman HM. Letter. *Clinical Infectious Diseases*. 1996;22:199-200.
Sikand VK, Halsey N, Krause PJ, Sood SK, Geller R, Van Hoecke C, Buscarino C, Parenti D. Safety and immunogenicity of a recombinant *Borrelia burgdorferi* outer surface protein A vaccine against Lyme

disease in healthy children and adolescents: a randomized controlled trial. *Pediatrics* 2001; 108:123-128. (drafted manuscript for SmithKline Beecham).

Centers for Disease Control and Prevention. Outbreaks of *Escherichia coli* O157:H7 infections among children associated with farm visits – Pennsylvania and Washington, 2000. *MMWR Morbidity Mortality Weekly Report*. 2001;50(15) 293-7. (contributed to report).

“Public Health Dispatch – Outbreak of Listeriosis – Northeastern United States, 2002.” *MMWR*. 2002. 51(42): 950-1. (contributed to report).

“Severe *Clostridium difficile*-associated disease in populations previously at low risk – four states, 2005.” *MMWR* 2005. 54(47);1201-1205. **E Chernak**, CC Johnson, Philadelphia Department of Public Health; A Weltman, Pennsylvania Department of Health; LC McDonald, Lwiggs, G Killgore, A Thompson, Division of Healthcare Quality Promotion, National Center for Infectious Diseases, Centers for Disease Control and Prevention (CDC); M LeMaille-Williams, E Tan, FM Lewis, EIS Officers, CDC.

Sami L. Gottlieb, E. Claire Newbern, Patricia M. Griffin, Lewis M. Graves, R. Michael Hoekstra, Nicole L. Baker, Susan B. Hunter, Kristin G. Holt, Fred Ramsey, Marcus Head, Priscilla Levine, Geraldine Johnson, Dianna Schoonmaker-Bopp, Vasudha Reddy, Laura Kornstein, Michal Gerwel, Johnson Nsubuga, Leslie Edwards, Shelley Stonecipher, Sharon Hurd, Deri Austin, Michelle A. Jefferson, Suzanne D. Young, Kelley Hise, **Esther D. Chernak**, Jeremy Sobel, and the Listeriosis Outbreak Working Group. Multistate outbreak of listeriosis linked to turkey deli meat and subsequent changes in US regulatory policy. *Clinical Infectious Diseases* 2006; 42: 29 – 36.

Lewis FMT, **Chernak E**, Goldman E, Li Y, Karem K, Damon IK, et al. Ocular vaccinia infection in laboratory worker, Philadelphia, 2004. *Emerg Infect Dis* [serial on the Internet]. 2006 Jan . Available from <http://www.cdc.gov/ncidod/EID/vol12no01/05-1126.htm>.

Agocs M, Fitzgerald S, Alles S, Sale GJ, Spain V, Jasper E, Grace TL, **Chernak E**. Field testing a head-of-household method to dispense antibiotics. *Biosecurity and Bioterrorism* 2007;5(3):255-267.

Uscher-Pines L, **Chernak E**, Alles S, Links J. College and university planning for pandemic influenza: a survey of Philadelphia schools. *Biosecurity and Bioterrorism* 2007;5(3):249-254.

Sinclair JR, Newton A, Hinshaw K, Fraser G, Ross P, **Chernak E**, et al. Tularemia in a park, Philadelphia, Pennsylvania [letter]. *Emerg Infect Dis* [serial on the Internet]. 2008 September. Available from <http://www.cdc.gov/EID/content/14/9/1482.htm>.

“Human Orf Infection from Household Exposures – United States, 2009-2011.” Centers for Disease Control and Prevention, *Morbidity Mortality Weekly Report*, April 13, 2012 / 61(14);245-248. Reported by Isaac I Bogoch, MD, Rajesh T. Gandhi, MD, Yuval Bibi, MD, Voraphat Dejsuphong, MD, Catherine M. Brown, DVM, David Enis, MD, George Cotsarelis, MD, **Esther Chernak, MD**, Donald Poretz, MD, Whitney Davidson, MPH, Hui Zhao, MD, Yu Li, PhD, Jennifer M. Bass, Danielle M. Tack, DVM, EIS Officer, CDC. Corresponding contributor: Jennifer M. Bass.

Hipper T, Orr A, **Chernak E**. Are Human service agencies ready for disasters? Findings from a mixed methods needs assessment and planning project. *Health Security* 2015;13(2)106-114.

Cynthia F. Hinton, Stephanie E. Griese, Michael R. Anderson, **Esther Chernak**, Georgina Peacock, Phoebe G. Thorpe,; Nicole Lurie.”CDC Grand Rounds: Addressing Preparedness Challenges for Children

in Public Health Emergencies.” Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report, September 11, 2015/ 64(35);972-974.

