

# MARISSA J. LEVINE, MD, MPH

Office: (813) 974-2351 ♦ Email: mjlevine@usf.edu

## PROFESSIONAL SUMMARY

Transformational leader with significant clinical, academic, managerial, governmental and global public health experience. Working to promote the continued evolution of sustainable communities of health and well-being for all people.

## PROFESSIONAL EXPERIENCE

**University of South Florida, College of Public Health**

**Professor, Practice Pathway**

**Director, Center for Leadership in Public Health**

**Director of Innovation for Collective Impact**

**Morsani College of Medicine**

**Professor, Department of Family Medicine**

*Part of new effort by the college to infuse practice experience into teaching, research and community engagement efforts. Dr. Levine has resurrected the College's Center for Leadership in Public Health to focus on public health leadership training, enhancing public health effectiveness and exploring new models of population health improvement. Collaborative faculty appointment with the Department of Family Medicine in the medical school promoting inter-professional education and sharing population health improvement expertise.*

*Current activities:*

*Public Health Executive Leadership Program (PHELP) with Florida DOH*

*USF MPH Core Curriculum – Translation to Public Health Practice-Spring Semesters*

*USF DrPH – Fall Institute -Public Health Leadership/Summer Institute/DrPH Mentoring*

*Introducing Systems Thinking in Public Health*

**Virginia Department of Health (VDH)**

**State Health Commissioner**

**Richmond, Virginia**

**2014-April 2018**

*The State Health Commissioner (SHC) is the agency head of a large multi-faceted state public health department responsible for over 40 service lines. The SHC has regulatory oversight of public drinking water systems, healthcare facilities (including Certificate of Public Need), food service providers, shellfish harvest waters, nuclear power stations, EMS/Trauma systems, vital records, among others. As the authorized State Health Official for the Commonwealth of Virginia, the SHC reports to the Board of Health but is also empowered with all Board authorities when the Board is not in session. By law, the SHC must be a board-certified primary care or preventive medicine physician. This position is a Gubernatorial appointed position that:*

- Is the face of public health in the Commonwealth of Virginia*
- Manages and leads ~ 4000 personnel across the Commonwealth that include physician directors, nurses, engineers, epidemiologists, emergency response personnel, and nutritionists to name a few.*
- Develops, presents and manages a \$650 million budget.*
- Leads emergency response efforts as the Emergency Support Function-8 lead. Experiences include such efforts as the Virginia unified command response to Ebola in coordination with Dulles International Airport, state Zika response, opioid addiction crisis, among other natural hazards and threats.*

*In addition, Dr. Levine spearheaded the first state health improvement effort in many years. This resulted in the definition, development and implementation of a statewide approach to population health improvement linking efforts at all levels through a process to intentionally develop health promoting systems. Dr. Levine also led a major shift in the agency's use of data internally and externally by creating the first informatics governance structure and processes.*

*Clearance: Department of Homeland Security, Secret Clearance, since 2009*

**Chief Deputy Commissioner for Public Health and Preparedness 2012-01/2014**

*Operational oversight of all VDH programmatic central offices including epidemiology, emergency preparedness, emergency medical services, licensure and certification, risk communications, family health services, among others*

- *Assured operational efficiency and effectiveness*
- *Assured programmatic accuracy and appropriate public health practice*
- *Coordination with key external stakeholders including legislative initiatives*

**Deputy Commissioner, Public Health & Preparedness 2009-2012**

*Oversaw offices of Emergency Preparedness, Chief Medical Examiner, Emergency Medical Services, Licensure and Certification and Risk Communication and Education.*

- *Responsible for emergency preparedness and response including the H1N1 pandemic efforts*
- *Responsible for adequate healthcare facility licensure and certification*
- *Assured Commissioner involvement and awareness as required*

**District Director 2002-2009**

*Delegated authority to operationalize health department mandated and contracted services as the local public health official.*

