

CURRICULUM VITAE

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Professor, Department of Medicine
Scientist, Center for Vaccine Development and Global Health
University of Maryland School of Medicine

DATE June 9, 2024

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EDUCATION

1991-1995 Bachelor of Arts in English Literature, Dartmouth College, Hanover, NH
1995-1996 Non-degree post baccalaureate year, Colorado State University, Fort Collins, CO
1997-2002 Doctor of Medicine, University of California San Francisco School of Medicine
2008-2012 Master of Science in Epidemiology, University of Washington School of Public Health, Seattle, WA
2011 Certificate in Vaccinology, ADVAC Advanced Course of Vaccinology, Fondation Mérieux, Annecy, France and University of Geneva, Switzerland

POSTGRADUATE TRAINING

2002-2003 Internship, Categorical Internal Medicine, University of California, Department of Medicine, San Francisco, CA
2003-2005 Residency, Categorical Internal Medicine, University of California, Department of Medicine, San Francisco, CA
2005-2007 Epidemic Intelligence Service Officer, Centers for Disease Control and Prevention, Influenza Division, Atlanta, GA
2007-2008 Clinical Fellowship, Pulmonary and Critical Care Medicine, University of Washington, Department of Medicine, Seattle, WA
2008-2010 Research Fellowship, Pulmonary and Critical Care Medicine, University of Washington, Department of Medicine, Seattle, WA

CERTIFICATIONS

2005 American Board of Internal Medicine, Internal Medicine
2010 American Board of Internal Medicine, Pulmonary Medicine
Recertification 2023-2033
2011 American Board of Internal Medicine, Critical Care Medicine

MEDICAL LICENSURE

2003 California, Inactive
2007 Washington, Inactive
2016 Colorado, Inactive
2017 Maryland, Active

EMPLOYMENT HISTORY

Academic appointments

- 2010-2011 Acting Instructor of Medicine, University of Washington, Department of Medicine, Division of Pulmonary and Critical Care Medicine, Seattle, WA
- 2011-2014 Assistant Professor of Medicine, University of Washington, Department of Medicine, Division of Pulmonary and Critical Care Medicine (primary faculty appointment), Seattle, WA
- 2012-2014 Assistant Professor of Global Health, University of Washington, Department of Global Health, Seattle, WA
- 2014-2018 Affiliate Assistant Professor of Medicine, University of Washington, Department of Medicine, Seattle, WA
- 2014-2019 Affiliate Assistant Professor of Global Health, University of Washington, Department of Global Health, Seattle, WA
- 2019-2020 Affiliate Associate Professor of Global Health, University of Washington, Department of Global Health, Seattle, WA
- 2017-2021 Associate Professor, Division of Geographic Medicine, University of Maryland School of Medicine, Baltimore, MD
- 2021-present Professor, Division of Geographic Medicine, University of Maryland School of Medicine, Baltimore, MD

Other employment

- 1996-1997 AmeriCorps Vista Volunteer, San Luis Valley Christian Community Services, Alamosa, CO
- 2009 Consulting Scientist, World Health Organization, Global Influenza Programme, Geneva, Switzerland
- 2009-2010 Part-time physician, Swedish Hospital, Medical Intensive Care Unit, Seattle, WA
- 2009-2013 Clinical Research Scientist, PATH, Vaccine Development Global Program, Seattle, WA
- 2014-2017 Medical Officer (P5 Rank), Initiative for Vaccine Research, World Health Organization, Geneva, Switzerland
- 2019-2023 Consulting Scientist, Center for Asthma Research, Vanderbilt University School of Medicine, Nashville, TN
- 2021-2023 Consulting Scientist, Department of Health Metrics, University of Washington School of Medicine, Seattle, WA

PROFESSIONAL ORGANIZATIONS

- 2007-present American College of Physicians (elected fellow 2011)
- 2007-2014 Member, National Hispanic Medical Association
- 2008-present Member, American Thoracic Society
- 2008-2013 Member, Pan-African Thoracic Society
- 2009-present American College of Chest Physicians (elected fellow 2012)
- 2010-2015 Member, International Society for Influenza and other Respiratory Viruses Diseases

HONORS AND AWARDS

- 1995 C. Everett Koop Institute Primary Care Apprentice, Dartmouth Medical School
- 1996 Ronald E. McNair Post baccalaureate Achievement Program, Colorado State University
- 1996 Leadership Alliance Summer Research Early Identification Program, Brown University
- 1997 National Medical Fellowships Scholar, UCSF School of Medicine
- 1998 National Health Service Corps Primary Care Scholarship, UCSF School of Medicine
- 1999 University of Colorado Rural Multidisciplinary Scholarship, University of Colorado School of Medicine
- 2001 Arthur Ashe Program in AIDS Care, National Medical Fellowships, Harvard Medical School
- 2001 French American Foundation for Medical Research and Education Scholarship, UCSF School of Medicine
- 2004 Resident Teaching Fellowship, UCSF School of Medicine
- 2005 Nominated HHS Distinguished Secretary's Award for Katrina/Rita/Wilma Hurricane Response, Centers for Disease Control and Prevention
- 2007 Silo Busters Honor Award, for effective inter-agency collaboration in response to the global threat of avian influenza (H5N1). National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention
- 2009 Travel Grant, Annual Meeting of Infectious Diseases Society of America on Seasonal and Pandemic Influenza
- 2009 Scholarship, Summer Institute in Statistics and Modeling in Infectious Diseases, University of Washington
- 2009 Lakshminarayan Fellow Fund Endowment Award, University of Washington Division of Pulmonary and Critical Care Medicine (declined)
- 2009 John B. Coombs Research Award, University of Washington Housestaff Association
- 2009-2011 Early Career Award, Thrasher Research Fund
- 2010 Travel Grant, Annual Meeting of the American Thoracic Society
- 2010 University of Washington Provost's Minority Faculty Recruitment Award
- 2010-2014 Harold Amos Medical Faculty Development Award, Robert Wood Johnson Foundation
- 2011 National Foundation for Infectious Diseases, Advanced Course of Vaccinology Scholarship
- 2015 American Thoracic Society Innovation in Fellowship Education Award for the creation of a Global Health Pathway at the University of Washington Pulmonary and Critical Care Fellowship Training Program
- 2017 2016 Articles of the Year, American Journal of Epidemiology and the Society for Epidemiologic Research, "Detectable Risks in Studies of the Fetal Benefits of Maternal Influenza Vaccination" (Bibliography: Article #40)
- 2020 Faculty Teacher of the Year, Division of Geographic Medicine, University of Maryland School of Medicine

- 2021 University of Maryland, Baltimore Champion of Excellence Award for yeoman efforts to combat the SARS-CoV-2 virus awarded to the UMB Center for Vaccine Development and Global Health (CVD) faculty and staff.
- 2023 University of Maryland School of Medicine Clinical Research Article of the Year, "A Multi-Center, Controlled Human Infection Study of Influenza A (H1N1)pdm09 in Healthy Adults" (Bibliography: Article #138)

CLINICAL ACTIVITIES

- 2009-2010 Part-time intensivist, Swedish Hospital, Medical Intensive Care Unit, Seattle, WA
- 2009-2010 Part-time tuberculosis care provider, Public Health Seattle King County Tuberculosis Clinic, Seattle, WA
- 2010-2013 Attending physician, Medical Intensive Care Unit (MICU), University of Washington Medical Center, Seattle, WA (8 weeks / year)
- 2010-2013 Attending physician, Pulmonary and Critical Care Medicine, Seattle Cancer Care Alliance (SCCA), Seattle, WA (8 weeks / year)
- 2018-2020 Attending physician, Travel Health Clinic, University of Maryland Medical Center, Baltimore, MD (2-4 clinics/month)