Purtle J, Field RI, Hipper T, Nash-Arot J, **Chernak, E**, Buehler JW. The Impact of Law on Syndromic Disease Surveillance Implementation, *Journal of Public Health Management and Practice* 2017; (published ahead of print).

Peters R, Hipper T, **Chernak E**. Primary Care Medical Practices – Are Community Healthcare Providers Ready for Disasters? *Disaster Medicine Public Health Preparedness*, February 2018 available at <https://doi.org/10.1017/dmp.2018.13>

Hipper T, Davis R, Turchi R, Massey P, Lubell K, Pechta L, Rose D, Franks F, Briseno L, Wolkin A, **Chernak E**. The Disaster Information Needs of Families of Children with Special Healthcare Needs: A Scoping Review. *Health Security*, May/June 2018, volume 16(3).

Peters R, Hipper T, Kricun H, **Chernak E**. A Quantitative Public Health Risk Assessment Tool Planning for At-Risk Populations. *American Journal of Public Health*, 2019;109:(S4) pp S286-289. doi: 10.2105/AJPH.2019.305181)

Books, Chapters

Chernak ED, DiNubile M. Infections in the Pharmacologically Immunosuppressed Patient. In: Mandell BF, ed., Acute Rheumatic and Immunological Diseases: Management of the Critically Ill Patient. New York: Marcel Dekker, 1994:27-56. (chapter)

E. Chernak. Planning and Budgeting for Public Health Emergencies. In: Levy B. editor, Mastering Public Health – Essential Skills for Effective Practice. Oxford University Press. 2012. (chapter)

Chernak, Esther. Evolving and Emerging Threats – New Disease Patterns and Resistant Microbial Strains. In: LeBlanc TT and Kim-Farley R., eds. Public Health Emergencies: Case Studies, Competencies, and Essential Services of Public Health. Springer Publishing, December 2021 (chapter)

Other Communications: White Papers, Educational Programs

Preparing for Public Health Emergencies: A Planning Aid for Public Health and Health Care Professionals, February 2013 [Preparing for Public Health Emergencies: A Planning Aid for Public Health and Healthcare Professionals | Drexel Dornsife School of Public Health](#) (sponsored by PA DOH/CDC)

Ensuring the Delivery of Human Services in Disasters: A White Paper for Southeastern Pennsylvania, June 2013 [Ensuring the Delivery of Human Services in Disasters | Drexel Dornsife School of Public Health](#) (sponsored by United Way of Southeastern Pennsylvania).

Integrating Community Pediatricians into Public Health Preparedness and Response – white paper and Communications Toolkit for Pediatric Practices, June 2013 [Integrating Community Pediatricians into Public Health Preparedness & Response | Drexel Dornsife School of Public Health](#) (sponsored by PA DOH/CDC)

Guidelines for Responder Safety in Public Health Emergencies: A Framework for the PA Department of Health (also presented at National Preparedness Summit), June 2014 [Responder PH Safety Guidance_Final_2014.ashx \(drexel.edu\)](#) (sponsored by PA DOH/CDC)

Primary Care Medical Practices and Public Health Preparedness – Checklist, planning guidance and other emergency readiness tools for medical practices, June 2014 [Primary Care Medical Practices and Public](#)

[Health Emergency Preparedness | Drexel Dornsife School of Public Health](#) (sponsored by PA DOH/CDC).

“Emergency Preparedness and Primary Care Medical Practices” Series of six webinars sponsored by Drexel University School of Public Health and PA Department of Health, in collaboration with the Pennsylvania Medical Society and Pennsylvania Academy of Family Physicians, January 2015; archived and available at <https://www.pamedsoc.org/learn-lead/topics/emergency-preparedness>.

Social Media Message Library – web-based resource for public health and health care professionals to support communications during public health emergencies. [Social Media Message Library | Drexel Dornsife School of Public Health](#) (sponsored by PA DOH/CDC)

Risk, Crisis, and Emergency Communication Video Training Series – web-based trainings in crisis communication for public health and health care professionals. [Risk, Crisis, and Emergency Communication Video Training Series | Drexel Dornsife School of Public Health](#) (sponsored by PA DOH/CDC)

Disaster Preparedness Toolkit for Families with Children with Special Health Care Needs, 2021. [Disaster Preparedness Toolkit for Families with Children with Special Health Care Needs | Drexel Dornsife School of Public Health](#) (sponsored by CDC).

INVITED LECTURES AND PRESENTATIONS

“Clinical Care and HIV Disease,” presentation to The Philadelphia AIDS Consortium (Regional Ryan White HIV Planning Council), September 30, 1992.