*From 2002 was based in the Piedmont Health District. District office – Farmville, VA*

*From 2005 to 2/2009 based in Henrico Health District, Henrico County, Virginia*

- *In September 2005, led the health and medical aspect of the Virginia response to Hurricane Katrina at Town Pickett evacuation center.*
- *2004 - Lecturer, Hampden-Sydney College Honors Biology Course*
- *2003-2005 Board Member, Central Virginia Health Planning Agency, Richmond, VA*
- *2002-2004 Lecturer in Public Health, Blackstone Family Practice Residency, Blackstone, VA*

**Hamot Health Foundation, Erie PA  
Multiple positions 1989-2002**

- 1989-2002 Faculty, Hamot Family Practice Residency, Hamot Medical Center, Erie, PA
- 1989-2002 Active Staff, Department of Ambulatory Medicine, Division of Family Practice, Hamot Medical Center, Erie, PA. Held many positions including Department Chair
- 1989-2002 Courtesy Staff, Great Lakes Rehabilitation Hospital, Erie, PA
- 1999-2001 Director, Center for a Healthy Community, Civic Institute, Mercyhurst College, Erie, PA
- 1990-1999 Director, Hamot Family Practice Residency, Hamot Medical Center, Erie, PA
- 1992-2002 Clinical Assistant Professor, Department of Family Practice, MCP♦Hahnemann School of Medicine, Drexel University, Philadelphia, PA. Hamot Campus Dean.
- 1992-2002 Clinical Assistant Professor, Department of Family Practice, Penn State - Hershey Medical School, Hershey, PA

**Norland Family Practice Chambersburg, PA  
Family Physician 1986-1989**

- 1986-1989 Physician, Norland Family Practice, PC, Chambersburg, PA
- 1986-1989 Active Staff, Department of Family Practice, Chambersburg Hospital, Chambersburg, PA

**BOARD APPOINTMENTS**

**ReadyGlobal, Advisory Board Member 2021 - Present**

**National Safety Council, Board Member 2019 - Present**

**Association of State and Territorial Health Officials**

**Alumni member 2018- Present**

**Past President 2016- 2017**

**Board of Directors and Regional Representative 2014- 2018**

**Preparedness Committee Member 2014- Present**

**Board of Scientific Counselors, Center for Preparedness and Response, Centers for Disease**

Control and Prevention, Atlanta, GA

Member

Liaison Representative

May 2021-Present

2013-2018

### **FACULTY APPOINTMENTS**

**University of South Florida**

**Tampa, FL**

2018-Present Professor, Practice Pathway, College of Public Health

2019-Present Professor, Collaborative Faculty, Department of Family Medicine, Morsani College of Medicine

**University of Virginia**

**Charlottesville, Virginia**

2004-Present Adjunct Faculty, Department of Health Evaluation Sciences

2002-Present Clinical Assistant Professor, Department of Family Medicine

**Virginia Commonwealth University**

**Richmond, Virginia**

2009-Present Clinical Assistant Professor, Department of Family and Community Medicine

### **LICENSURE/CERTIFICATION**

2018 Florida License to Practice Medicine (retired 2020)

2017 Instrument pilot rating, FAA

2014 Private Pilot License, Federal Aviation Administration (FAA), Certificate Number 3755245

1984 Commonwealth of Virginia License to Practice Medicine (current through July 2022)

1989 Fellow, American Academy of Family Physicians

1986 Commonwealth of Pennsylvania License to Practice Medicine (inactive)

1986 Diplomate, American Board of Family Medicine, re-certified 1992, 1998, 2004, 2014 (current through 2024)

### **PROFESSIONAL AFFILIATIONS**

American and Virginia Academy of Family Physicians (AAFP/FAFP)

American Public Health Association

Association of State and Territorial Health Officials (ASTHO) – Alumni member

### **CONSULTING**

04/20-Present Hillsborough County. COVID-19 Planning for county and school district.

