

# **Daniel M. Pastula, MD, MHS**

Neurologist, Medical Epidemiologist, Public Health Expert, Policy Maker, and Teacher

State Physician Licenses: CO (2013–present), WY (2017–present), NE (2022–present), CA (2010–2020)

Board Certification: Neurology (2013–present) by the American Board of Psychiatry and Neurology (ABPN)

Updated: July 2, 2024

## **Summary Statement**

I am a board-certified neurologist, CDC-trained medical epidemiologist (EIS), veteran of the U.S. Public Health Service (USPHS), policy maker, and teacher. I have cross-disciplinary interests in neurohospitalist medicine; neuro-infectious, emerging infectious, and vector-borne diseases; public health and epidemiology; outbreak investigation and control; emergency preparedness and response; biodefense and biosecurity; environmental health and toxicology; meteorology and climatology; public policy; communication; and education. I also have extensive leadership, consulting, medicolegal, advocacy, government, and media experience.

## **Positions and Appointments**

Professor of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado and Colorado School of Public Health (July 2024–present)

Neuro-Infectious Diseases and Global Neurology Section Chief, University of Colorado (January 2022–present)

Senior Investigator, Center for Global Health, Colorado School of Public Health (April 2024–present)

Global Neurology Education Director, University of Colorado (January 2019–present)

Vice President, State Board of Health, State of Colorado (January 2023–present)

State Board of Health Member (At-Large, Statewide), State of Colorado (September 2017–present)

Governor's Expert Emergency Epidemic Response Committee (GEEERC) Member, State of Colorado (September 2017–present)

Neuro-Infectious Diseases and Autoimmune Neurology Fellowship Director, University of Colorado (January 2016–present)

Affiliate Neurologist and Medical Epidemiologist, Centers for Disease Control and Prevention (CDC) (July 2015–present)

U.S. Polio Eradication National Certification Committee Member, The Task Force for Global Health (October 2023–present)

Skywarn Storm Spotter, National Weather Service (July 2008–present)

Consulting Outbreak Medical Epidemiologist and Policy Advisor, Colorado Department of Public Health and Environment (CDPHE) (March 2020–July 2023)

COVID-19 Department Leader, Department of Neurology, University of Colorado and UCHealth (March 2020–December 2022)

Colorado Winter Outdoor Dining Grant Committee Member, Colorado Restaurant Association (November 2020–December 2021)

Associate Professor of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado and Colorado School of Public Health (July 2019–June 2024)

Staff Neurohospitalist, Denver VA Medical Center, U.S. Dept. of Veterans Affairs (January 2018–June 2019)

Assistant Professor of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado

and Colorado School of Public Health (July 2016–June 2019)  
Associate Neurology Clerkship Director, University of Colorado (July 2015–June 2018)  
Assistant Professor of Neurology, University of Colorado (July 2015–June 2016)  
Assistant Clinical Professor of Neurology, University of Colorado (June 2014–June 2015)  
Volunteer Neurologist, Denver VA Medical Center, U.S. Dept. of Veterans Affairs (June 2014–June 2015)  
Epidemic Intelligence Service (EIS) Officer, Centers for Disease Control and Prevention (CDC)  
(June 2013–June 2015)  
Lieutenant Commander (O-4)/Medical Officer, U.S. Public Health Service Commissioned Corps  
(June 2013–June 2015)  
Neurology Resident and Internal Medicine Intern, University of California San Francisco (UCSF)  
(June 2009–June 2013)  
Community Advocate and Organizer, North Carolina Alliance for Health (January 2007–May 2009)  
High School Public Health Teacher, HEY-Durham Program and Durham Public Schools  
(August 2005–May 2007)  
High School Science Teacher, Cardinal Spellman High School (September 2003–June 2004)  
High School Science Teacher (Summer), Saint Joseph High School (June–August 2003)  
Emergency Medical Technician, Scotch Plains Rescue Squad (June 1999–August 2004)  
Radio Disc Jockey, WBRU 95.5 FM (September 1999–December 2000)

## **Education**

**Master of Business Administration (MBA)**, Sustainable Business, University of Colorado Denver, Denver, CO (January 2024–expected May 2027)

- Currently in a professional MBA program with focus on leadership, management, and sustainability
- Completed courses in business data analytics, team leadership,

