

Curriculum vitae

Michael Petros, DrPH

University of Illinois at Chicago • School of Public Health

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MPetro6@UIC.EDU

EDUCATION:

Doctor of Public Health
Doctor of Public Health in Leadership Program
Interdisciplinary Public Health Sciences
University of Illinois at Chicago, School of Public Health
Chicago, Illinois 60612

Master of Public Health: Epidemiology
Division of Epidemiology & Biometry
University of Illinois at Chicago, School of Public Health
Chicago, Illinois 60612

Master of Science: Microbiology
Department of Biological Sciences
Northern Illinois University
DeKalb, Illinois 60115

Bachelor of Science: Biology
Department of Biological Sciences
Northern Illinois University
DeKalb, Illinois 60115

ACADEMIC

APPOINTMENT:

Clinical Assistant Professor (current position)
Doctor of Public Health in Leadership - Program Advisor
Division of Environmental and Occupational Health Sciences
University of Illinois at Chicago
School of Public Health
Chicago, Illinois 60612
MPetro6@uic.edu

PUBLIC HEALTH
PRACTICE:

Senior Public Services Administrator, 1994 - 2012
(Retired, December 31, 2012)
Chief of Operations, Newborn Screening
State of Illinois, Department of Public Health (IDPH)
Division of Laboratories
Chicago, Illinois 60612

Microbiologist IV, 1975 - 1993
City of Chicago, Department of Public Health (CDOH)
Bureau of Laboratories
Chicago, Illinois 60602

PROFESSIONAL
CERTIFICATION:

Microbiologist [M(ASCP)001278]
Board of Registry, Certified 1978
American Society for Clinical Pathology
Chicago, Illinois

PUBLICATIONS:

Martin M, **Petros M**, Welter C, Exploratory Case Study of Barriers and Facilitators Associated With the Pilot Implementation of a New Electronic Healthcare Record in the Military. *Military Medicine*, Vol. 00, Feb. 2021, DOI:10.1093/milmed/usab053.

Chan K and **Petros M**, Simple Test, Complex System: Multifaceted Views of Newborn Screening Science, Technology, and Policy. *Global Pediatric Health*. Volume 6: 1–10
DOI: 10.1177/2333794X19894812.

Angeloni M, Bialek R, **Petros MP**, Fagen MC, Prioritizing Workforce Development Training in State Health Departments Using TRAIN: Challenges and Opportunities. *Public Health Reports*, Published online February 2019, DOI:10.1177/0033354919826564.

Mills JR, Huizinga MM, Robinson, SB, Lamprecht L, Handler A, **Petros MP**, Davis T, Chan K, Draft Opioid-Prescribing Guidelines for Uncomplicated Normal Spontaneous Vaginal Birth. *Obstetrics & Gynecology*: January 2019 - Volume 133 - Issue 1 - p 81–90
doi: 10.1097/AOG.0000000000002996

Griffen AK, Risley, KY, **Petros MP**, Welter CR, Inclusion Wheel: Tool for Building Capacity and Public Health Leaders to Serve People With Disabilities. *Health Promotion Practice*, Published online August 2018, DOI: 10.1177/1524839918788578.

Petros M, and Chan K, Facilitators and barriers to expansion of newborn screening programs in the 21st century. *Medical Research Archives*, Vol. 4, Issue 6, October 2016, Published online October 16, 2016, DOI: <http://dx.doi.org/10.18103/mra.v4i6.706>.

Bunnell ME, Tarini BA, **Petros M**, Goldenberg AJ, Arjunan A, Wicklund C, Biobank participant support of newborn screening for disorders with variable treatment and intervention options. J Community Genet, Published online September 1, 2016, DOI 10.1007/s12687-016-0279-z.

Orcena J, **Petros M**, Bernet PM, Impact of Organizational Networks on the Cost of Core Services in Ohio's Local Health Departments. Frontiers in Public Health Services and Systems Research, 2015; 4(4):7–12. DOI: 10.13023/FPHSSR.0404.02.

Lenihan P, Welter C, Brandt-Rauf P, Neuberger BJ, Pinsker E, **Petros MP**, Risley K, The UIC DrPH Program: An Innovative Approach to Doctoral Level Practice Leadership Development, Amer. J. Public Health, Supplement 1, Vol 105, No. S1, S55-S59.