08/21 ASTHO Board /CDC leadership COVID-19 roundtable meeting facilitation.

### **GRANTS**

2020 CoPI: A Decentralized Digital ID for Pandemics, USF COVID-19 Rapid Response Research Proposal #100429, \$25,000. Multiple USF Colleges.

2020 Co PI: Mathematics and Science Teaching and Learning of COVID-19 Public Health Issues in eLearning Environments, USF COVID-19 Rapid Response Research Grant, \$25,000. With the USF Department of Education Faculty

2020 Co PI: Anonymized, Systematic, Pandemic, e-[Geo-Fenced], Contagion Tracking (ASPeCT) Building a Proof-Of-Concept, COVID-19 response with USF MUMA College of Business Faculty and Tampa General Hospital.

2009–2014 Principle Investigator for CDC Public Health Emergency Preparedness (PHEP), Public Health Emergency Response (PHER) and HHS ASPR Hospital Preparedness Grants (HPP). *PHER was a one-time grant related to the H1N1 influenza pandemic. PHEP grant annual award ranged from \$15,000,000 - \$16,000,000. HPP grant annual award ranged from \$8,000,000 - \$10,000,000*

2007 Principle Investigator, Governor’s Request for Results, Infant Mortality Prevention, \$100,000

### AWARDS/HONORS

- 2015 Child Health Advocate Award, Virginia Chapter-American Academy of Pediatricians
- 2002 Delta Omega Society, Alpha Chapter, Public Health Honors Society
- 1999 Dean's Special Award for Teaching, MCP♦Hahnemann School of Medicine, Philadelphia, PA
- 1996 Dean's Special Award for Teaching, MCP, Philadelphia, PA

### EDUCATION

- 2014 State Health Leadership Initiative Executive Education Program, Harvard Kennedy School, Boston, Massachusetts
- 1999-2002 MPH, Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland
- 1983-1986 Residency in Family Practice, University of Virginia, Charlottesville, Virginia
- 1979-1983 MD, Albert Einstein College of Medicine of Yeshiva University, Bronx, New York
- 1975-1979 BA, *cum laude*, University of Rochester, Rochester, New York

### PRESENTATIONS

- Oct 2021 "Leading Communities: Creating the Conditions for Equitable Health & Well-Being in the Era of COVID-19." Consortium for a Healthy Miami-Dade Annual Meeting. Virtual.
- Sept 2021 "System Evolution for Health Equity." Eyes on Equity Series. Health Council of West Central Florida. Virtual.
- Nov 2020 "COVID-19: Adapting to Change." Naples Discussion Group. Virtual.
- Oct 2020 "Co-Creating Sustainable Solutions for Health Equity Using a Systems Thinking Approach." Tampa Bay Healthcare Collaborative. Virtual Session.
- Oct 2020 "Leading Self: Creating the Conditions for Equitable Health & Well-Being in the Era of COVID-19." Consortium for a Healthy Miami-Dade Annual Meeting. Virtual session.
- Nov 2019 "Extreme Heat Events (EHE) and Inequities: Health and Well Being as a Design Problem." Addressing Climate Change in Tampa Bay Conference
- March 2019 "Health Equity...Liberty and Justice for All." Florida Public Health Association Regional Meeting, Tampa Fl.
- February 2019 "Global Health Security: Diplomacy...A Public Health Intervention? Inaugural Global Health, Diplomacy and National Security Symposium, University of South Florida, Tampa, FL

*Multiple presentations as State Health Commissioner since 2014 covering an array of topics from population health improvement, state health improvement planning, health determinants, opioid addiction, Ebola/Zika and other emergencies among other issues. Below are examples of previous talks:*

#### *Opioid Crisis*

- January 2018 "Virginia's Opioid Crisis: Are you part of the solution or part of the problem?" 2018 Virginia Commonwealth University Urological Update 2018 and More, Henrico, VA
- August 2017 "The Opioid Crisis in Virginia," 2017 Duke Health Forum, Durham, NC