**Epidemic Intelligence Service (EIS)**; Centers for Disease Control and Prevention (CDC); Atlanta, GA, and Fort Collins, CO (June 2013–June 2015)

- “EIS officers serve on the front lines of public health, protecting Americans and the global community, while training under the guidance of seasoned mentors. When disease outbreaks or other public health threats emerge, EIS officers investigate, identify the cause, rapidly implement control measures, and collect evidence to recommend preventive actions.” -CDC EIS website
- Served as an EIS officer and U.S. Public Health Service Commissioned Corps lieutenant commander/medical officer for the CDC Arboviral Diseases Branch (ADB) within the Division of Vector-Borne Diseases (DVBD) in Fort Collins, Colorado
- Please see other sections for additional details

**Neurology Residency and Internal Medicine Internship**; University of California San Francisco (UCSF); San Francisco, CA (June 2009–June 2013)

- Chief resident in charge of educational conferences and technology (2012–2013)
- Evaluated and treated patients with various acute and chronic neurologic conditions in inpatient, outpatient, and emergency room settings
- Worked in academic (UCSF), public (San Francisco General Hospital), and Veterans Affairs (San Francisco VA) medical centers

- Supervised and taught medical students, non-neurology residents, and junior neurology residents
- Completed an internal medicine internship during first year of neurology residency which included rotations in internal medicine, cardiology, and critical care (2009–2010)
- Successfully passed the American Board of Psychiatry and Neurology (ABPN) neurology board exam with a 93% score
- Please see other sections for additional details

**Doctor of Medicine (MD); Duke University; Durham, NC (August 2004–May 2009)**

- Trained in basic medical science, clinical medicine, and environmental medicine/toxicology
- Earned honors grades in biochemistry, genetics, cell biology, anatomy/physiology, neurobiology, pathology, microbiology, and pharmacology classes
- Earned clinical honors or high pass grades in neurology, neuromuscular medicine, psychiatry, infectious diseases, occupational/environmental medicine/toxicology, family medicine, pediatrics, obstetrics/gynecology, radiology, general surgery, emergency medicine, and internal medicine rotations
- Successfully passed U.S. Medical Licensing Examination (USMLE) step 1 (256/99), step 2CK (258/99), step 2CS (pass), and step 3 (248/99) exams
- Completed a 6-week CDC epidemiology elective in the Division of Health Care Quality Promotion (DHQP) and assisted in two nosocomial infectious disease outbreak investigations
- Please see other sections for additional details

**Master of Health Sciences (MHS), Clinical Research; Duke University; Durham, NC (August 2006–May 2008)**

- Trained in epidemiology, biostatistics, research methods, and evidenced-based medicine
- Designed and critically reviewed epidemiologic, observational, and experimental studies
- Earned honors in biostatistics, statistical modeling, and research methods classes
- Earned research honors for an epidemiologic study examining survival in military veterans with ALS
- Please see other sections for additional details

**Bachelor of Science (ScB), Biophysics; Brown University; Providence, RI (September 1999–May 2003)**

- Studied biology, physics, chemistry, math, meteorology, history, political science, philosophy, literature, business, and architecture
- Earned a GPA of 4.0 and awarded a biophysics degree magna cum laude with departmental honors
- Earned research honors for a project examining occupational radiation exposure during fluoroscopy
- Elected to the Sigma Xi Scientific Research Honor Society
- Please see other sections for additional details

**Clinical Experience**

**Neuro-Infectious Diseases and Global Neurology Section Chief; Department of Neurology, University of Colorado; Aurora, CO (January 2022–present)**