Mai CT, Correa A, Kirby RS, Rosenberg D, **Petros MP**, Fagen MC. Opportunities for Advancing Public Health Surveillance of Birth Defects in the United States. Public Health Reports / November - December 2015 / Volume 130, 722-730.

Mai CT, Kirby RS, Correa A, Rosenberg D, **Petros MP**, Fagen MC, Public Health Practice of Population-based Birth Defects Surveillance Programs in the United States. J of Public Health Management and Practice, PHMP-D-14-00195, January 2, 2015 19:21, DOI:10.1097/PHH.0000000000000221.

Hart A, **Petros M**, Charrow J, Nash C, Wicklund C, Storage and Use of Newborn Screening Blood Samples for Research: Assessing Public Opinion in Illinois. J of Genetic Counseling, published online November 20, 2014, DOI 10.1007/s10897-014-9788-2.

Petros MP, Revisiting the Wilson-Jungner criteria: how can supplemental criteria guide public health in the era of genetic screening?. Genet Med. 2012 Jan;14(1):129-34. doi: 10.1038/gim.0b013e31823331d0. Epub 2011 Oct 7.

Petros, MP and Jinks DC, Clinical Testing: Newborn Screening, in *Public Health Laboratories: Analysis, Operations and Management*. Wiley Jenkins ed., Jones and Bartlett, Sudbury, MA. 01776, 2010

Jinks DC, Singh R, **Petros MP**, Shao R, Implementation of Tandem Mass Spectrometry in Illinois and Determination of Cut-Offs for Normal and Low Birth Weight Infants. Proceedings of the Newborn Screening and Genetic Testing Symposium, November 2002;

Pirl JN, Shao R, **Petros MP**, Singh R, Kocka FE, Maserang D, Quantification Without Standards: Risk Evaluation of Neonates for Inborn Metabolic Error. Proceedings of the Newborn Screening and Genetic Testing Symposium, September 2001;

Petros MP and Pirl JN, Evaluation Of Galactose Distribution In Neonatal Specimens. Proceedings of the Newborn Screening and Genetic Testing Symposium, May 2001;

Pirl JN, Shao R, **Petros MP**, Metabolite Pattern Analysis In Neonatal Dried Blood Spots. Proceedings of the Newborn Screening and Genetic Testing Symposium, May 2001;

Pirl JN, Shao R, **Petros MP**, Selection of Reporting Cutoffs in Newborn Screening: Patient-to-Normal Ratio. MMWR: Recommendations and Reports, April 13, 2001/50(RR03);

Pirl JN, Shao R, **Petros MP**, Yohe P, Kling S, Carpenter DF, Aiding the Diagnosis of Phenylketonuria and Other Inborn Metabolic Errors by the Use of Tandem Mass Spectrometry. Proceedings of the 14th National Neonatal Testing Conference, September 1999;

Pirl JN, **Petros MP**, Lindner R, Matthews C, Effect of Sample Delivery Systems on Neonatal Samples. Proceedings of the 13th National Neonatal Testing Conference, March 1998;

Petros MP and Lynch DL, Physical and Chemical Characteristics of a Coryneform-Like Bacterium. Microbios, May 1975;

NATIONAL WORKGROUPS:

Contributor to consensus document, “*Newborn Blood Spot Screening for Severe Combined Immunodeficiency (SCID) by Measurement of T-cell Receptor Excision Circle (TREC); Approved Guideline*”, Clinical and Laboratory Standards Institute, Document I/LA36, May 2013;

Member, Document Development Committee for “*Newborn Screening for Galactosemia (NBS12)*”, Clinical and Laboratory Standards Institute (underway 2021);

PRESENTATIONS:

“*Two Buckets of Online Instruction: Teaching and Tech*” Part I and Part II, UIC Center for Advancement of Teaching Excellence, July 2021; <https://teaching.uic.edu/spotlight/uic-innovations-online/videos-by-uic-instructors/>

“*Teaching quantitative methods online*”, Michael Petros and Steven Seweryn, School of Public Health Teaching and Learning Webinar, July 2020; <https://publichealth.uic.edu/sph-teaching-learning-series/>

“*Newborn Screening and Research*”, Public Health Minute - National Public Radio, invited guest, May 2016;

“*Expansion policies of newborn screening programs in the 21st Century*”, Kee Chan and Michael Petros, Policy and Finance Session, APHA Meeting November 3, 2015, Chicago, Illinois;