Testimony at Philadelphia City Council Hearings addressing HIV, Tuberculosis, and Sexually Transmitted Diseases, on behalf of Philadelphia Department of Public Health. “HIV Clinical Services provided by the Department of Public Health,” May 5, 1993.

“Early Intervention Demonstration Project in North Philadelphia,” presentation to the Centers for Disease Control and Prevention External Review Committee for CTRPN HIV/AIDS Programs (Counseling, Testing, Referral, and Partner Notification), Atlanta, Georgia, June 21, 1993.

“Comprehensive Care for Women with HIV-Infection - A Model of Service Delivery,” Plenary Session presentation to Pediatric Demonstration Project Grantees, (Ryan White Title IV), HRSA-Bureau of Maternal Child Health, Baltimore, Maryland, November 10, 1993.

“Cryptosporidiosis in Philadelphia,” Northeast Regional Epidemiology Conference, Gettysburg, Pennsylvania, October 24, 1996.

“Infectious Diseases and their Control in Child Care Centers,” Delaware Valley Association for Education of Young Children Annual Meeting, Philadelphia, Pennsylvania, April 26, 1996 (lecture also given to same conference March 16, 1997).

“Response to Terrorism in Philadelphia – Health Department Experience in the Fall of 2002,” American Public Health Association Annual Meeting, November 11, 2002, Philadelphia, PA.

“Coordinating the Medical Response – Integrating Medical Facilities with Other Response Agencies,” Senior Leaders Homeland Security Summit, Federal Emergency Management Agency Region III, Philadelphia, PA, November 12, 2002.

E. Chernak, MD, MPH, FACP

“Public Health Emergency Preparedness,” and “Pandemic Preparedness,” presentations at 2006 US Environmental Protection Agency Region III Emergency Prevention and Hazmat Spills Conference, Valley Forge, Pennsylvania, December 6, 2006.

“Pandemic Influenza Preparedness,” presentation for conference organized by Nuclear Regulatory Commission, December 12 2006, King of Prussia, Pennsylvania.

Public Health and Emergency Preparedness, presentation to the National Youth Leadership Foundation, July 22, 2007, Villanova, Pennsylvania.

“Pandemic Influenza Preparedness – Considerations for American Red Cross Blood Centers,” Invited presentation for national meeting of American Red Cross Blood Center Directors, Washington DC, August 1, 2007.

“Preparing for Public Health Emergencies – Public Health and Clinical Partnership,” Advance Practice Nursing Annual Conference, hosted by Childrens Hospital of Philadelphia, Philadelphia, Pennsylvania, April 2, 2008.

“Seasonal and Pandemic Influenza Readiness,” presentation to Philadelphia Chapter of Pennsylvania Occupational Health Nurses, Norristown, Pennsylvania, September 25, 2008.

“Public Health Preparedness and Special Populations,” presentation at Vulnerable Populations and Emergency Preparedness Forum, Sponsored by Drexel University and Philadelphia Office of Emergency Management, October 10, 2008, Philadelphia, Pennsylvania.

“Terrorism Preparedness and the Local Health Department – Ready for What?” Invited presentation for American Public Health Association Annual Meeting, November 9, 2009, Philadelphia, PA.

“Lessons Learned from US Postal Service Medication Delivery Exercise – Philadelphia, PA 2007.” Invited presentation for CBRN Medical Countermeasure Regional End User Roundtable, Office of the Assistant Secretary of Preparedness and Response, U.S. Department of Health and Human Services, Philadelphia, PA, September 30, 2010.

“Public Health Emergencies - Preparing Vulnerable Populations,” Invited presentation for Centers for Disease Control and Prevention Webinar: Outreach to Vulnerable Populations for Emergency Preparedness. October 28, 2010.

“Disaster Communications for Human Service Agencies,” Invited presentation for the Southeastern Pennsylvania chapter of the American Red Cross Resilience Readiness Academy, educational program for human service agencies, March 15, 2012 and April 11, 2013; Philadelphia, PA.

“What Do We Talk About When We Talk About Community Resilience?” Invited keynote address for the Association of State and Territorial Health Officials conference for state public health preparedness program directors, September 25, 2012.

“Integrating Community Pediatricians into Disaster Preparedness,” Invited presentation for Institute of Medicine Workshop, Preparedness, Response and Recovery Considerations for Children and Families, Washington, DC. June 10, 2013.

“The Pennsylvania Public Health Risk Assessment Tool – Integrating Planning for At-Risk Populations,” Invited presentation at Social Vulnerabilities Workshop for Emergency Managers, Centers for Disease Control and Prevention, July 11, 2013.