- Served as founding administrative chief of the new Neuro-Infectious Diseases and Global Neurology Section within the Department of Neurology
- Created, organized, and led the University of Colorado Neuro-Infectious Diseases Group, a multidisciplinary group with clinical, research, and educational interests in neuro-infectious and

emerging infectious diseases

- Created, organized, and led the University of Colorado Global Neurology Group, a multidisciplinary group interested in improving neurologic care, education, and research across the globe
- Served as the Neuro-Infectious Diseases and Autoimmune Neurology Fellowship Director (additional details below)
- Served as the Global Neurology Education Director (additional details below)
- Supervised the neuro-infectious diseases/autoimmune neurology fellows in the hospital and neuro-infectious diseases fellow clinic
- Researched, developed, and implemented a global neurology resident rotation in Suva, Fiji, in collaboration with the Fiji Ministry of Health and Colonial War Memorial Hospital
- Developed, implemented, and managed a monthly virtual global neurology case conference with colleagues at Colonial War Memorial Hospital in Suva, Fiji
- Developed websites for the [Neuro-Infectious Diseases Group](#) and [Global Neurology Group](#)
- Developed, implemented, and managed the American Academy of Neurology monthly neuro-infectious disease clinical case conference for colleagues throughout North America
- Served as the American Academy of Neurology emerging neuro-infectious diseases course director
- Acquired broad international safety skills through multiple CDC and Department of State trainings (e.g., High Threat Security Overseas Seminar, Counter Threat Awareness Training, Working in an Embassy, Preparing for Work Overseas, multiple Foreign Travel Safety Briefings)
- Extensive international travel experience including Andorra, Austria, Bahamas, Belgium, Bermuda (UK), Bulgaria, Canada, Croatia, Czech Republic, Fiji, France, Germany, Guam (US), Hungary, Italy, Mexico, Micronesia, Monaco, Puerto Rico (US), Romania, Serbia, Slovakia, Spain, United Kingdom, US Virgin Islands (US)
- Named senior investigator for the Center of Global Health within the Colorado School of Public Health to help assist with development of a core global health curriculum including travel safety
- Served on the Global Health GME Core Curriculum Subcommittee for the Center for Global Health within the Colorado School of Public Health
- Served on the Department of Neurology Clinical Affairs Committee and Section Chief Committee
- Please see other sections for additional details

**Neurohospitalist and Neuro-Infectious Diseases Attending Physician;** University of Colorado Hospital and Denver VA Medical Center; Aurora, CO (July 2015–present)

- Independently evaluated and treated patients with various neurologic conditions and diseases
- Served as an attending neurohospitalist on the general neurology and stroke inpatient services at the University of Colorado Hospital (2015–present) and Denver VA Medical Center (2018–2019)
- Served as a telestroke attending covering hospitals throughout Colorado and Wyoming as well as on the Mobile Stroke Treatment Unit (MSTU) in Aurora and Colorado Springs
- Frequently served above my official clinical FTE level given faculty shortages
- Consulted on various neuro-infectious disease cases in both inpatient and outpatient settings
- Consulted on various neurologic and neuro-infectious disease cases from across the multistate region
- Supervised the outpatient neurology resident clinic and served as an outpatient consultative neurologist
- Participated in neuro-infectious disease fellow case rounds, grand rounds, and professors' rounds

- Created and developed a weekly neuro-infectious disease clinical case conference at University of Colorado and a monthly clinical case conference with colleagues from across North America
- Trained MSTU and community hospital staff during telestroke simulations
- Revised and implemented the emergency department acute headache management pathway
- Triage consults for consultative neurology and general neurology clinics at UCH and Denver VAMC
- Served as a peer reviewer for clinical faculty re-credentialing at UCH and Denver VAMC
- Named as one of Denver 5280 Magazine's "Top Doctors" in neurology for 2018
- Elected Fellow of the American Academy of Neurology (FAAN) in part because of my clinical neurology and administrative accomplishments
- Joined as full member of Neurohospitalist Society and Infectious Diseases Society of America (IDSA)
- Participated in diversity, equity, and inclusion (DEI) and bias trainings and workshops
- Served on the Department of Neurology DEI task force as an LGBTQ and veteran representative
- Medicolegal consultant for acute/emergency/inpatient neurologic disease cases and neuro-infectious disease cases for both plaintiffs and defendants; reviewed records and images, authored expert opinion reports, testified at depositions, traveled as necessary
- Obtained a secondary clinical appointment in the Department of Medicine (Infectious Diseases) in 2016
- Please see other sections for additional details

**Affiliate Neurologist and Medical Epidemiologist;** Centers for Disease Control and Prevention (CDC); Atlanta, GA and Fort Collins, CO (July 2015–present)