ADMINISTRATIVE SERVICE

Institutional service

University of Washington School of Medicine

- 2010-2014 Organizing Committee Member, Global Health Pathway at the University of Washington Pulmonary and Critical Care Fellowship Training Program University of Washington, Seattle, WA
- 2011-2014 Associate Director and Founding Member, International Respiratory and Severe Illness Center (INTERSECT), University of Washington, Seattle, WA
- 2013 Organizing Committee Member, University of Washington World Pneumonia Day Commemoration

University of Maryland School of Medicine

- 2018 Member, Center for Vaccine Development and Global Health Assistant Professor Faculty Search Committee
- 2018 Member, Meagan Fitzpatrick K01 Advisory Committee
- 2018-2019 Scientific Advisory Committee, Frontiers in Vaccinology Conference. University of Maryland School of Medicine
- 2019-present Vaccinology post-doctoral fellowship (T32) interviewer, UMSOM Center for Vaccine Development and Global Health
- 2019-2022 Organizer, CVD Influenza Interest Group
- 2020-2022 Member, Elizabeth A.D. Hammershaimb Scholarship Oversight Committee, UMSOM Pediatric Infectious Diseases Fellowship Program
- 2020-2022 Organizer, CVD/Department of Microbiology and Immunology COVID-19 Journal Club
- 2020-2022 Member, PREV 627 Vaccinology course curriculum committee
- 2019-present Internal Medicine Residency Interviewer, University of Maryland School of Medicine

- 2020-2024 Co-director, University of Maryland School of Medicine, Collaborative Influenza Vaccine Innovation Centers
- 2024-present Director, University of Maryland School of Medicine, Collaborative Influenza Vaccine Innovation Centers
- 2023 CVD Awards Committee

Local service

- 2010-2013 American College of Physicians and Washington State Medical Association Representative to the Vaccine Advisory Committee, Washington State Department of Health
- 2011-2013 Liaison Member, Executive Council, Washington Chapter American College of Physicians

National service

- 2005 Team Member, Mental health needs assessment in Louisiana evacuation centers. Hurricane Katrina Emergency Response. Centers for Disease Control and Prevention, Mississippi and Louisiana, USA
- 2007 Expert Consultant, Council of State and Territorial Epidemiologists Avian Influenza Rapid Response Training, Multiple Sites, USA
- 2007 Writing Committee Member, Council of State and Territorial Epidemiologists. The Role of Public Health in a Multi-Agency Response to Avian Influenza in the United States
- 2009-2010 Member, International Lung Health Committee, American Thoracic Society
- 2010 Expert Consultant, Centers for Disease Control and Prevention, Consultation on Pandemic Impact and Severity, Atlanta, GA, USA
- 2012 Grant Reviewer, CDC Special Emphasis Panel: "The Incidence of Community Associated Influenza and other Respiratory Infections in the United States (U01)". National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Atlanta, GA, USA
- 2018-2022 Writing Committee Member, Centers for Disease Control and Prevention, the National Institutes of Health, and the HIV Medicine Association of the Infectious Diseases Society of America. Guidelines for the prevention and treatment of opportunistic infections in HIV-infected adults and adolescents.
- 2019-2022 Independent Safety Monitor, National Institute of Allergy and Infectious Diseases (NIAID). Division of Microbiology and Infectious Diseases (DMID). Protocol: 12-0100. A Phase I, Randomized Trial to Assess the Safety, Reactogenicity, and Immunogenicity of a Combination HTNV and PUUV DNA Vaccine Candidate Administered by Electroporation.
- 2019-2020 Independent Safety Monitor, PATH - Pharmaron Clinical Research. A Phase 2a Randomized, Single-Center, Double-Blind, Placebo Controlled Study to Evaluate the Safety and Preliminary Efficacy of Oral iOWH032 Against Cholera Diarrhea in a Controlled Human Infection Mode.
- 2020-2022 Member, Respiratory Expert Working Group. NIAID Infectious Diseases Clinical Research Consortium
- 2020-2021 Member, Adaptive COVID-19 Treatment Trial Data Use Working Group
- 2020-2023 Independent Safety Monitor, US Army Medical Research and Development Command (USAMRDC). Protocol: DMID 12-0100. A Phase 1, Open-Label Clinical Trial with Dengue-1-Virus Live Virus Human Challenge (DENV-1-LVHC)

Assessment of Healthy U.S. Adults Previously Primed with Tetravalent Dengue Virus Purified Inactivated Vaccine (TDEN-PIV) and Boosted with Tetravalent Dengue Virus Live Attenuated Vaccine Formulation (TDEN LAV).

2020-2022 Member, NIH Human Epidemiology and Response to SARS-CoV-2 (HEROS) External Scientific Advisory Group

2020-present Member, Project Advisory Committee Panel. Council of Medical Specialty Societies. Prevention Of Disease, Disability, And Death Through Immunization and Control of Respiratory and Related Diseases

International service

2006 Expert Consultant, Avian Influenza A (H5N1) Outbreak Alert and Response, African Regional Office of the World Health Organization, Abuja, Nigeria

2006 Writing Committee Member, Seasonal and Novel Influenza Surveillance, Pan American Health Organization, Washington, DC, USA

2007 Expert Consultant, Seasonal and Novel Influenza Surveillance, Pan American Health Organization, Washington DC, USA

2007 Expert Consultant, Seasonal and Novel Influenza Surveillance, Pan American Health Organization, Mar del Plata, Argentina

2007 Expert Consultant, Seasonal and Novel Influenza Surveillance, Pan American Health Organization, Lima, Peru

2009 Expert Consultant, WHO Pandemic Influenza A (H1N1) Clinical Consultation, Washington DC, USA

2009-2013 Member, WHO Critical Care Working Group for Limited-Resource Settings, Geneva, Switzerland

2009 Expert Consultant, WHO Consultation on Public Health Research Agenda for Influenza, Geneva, Switzerland

2009 Expert Consultant, European Regional Office of the WHO (EURO) Pandemic Influenza A (H1N1), Copenhagen, Denmark

2009-2010 Expert Consultant, WHO Critical Care Training Working Group for Limited-Resource Settings, Geneva, Switzerland

2010-2013 Member, WHO Influenza Epidemiological Working Group, Geneva, Switzerland

2010 Expert Consultant, WHO Consultation on Clinical Management of Influenza and Other Acute Respiratory Illness in Resource-Limited Settings, Geneva, Switzerland

2010-2012 Writing Committee, WHO Global Influenza Surveillance Manual Revision, Geneva, Switzerland

2011 Expert Consultant, WHO Consultation on Global Tools and Manual for Influenza Surveillance, Geneva, Switzerland

2011 Meeting Rapporteur, Bill and Melinda Gates Foundation Global Consultation on Maternal Influenza Immunization, London, UK

2011 Expert Consultant, Progress Review Workshop, WHO Public Health Research Agenda for Influenza, Geneva, Switzerland

2011 Expert Consultant, WHO/NIAID/INTERSECT Emerging Pathogens Clinical and Laboratory Network Collaborators Meeting, Philadelphia, USA