#### *Emergency Preparedness/Communicable Disease Control*

- June 2016 "Enhancing Health Security in the Commonwealth of Virginia, USA," Taiwan-US Health and Welfare Policy Symposium, Taipei, Taiwan
- Oct 2013 "Emerging Public Health Issues." Secure Commonwealth Panel, Richmond, VA
- July 2013 "Updates in Public Health Emergency Preparedness," School Nurse Symposium, Longwood University, Farmville, Virginia
- Oct 2012 "Health & Human Services Subpanel Update." Secure Commonwealth Panel, Richmond, VA
- June 2012 "Advancing Healthcare Preparedness in Virginia: Five Considerations for Healthcare Leaders." Virginia Healthcare Emergency Management Forum, Norfolk, VA
- April 2012 "Public Health Emergency Preparedness Capabilities." Health & Human Resources Subpanel

- Meeting, Henrico, VA
- Oct 2011 “Community Resilience: Building Public-Private Partnerships for Public Health Emergencies,” Old Dominion Chapter of the Association of Continuity Planners Annual Meeting, Richmond, VA
- June 2011 “Radiation Overview for Public Health,” VDH EPR Summit, Richmond Virginia
- May 2011 “Health Security in Virginia: The Virginia Disaster Medical System,” Virginia Chapter – American College of Surgeons Annual Meeting, Richmond VA
- May 2010 “The National Health Security Strategy: A Virginia Perspective,” Keynote address, Virginia Healthcare Emergency Forum, Virginia Beach VA
- Mar 2010 “The National Health Security Strategy: A Virginia Perspective,” Theodore E. Woodward Lecture, 49<sup>th</sup> Navy and Marine Corps Public Health Conference, Hampton, VA
- 05/09 – 03/10 Multiple presentations related to H1N1 pandemic influenza
- May 2009 “Chance Favors the Prepared Community: Pandemic Flu Preparedness Makes Good Business Sense,” Virginia 1<sup>st</sup> Annual Membership Meeting, Richmond, VA
- Apr 2009 “Chance Favors the Prepared Community: Residential Facility Preparedness for Emergency Managers,” Virginia Emergency Management Association Conference, Hampton, VA
- Nov 2007 “Case Management of Suspect AI Cases in Humans,” Rapid Response Training: A Multi-Agency Response to Avian Influenza in the United States. Richmond, VA
- Apr 2007 “Chance Favors the Prepared Community: Preparing Locally for Public Health Emergencies,” National Public Health Week Seminar Series, Virginia Commonwealth University, Richmond, VA
- Feb 2007 “Chance Favors the Prepared Community: Preparing for Pandemic Flu,” Richmond Chapter of the Association of Government Accountants (AGA), Henrico County, VA
- May 2006 “Outbreak Investigation; Using the Incident Command System,” VDH Annual EP&R Meeting, Fredericksburg, VA
- 2006 “Chance Favors the Prepared Community; Why Pandemic Flu Preparedness Makes Sense,” Presented to various community organizations, Richmond and Virginia Beach, VA
- Oct 2004 “Bioterrorism,” UVa. Family Practice Special Seminars Presentation, Charlottesville, VA
- Mar 2004 “Chance Favors the Prepared Community,” Charlotte County Lions Club, Keysville, VA  
Repeated in Farmville and Lunenburg Counties October and November 2004
- Oct 2003 “SARS: A Reemerging Threat?” Southside Community Hospital, Farmville, VA
- General Public Health*
- Feb 2004 “Public Health in Rural Virginia,” Hampden-Sydney College, Hampden-Sydney, VA
- Feb 2004 “Collaborating for Chronic Disease Prevention,” Prince Edward School Board, Farmville, VA
- Tuberculosis*
- Oct 2003 “Public Health Update: Tuberculosis,” University of Virginia Family Practice Grand Rounds, Charlottesville, VA
- Environmental Health*
- March 2009 “Not a ‘Bright’ Idea: Mercury Exposure at a Light Bulb Recycling Plant,” Virginia Department of Health EP&R Conference, Richmond, VA
- April 2003 “West Nile Virus, 2003,” Longwood University, Farmville, VA
- Oct 2001 “Environment and Health” Carrie T. Watson Garden Club, Erie, PA
- Dec 2000 “Producing Health: The Role of the Environment,” Greening the Campus, Mercyhurst College, Erie, PA
- Nov 2000 “Producing Health: The Role of the Environment,” Environmental Sciences Lecture Series, Gannon University, Erie, PA
- Population Health Improvement/Community Health Improvement*
- Nov 2017 2017 New Perspectives on Health Policy Symposium, “Medicalization of Poverty,” Keynote speaker with Governor Tommy Thompson, University of Illinois, Champagne, IL
- 2015-Present Multiple presentations related to [Virginia’s Plan for Well-Being](#)