- Consulted on various arboviral and neurologic disease clinical cases from across the U.S. and the world
- Consulted on yellow fever and Japanese encephalitis virus clinical vaccine questions
- Reviewed and interpreted arboviral testing results for patients within the U.S. and around the world
- Reviewed and consulted on acute flaccid myelitis (AFM)/poliomyelitis cases from across the U.S.
- Provided emergent clinical and epidemiologic consultation to CDC and FDA regarding atypical cerebral venous sinus thrombosis cases after the J&J/Janssen COVID-19 vaccine
- Consulted on mpox virus neurologic disease cases throughout the U.S. during the 2022 outbreak
- Dedicated ~20–50% effort (depending on specific time frame) based on several CDC divisions' needs
- Please see other sections for additional details

**COVID-19 Department Leader;** Department of Neurology, University of Colorado; Aurora, CO (March 2020–December 2022)

- Served as the COVID-19 department leader for the UCHealth incident command system
- Led COVID-19 outbreak preparedness and emergency response efforts for the department
- Provided COVID-19 clinical, epidemiologic, and logistical updates for both the department and incident command system
- Taught faculty, trainees, and students COVID-19 transmission prevention strategies and PPE use

**Epidemic Intelligence Service (EIS) Officer;** Centers for Disease Control and Prevention (CDC); Atlanta, GA and Fort Collins, CO (June 2013–June 2015)

- Consulted on various arboviral and neurologic disease clinical cases from across the U.S. and the world
- Consulted on yellow fever and Japanese encephalitis virus vaccine questions from across the U.S.
- Reviewed and interpreted arboviral testing results for patients within the U.S. and around the world
- Consulted on acute flaccid myelitis (AFM)/poliomyelitis clinical cases from across the U.S.

-Dedicated 100% effort as an Epidemic Intelligence Service (EIS) Officer and Lieutenant Commander in the U.S. Public Health Service Commissioned Corps

-Please see other sections for additional details

**Volunteer Attending Neurologist;** Denver VA Medical Center; Denver, CO (June 2014–June 2015)

-Supervised general neurology outpatient resident clinic monthly

-Independently evaluated and treated patients with various neurologic conditions and diseases

-Please see other sections for additional details

**Neurology Resident and Internal Medicine Intern;** University of California San Francisco (UCSF); San Francisco, CA (June 2009–June 2013)

-Evaluated and treated patients with various acute and chronic neurologic conditions in inpatient, outpatient, and emergency room settings across university, public, and VA hospital settings

-Completed an internal medicine internship during first year of neurology residency which included rotations in internal medicine, cardiology, and critical care (2009–2010)

-Dedicated 100% effort as a neurology resident and internal medicine intern throughout residency

-Please see other sections for additional details

**Medical Student;** Duke University; Durham, NC (August 2004–May 2009)

-Trained in various clinical specialties including neurology, neuromuscular medicine, psychiatry, infectious diseases, occupational/environmental medicine/toxicology, family medicine, pediatrics, obstetrics/gynecology, radiology, general surgery, emergency medicine, and internal medicine rotations

-Please see other sections for additional details

**Emergency Medical Technician;** Scotch Plains Rescue Squad; Scotch Plains, NJ (June 1999–September 2003)

-Provided volunteer emergency basic life support and first-aid to my hometown community part-time

-Licensed as an emergency medical technician (EMT) basic in the State of New Jersey

-Trained in basic life support, first-aid, disaster response, medical triage, and defensive driving

-Please see other sections for additional details

**Medical Epidemiology and Science Experience**

**Affiliate Neurologist and Medical Epidemiologist;** Centers for Disease Control and Prevention (CDC); Atlanta, GA, and Fort Collins, CO (July 2015–present)

-Served as an arboviral disease and neurologic disease subject matter expert for the Division of Vector-Borne Diseases and other CDC divisions

-Consulted on various arboviral and neurologic disease clinical cases from across the U.S. and world

-Consulted on yellow fever and Japanese encephalitis virus clinical vaccine questions

-Reviewed and interpreted arboviral testing results for patients within the U.S. and around the world

-Reviewed and classified Zika-associated neurologic disease cases throughout the U.S.