2012 Expert Consultant, WHO Workshop on Influenza Burden of Disease and Economic Analysis, Bali, Indonesia

- 2012 Meeting Rapporteur, Bill and Melinda Gates Foundation Expert Panel Consultation on Maternal Influenza Immunization, Johannesburg, South Africa
- 2012 Expert Consultant, Afriflu 2012 Workshop on Influenza Immunisation in Africa, Cape Town, South Africa
- 2012 Meeting Rapporteur, International Expert Meeting on Influenza Vaccines as a Tool to Estimate the Burden of Severe Influenza, Fondation Mérieux, Annecy, France
- 2012 Invited Participant, WHO/CDC International Meeting on Influenza Vaccine Effectiveness, Geneva, Switzerland
- 2012 Session Co-Chair, WHO Informal Consultation on Influenza Disease Burden, Geneva, Switzerland
- 2012 Pulmonary Guideline Review Panel Member, WHO Integrated Management of Adolescent and Adult Illness (IMAI) District Clinician Manual
- 2013– present Member, Brighton Collaboration
- 2013 Expert Consultant, Influenza Vaccine Investment Strategy, GAVI Alliance
- 2013 Expert Consultant, PATH Meeting on LAIV Vaccine Trials in Infants and Young Children, Washington, DC
- 2013 PhD Assessor, Michelle Groome, University of the Witwatersrand, School of Public Health. Interdisciplinary Doctoral Programme in Public and Population Health. Rotavirus vaccine and diarrhoeal morbidity in South Africa. Johannesburg, South Africa.
- 2013-2014 Data Safety Monitoring Board Member: Reactogenicity, safety and immunogenicity of a live monovalent A/17/CALIFORNIA/66/395 (H2N2) influenza vaccine. Dr. Larissa Rudenko PI, Federal State Unitary Company “Microgen Scientific Industrial Company for Immunobiological Medicines” of the Ministry of Health of the Russian Federation.
- 2015 Working Group Member, Global Alignment of Immunization safety Assessment in pregnancy (GAIA)
- 2016 Scientific Advisory Committee Member, PATH Maternal Pertussis Immunization Project
- 2016 Expert Consultant, Bill and Melinda Gates Foundation Pertussis Infant Burden of Disease Mini Symposium
- 2017 Expert Panelist, Healthcare Systems and Policies. Sustainable Local Production of Influenza Vaccines for Pandemic Preparedness. Geneva, Switzerland
- 2017-2018 Member, WHO Technical Working Group on Respiratory Syncytial Virus Vaccination During Pregnancy to Prevent Recurrent Childhood Wheezing
- 2017-2019 Member, Technical Expert Panel, PATH Advancing Maternal Immunization (AMI) Project
- 2017-present Member, Global Burden of Disease Collaborator Network
- 2018 Expert Consultant, Influenza Vaccine Investment Strategy, GAVI Alliance
- 2018-present Member Scientific Committee, Global Influenza Hospitalization Surveillance Network
- 2018-2020 Member, International Council on Adult Immunization
- 2018 Expert Consultant, International Federation on Ageing Vaccination and the At-risk Population of Adults with Heart and Lung Conditions’ Expert Meeting, Stockholm, Sweden

- 2019 Expert Consultant, Immunisation for Life Summit. Washington DC. June 5-6
- 2019-2022 Member, Immunization for All Ages Steering Group (Pfizer)
- 2018-2021 Member, Scientific Committee, Scientific Advisory Board on Real World Evidence & Seasonal Influenza Vaccines (Seqirus)
- 2020-2022 Data Safety Monitoring Board Member: A Phase II Randomized, Double-Blind, Placebo-Controlled, Dose-De-Escalation Study of LMN-101 in Healthy Volunteers Challenged with *Campylobacter jejuni* (Advarra)
- 2020-present Co-chair, American Thoracic Society Vaccines and Immunization Working Group
- 2020 Member, Acute Respiratory Distress Syndrome (ARDS) Case Definition Working Group, Brighton Collaboration/Safety Platform for Emergency vaccines (SPEAC) Project
- 2020-2021 Member, WHO COVID-19 Vaccine Effectiveness Technical Group
- 2021-present Member, Moderna Product Pipeline Advisory Board
- 2021-2022 Member, WHO RSV Vaccine and Monoclonal Antibody Value Profile Expert Group
- 2021-present Co-Chair, American Thoracic Society Advancing Adult Immunization Initiative Steering Committee
- 2022-2023 Steering Committee, GSK Vaccine Virtual Days. March 29-30, 2023
- 2022-2023 GSK RSV Cost Effectiveness Advisory Board
- 2023-present Pfizer Advisory Committee of Influenza Experts (ACTiVE)
- 2023-present Data Safety Monitoring Board Member: A randomized, double-blind, placebo-controlled trial assessing the efficacy of once-daily dosing of Travalan® in a controlled human infection model for ETEC (Advarra)

Conference organization

- 2014 Convener, WHO consultation on the development of a guidance for field evaluation of influenza vaccine effectiveness, February 20-21, 2014
- 2014 Convener, WHO meeting to assess live-attenuated influenza vaccines to prevent paediatric influenza disease in low and middle income countries, Geneva, Switzerland, December 16-17, 2014
- 2014 Convener, WHO integrated meeting on development and clinical trials of influenza vaccines that induce broadly protective and long-lasting immune responses: Geneva, Switzerland, May 5-7, 2014
- 2015 Convener, WHO technical consultation on maternal influenza immunization evidence and implementation, March 25-26, 2015
- 2015 Convener, WHO technical consultation on the effect of maternal influenza and influenza vaccination on the developing fetus: Montreal, Canada, September 30-October 1, 2015
- 2016 Convener, WHO meeting on repeated influenza vaccination and vaccine effectiveness, July 19, 2016
- 2016 Convener, WHO meeting on development of influenza vaccines that induce broadly protective and long-lasting immune responses: Chicago, USA, August 23-24, 2016
- 2016 Convener, WHO Meeting on live attenuated influenza vaccine effectiveness, Geneva, Switzerland, September 20-21, 2016

- 2017 Convener, WHO meeting on immunization in older adults: Geneva, Switzerland, March 22-23, 2017
- 2022 Convener, WHO Meeting to Assess RSV Prevention Cost Effectiveness in Low- and Middle-Income Countries. April 6-7, 2022

Editorial boards

- 2016-2019 Member, PLOS ONE Editorial Board
- 2016-2017 Member, WHO Editorial Board for Immunization Position Papers

TEACHING SERVICE

Clinical attending

- 2010-2013 Attending physician, Medical Intensive Care Unit (MICU), University of Washington Medical Center, Seattle, WA. 1 fellow, 4 residents, 4 interns, 1-2 students 10 hours/day, 2 weeks/year.
- 2010-2013 Attending physician, Pulmonary and Critical Care Medicine, Seattle Cancer Care Alliance, Seattle, WA. 1 fellow 10 hours/day, 8 weeks/year.
- 2018-2020 Attending physician, University of Maryland School of Medicine Travel Clinic, Baltimore, MD. 1 resident, 4 weeks/year.

Small group teaching

- 2008 Small Group Instructor, Human Biology 541 Respiratory Physiology, University of Washington. 20-first year medical students-20 contact hours/year.
- 2017 Small Group instructor, Respiratory infections, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-2 contact hours/year.
- 2019 Small Group instructor, Viral Respiratory Infections, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-3 contact hours/year.
- 2019 Small Group instructor, Pneumonia, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-3 contact hours/year.
- 2020 Small Group instructor, Pneumonia, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-3 contact hours/year.
- 2020 Small Group instructor, Meningitis, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-3 contact hours/year.
- 2020 Small Group instructor, Viral Respiratory Infections, Host Defenses and Infectious Diseases, University of Maryland School of Medicine. 20-second year medical students-3 contact hours/year.