“Integrating Human Service Agencies into Disaster Preparedness – Challenges and Promises. Recommendations from White Paper” Invited presentation for Southeastern Pennsylvania Voluntary Organizations Active in Disaster Regional Planning Symposium for Human Service Agencies, Arcadia University, Glenside, Pennsylvania, June 6, 2014.

“Integrating Pediatric Providers into Disaster Preparedness Planning in Pennsylvania,” Invited presentation to Association of State and Territorial Health Officials webinar-based meeting of state public health preparedness program directors, December 3, 2013; similar presentation also given National Center for Disaster Medicine and Public Health webinar series and meeting of FEMA Region 3 Children and Disasters Workgroup, June 19, 2014.

“Integrating Primary Care Physicians into Disaster Preparedness: Preparing Individuals with Special Health Care Needs,” Webinar presentation to US Department of Homeland Security Community Health Resilience Stakeholder Group, Geriatric Disaster Resilience Subgroup, Office of Health Affairs, November 13, 2014.

“Integrating Community Pediatric Practices into Disaster Preparedness in Pennsylvania.” Centers for Disease Control and Prevention Grand Rounds Presentation, Atlanta, Georgia, March 17, 2015.

“Managing Healthcare Risks in the Era of Emerging Infections.” Presentation for the Pennsylvania Area Society of Healthcare Risk Management Annual Meeting, Plymouth Meeting, Pennsylvania, April 23, 2015.

“Introduction to Bio-Pathogens,” Presentation for Confronting the Global Threat: Bioterrorism Conference, Pennsylvania Governor’s Office of Homeland Security, King of Prussia, Pennsylvania, October 22, 2015.

Public Health Emergency Risk Assessment, webinar presentation for Association of State and Territorial Health Officials, Public Health Preparedness Directors, June 9, 2016.

“Disaster Communications and Families with Special Health Care Needs - Overview and Use of Social Media,” November 13, 2019. Presentation to American Academy of Pediatrics Disaster Preparedness Advisory Council

“COVID-19 Overview and Public Health and Health Care Management in Pennsylvania,” April 16, 2020, Dean’s Lecture Series, Penn State University (virtual presentation)

“Addressing the Information Needs of Families with Children with Special Healthcare Needs in Emergencies - Findings from Research with Families and Providers,” presentation to Pennsylvania Chapter, American Academy of Pediatrics, Sept 9, 2020

“Impact of Disasters on Vulnerable Populations,” Penn State Health Inclusion Week 2021, Penn State College of Medicine, January 20, 2021

“Disaster Communications and Families with Special Health Care Needs,” March 15, 2021. Presentation for Drexel University “Scholarsips” series, Drexel University Libraries

Abstracts and Conference Presentations (Peer reviewed, by competition)

Levine S, Chernak E. Clinical Laboratory Survey for Drug-resistant *Streptococcus pneumoniae*. Infectious Diseases Society of America 34th Annual Meeting, September 1996, New Orleans, Louisiana.

E. Chernak, MD, MPH, FACP

(Dr. Levine awarded Kass Travel Fellowship for achievement in Infectious Diseases research by medical resident). (abstract)

Aaron E, **Chernak E**. The Care Plus Clinic: Developing a Community-Based Primary Care Program for Families with AIDS. 124th American Public Health Association Annual Meeting, November 1996, New York, New York. (abstract)

Chernak E, Levenson RL, Hofmann J. Respiratory Virus Surveillance, Philadelphia, PA - Winter 1996-1997. Poster Session, Section on Public Health and Preventive Medicine, The College of Physicians of Philadelphia, May 13, 1997. (abstract)

Kimzey M, **Chernak, E**, Levenson RL, Hofmann J. Reptile-Associated Salmonellosis in Philadelphia, 1995-1996. Infectious Diseases Society of America 35th Annual Meeting, September 1997, San Francisco, California. (abstract)

Schaben CP, **Chernak E**, Johnson CC, Mechem C, Levenson RL. First Aid Stations as Sites for Infectious Disease Surveillance: Monitoring for Bioterrorism during the 2000 RNC Republican National Convention. 129th American Public Health Association Annual Meeting, October 2001, Atlanta, Georgia. (abstract)

Schaben CP, **Chernak E**, Johnson CC, Levenson RL. Infection Control Practitioner Satisfaction with a Public Health Surveillance Web Site: Experience in Philadelphia, PA during the 2000 Republican National Convention. 129th American Public Health Association Annual Meeting, October 2001, Atlanta, Georgia. (abstract)

E. Newbern, S. Gottlieb, **E. Chernak**, C. Johnson, J. Sobel, P. Griffin. Factors associated with death among listeriosis patients in northeastern states, 2002. Centers for Disease Control and Prevention Epidemic Investigator Service Annual Conference, April 2003, Atlanta, GA. (abstract)