-Frequently communicated with state and local health departments regarding arboviral disease cases

-Researched and updated potential West Nile virus treatment strategies for the CDC website

-Researched and drafted/updated fact sheets, presentations, and websites for Cache Valley, Heartland, Jamestown Canyon, Usutu, West Nile, and Zika virus diseases

-Researched and updated clinical definitions for ArboNET, the national arboviral surveillance system

- Researched and reviewed Usutu virus literature and presented to the FDA on potential blood safety risk
- Served as a co-investigator on epidemiologic studies examining Heartland and Bourbon virus diseases in Missouri and across the U.S.
- Nominated for the CDC Charles Shepard science award for investigating Heartland virus throughout the United States
- Deployed and served as a co-investigator on a Powassan virus human serosurvey investigation in rural New Jersey
- Reviewed and assisted in protocol and survey tool development for a Colorado tick fever virus disease study in Montana
- Deployed to Puerto Rico as an arboviral and neurologic disease subject matter expert to assist the Puerto Rico Department of Health (PRDH) and CDC with the Zika outbreak response
- Deployed and served as a co-investigator on a study to establish GBS and other neurologic disease baseline incidence in Puerto Rico during a Zika virus outbreak
- Consulted on Guillain-Barré syndrome (GBS) and other neurologic disease cases in Puerto Rico during a Zika virus outbreak
- Co-designed and implemented a GBS surveillance system in Puerto Rico during a Zika virus outbreak
- Created a GBS clinical management presentation for Puerto Rican clinicians and public health officials
- Deployed and served as a co-investigator studying long-term neurologic sequelae among Native Americans with Rocky Mountain spotted fever (RMSF) in Arizona tribal communities
- Collaborated to update the CDC naturally acquired and bioterrorism plague treatment guidelines
- Served as a neuro-epidemiologic consultant for the Epilepsy Team in the Division of Population Health
- Researched and drafted a Medscape article to educate physicians on current seizure terminology
- Assisted in epidemiologic reviews of all diagnosed epilepsy cases and active epilepsy cases in older adults within the U.S.
- Reviewed cases of congenital Zika virus syndrome with motor abnormalities and epilepsy
- Organized and presented at a joint CDC-NIH conference on epilepsy health services research
- Co-represented CDC at the NIH Interagency Collaborative to Advance Research in Epilepsy (ICARE), NIH Curing the Epilepsies, and American Epilepsy Society (AES) conferences
- Served as a clinical and radiographic reviewer for the Acute Flaccid Myelitis (AFM) Team within the Division of Viral Diseases
- Reviewed and classified cases of acute flaccid myelitis (AFM)/poliomyelitis throughout the U.S.
- Researched and co-developed an updated surveillance definition for acute flaccid myelitis (AFM) with CDC and CSTE
- Participated in CDC expert roundtables with national and international partners regarding acute flaccid myelitis (AFM)/poliomyelitis etiologies, diagnoses, and potential treatments
- Consulted with international and national public health partners regarding acute flaccid paralysis cases in the Republic of the Marshall Islands
- Served as a neuro-epidemiologic consultant for other divisions within CDC such as the Division of High Consequence Pathogens and Pathology and Division of State and Local Readiness
- Served as a co-investigator studying unexplained events among U.S. government personnel living and working overseas (e.g., Cuba and China)

- Collaborated with multiple government agencies on studying such unexplained events among U.S. government personnel living and working overseas
- Provided emergent clinical and epidemiologic consultation to CDC and FDA regarding atypical cerebral venous sinus thrombosis cases after the J&J/Janssen COVID-19 vaccine
- Consulted on mpox virus neurologic disease cases throughout the U.S. during the 2022 outbreak
- Assisted in drafting CDC interim treatment considerations for severe mpox virus disease
- Passed all required Collaborative Institutional Training Initiative (CITI) research program trainings
- Awarded multiple awards for my investigations and research (see below for details)
- Acquired broad international safety skills through multiple CDC and Department of State trainings (e.g., High Threat Security Overseas Seminar, Counter Threat Awareness Training, Working in an Embassy, Preparing for Work Overseas, multiple Foreign Travel Safety Briefings)
- Extensive international travel experience throughout North America, Europe, and Oceania
- Dedicated ~20–50% effort (depending on specific time frame) based on several CDC divisions' needs
- Please see other sections for additional details