Lectures

- 2011, 2013 Lecturer, Global Health/Medicine 561 Tropical Medicine (“Tropical Pulmonary Diseases”), University of Washington. 40 first year medical students-2 contact hours/year.
- 2013 Lecturer, Epidemiology 532 Epidemiology of Infectious Diseases in Resource-limited Countries (“Pandemic Influenza Preparedness and Influenza Vaccine for

- a Global Population”), University of Washington. 40 graduate students-2 contact hours/year.
- 2013 Lecturer, Global Health 580 Global Health Doctoral Seminar: Biology, Systems and Measurement (“Air Pollution and Respiratory Infections”), University of Washington. 40 graduate students-2 contact hours/year.
- 2018 Lecturer, UMB Internal Medicine-Pediatrics Residency Program Noon Conference. Global influenza vaccine policy. University of Maryland, Baltimore. 20 residents-1 contact hour. February 8, 2019.
- 2018 Panelist, Careers in Global Health. Noon Conference, UMB School of Medicine. University of Maryland, Baltimore. 40 students-1 contact hour. February 13, 2019.
- 2019 Lecturer, Influenza in the ICU. Multi-departmental critical care fellows' lecture. Baltimore, Maryland. Anticipated February 7, 2019.
- 2019 Lecturer, Influenza Vaccines; PREV 627 Vaccinology graduate course– 3 hours, 15-20 students. April 17, 2019.
- 2019-present Lecturer, Contact transmission: Droplet-Influenza and other respiratory viruses; PREV 749 Infectious Disease Epidemiology graduate course– 3 hours, 15-20 students. October 9, 2019, September 30, 2020.
- 2020 Lecturer, Prioritization of prevention: public health vaccine program decision making. First international European Interdisciplinary Council on Ageing e-learning course on Antimicrobial resistance and the role of vaccines. April 4-6, 2020.
- 2021 Lecturer, Influenza Vaccines; PREV 627 Vaccinology graduate course– 3 hours, 15-20 students. April 7, 2021.
- 2022 Lecturer, Research skills in a public health setting. University of Ottawa School of Public Health graduate course (Applied Research Methods in Public Health)-1 hour, 20 students. January 12, 2022.
- 2023 Lecturer, Influenza Vaccines; PREV 627 Vaccinology graduate course– 1 hour, 15-20 students. April 5, 2023.

Graduate mentoring

- 2009 Patricia Pavlinac, PhD, MS,
PhD student, University of Washington
- 2011 Andrea Dotson,
MSPH student, Johns Hopkins University
- 2015 Heather Carson, JD
PhD student, University of Texas, Galveston
- 2019-2021 Stephen Yu, MD
Medical Student, University of Maryland School of Medicine
- 2019-2020 Rachel Laufer, MPH
MPH Graduate Student, University of Maryland Baltimore
- 2022-present Chidozie Obichere, MPH(candidate)
MPH Graduate Student, University of Maryland Baltimore
- 2023-present Kaitlin Mason, BSN, RN, MPH(candidate)
MPH Graduate Student, University of Maryland Baltimore
- 2024-present Ibrahim Ahmed El-Imam, MD, PhD(candidate)
PhD research rotation, University of Maryland Baltimore

Post-graduate mentoring

- 2012-2013 Kristina Rudd, MD
Internal Medicine Resident, University of Washington
- 2011-2020 Laura Hooper, MD, MPH
Internal Medicine Resident and Pulmonary & Critical Care Fellow, University of Washington
- 2014-2016 Deshayne Fell, PhD, MPH
PhD student, McGill University
- 2016-2020 Ranjani Somayaji, MD
Post-doctoral research fellow, University of Washington
- 2017-2019 Corinne Aileen Riddell, PhD
Post-doctoral research fellow, McGill University
- 2018-present Meagan Fitzpatrick, PhD
Assistant Professor, University of Maryland School of Medicine
Dr. Fitzpatrick received the NIH K01 grant for which I am the primary mentor. Project period 12/1/18- 11/30/23. Project title: Mathematical modeling to optimize rotavirus vaccination in sub-Saharan Africa.
- 2018-2020 Steven Brunwasser, PhD
Post-doctoral research fellow, Vanderbilt University
- 2018-2022 Amanda Driscoll, PhD
Post-doctoral research fellow, University of Maryland School of Medicine
- 2018-2022 Britney Snyder, PhD
Post-doctoral research fellow, Vanderbilt University
- 2019-2021 Sarah Williams, MD
Post-doctoral research fellow, University of Maryland School of Medicine
- 2019-2022 Jordan Braunfeld, MD
Internal Medicine Resident, University of Maryland School of Medicine
- 2019-2021 Meagan Deming, MD PhD
Infectious Diseases Fellow, University of Maryland School of Medicine
- 2019-2023 Elizabeth A.D. Hammershaimb, MD
Pediatric Infectious Diseases Fellow, University of Maryland School of Medicine
- 2023-present Andrew Gilmore, MD MPH
Post-doctoral research fellow, University of Maryland School of Medicine
- 2023-present Laura Hobbs, MD
Surgery Resident, University of Maryland School of Medicine
- 2024-present Allison LaRocco, MD
Post-doctoral research fellow, University of Maryland School of Medicine

GRANT SUPPORT

Current funding

- 09/2019-09/2026 Contract PI: 15%
Collaborative Influenza Vaccine Innovation Centers (CIVICs), Clinical Core. The proposed research will advance the development of novel influenza vaccines through the design, execution and conduct of phase I and II clinical trials and challenge studies in diverse populations, and the establishment of a specimen repository for human samples for current

and future scientific investigations.

HHS-NIH-NIAID-BAA2018, Contract No. 75N93019C00055

Subawards (role specified for each):

- Site PI 7%, NIH/NIAID 75N93019C00055, CIVICs SARS-CoV-2, Influenza, and Other Respiratory Pathogen Screening Protocol
- Site PI 11%, NIH/NIAID 75N93019C00055, Human H3N2 Influenza Challenge Study
- Protocol PI 10%, NIH/NIAID 75N93019C00055, Human Influenza H1N1 Challenge Study

06/2019-06/2024 Co-investigator 8%; PI: JD Campbell
A Phase 1, Randomized, Parallel-Group, Double-Blind Trial of AV7909 (Liquid) and Thermostable AV7909 (Lyophilized) in Healthy Adult Volunteers
NIH/NAID HHSN272201300022I

05/2022-01/2025 Protocol PI 5%; PI: Matthias Schnell
Advanced Development of a Multivalent Vaccine Candidate for Filovirus and Lassa Fever
Sponsor: National Institute of Allergy and Infectious Disease (NIAID), HHSN272201700082C

08/2022-07/2024 PI 20%
Addressing unanticipated events for Intranasal Influenza A H5 Vaccine Trial
NIH/NIAID U01AI148081

05/2023-04/2025 PI 19%
A Phase 1, Open-Label, Dose-Escalation Study to Evaluate the Safety and Immunogenicity of DCFHP-Alum, A Spike-Functionalized Ferritin Nanoparticle Vaccine Targeting COVID-19, Co-formulated with Aluminum Hydroxide Adjuvant, in Health Adults in the United States
Sponsor: Vaccine Company, Inc.