S. Gottlieb, C. Newbern, P. Griffin, N. Baker, L. Graves, M. Jefferson, S. Young, M. Hoekstra, S. Hunter, K. Holt, D. Goldman, **E. Chernak**, C. Johnson, J. Sobel, and the Listeriosis Outbreak Working Group. Collaborative Investigation of Multistate Listeriosis Outbreak Helps Shape New Food Safety Regulatory Policy. Centers for Disease Control and Prevention, Epidemic Investigator Service Annual Conference, April 2003, Atlanta, GA. (abstract)

E. Lockard, C. Newbern, **E. Chernak**, C. Johnson, Trends in Outpatient Isolates of Methicillin Resistant *S. aureus*, Philadelphia Department of Public Health Clinic System. 43rd Annual Meeting of the Infectious Disease Society of America, October 2005, San Francisco, CA. (abstract)

C. Bruno, R. Madera, C.V. Spain, **E. Chernak**, C. Johnson, F. Lewis. Analysis of Salmonellosis Incidence in Philadelphia and Geographic Association with Poverty Rates: 2000-2005. 45th Annual Meeting of the Infectious Disease Society of America, October 2007, San Francisco, CA. (abstract)

S. Fitzgerald, M. Agocs, **E. Chernak**. Field Testing a Head of household Model to Dispense Antibiotics, Public Health Preparedness Summit 2007, Washington DC (abstract)

J. Garrow, S. Alles, C. Johnson, **E. Chernak**. Emergency Preparedness for Health Commissioners, Public Health Preparedness Summit 2009, San Diego, CA (abstract)

M. Napier, C. Newbern, L. Ma, **E. Chernak**, R. Madera, C. Johnson. Epidemiology of Reported Pertussis in Philadelphia, 2000-2008: A Closer Look at Infant Morbidity. 47th Annual Meeting of the Infectious Disease Society of America, October 2009, Philadelphia, PA. (abstract)

Lynch, P. Ross, **E. Chernak**, A. Patel. Influenza Prevention and Control in Long-Term Care Facilities – Philadelphia, 2008. 137th Annual Meeting of the American Public Health Association, November 2009, Philadelphia, PA (abstract)

Patel A.,Burke C., **Chernak E**, Lewis F, Nguyen M, Madera R, Newbern C, Johnson C. Epidemiology of Infant Salmonellosis, Philadelphia, PA – 2008-2010, 48th Annual Meeting of the Infectious Disease Society of America, October 2010, Vancouver, Canada (abstract)

E. Chernak, T. Hipper. Integrating Community Pediatricians into Emergency Preparedness Planning. Workshop Presentation at National Association of County and City Health Officials PublicHealth Emergency Preparedness Summit, March 2013, Atlanta, GA (abstract, oral presentation)

R. Peters, H. Kricun, T. Hipper, **E. Chernak**. Public Health Risk Assessment Tool to Assess Threats and Their Impact on At-Risk Populations. Workshop Presentation at National Association of County and City Health Officials PublicHealth Emergency Preparedness Summit, March 2013, Atlanta, GA (abstract, oral presentation)

H. Kricun, R. Peters, T. Hipper, **E. Chernak**. Planning Aid for Public Health Emergencies. National Association of County and City Health Officials PublicHealth Emergency Preparedness Summit, March 2013, Atlanta, GA (abstract, poster)

A Orr, T. Hipper, H. Kricun, Y. Michaels, **E. Chernak**. Integrating Human Service Agencies into Emergency Preparedness – Results of a Survey of Agencies in Southeastern Pennsylvania. National Association of County and City Health Officials PublicHealth Emergency Preparedness Summit, March 2013, Atlanta, GA (abstract, poster)

R. Peters, T. Hipper, **E. Chernak**. Integrating Community-Based Primary Care Physicians into Disaster Preparedness: Aligning Community Preparedness with Healthcare Preparedness. National Association of County and City Health Officials Public Health Preparedness Summit, April 2014, Atlanta, GA (abstract; oral presentation)

E. Chernak. Developing Guidance for Responder Safety in Public Health Emergencies: Protecting Public Health Professionals. National Association of County and City Health Officials Public Health Preparedness Summit, April 2014, Atlanta, GA (abstract, poster)

T Hipper, S Needle, S Yunghans, A Wishner, **E Chernak**. Risk Communication and Disaster Preparedness – The Role of Community Pediatric Practices in Conveying Emergency Public Information to Children and Families. National Association of County and City Health Officials Public Health Preparedness Summit, April 2014, Atlanta, GA (abstract, poster)

J Nash, T Hipper, **E Chernak**. Working with Urgent Care Centers in Pennsylvania - New Partners in Community Preparedness for Public Health Emergencies. Presented at 2015 Public Health Preparedness Summit, Atlanta, GA (abstract, poster)