**Neurologist and Medical Epidemiologist;** Departments of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado and Colorado School of Public Health; Aurora, CO (July 2015–present)

- Led COVID-19 outbreak preparedness and response efforts for the Department of Neurology
- Provided COVID-19 clinical, epidemiologic, and logistical updates for both the department and incident command system
- Taught faculty, trainees, and students COVID-19 transmission prevention strategies and PPE use
- Streamlined various neuro-infectious and neuroinflammatory disease laboratory diagnostics
- Streamlined processes for reporting neurologic conditions to CDPHE
- Investigated a cluster of Guillain-Barré syndrome (GBS) cases at the University of Colorado Hospital
- Investigated a cluster of cervical artery dissection cases at the University of Colorado Hospital
- Investigated a cluster of acute flaccid myelitis (AFM)/poliomyelitis cases at the University of Colorado Hospital in conjunction with CDPHE
- Collaborated with military physicians to review possible agents of neuro-terrorism/bioterrorism
- Briefed the American Academy of Neurology (AAN) members on the 2022 mpox virus outbreak
- Consulted on mpox virus neurologic disease cases throughout the U.S. during the 2022 outbreak
- Briefed the Rocky Mountain MS Center on use of the JYNNEOS mpox virus vaccine
- Served as a local site investigator for a next-generation sequencing and autoantibody study for patients with unexplained neuroinflammatory conditions in partnership with UCSF
- Sub-investigator in Benefits of Stroke Treatment Delivered via Mobile Stroke Unit ([BEST-MSU](#)) study
- Sub-investigator in the Platelet-Oriented Inhibition in New TIA/Minor Ischemic Stroke ([POINT](#)) study
- Sub-investigator in other stroke studies done at the University of Colorado Hospital
- Sub-investigator in examining rozanolixizumab (anti-neonatal Fc receptor [FcRn] monoclonal antibody) safety and efficacy in anti-LGI-1 autoimmune encephalitis
- Served on University of Colorado's Clinical and Translational Science Institute's (CCTSI) pre-K research grant review committee
- Researched and wrote several academic review articles on arboviral and neuro-infectious diseases
- Reviewed various arboviral and neuro-infectious disease articles for peer-reviewed journals



- Reviewed a Stanford Law Review article on “medical civil rights” for an academic legal colleague
- Served an author on a Medscape “Test and Teach” CME article on West Nile virus infection
- Earned a Public Health Law Academy Certificate through CDC with training in public health law and legal epidemiology
- Served as a peer-reviewer for multiple neurology, infectious disease, and public health journals
- Served as a peer-reviewer for the American Academy of Neurology Neuro-Infectious Diseases section
- Passed all required Collaborative Institutional Training Initiative (CITI) research program trainings
- Obtained a secondary appointment in the Department of Epidemiology in the Colorado School of Public Health in 2016
- Please see other sections for additional details

**Skywarn Storm Spotter;** National Weather Service (July 2008–present)

- Trained by the National Weather Service in severe weather observation, monitoring, and reporting
- Served as a volunteer severe weather spotter and reporter in North Carolina, California, and Colorado

**Consulting Outbreak Medical Epidemiologist;** Colorado Department of Public Health and Environment (CDPHE); Denver, CO (March 2020–July 2023)