06/2022-05/2025 Co-investigator 1%; PI: Donald Milton, Subaward PI: Wilbur Chen
Evaluating Modes of Influenza Transmission (EMIT-2) using Innovative Technologies and Designs in Controlled Environments
NIH/NIAID U19AI162130 (Subaward No. 107455-Z0447204)

09/2023-09/2024 Co-investigator 2%; PI: Marcela Pasetti
To collect mucosal and blood samples through an existing donor protocol NIH/NIAID

05/2024-07/2024 Protocol PI: 2%
Vaccine and Treatment Evaluation Units (VTEU) Protocol Development and Implementation, Natural History Challenge Study for Influenza, Task Area B-C, 18-0010.B1C1.0120
NIAID Vaccine Treatment and Evaluation Unit, FY. 2018.B1C1.0120

Completed funding

2008-2010 Fellow; PI: Len Hudson
Institutional Grant Supporting Research Training in Pulmonary and Critical Care Medicine
NHLBI, Respiratory Research Training Grant T32 HL007287

2008-2011 Co-investigator; PI: JC Victor
Seasonal Influenza Vaccine Effectiveness in a Tropical Developing African

Country
Center for Disease Control - 1U01IP000174

2008-2010 Co-investigator; PI: KM Neuzil
Advancing seasonal and pandemic influenza vaccines project
Bill & Melinda Gates Foundation - 48805

2009 Co-investigator; PI: J Fleming
Pilot Assessment of Indoor Air Pollution Exposure in Niakhar, Senegal
PATH Health Innovations Project Institutional Grant

2009-2010 PI
Influenza-Associated Adverse Outcomes of Pregnancy and in Newborns
John B. Coombs UWHA Research Award

2009-2011 PI
Assessment of Indoor Air Pollution as a Risk Factor for Influenza in Senegalese Children
Thrasher Research Fund Early Career Award - NR-0099

2010 Co-investigator; PI: KM Neuzil
Landscape Analysis and Policy Pathway of Maternal Vaccination in Low Resource Settings
Bill & Melinda Gates Foundation - 17868

2010-2013 PI
Seasonal Influenza Vaccine Effectiveness in a Tropical Developing African Country
PATH Subagreement No. CDC.1421-03-08889-SUB under HHS/CDC (U01 IP000174-01)

2010-2014 PI
Development of Novel Tools to Estimate the Burden of Influenza-Associated Critical Illness
Robert Wood Johnson Harold Amos Medical Faculty Development Program - 67423

2011-2015 Co-investigator; PI: JC Victor
Seasonal Influenza Vaccine Effectiveness in a Tropical Developing African Country
Center for Disease Control-1U01IP000476

2011 Co-investigator; PI: TE West
2009 H1N1 Pandemic Influenza Management Literature Review
World Health Organization

2011-2014 Co-investigator; PI: SA Madhi
Influenza Vaccine Trial in Pregnant Women in South Africa
Subcontract of Bill & Melinda Gates Foundation (Grant OPP1002747)

2011-2013 PI
Live Attenuated Influenza Vaccine Efficacy in Bangladesh
PATH Subagreement GAT.387-05143-SUB under Bill & Melinda Gates Foundation (Grant 48805)

2012-2013 Co-investigator; PI: G John-Stewart
Impact of Indoor Air Pollution on the Health of HIV-1 Infected Children in Kenya
NIH 2 R01 HD023412-21

- 2013-2017 PI
WHO/PATH Maternal Influenza Immunization Project
Bill & Melinda Gates Foundation - OPP1084288
- 2013-2017 PI
Building Routine Influenza Immunization Programs in Low-Resource Settings Project
US Centers for Disease Control and Prevention - U01 CI000298
- 2015-2016 PI
Enhanced Collaboration between US NIH and WHO on Biomedical Research
National Institutes of Health - 5U01AI108543-01 Supplement
- 2017-2018 Co-investigator; PI: DB Fell
Health outcomes in children of mothers who received influenza vaccination during pregnancy
Canadian Institutes of Health Research - AO1-151541
- 2017-2020 Co-investigator; PI: KM Neuzil
A Phase II Study in Healthy Adults 19 Years and Older to Assess the Safety, Reactogenicity and Immunogenicity of a Sanofi Pasteur A/H7N9 Inactivated Influenza Vaccine Administered Intramuscularly with or without AS03 Adjuvant
NIH/NIAID Vaccine and Treatment Evaluation Units (VTEU) Task Area C1 - FY.2017.B8C12.0080 Influenza 17-0075
- 2017-2020 Co-investigator; PI: KM Neuzil
A Phase II Study in Healthy Adults 19 Years and Older to Assess the Safety, Reactogenicity and Immunogenicity of Sequential or Simultaneous Intramuscular Administration of an AS03-adjuvanted A/H7N9 Inactivated Influenza Vaccine with Seasonal Trivalent Vaccine
NIH/NIAID Vaccine and Treatment Evaluation Units (VTEU) Task Area C2 - FY.2017.B8C12.0080 Influenza 17-0077
- 2017-2020 Co-investigator; PI: KM Neuzil
A Phase II Study to Assess the Safety, Reactogenicity and Immunogenicity of a Single Dose of 2017 A/H7N9 Inactivated Influenza Vaccine (IIV) Administered Intramuscularly with or without AS03 Adjuvant in 2013 A/H7N9 IIV Primed or A/H7 IIV Naïve Subjects
NIH/NIAID Vaccine and Treatment Evaluation Units (VTEU) Task Area C7 - FY.2017.B8C12.0080 Influenza 17-0090
- 2018-2019 Co-PI
Methodological considerations for studies to measure the association between RSV LRTI and wheeze/asthma
World Health Organization - 2018/829929
- 2018-2019 PI
Informing randomized control trials of respiratory syncytial virus vaccination during pregnancy to prevent recurrent childhood wheezing: a sample size analysis
World Health Organization-2018/816365
- 2018-2019 PI
To advance the evidence base for influenza vaccine and adult immunization policies and practice
World Health Organization-2018/825465

- 2020 Site PI
A Multicenter, Adaptive, Randomized Blinded Controlled Trial of the Safety and Efficacy of Investigational Therapeutics for the Treatment of COVID-19 In Hospitalized Adults
NIH/NIAID 3UM1AI148689-01S1
- 2020-2021 Co-PI
Informing Public Health Expectations and Policy for Next Generation RSV Prevention Interventions in Mali: Modelling Studies to Estimate Health and Economic Impact
PATH
- 2021– 2021 PI
Organization of a meeting on respiratory syncytial virus (RSV) health economics and best-practices for conducting cost-effectiveness analyses
World Health Organization
- 2020-2021 Co-PI
Informing Public Health Expectations and Policy for Next Generation RSV Prevention Interventions in Mali: Modelling Studies to Estimate Health and Economic Impact
PATH
- 2018-2021 Co-investigator; PD: K Kotloff
NIH/NIAID HHSN272201300022I
Vaccine and Treatment Evaluation Unit (VTEU)
NIAID contract is for the evaluation of control measures against diseases other than AIDS. The goal is to provide the necessary resources to conduct high-public health priority phase I-IV clinical vaccine trials.
- Subawards (Co-Investigator on each):
 - Task Area B-C 18-0011, Phase I Study of Adjuvanted Seasonal Influenza Vaccine
 - Task Area B-C 18-0010, Natural History Challenge Study for Influenza
 - Task Order 16-0107, Phase I AV7909 Trial
- 2022-2022 Co-investigator; PI: M Fitzpatrick
RAPID: Identifying the drivers of optimal COVID-19 vaccine allocation
National Science Foundation, 2138192
- 2020-2023 PI
Randomized Clinical Trial of a Novel Mucosal Recombinant H5 Influenza Vaccine with Nanoemulsion Adjuvant Followed by Parenteral Boost of Licensed Inactivated Influenza a H5N1 Vaccine
NIH/NIAID U01AI148081

