

Contact

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Top Skills

Program Management
Research
Government

Honors-Awards

Honorary Degree, University of Toledo Medical School
Bronze Star
Defense Superior Service Medal
DARPA, Results Matter
Most Outstanding Junior Resident, Brooke Army Medical Center

Matthew Hepburn

Accelerating medical product development to address infectious diseases

Washington DC-Baltimore Area

Summary

Infectious diseases physician, recently retired from the military, with broad experience in strategy, executive leadership, program management and implementation, all aimed at mitigating the impact of infectious diseases and pandemics on our Nation. My recent experience as COVID Vaccine Lead for Operation Warp Speed (now Countermeasures Acceleration Group) has inspired me to keep pressing to end this pandemic, and ensures another pandemic never happens again.

Experience

White House Office of Pandemic Preparedness and Response
Policy

Vaccine and Therapeutics Lead
March 2024 - Present (9 months)

Strategic advisor on ensuring the United States is developing all that is needed to prevent and mitigate infectious diseases outbreak, so they never become pandemics

Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense-JPEO-CBRND

Chief Medical Officer
May 2023 - Present (1 year 7 months)

Washington DC-Baltimore Area

US Army

28 years

Infectious Diseases Physician
1996 - Present (28 years)

I maintain my medical licensure for clinical practice in internal Medicine and infectious diseases in the Military Health System.

Joint Product Lead Enabling Biotechnologies

August 2019 - October 2021 (2 years 3 months)

Washington DC-Baltimore Area

I served as the Joint Project Lead of Enabling Biotechnologies for the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense. In this role, he was responsible for establishing a start-to-finish capability to develop vaccines and therapeutic solutions against current future biological threats. Due to the creation of this foundational capability, Dr. Hepburn and the Enabling Biotechnology team implemented the DoD Vaccine Acceleration Project, which provides key investments to advance vaccines and antibody therapeutic efforts, with special emphasis on acceleration of manufacturing these products and clinical trials. These investments also provided critical initial actions to enable Operation Warp Speed.

Georgetown University

6 years 6 months

Affiliate, Georgetown Center for Health Science and Security

June 2018 - Present (6 years 6 months)

Washington, District of Columbia, United States

Volunteer position

Adjunct faculty, Georgetown University

August 2019 - Present (5 years 4 months)

Washington, District of Columbia, United States

Taught graduate-level course: Biotechnology and National Security, Fall 2019

The White House

Senior Advisor, Office of Science and Technology Policy

October 2021 - May 2023 (1 year 8 months)

Washington DC-Baltimore Area

I lead OSTP efforts to implement the American Pandemic Preparedness Plan, learning the lessons from the current pandemic. We are taking actions to prepare for future COVID variants and ensuring pandemics never happen again.

U.S. Department of Health and Human Services (HHS)

Director COVID Vaccine Development

May 2020 - October 2021 (1 year 6 months)

Washington DC-Baltimore Area

I lead COVID Vaccine Development to enable to the US Government response to the COVID pandemic. The Countermeasures Acceleration Group was formerly known as Operation Warp Speed. In this role, I provide oversight

for the investment in six COVID vaccine platforms, providing the partnerships necessary for these vaccines to end the pandemic.

DARPA

Program Manager

2013 - August 2019 (6 years)

I managed a portfolio of investments to improve our national capability to respond to pandemics and infectious diseases outbreak that affect military personnel. Our partnerships included outbreak forecasting, medical devices and diagnostics, and rapid development of vaccines and therapeutics. Efforts on the Pandemic Prevention Platform (P3) helped to accelerate products in response to the COVID pandemic.

Defense Health Agency

Director Clinical Research

2013 - 2016 (3 years)

Washington, District of Columbia, United States

I led initiative to improve clinical research in the Military Health System and R&D enterprise, including creating multi-site consortia and building clinical research infrastructure. I also supervised the Defense Health Agency Small Business Innovation (SBIR) program.

National Security Council, The White House

Director, Medical Preparedness

December 2010 - June 2013 (2 years 7 months)

Washington, District of Columbia, United States

I led interagency policy processes and developed the strategic approach to health surveillance and other lessons learned from the H1N1 influenza pandemic, intent in preparing for future pandemics. Accomplishments included completion of the National Strategy for Biosurveillance, which created the policy framework to support advances in public health surveillance applied for the current pandemic.

United States Department of Defense

Senior Director Clinical Research

June 2007 - June 2009 (2 years 1 month)

I served as the Clinical Research Director at the U.S. Army Medical Research Institute for Infectious Diseases (2007-2009), leading domestic and international clinical research efforts on biodefense products. This role

entailed extensive service with the Cooperative Threat Reduction program in the republics of the former Soviet Union.

DSTL Porton Down

Exchange Officer to the United Kingdom

February 2005 - June 2007 (2 years 5 months)

Salisbury, England, United Kingdom

I developed multiple long-term collaborative research projects between US and UK military, including immunologic assessments of anthrax vaccines. I also fostered the US-UK international partnership on the DoD Biologic Threat Reduction Program, An example project included establishing a unique Institutional Review Board in Azerbaijan that received a US Federal Wide Assurance

United States Department of Defense

Clinical Research Lead

September 2003 - January 2005 (1 year 5 months)

Washington DC-Baltimore Area

I established a USAMRIID Clinical Research Unit. Activities included protocol development of a Phase 1 vaccine trial, and exploring immunologic correlates for unique vaccines

Brooke Army Medical Center

7 years

Infectious Diseases Fellowship

June 2000 - June 2003 (3 years 1 month)

San Antonio, Texas, United States

Fellowship training program, including significant clinical research and clinical trials experience, along with training in tropical medicine.

Chief of Residents

June 1999 - June 2000 (1 year 1 month)

San Antonio, Texas, United States

Teaching and leading the internal medicine residency program for a year.

Internal Medicine Residency

July 1996 - June 1999 (3 years)

San Antonio, Texas, United States

Training in internal medicine, designated Outstanding Junior Resident and Senior Resident

Education

Duke University

Doctor of Medicine (MD) · (August 1992 - May 1996)

Duke University

Bachelor of Science (BS), Biomedical/Medical Engineering · (August 1988 - May 1992)

Detroit Catholic Central High School

High School · (August 1984 - May 1988)