“*Building practice-based evidence: Leading change through methodological approaches for defining a researchable problem*”, Christina Welter, Patrick Lenihan, Steve Seweryn, Eve Pinsker, Michael Petros, Krystina Risley, Academic Public Health Caucus Poster Session I, APHA Meeting November 2, 2015, Chicago, Illinois;

“*Expansion Policies of Newborn Screening Programs in the 21st Century: Facilitators and Barriers*”, Kee Chan and Michael Petros, Conference to Eliminate Health Disparities in Genomic Medicine: The Role of Policy, September 4, 2014. Washington DC.

“Learning, Research, Practice and Leadership: The Transition from Student to Scholar”,
7th Annual UIC School of Public Health Research Forum, Chicago, IL. Keynote Speaker
(April 2012);

“A Cost Analysis and Planning Model for Newborn Screening Program Expansion”,
4th National Conference on Genomics and Public Health at Bethesda, Maryland. (December
2010) [representing the University of Illinois, School of Public Health];

“Newborn Screening for Krabbe and Other Lysosomal Storage Diseases in Illinois”
3rd Annual Workshop on Krabbe Disease at Java Center (Buffalo), New York. (July 2010);

“Newborn Screening in Illinois”, The PKU Organization of Illinois, Annual Meeting, Medinah,
IL, Invited Speaker (November 2009);

“Newborn Metabolic & Genetic Screening: The Winding Road to Expansion”, The New
England Consortium of Metabolic Programs, Boylston MA, Keynote Speaker (November 2008)
[representing the University of Illinois, School of Public Health];

STUDENT DISSERTATIONS – CHAIRS & COMMITTEE MEMBERSHIPS:

University of Illinois at Chicago – School of Public Health - Doctor of Public Health Program

Angeloni, Magaly: *“What Approaches Are ‘Train’ Affiliates Taking To Evaluate Public Health Training?”*. 2014

Baily, Tiosha: *“Safety Net Learning Collaborative Aspects and Organizational Factors Impacting Innovation Implementation”*. 2019

Barrett, Christopher: *“Understanding Organizational Factors Contributing to the Implementation of PEPFAR”*. underway

Bedno, Sheryl: *“A Systems Approach to Improve Reporting, Management, and Prevention of Army Civilian Occupational Injuries and Illnesses”*. 2015

Brennan, Nicole: *“Men’s Health and Wellbeing Policy in the United States: A Transformative Cross-National Policy Analysis”*. 2014

Broussard, Dawn: *“Framing a Future Vision of Partner Services: Pathways for Enhancing Value and Impact”*. underway

Burkhart, Theresa: *“Factors Influencing End-Of-Life Care In The Academic Medical Center Setting”*. (Chair) underway

Bustamante, Tanya: *“Exploring Factors That Contribute to a Culture of Learning and Leadership Development in Local Health Departments”*. 2018

Cantave, Reginald: *“Advocate Health Care’s Implementation of the ACA: Changes Needed to Shift Focus to Population Health Management”*. (Chair) underway

Carrington, David: *“Public Healthcare Service Delivery Data for Adults with Intellectual & Developmental Disabilities: Informing Health Policy & Decision-Making”*. Underway

Collison, Deborah: *“Understanding Integration in the DHS Implementing Agency in Sierra Leone A Qualitative Study”*. underway

Dacey, Danny: *“Transforming Change in The Military: The Effects of Organizational Dynamics on the Military’s Childhood Lead Prevention Program and its Evaluation”*. (Chair) 2017.

Davis, Carol: *“Collaboration between Public Health Preparedness and Infectious Disease Epidemiology: An Exploration of Current Practices and Opportunities in Texas”*. underway

Dwivedi, Pramod K: *“Does Investment in Governmental Public Health Advance Accreditation?: The Case of Iowa’s Local Health Departments.”* 2021

Eaglin, Margaret: *“Climate Change, Health and Equity Engagement in Big Cities Health Coalition Local Health Departments (LHDs)”*. Underway

Espinoza, Rita: *“LHDs Embracing the Vision of Public Health Accreditation.”* 2021

Flagg, Lakisha: *“The Future of Army Public Health Nursing: An Assessment of Gaps and Factors Influencing Workforce Support of Strategic Health Promotion Priorities”*. 2016