PUBLICATIONS

Peer reviewed journal articles

1. Centers for Disease Control and Prevention (reported by Wang S, Dhara R, Brammer L, Postema A, Katz M, Uyeki T, Bresee J, Balish A, Wallis T, Hall H, Klimov A, Cox N, **Ortiz JR***). Update: influenza activity-United States, October 2-December 3, 2005. MMWR Morb Mortal Wkly Rep. 2005 Dec 16;54(49):1256-9. PubMed PMID: 16357822. *Primary Author.
2. Centers for Disease Control and Prevention (reported by Bright RA, Shay D, Bresee J, Klimov A, Cox N, **Ortiz JR***). High levels of adamantane resistance among influenza A

- (H3N2) viruses and interim guidelines for use of antiviral agents-United States, 2005-06 influenza season. *MMWR Morb Mortal Wkly Rep.* 2006 Jan 20;55(2):44-6. PubMed PMID: 16424859. *Primary Author.
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14. World Health Organization (**Ortiz JR** WHO lead). Evaluation of influenza vaccine effectiveness: a guide to the design and interpretation of observational studies. Geneva: World Health Organization; 2017. License: CC BY-NC-SA 3.0 IGO. Available at: <http://apps.who.int/iris/bitstream/10665/255203/1/9789241512121-eng.pdf>.
15. World Health Organization (**Ortiz JR** WHO lead). Preferred Product Characteristics for Next Generation Influenza Vaccines. Geneva: World Health Organization; 2017. License: CC BY-NC-SA 3.0 IGO. Available at: <http://apps.who.int/iris/bitstream/10665/258767/1/9789241512466-eng.pdf>
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17. World Health Organization (**Ortiz JR** contributor). WHO public health research agenda for influenza: 2017 update. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO. Available at: <http://apps.who.int/iris/bitstream/10665/259889/1/9789241513463-eng.pdf?ua=1>
18. Advancing Maternal Immunization (AMI) (**Ortiz JR** Member AMI Technical Expert Panel). Advancing RSV Maternal Immunization: A Gap Analysis Report. 2018. Available at: https://path.azureedge.net/media/documents/Advancing_RSV_Maternal_Immunization__A_Gap_Analysis_Report.pdf
19. PATH (**Ortiz JR** Coauthor). Maternal Influenza Immunization: Lessons from vaccine introduction and use in El Salvador. Seattle: PATH; 2016. Available at: https://path.azureedge.net/media/documents/CVIA_El_Sal_Mat_Flu_Imm_2018_rpt.pdf
20. PATH (**Ortiz JR** Coauthor). Maternal Influenza Immunization: Perceptions of decision-makers, health care providers, and the community in Malawi. Seattle: PATH; 2016. Available at: https://path.azureedge.net/media/documents/CVIA_Malawi_Maternal_Flu_Imm_Perceptions_publication.pdf
21. Panel on Immunization in HIV-Infected Adults and Adolescents (**Ortiz JR**, Panel Member). Guidelines for the prevention and treatment of opportunistic infections in HIV-infected adults and adolescents: recommendations from the Centers for Disease Control and Prevention, the National Institutes of Health, and the HIV Medicine Association of the Infectious Diseases Society of America. Available at: <https://aidsinfo.nih.gov/guidelines>
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23. **Ortiz JR** and Deming M. The Rapid Clinical Development of SARS-CoV-2 Vaccines. ATS Research News Quarterly. March 6, 2021. Available at:

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24. World Health Organization (**Ortiz JR** Member of Technical Writing Group). Evaluation of COVID-19 vaccine effectiveness. 2021. Available at: <https://apps.who.int/iris/rest/bitstreams/1337417/retrieve>
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 27. Laufer RS, Baral R, Buchwald AG, Campbell JD, Coulibaly F, Diallo F, Doumbia M, Driscoll AJ, Galvani AP, Haidara FC, Keita AM, Neuzil KM, Sow S, Pecenka C, **Ortiz JR**#, Fitzpatrick MC#. Optimizing next-generation RSV prevention in Mali: a cost-effectiveness analysis of pediatric vaccination, maternal vaccination, and extended half-life monoclonal antibody immunoprophylaxis. #Co-senior authorship. medRxiv 2022.05.19.22275309; doi: <https://doi.org/10.1101/2022.05.19.22275309>
 28. **Ortiz JR**, Bernstein DI, Hoft DF, Woods CW, McClain MT, Frey SE, Brady RC, Bryant C, Wegel A, Frenck RW, Walter EB, Abate G, Williams SR, Atmar RL, Keitel WL, Roupael N, Memoli MJ, Makhene MK, Roberts PC, Neuzil KM. A Multi-Center, Controlled Human Infection Study of Influenza A (H1N1)pdm09 in Healthy Adults. medRxiv 2022.09.27.22280383; doi: <https://doi.org/10.1101/2022.09.27.22280383>
 29. Gilmore A, **Ortiz J**. Pneumococcal Vaccines. Am J Respir Crit Care Med. 2024 May 15;209(10):P5-P7. doi: 10.1164/rccm.209i10p5. PMID: 38747567.

Published multimedia and datasets

1. Council of State and Territorial Epidemiologists (**Ortiz JR** member of writing committee). Rapid Response Training: The Role of Public Health in a Multi-Agency Response to Avian Influenza in the United States. 2007. Available at: www.cste.org/influenza/avian.asp.
2. World Health Organization (**Ortiz JR** project lead). Critical Care Training Short Course. Geneva: World Health Organization; 2013. Available at: http://influenzatraining.org/static/toolkit/WHO_GIPCCare_CDROM_V3Master_June_2013/index.html.
3. **Ortiz JR**, 2018, "Traditional Cooking Practices and Preferences for Stove Features Among Women in Rural Senegal: Informing Improved Cookstove Design and Interventions", <https://doi.org/10.7910/DVN/FIWYJF>, Harvard Dataverse, V1.

INVITED SPEECHES

Local

1. HIV and migrant farm workers. Harvard AIDS Institute. Boston, MA. USA, October 21, 2001.
2. An update on avian influenza. Rollins School of Public Health, Emory University. Atlanta, GA. USA, November 2, 2005.
3. Human, avian, and pandemic influenza. Rollins School of Public Health, Emory University. Atlanta, GA. USA, April 6, 2006.