T. Hipper, J Nash, J Purtle, R Fields, **E Chernak**. The Practice of Syndromic Surveillance for Health Situational Awareness in the United States: Findings from a Case Study Analysis. Public Health Preparedness Summit, April 2016, Dallas, Texas (abstract, poster)

Esther Chernak, Jessica Franks, Thomas Hipper, Rebecca Leeb, Keri Lubell, Laura Pechta, Dale Rose, Amy Wolkin. Emergency Risk Communication (ERC) for At-Risk Populations: Preliminary Findings

E. Chernak, MD, MPH, FACP

from a Study of Information Needs of Families of Children with Special Healthcare Needs (abstract, presentation), 2019 Public Health Preparedness Summit, St. Louis, MO

E Chernak, D Russo. Teaching Health Systems Science and Population Health During Immersion Weeks in Phase 1 Medical Education – The Drexel Experience. (abstract, poster) accepted for presentation at the 2019 Northeastern Group on Educational Affairs, Association of American Medical Colleges (AAMC), Philadelphia, PA

J Edwards, A Skula, **E Chernak**, J Caum. Identifying At-Risk Populations for Pandemic Influenza Planning in the City of Philadelphia. Oral Presentation at APHA annual meeting, November 2019, Philadelphia, PA

T Hipper, L Popek, R Seitz, R Turchi E Thompson, P Massey, R Davis, J Plumb, **E Chernak**. Disaster Communication Needs of Children with Special Health Care Needs: Results of a Survey of Parents and Caregivers. Poster presentation at APHA annual meeting, November 2019, Philadelphia, PA

Esther Chernak, Tom Hipper, Keri Lubell. Disaster Communications and Families with Special Health Care Needs. Abstract and oral presentation at April 2021 Public Health Preparedness Summit, Atlanta, GA (virtual meeting).

OTHER TEACHING ACTIVITIES

Lectures, Seminars, Grand Rounds for Clinical Audiences

“Clinical Management of HIV Disease,” “Overview of HIV-related Opportunistic Infections and their Clinical Management,” “Diagnosis and Clinical Tests for HIV Infection,” lectures for The Pennsylvania AIDS Education and Training Center, Hahnemann University (HRSA-sponsored Regional AIDS Education Center), 1992-1995.

“Hantavirus Pulmonary Syndrome,” Grand Rounds Presentation, Methodist Hospital, Philadelphia, Pennsylvania, October 31, 1995.

“Communicable Diseases Surveillance,” lecture for Community and Preventive Medicine Course, Department of Family Medicine, Thomas Jefferson University, Philadelphia, Pennsylvania, January 16, 1996.

“Cryptosporidiosis - Clinical Overview and Public Health Considerations,” lecture to Philadelphia Department of Public Health, Ambulatory Health Services clinical staff, Philadelphia, Pennsylvania, February 23, 1996. Lecture also given to Public Health Interest Group, Allegheny University School of Medicine, Philadelphia, Pennsylvania, September 25, 1996, and for Community and Preventive Medicine course, Allegheny University School of Medicine, Philadelphia, Pennsylvania, February 21, 1997.

“Hepatitis A: Epidemiology and Guidelines for Prevention,” lecture to Philadelphia Department of Public Health, Ambulatory Health Services clinical staff, Philadelphia, Pennsylvania, January 24, 1997.

“Careers in Epidemiology and Public Health,” presentation for students at the Allegheny University School of Public Health, Philadelphia, Pennsylvania, April 16, 1997.

“Epidemics and Outbreak Investigations,” lecture for students at Allegheny University School of Public Health, Philadelphia, Pennsylvania, April 16, 1997.

“Investigation of Infectious Disease Outbreaks,” Principles of Epidemiology Course, Masters Program in Microbiology, Thomas Jefferson University, Philadelphia, Pennsylvania, June 9, 1999.

“Public Health Emergency and Bioterrorism Preparedness,” “Overview of Bioterrorism Agents and Treatments,” “Bioterrorism Response Planning in Philadelphia,” “Overview of Philadelphia Biological Response Plan,” presentations at several hospital Grand Rounds: Jeanes Hospital, Philadelphia, PA - September 2000; Albert Einstein Medical Center, Philadelphia, PA – October 2000 and November 2001; University of Pennsylvania Health System, Philadelphia, PA – October 2001; Pennsylvania Hospital - February 2002. Lecture also given at meeting of Philadelphia area hospital Chief Medical Officers and Chiefs of Medical Staff, October 2001 (hosted by University of Pennsylvania), at symposia for hospital-based providers, Hospital Subcommittee of the Philadelphia Local Emergency Planning Committee, April 2000; and in Biological and Chemical Weapons preparedness course for healthcare providers sponsored by Thomas Jefferson University School of Nursing, November 2000 and 2002.