Gabler-Blair, Patrice: *“Securing Additional Surgical Skills Training for Practicing General Surgeons: Identifying Strategies for Preventing Complications and Achieving Optimal Surgical Care”*. (Chair) underway

Gall, Christine: *“Development of a Performance Management Plan for Effective Pediatric Mass Casualty Triage”*. 2014

Griffen, Adriane: *“Case Study Analysis of State Readiness and Capacity Factors: Action Research with a Community of Practice Focused on Smoking Cessation for People with a Disability”*. 2016

Harvey, Nonye: *“Data Sharing in Biomedical Research: A Case Study of Data Sharing Practices and Opportunities in NIH-funded Research”*. 2019

Jacobs, Feygele: *“Community Health Workers in the Community Health Center Context: Population Health and Engagement Approaches in the Pacific Northwest”*. 2017

Lamprecht, Lara: *“Policy Activities by Local Health Departments to Improve Population Health”*. 2014

Lanier, Jackie: *“Health Promotion Practitioner’s Role in the Implementation of Community Transformation Work in Rural Illinois”*. 2014

Lazar, Dani: *“Using Systems Thinking for Translating Evidence into Practice: A Case Study of Embedding Shared Decision Making within a Federally Qualified Health Center Network”*. Underway

Licon, Nytzia: *“A case study to identify how decisions are conducted in the Polytrauma Rehabilitation System of Care program”*. underway

Mai, Cara: “*Assessment and Framework for Population-based Surveillance of Birth Defects in the United States*”. 2014

Martin, Megan: “*Exploratory Case-Study of Barriers and Facilitators Associated with the Pilot Implementation of a New Electronic Healthcare Record in the Military*”. (Chair) 2020

Mills, Jennie Becca: “*Using National Data and Expert Guidelines to Inform Opioid Prescribing in Normal Spontaneous Vaginal Delivery*”. 2018

Mitchell, Jennifer: “*A Case Study to Understand the Current Perspective and Inform a Systems-level Strategy for Leadership Development at CDC*”. underway

Orcena, Jason: “*For a Few Dollars More: Cross-Jurisdictional Sharing in Ohio’s Local Health Departments*”. (Chair) 2015

Puntambekar, Nisha: “*Laboratory workforce development in Liberia: An examination of human resources, infrastructure, and policy.*” (Chair) underway

Pozzebon, Elizabeth: “*Organizational Change Factors that Can Improve Readiness for Implementing a Model Environmental Health Performance Management System: An Action Research Based Developmental Evaluation Case Study*”. 2016

Ralls, John: “*Research Participant Consent and demographic Survey: Creating Public Value at the Public Health Program Level*”. 2018

Rashied-Henry, Kweli: “*Exploratory Developmental Evaluation Case Study of a Preconception Health Campaign’s School-based Curricula*”. (Chair) underway

San Miguel-Majors, Sandra: “*Understanding Breast Cancer Genetic Services for high-risk Latinas at Cancer Centers in the United States – A Multi-Case, Multi-Phase, Sequential Mixed Methods Study Design*”. underway

Shipman-Amuwo, Frankie: “*Becoming an Environment for Change: An Analysis of Efforts toward Creating Trauma-Informed Work Environments at the Chicago Department of Public Health*”. (Chair) underway

Slimko, Michelle: “*Evaluation of Advocacy Capacity for a Rare Disease Advocate Organization: The Neurofibromatosis Case Study*” 2019.

Torres, Griselle: “*Retrospective Case Series Analysis of Capacity Building Services in HIV Prevention Programs*”. (Chair) 2014

Sood, Rishi: “*A Study of the role of public health in health system preparedness with a focus on access to care: COVID-19 as a Case*”. underway

Weber, Mary Kate: “*A Collaborative Public Health Approach to Improve Local Health Department Capacity: A Case Study of CDC’s Local Health Department Initiative during the 2016 U.S. Zika Virus*”. (Chair) underway

Wenzel, Sophie: *“Integrating Contraceptive Services into Primary Care at Federally Qualified Health Centers: a Case Study.”* (Chair) 2019

Northwestern University, Chicago Illinois (public health practitioner/content expert)

Hart, Alexa (MS Thesis – Genetic Counseling, 2012): *“Public Opinion of the Storage and Use of Newborn Screening Blood Samples”*