4. Pediatric influenza. Morehouse School of Medicine Pediatric Grand Rounds. Atlanta, GA. USA, November 16, 2006.
5. Risk of transmission of avian influenza A (H5N1). Vaseaport Respiratory Conference. Whistler, British Columbia, Canada, February 25, 2008.
6. Novel influenza surveillance: can google obviate the need for public health infrastructure. Vaseaport Respiratory Conference. Crystal Mountain, WA. USA, March 1, 2010.
7. Maternal Influenza Immunization: Translating Policy to Practice. Johns Hopkins School of Public Health Seminar. Baltimore, USA, March 28, 2017.
8. Severe Influenza Epidemiology and Global Vaccine Policy Making. Pulmonary Grand Rounds Conference. University of Maryland School of Medicine. Baltimore, Maryland. October 30, 2017.
9. Immunization across the life-span. University of Maryland School of Medicine, Department of Medicine Grand Rounds. Baltimore, Maryland, USA. 23 August 23, 2018.
10. Informing randomized clinical trials of RSV vaccination during pregnancy to prevent recurrent childhood wheezing. 2018 Frontiers in Vaccinology. University of Maryland School of Medicine. Baltimore, Maryland. November 26, 2018.
11. A history of WHO influenza vaccine policy making: a case study of evidence-based public health practice. University of Maryland School of Medicine. Center for Vaccine Development and Global Health Seminar. Baltimore, Maryland. March 11, 2019.
12. Informing randomized clinical trials of RSV vaccination during pregnancy to prevent recurrent childhood wheezing. 2018 Frontiers in Vaccinology. University of Maryland School of Medicine. Baltimore, Maryland. November 26, 2018.
13. Preparing for COVID-19 vaccine deployment in developing countries. Pulmonary Grand Rounds. University of Maryland Medical Center. October 15, 2020.
14. Controlled Human Infection Models of Influenza Virus Infection. University of Maryland School of Medicine, Department of Medicine Grand Rounds. Baltimore, Maryland, USA. February 9, 2022.
15. Influenza in the ICU. Pulmonary Grand Rounds. University of Maryland Medical Center. February 15, 2022.
16. The future of global influenza prevention and control. Public Health Seminar. University of Maryland College Park. January 17, 2024.

National

17. An update on avian influenza. The annual meeting of the American College of Osteopathic Internists. Orlando, FL. USA, October 23, 2005.
18. Case management of suspect influenza A (H5N1) in humans. Council of State and Territorial Epidemiologists Avian Influenza Rapid Response Training. Denver, CO. USA, February 6, 2007.
19. Development of novel tools to estimate the burden of influenza-associated critical illness. Robert Wood Johnson Harold Amos Medical Faculty Development Program Annual Meeting. New Orleans, LA. USA, October 5, 2011.
20. Valedictory speech. Harold Amos Medical Faculty Development Program. Atlanta, GA. USA, October 4, 2013.
21. Influenza vaccine for pregnant women: the challenges of translating research to practice. Visiting Scientist Lecture. Center for Vaccine Development. University of Maryland. USA, August 30, 2016.

22. Maternal influenza immunization: A policy approach. 2017 Frontiers in Vaccinology. University of Maryland School of Medicine. Baltimore, Maryland. December 13, 2017
23. Global Influenza Vaccine Policy: the Evolution of Evidence-Based Public Health Practice. International Vaccine Access Center, Johns Hopkins School of Public Health. Baltimore, Maryland. December 14, 2017.
24. LAIV Effectiveness: The Global View. Annual Conference on Vaccinology Research. Bethesda, USA. 25 April 2018.
25. Adult immunization in low-resource settings: preparing for COVID-19 vaccine deployment. Edith McGill Lectureship at Pulmonary Grand Rounds. Vanderbilt University Medical Center. September 18, 2020.

International

26. Global influenza surveillance. Pan-American Health Organization, Caribbean Epidemiology Center Influenza Surveillance Meeting. Washington, DC. USA, November 29, 2006.
27. Global overview of avian influenza. Pan American Health Organization, CDC Avian Influenza Surveillance and Grantees Workshop. Washington, DC. USA, February 1, 2007.
28. Pan American Health Organization, CDC generic influenza surveillance protocol. Pan American Health Organization, CDC Avian Influenza Surveillance and Grantees Workshop. Washington, DC. USA, February 1, 2007.
29. Pan American Health Organization, CDC Generic Influenza Surveillance protocol. Pan American Health Organization Southern Cone regional influenza surveillance workshop. Mar del Plata, Argentina, February 27, 2007.
30. Enhanced national influenza surveillance. Pan American Health Organization Southern Cone regional influenza surveillance workshop. Mar del Plata, Argentina, February 28, 2007.
31. Pan American Health Organization, CDC generic influenza surveillance protocol. Pan American Health Organization Andean regional influenza surveillance workshop. Lima, Peru, May 21, 2007.
32. Enhanced national influenza surveillance. Pan American Health Organization Andean regional influenza surveillance Workshop. Lima, Peru, May 22, 2007.
33. Objectives of influenza surveillance. WHO Global Influenza Surveillance Guideline Revision Workshop. Geneva, Switzerland, December 13, 2010.
34. Influenza immunization in pregnant women. South African Maternal Influenza Vaccination Trial Meeting of the Data and Safety Monitoring Board and Investigators. Johannesburg, South Africa, February 21, 2011.
35. Influenza surveillance strategy. WHO Consultation on Global Tools and Manual for Influenza Surveillance. Geneva, Switzerland, March 8, 2011.
36. Influenza burden of disease in pregnancy. WHO Workshop on Influenza Burden of Disease and Economic Analysis. Bali, Indonesia, June 5, 2012.
37. Influenza vaccine prioritization. Afriflu Influenza Symposium. Capetown, South Africa, November 8, 2012.
38. Maternal immunization. Fondation Mérieux international expert meeting on influenza vaccines as a tool to estimate the burden of severe influenza. Annecy, France, November 30, 2012.

39. Priority risk factor research for influenza burden of disease. WHO Informal Consultation on Influenza Disease Burden, Geneva, Switzerland, December 6, 2012.
40. LAIV clinical trials. PATH Meeting on LAIV Vaccine Trials in Infants and Young Children. Washington, DC. USA, July 9, 2013.
41. Influenza vaccine effectiveness. Meeting of the Partnership for Influenza Vaccine Introduction. Decatur, Georgia. USA, December 3, 2013.
42. Maternal influenza immunization. Influenza Vaccine Supply International Task Force Meeting of the International Federation of Pharmaceutical Manufacturers & Associations. Geneva, Switzerland, February 19, 2014.
43. Influenza vaccine effectiveness and WHO policy development. Meeting to develop guidance for field evaluation of influenza vaccine effectiveness. Geneva, Switzerland, February 22, 2014.
44. WHO Initiative for Vaccine Research. WHO Meeting with International Partners on Prospects for Influenza Vaccine Technology Transfer to Developing Country Vaccine Manufacturers. Dubai. United Arab Emirates, March 25, 2014.
45. Influenza vaccine safety. Training Workshop on Adverse Events Following Immunization (AEFI) Causality Assessment and Communication Capacity Building for Immunization. Manila, Philippines, May 12, 2014.
46. Influenza vaccine implementation research. Ad-Hoc IVIR-AC Working Group Meeting. Geneva, Switzerland, June 17, 2014.
47. Maternal immunization. WHO Consultation on influenza vaccines for pregnant and lactating women: Clinical data requirements for product labelling. Geneva, Switzerland, July 15, 2014.
48. Introductions, meeting procedures, and rationale. WHO meeting to develop Brighton collaboration definitions for events of special interest for monitoring and evaluation of immunization in pregnancy. Geneva, Switzerland, July 24, 2014.
49. Influenza vaccines. Influenza Vaccine Supply International Task Force Meeting of the International Federation of Pharmaceutical Manufacturers & Associations. Geneva, Switzerland, September 24, 2014.
50. Maternal influenza immunization. Meeting of the Global Advisory Group on Vaccine Safety Pregnancy Sub-Group. Geneva, Switzerland, September 29, 2014.
51. Influenza vaccines. Influenza Vaccine Supply International Task Force Meeting of the International Federation of Pharmaceutical Manufacturers & Associations. Geneva, Switzerland, February 25, 2015.
52. Maternal immunization. Technical Consultation on Maternal Influenza Immunization Evidence and Implementation. Geneva, Switzerland, March 25, 2015.
53. Implementation research gaps for furthering maternal immunization. Meeting of the Strategic Advisory Group of Experts on Immunization (SAGE). Geneva, Switzerland, April 16, 2015.
54. Endpoints for safety monitoring during pregnancy and early childhood. Meeting of the Global Advisory Group on Vaccine Safety Pregnancy Sub-Group. Geneva, Switzerland, May 18, 2015.
55. Influenza. WHO Product Development for Vaccines Advisory Committee (PDVAC) meeting. Geneva, Switzerland, September 09, 2015.
56. WHO agenda on maternal immunization. WHO working group meeting on the development of guidelines on labelling influenza vaccines intended to be used in pregnant women. Geneva, Switzerland, September 24, 2015.