- Served as a COVID-19 outbreak consultant for CDPHE and local public health agencies (LPHAs)
- Served as a COVID-19 scientific and clinical vaccine consultant for CDPHE and LPHAs
- Nimbly deployed to various teams within CDPHE during the COVID-19 pandemic including the initial field outbreak investigation, mountain region support, policy guidance, industry and workplace, clinical vaccine, and medical guidance teams
- Co-led the workplace/industry COVID-19 outbreak prevention and response team for CDPHE
- Co-led the emergency COVID-19 clinical vaccine information team for CDPHE
- Deployed to assist Summit County with COVID-19 preparedness, assessment, and response during the start of the COVID-19 outbreak in March 2020
- Researched and drafted comprehensive guidances to prevent and mitigate COVID-19 outbreaks across businesses, industries, events, and activities throughout Colorado (see below)
- Researched, drafted, and reviewed isolation, quarantine, and mask guidance webpages for Colorado
- Reviewed and revised COVID-19 prevention plans for various sporting and community events
- Consulted on various COVID-19 community, business, and industry outbreaks throughout Colorado
- Consulted with Colorado wildfire fighters on COVID-19 outbreak control in wildfire fighter camps
- Served as an indoor air quality/ventilation/respiratory virus transmission expert consultant to industries
- Researched, drafted, and reviewed ventilation optimization guidance for schools throughout Colorado
- Consulted with Denver Public Schools on how to improve ventilation and reduce virus transmission
- Collaborated with the Colorado Restaurant Association to design outdoor restaurant seating arrangements to limit COVID-19 transmission
- Researched, drafted, and/or reviewed COVID-19 clinical vaccine guidances, frequently asked questions (FAQs), situation assessments, media responses, and health advisory network (HAN) alerts
- Provided scientific briefings on COVID-19 transmission/prevention and the COVID-19 vaccines
- Provided emergency scientific briefs and co-drafted an emergency HAN around rare thrombotic thrombocytopenic syndromes after the J&J COVID-19 vaccine
- Researched, drafted, and reviewed COVID-19 monoclonal antibody and oral antiviral guidelines and

## HAN alerts

- Provided emergency guidance to hospitals with critical staffing issues and communities besieged by extremely high transmission rates of COVID-19
- Responded to media requests and public inquiries regarding COVID-19 and vaccinations
- Co-drafted and reviewed statewide health advisory network (HAN) alerts for the mpox virus outbreak and treatment considerations
- Consulted on mpox virus disease clinical cases, vaccine science, and vaccine distribution logistics
- Co-drafted a statewide health advisory network (HAN) alert for polio and AFM
- Assisted in polio and AFM outbreak response preparedness given circulation of poliovirus and EV-D68
- Co-drafted an emergency infection prevention memo to childcare facilities during an RSV epidemic
- Reviewed legionella respiratory co-infection literature and co-drafted an executive summary
- Assisted in writing and updating a Marburg virus/viral hemorrhagic fever preparedness brief
- Co-drafted a statewide health advisory network (HAN) alert for human cases of plague
- Reviewed syphilis screening literature and wrote an executive assessment of potential benefits and cost-effectiveness of screening programs among various populations
- Dedicated ~25% effort on outbreak tasks, projects, and teams throughout the COVID-19 pandemic
- Please see other sections for additional details

## **Epidemic Intelligence Service (EIS) Officer;** Centers for Disease Control and Prevention (CDC); Atlanta, GA and Fort Collins, CO (June 2013–June 2015)

- Served as an arboviral disease and neurologic disease subject matter expert for the Division of Vector-Borne Diseases and other CDC divisions
- Responded to emergent vector-borne and neurologic public health issues nationally and internationally
- Briefed and collaborated with various local, state, national, and international public health leaders on various public health emergencies and issues
- Consulted on various arboviral and neurologic disease clinical cases from across the U.S. and the world
- Consulted on yellow fever and Japanese encephalitis virus clinical vaccine questions
- Reviewed and interpreted arboviral testing results for patients within the U.S. and around the world
- Reviewed arboviral disease surveillance and response grant proposals from multiple states
- Reviewed arboviral related manuscripts for various peer-reviewed journals (e.g., *EID*, *AJTMH*)
- Deployed and served as a co-investigator for epidemiologic studies examining Heartland and Bourbon virus diseases in Missouri and across the U.S.
- Co-discovered a novel tick-borne thogotovirus (Bourbon virus) associated with a fatality in Kansas
- Researched and critically evaluated the ability of the national arboviral surveillance system, ArboNET, to detect Jamestown Canyon virus disease cases
- Researched and investigated laboratory-confirmed Jamestown Canyon virus disease cases throughout the U.S.
- Deployed to investigate, research, and manage an outbreak of chikungunya virus disease in Yap State, Federated States of Micronesia
- Deployed to investigate, research, and manage a chikungunya virus disease outbreak in the U.S. Virgin Islands
- Co-designed and implemented an arboviral disease surveillance and reporting system for the U.S.