“Syndromic Surveillance,” presentation for hospital providers in forums sponsored by Delaware Valley Healthcare Council and Drexel University National Center for Biomedical Preparedness, Chester-Crozier Medical Center, April 25, 2002, and St. Mary’s Medical Center, May 13, 2002.

“Smallpox Vaccination,” presentation for City of Philadelphia Medical Evaluation Unit, April 2003; presentations at Philadelphia hospitals and City of Philadelphia Medical Evaluation Unit and Ambulatory Clinics, Spring 2003.

“Public Health Emergency Preparedness,” “Seasonal Influenza Readiness,” “Pandemic Influenza Preparedness,” presentations for Nursing Program, Drexel University February 28, 2006; for Mental Health Professionals, February 25, 2006 at conference sponsored by PA Department of Public Welfare and Drexel University, Philadelphia, PA, and presentations for various medical audiences at Philadelphia area hospitals, 2006 – 2008.

“Point of Dispensing (POD) Operations – Training for POD Leadership and Management,” series of trainings provided to Philadelphia Department of Public Health staff, March 16, May 25, September 28, and November 16, 2006.

“Public Health Emergency Preparedness and Roles for Volunteers,” presentations for Philadelphia Medical Reserve Corps volunteers, quarterly trainings 2007 – 2008.

“The Role of Federal Community Health Centers in Public Health Emergencies,” training for Federal Health Center Leadership, August 2, 2007, Philadelphia, Pennsylvania.

“Selected Topics in Infectious Diseases,” presentation to Philadelphia School District Nurses, October 27, 2006 and September 6, 2007; and to Charter School Nurses, August 21, 2008.

“Diagnosis and Management of Methicillin-resistant *S. aureus* Infections,” lecture to Philadelphia Department of Public Health Ambulatory Health Services Clinical Staff, January 25, 2008.

“Selected Topics in Infectious Diseases,” “Communicable Disease Surveillance and the Public Health Partnership with the Medical Community,” and presentations related to other communicable disease topics for various medical audiences in healthcare facilities in Philadelphia area (e.g., regional University Student Health Service agencies; St. Christopher’s Hospital Emergency Department, Infection Control and Clinical Laboratory staff), 2007 – 2009.

“Viral Hepatitis Overview,” Lecture for Annual Sexually Transmitted Diseases Course, Philadelphia Department of Public Health Sexually Transmitted Disease Control Program, Philadelphia, PA, 2010 and 2011.

“Medical Care of New Immigrants and Refugees,” Lecture for clinical staff of Ambulatory Health Services, Philadelphia Department of Public Health, Philadelphia, PA April 22, 2011.

“HIV Testing Update,” Lecture for clinical staff of Ambulatory Health Services, Philadelphia Department of Public Health, Philadelphia, PA, July 27, 2012.

“Building Community Resilience – the Role of the Community Pediatrician,” Grand Rounds lecture, St. Christopher’s Hospital for Children, Philadelphia, Pennsylvania, March 22, 2013

“Public Health Emergency Preparedness,” lecture for multiple audiences, including Dornsife School of Public Health and College of Medicine, Drexel University; University of Pennsylvania Occupational Health Residency Program, 2013 – present.

“Ebola Virus Disease – 2014,” Lecture for clinical staff of Ambulatory Health Services, Philadelphia Department of Public Health, October 24, 2014.

Public Health Emergency Preparedness Tabletop Exercise for Pharmacists and Pharmacy Stakeholders, Pennsylvania Pharmacy Association Mid-Year Meeting, Harrisburg, PA; January 29, 2016.

HIV Treatment and Testing Update for Primary Care Physicians, Philadelphia Department of Public Health Division of Ambulatory Health Services, April 22, 2016

Climate Change and Health Impacts, Seminar Series for Drexel University Medical Students, May 2018; sponsored by Climate and Urban Systems Partnership (CUSP), Franklin Institute, Philadelphia, Pennsylvania

COVID-19 – multiple lectures and presentations for medical and health professional audiences, March 2020-present

Training Activities, Exercises and Lectures for Non-Medical Audiences

Regional Bioterrorism Tabletop Exercise, developed and presented for Southeastern Pennsylvania Regional Counter-terrorism Task Force, June 5, 2002.

“Biological Terrorism: Information for Philadelphia’s First Responders,” video presentation for Philadelphia Police and Fire Departments, in conjunction with Urban Cableworks of Philadelphia, January 2003 (wrote, narrated and produced 30 minute video).

“Smallpox Vaccination,” presentation for Federal Bureau of Investigation, Philadelphia office, March 2003.