57. The effect of maternal influenza and influenza vaccination on the developing foetus: the need for evidence. Technical Consultation on the Effect of Maternal Influenza and Influenza Vaccination on the Developing Foetus. Montreal, Canada, September 30, 2015.
58. H1N1 vaccine and narcolepsy. Meeting of the Global Advisory Committee on Vaccine Safety. Geneva, Switzerland, December 3, 2015.
59. Influenza vaccines. Influenza Vaccine Supply International Task Force Meeting of the International Federation of Pharmaceutical Manufacturers & Associations. Geneva, Switzerland, February 24, 2016.
60. WHO agenda on maternal immunization. WHO informal consultation on labelling information of influenza vaccines intended to be used for pregnant women. Geneva, Switzerland, April 4, 2016.
61. WHO agenda on maternal immunization. WHO Consultation on RSV Vaccine Development. Geneva, Switzerland, April 25, 2016.
62. Influenza. WHO Product Development for Vaccines Advisory Committee (PDVAC) meeting. Geneva, Switzerland, June 9, 2016.
63. WHO efforts to promote next-generation influenza vaccines. Eighth WHO meeting on development of influenza vaccines that induce broadly protective and long-lasting immune responses. Chicago, USA, August 23, 2016.
64. Influenza vaccines. Influenza Vaccine Supply International Task Force Meeting of the International Federation of Pharmaceutical Manufacturers & Associations. Geneva, Switzerland, September 28, 2016.
65. Emerging issues with influenza vaccine effectiveness. ADVAC Alumni meeting. Geneva, Switzerland, October 18, 2016.
66. Vaccination Policies and Vaccine Programmatic Considerations in Risk Groups. Third WHO Consultation on Global Action Plan for Influenza Vaccines (GAP III). Geneva, Switzerland, November 15, 2016.
67. Towards the Future: Preferred Product Characteristics' Needs and Gaps. Third WHO Consultation on Global Action Plan for Influenza Vaccines (GAP III). Geneva, Switzerland, November 16, 2016.
68. Knowledge gaps related to LAIV, repeated influenza vaccination, and vaccinating pregnant women. Consultation for Updating WHO Public Health Research Agenda for Influenza: Meeting of the Technical Working Groups. Geneva, Switzerland, December 6, 2016.
69. Influenza Vaccines for Pregnant Women: the Challenges of Translating Policy to Practice. Centers for Disease Control and Prevention. Atlanta, USA, January 11, 2017.
70. WHO Immunization Policies for the Elderly. WHO Meeting on Immunization in the Elderly. Geneva, Switzerland, March 22, 2017.
71. Report of the WHO Taskforce to Evaluate Influenza Data to Inform Vaccine Impact and Economic Modelling. Gavi, the Vaccine Alliance. Geneva, Switzerland, May 05, 2017.
72. Influenza vaccine development: WHO recommendations for vaccine developers. Universal Flu Vaccine workshop, European Commission, Brussels, Belgium. June 14, 2017.
73. Current controversies in maternal influenza immunization research and their implications for global health policy-making. Symposium on methodological challenges of studying perinatal outcomes following vaccination in pregnancy: A case study on influenza

- Vaccine. Society for Epidemiologic Research Annual Meeting. Seattle, Washington. June 21, 2017.
74. Sample size estimation for RSV vaccine prevention of asthma/recurrent wheeze. WHO RSV vaccine technical advisory group meeting. Málaga, Spain. November 29, 2017.
 75. Immunization across the life-span-What will it take? A global perspective. World Vaccine Congress, Washington DC, 2 April 2018.
 76. Influenza Vaccination: How Collaboration and Advocacy Can Increase Uptake. International Federation of Aging Meeting on Vaccination and At-Risk Population of Adults with Heart and Lung Conditions. Stockholm, Sweden. 12 October 2018.
 77. Immunization across the life-span. European Centres for Disease Control Scientific Seminar Series. Stockholm, Sweden. 19 October 2018.
 78. Meeting on Methodological Considerations and Measurement of Respiratory Sequelae Associated with RSV Infection. World Health Organization. Geneva, Switzerland. February 12, 2019.
 79. Prioritization of Prevention-Global Priorities. Immunisation for Life Summit. Washington DC. June 5-6, 2019.
 80. Benefits of influenza vaccination to older adults from a global perspective. New York, NY. End Immunisation Inequality toward Healthy Ageing Event at the United Nations. October 11, 2019.
 81. A life-course and inclusive approach to vaccination strategies. International Pharmaceutical Federation (FIP) Webinar: The value of vaccines for society and special populations. September 14, 2020.
 82. Immunisation for All Ages Webinar Series: Driving Policy to Action. October 8, 2020
 83. Adult immunization in low-resource settings: preparing for COVID-19 vaccine deployment. Edith McGill Lectureship at Pulmonary Grand Rounds. Vanderbilt University Medical Center. September 18, 2020.
 84. Fighting COVID-19: Clinical Trials, Vaccines, and Global Response. American Thoracic Society International Conference. May 14, 2021.
 85. COVID Vaccine and the Respiratory Patient: How Does It Work, What to Expect? American Thoracic Society Meet-the-Experts Roundtable. May 15, 2021.
 86. The Importance of Vaccines and Immunization to Respiratory Health. American Thoracic Society International Conference. May 22, 2023.
 87. Practical Aspects of Vaccination. American Thoracic Society Public Advisory Roundtable (PAR). November 8, 2023.
 88. Panelist, Defining Success Using CHIVIM in Vaccine Development. National Institute of Allergy and Infectious Diseases (NIAID) Controlled Human Influenza Virus Infection Model Studies: Current Status and Future Directions for Innovation. November 13-14, 2023.
 89. Preventing RSV: Providing Older Patients With The Information They Need. American Thoracic Society International Conference. May 20, 2024.
 90. Toward a Universal Flu Vaccine. American Thoracic Society International Conference. May 20, 2024.
 91. Toward a Universal Flu Vaccine. American Thoracic Society International Conference. May 20, 2024.
 92. A Phase 1 Randomized, Placebo Controlled, Safety, Tolerability, and Immunogenicity Study of Two Doses of Intranasal Recombinant H5 Influenza Vaccine with and without

Nanoemulsion Adjuvant Followed by One Boosting Dose of Intramuscular Influenza A (H5N1) Vaccine. NIAID CIVICs Webinar Series. June 6, 2024