Bunnell, Megan (MS Thesis – Genetic Counseling, 2015): *“Public Decision-Making About Newborn Screening in Contexts of Treatment, Intervention, and Benefit”*

TEACHING RESPONSIBILITIES

IPHS 699 Research in Public Health Sciences, “Portfolio Seminar”, 3 semester hours

- Fall 2015
- Spring 2016
- Fall 2016
- Fall 2017
- Fall 2018
- Summer 2019
- Summer 2020
- Summer 2021

IPHS 513 “Data Analysis: Applications and Methods for Public Health Leaders”, 3 sem. hours

- Summer 2016
- Summer 2017
- Summer 2018
- Summer 2019
- Summer 2020
- Summer 2021

IPHS 594 “Data Analysis: Applications and Methods for Public Health Leaders”, 3 sem. hours

- Summer 2013
- Summer 2014
- Summer 2015

HPA 481 “Development of Public Health Surveillance Information Systems”, 3 sem. hours

- Spring 2016
- Spring 2017
- Spring 2018
- Spring 2019
- Spring 2020
- Spring 2021

DrPH Student Workshops: These workshops provide students with an opportunity to discuss and obtain details about the Portfolio, Dissertation Proposal, Problem Statement, Method Selection, Defenses, Dissertation formatting, etc.

- Two meetings during Spring 2021
- Five meetings during Fall 2020
- Four meetings during Fall 2019
- Four meetings during Fall 2018
- Four meetings during Fall 2017
- Seven meetings each semester during AY 2015-2016
- Seven meetings each semester during AY 2014-2015
- Seven meetings each semester during AY 2013-2014
- Seven meetings each semester during AY 2012-2013
- Six meetings each semester during AY 2011-2012

GUEST LECTURES:

IPHS 699 Research in Public Health Sciences, “Dissertation Seminar”, 3 semester hours

- Summer 2019 “The IRB Process and Research Ethics”

Community Health 3: Professional Development for Public Health Practice (CHSC 423), University of Illinois at Chicago-School of Public Health, Fall 2017.

Development of Public Health Surveillance Information Systems (HPA 481), University of Illinois at Chicago-School of Public Health, Spring 2016.

Genetics in Epidemiology (EPID 520/EPID 494), UIC-School of Public Health, “Newborn Screening in Illinois”

- Fall 2008
- Fall 2009
- Fall 2011
- Fall 2012
- Fall 2013

FACULTY EXPERT COMMITTEES

- **Health Data and Informatics:** <https://publichealth.uic.edu/public-health-research/public-health-faculty-experts/health-data-informatics-experts/>
- **Health Policy:** <https://publichealth.uic.edu/public-health-research/public-health-faculty-experts/health-policy-experts/>

CONTRIBUTIONS TO PUBLIC HEALTH LABORATORY PRACTICE:

1. Evaluated the operational needs for the implementation of state-wide neonatal screening for Severe Combined Immunodeficiency (SCID) in Illinois, 2012;
2. Served as the site preceptor for the lab practicum experience between the Illinois Department of Public Health-Division of Laboratories and the University of Illinois-School of Public Health, 2011 - 2012.
3. Prepared the second-tier cost analysis for implementation of Lysosomal Storage Disease testing in Illinois, 2008 - 2011;
4. Oversaw the method verification and developed the analytic cutoff/reporting strategy for Cystic Fibrosis screening in Illinois, 2007- 2008;
5. Served as a member of the Infrastructure Sub-Committee during the development of the Illinois Genetic Services Plan, 2006 - 2007;
6. As Acting Newborn Screening (NBS) Section Chief, oversaw the transition between retirement of previous NBS Section Chief and hiring permanent NBS Section Chief, January – March 2002;
7. Developed and implemented, in conjunction with recommendations from the CDC, an overall quality assurance program for the NBS Laboratory, December 1996 - December 1997;
8. Prepared the first overall Illinois Newborn Screening Quality Assessment, April 1997;
9. As part of an emergency transfer/appointment, evaluated, designed and recommended quality assurance and quality control interventions for the NBS Laboratory, November – December 1996;
10. Rapidly reorganized the Chicago Department of Public Health serology/virology laboratory section to assist, on an emergency basis, the Chicago Police Department crime laboratory during the Tylenol® poisoning incident of September 1982, while still maintaining critical public health laboratory testing services;

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