- April 2008 "Infant Mortality in Henrico County; Mobilizing for Action," Henrico, VA
- May 2002 "Emerging Aging Issues." As We Age Conference, Va Coop Extension, Farmville, VA
- Leadership*
- Oct 2000 Stories from the Front Lines, VHA Physician Leadership Meeting, Chicago, IL
- April 1999 "Quality: Getting Beyond the Basics with Complexity," VHA Leadership Conference, Orlando, Florida (with Paul Plsek and Kevin Dooley)
- Information Mastery/Evidence-Linked Practice*
- March 2000 "Information Mastery – Diagnostic tests," Pinnacle Health Series, Harrisburg, PA
- Aug 1998 "Discerning Fact from Fiction-An Evidence-Based Approach to the Practice of Medicine," WCA Hospital Grand Rounds, Jamestown, NY
- June 1998 "Discerning Fact from Fiction- An Evidence-Based Approach to the Practice of Medicine," Hamot Medical Center Grand Rounds, Erie, PA
- April 1998 "Determining the Usefulness of Diagnosis Articles," Teaching Information Mastery, University of Virginia, Charlottesville, VA
- April 1997 "Determining Validity and Teaching of Diagnosis Articles," Teaching Information Mastery, University of Virginia, Charlottesville, VA.
- March 1996 "Validity of Diagnosis Articles," Teaching Information Mastery, Charlottesville, VA
- Oct 1994 "Implementing Evidence-Based Medicine into Practice," Seventh Annual Hamot Family Practice Conference, Clymer, NY
- May 1992 "Critical Appraisal of the Literature," PAFP Annual Scientific Assembly, San Juan, Puerto Rico