“SARS Update,” presentation for City of Philadelphia Emergency Medical System (EMS), Philadelphia Fire Department, June 2003.

“Public Health Epidemiology for Law Enforcement,” lecture for Forensic Epidemiology Course sponsored by US Attorney’s Office, Eastern Pennsylvania, Conshohocken, PA, September 2003.

“Southeastern Pennsylvania Regional Tabletop Emergency Response Exercise – Biological Contamination of Water Supply,” sponsored by Philadelphia Water Department and American Waterworks Association, Philadelphia, PA, October 2003.

E. Chernak, MD, MPH, FACP

“Public Health and Bioterrorism Preparedness,” presentations for National Youth Leadership Foundation, June 27, July 11, and July 25, 2007, Villanova, Pennsylvania.

“Pandemic Influenza Preparedness,” Lecture given on multiple occasions between 2006 – 2008, including the forums for leaders in the Faith-based community sponsored by the Southeastern Pennsylvania Chapter of the American Red Cross, conferences sponsored by the Philadelphia Federal Executive Board, conferences in June 2006 and December 2007 sponsored by PJM Interconnection (for disaster planners in electrical utilities in the eastern and central United States); the Nuclear Regulatory Commission in December 2007, university safety directors and various government agencies and business forums.

“Overview of Hepatitis A, B and C Infections,” presentation at Women Organized Against Rape for Asian/Pacific Islander Community leaders, July 10, 2008.

“Management and Prevention of MRSA Infections,” presentation to Philadelphia School District Athletic Directors, October 8, 2008.

Public Health Presentation at Forum for Public Health Legal Issues – Overview for Judges, Convened by Administrative Office of Pennsylvania Courts, State College, Pennsylvania, May 14, 2009.

“Travel in the Developing World,” lecture presentation at the Philadelphia Free Library, July 18, 2013. Emergency Preparedness Tabletop Exercise for Pennsylvania Department of Health Interagency Working Group for Child Health in Disasters, Harrisburg, Pennsylvania, May 22, 2014.

“Ebola Virus Disease Update,” Lecture given on multiple occasions between October – December 2014, including Drexel University International Café, Drexel University Community Teach-In Forum, Public Lecture at Philadelphia Free Library.

COVID-19 Overview; multiple lectures and webinars as presenter and moderator, March 2020 – October 2021, Drexel University Dornsife School of Public Health

Conferences and Educational Programs (organized and coordinated)

Philadelphia Department of Public Health Annual Public Health Update for Healthcare Providers - Public Health Preparedness and Emerging Issues, Philadelphia, Pennsylvania. Organized 5 annual conferences for audience of 200-250 attendees, June 2005 – June 2009.

Current Trends in Terrorism – Preparing for Medical Consequences of Explosives, June 9, 2006, Philadelphia. Organized conference for 125 medical professionals and first responders.

Infectious Disease Update for Clinicians in Philadelphia Department of Public Health Ambulatory Health Services, Inservices for public health physicians and nurses - January 26, 2006 and January 25, 2008. Conference organizer, speaker.

Seasonal and Pandemic Influenza Readiness - Long Term Care Facilities, November 14, 2008, Philadelphia. Organized conference for 100 medical directors and administrators of long term care institutions (included presentation on epidemiological trends in seasonal influenza).
Research Integrity Issues, Vaccines and Emergency Preparedness – Conference sponsored by Office of Research Integrity, US Department of Health and Human Services (HHS), September 12, 2011, Philadelphia, PA. Conference co-planner and organizer.

National Vaccine Program Office Regional Stakeholder Meeting, Mid-Atlantic Region (3) – Meeting to provide input on National Vaccine Plan Implementation Strategies, September 13, 2011, sponsored by the

E. Chernak, MD, MPH, FACP

National Vaccine Program Office, US Department of Health and Human Services. Conference co-planner and facilitator.

Public Health Preparedness Seminar Series for the Public Health Workforce in Southeastern Pennsylvania, in collaboration with the Drexel University Public Health Training Center. Developed series of bimonthly lectures and seminars via videoconference, webinar, and on-site forums for public health agency staff and partners in government and health care organizations, January 2012 – 2015. Series planner, speaker.

Emergency and Disaster Preparedness for Pediatric Practices – Conference for Pennsylvania Medical Home Initiative, October 18, 2013, Harrisburg, Pennsylvania (collaboration with the American Academy of Pediatrics, Pennsylvania Chapter). Conference planning committee, speaker.

Southeastern Pennsylvania Voluntary Organizations Active in Disaster Regional Planning Symposium for Human Service Agencies, Glenside, Pennsylvania, June 6, 2014. Leadership and planning forum for social service organizations in disaster preparedness. Conference coordinator and speaker.