## PUBLICATIONS

- K. Newcomb, M.E. Smith, R.E. Donohue, S. Wyngaard , C. Reinking , C.R. Sweet , M.J. Levine , T.R. Unnasch & E. Michael (2022) Iterative data-driven forecasting of the transmission and management of SARS-CoV-2/ COVID-19 using social interventions at the county-level. **Scientific Reports**. 12:890.
- Levine, MJ. Effecting Collective Impact through Collective Leadership on a Foundation of Generative Relationships. Leadership Lessons Learned from Global Health Threat Response: Ebola in 2014 – As seen through the eyes of a former Virginia State Health Commissioner. In: Masys, A (ed) **Global Health Security**. 2020. Springer Nature. Switzerland
- Levine, MJ. Health Security. In: Masys, A. (ed) **Handbook of Security Sciences**. Springer. Submitted February 2020
- Murray, M. F., J. P. Evans, M. Angrist, K. Chan, W. Uhlmann, D. L. Doyle, S. M. Fullerton, T. Ganiats, J. Hagenkord, S. Imhof, S. H. Rim, L. Ortmann, N. Aziz, W. D. Dotson, E. Matloff, K. Young, K. Kaphingst, A. Bradbury, J. Scott, C. Wang, A. Zauber, **M. Levine**, B. Korf, D. Leonard, C. Wicklund, G. Isham, and M. J. Khoury. 2018. A Proposed Approach for Implementing Genomics-Based Screening Programs for Healthy Adults. **NAM Perspectives**. Discussion Paper, National Academy of Medicine, Washington, DC. <https://doi.org/10.31478/201812a>
- Levine, MJ Intentionally Designing Communities for Health and Well-Being: A Vision for Today. **The Journal of Law, Medicine & Ethics**, 46 (2018): 685-690.
- Levine, MJ and Cooney, MA "Love as a Public Health Intervention," **Journal of Public Health Management and Practice**, available on line at: [http://journals.lww.com/jphmp/Citation/2018/01000/Love\\_as\\_a\\_Public\\_Health\\_Intervention.16.aspx](http://journals.lww.com/jphmp/Citation/2018/01000/Love_as_a_Public_Health_Intervention.16.aspx)
- Levine, MJ and Northam, R. Virginians Must Prepare Now to Prevent Zika, Op-ed, **Richmond Times-Dispatch**, March 7, 2016
- Levine, MJ Imagine! Richmond Academy of Medicine **Ramifications**, January 2016
- Levine, MJ. Patient Reassurance When Test Results are Normal. JFP Journal Club. **J Fam Pract**. 1996;43:440-441.
- Levine, MJ **Public Health Bytes** A monthly local health department newsletter. [Originator – now managed by local health district]

**RESEARCH/TEACHING/OTHER SCHOLARLY ACTIVITIES**

- 2021 Co-faculty, Systems Science and Population Health PHC 6934, USF Fall Semester
- 2019-Present Lead Faculty, USF MPH Program PHC 6145: Translation to Practice, Spring Semester
- 2019-Present Faculty and Student Advisor/Mentor, USF DrPH program
- 2018-Present Course director, USF Center for Leadership in Public Health, Public Health Executive Leadership Program  
*Cohort of emerging leaders from the Florida Department of Health*
- 2018-Present Advisory Board Member, USF COPH Activist Lab
- 2017 Aspen Spotlight Health Scholar, Aspen Ideas Festival, Aspen Colorado
- 2012–2014 Student Advisor, MPH program, Department of Epidemiology and Community Health, Virginia Commonwealth University, Richmond, VA
- 2005-2011 Lecturer, EPID 602 - Public Health Management & Organization, Virginia Commonwealth University, Richmond, VA
- 2000-2001 Lecturer in Public Health, Lake Erie College of Osteopathic Medicine, Erie, PA
- 1999-2002 Cancer Registry Project, evaluation of trends in “stage at diagnosis” percentages in Erie, County. Supported by the Joint Oncology Committee of Erie

**ADDITIONAL EDUCATIONAL ENGAGEMENTS**

- May 2011 Meta-Leadership Summit, Blacksburg, VA
- Jan 2010 Virginia Emergency Operations Center (VEOC) 101 and 201
- Aug 2008 “IS-00800 – National Response Plan,” National Incident Management System (NIMS)
- Aug 2007 Incident Command Systems, ICS 300/400, Henrico Emergency Services, Richmond VA
- Dec 2005 Incident Command Systems, ICS 100/200, Henrico Emergency Services, Richmond, VA
- Oct 2005 “IS-00700 – National Incident Management System (NIMS) – an introduction.”
- 1995-1999 Course work in Medical Management: Completed PIM I, II, Financial Decision Making, Managing Physician Performance and Managing Creativity and Innovation in Healthcare organizations

**COMMUNITY SERVICE**

- 2018-Present Together Charlotte Steering Committee. Human Services Coordinating Body.
- 2014-Present The Ninety-Nines, Inc. International Organization of Women Pilots. *Educational and community service oriented organization.*
- July 2012 Community Emergency Response Team Basic Training, Hanover, VA