## Virgin Islands

- Deployed to investigate, research, and manage a cluster of GBS cases during a dengue virus disease outbreak in the Republic of Fiji
- Deployed to investigate and research a cluster of acute neurologic illnesses of unknown etiology (later identified as acute flaccid myelitis (AFM)) in children in Colorado during an enterovirus D-68 disease outbreak
- Co-led the CDC epidemiology team investigating cases of acute flaccid myelitis in children and co-developed a national reporting system for the National Center for Immunization and Respiratory Diseases (NCIRD)
- Researched and co-drafted an acute flaccid myelitis (AFM)/poliomyelitis management guide for CDC
- Reviewed and classified cases of acute flaccid myelitis (AFM)/poliomyelitis throughout the U.S.
- Deployed and served as the primary investigator to investigate reports of acute flaccid paralysis associated with La Crosse virus disease in Ohio
- Researched and co-developed pet quarantine protocols for potential Ebola virus disease cases in Colorado
- Drafted CDC Health Alert Network (HAN) alerts regarding chikungunya virus in the Caribbean (HAN 358) and acute flaccid myelitis in children (HAN 370)
- Designed epidemiologic studies, created questionnaires and surveys, and enrolled patients
- Performed epidemiologic analyses using Epi Info, SAS Enterprise Guide, and Microsoft Excel
- Communicated complex scientific concepts to the public through interviews, flyers, and posters
- Created visual and graphic aids to illustrate scientific findings to other professionals and the public
- Wrote briefings, reports, abstracts, and manuscripts regarding various public health investigations
- Acquired biostatistics, epidemiology, disease surveillance, and outbreak response skills
- Awarded multiple awards for my investigations and research (see below for details)
- Acquired broad international safety skills through multiple CDC and Department of State trainings (e.g., High Threat Security Overseas Seminar, Counter Threat Awareness Training, Working in an Embassy, Preparing for Work Overseas, multiple Foreign Travel Safety Briefings)
- Dedicated 100% effort as an Epidemic Intelligence Service (EIS) Officer and Lieutenant Commander in the U.S. Public Health Service Commissioned Corps
- Please see other sections for additional details

## **Medical and Graduate Student;** Duke University; Durham, NC (August 2004–May 2009)

- Designed and critically reviewed epidemiologic, observational, and experimental studies
- Earned research honors for an epidemiologic study examining survival in military veterans with ALS
- Served as a co-investigator on studies examining barriers to ALS patients entering research trials and whether levetiracetam is effective in treating muscle cramps
- Performed statistical analyses using SAS Enterprise Guide and Microsoft Excel
- Completed a 6-week CDC epidemiology elective in the Division of Health Care Quality Promotion (DHQP) and assisted in two nosocomial infectious disease outbreak investigations
- Please see other sections for additional details

## **Undergraduate Student;** Brown University; Providence, RI (September 1999–May 2003)

- Earned a biophysics degree magna cum laude with departmental honors

- Earned research honors for a project examining occupational radiation exposure during fluoroscopy
- Elected to the Sigma Xi Scientific Research Honor Society
- Please see other sections for additional details

### **Public and Health Policy Experience**

**U.S. Polio Eradication National Certification Committee Member**, The Task Force for Global Health, Decatur, GA (October 2023–present)

- Appointed and served as a United States National Certification Committee (NCC) member to ensure containment and eradication of poliovirus throughout the United States
- Advised and reviewed practices of poliovirus containment and mitigation throughout the United States

**Vice President, State Board of Health**; State of Colorado (January 2023–present)

**State Board of Health Member (At-Large, Statewide)**; State of Colorado (September 2017–present)

- “The Board of Health promulgates rules related to Colorado public health, approves funding for public health grant programs, appoints members to specific department committees and advises the executive director as appropriate” -Colorado Board of Health website
- Appointed by Colorado Governor John Hickenlooper to serve a 4-year term as an at-large, statewide member to the Colorado State Board of Health in 2017
- Recommended by the Colorado State Senate Health & Human Services Committee on a unanimous and bipartisan 5–0 vote in 2019
- Confirmed by the full Colorado State Senate on a unanimous and bipartisan 35–0 vote in 2019
- Re-appointed to the same position by Colorado Governor Jared Polis in 2019 and again in 2022
- Re-recommended by the Colorado State Senate Health & Human Services Committee on a unanimous and bipartisan 5–0 vote in 2022
- Re-confirmed by the full Colorado State Senate on a unanimous and bipartisan 29–0 vote in 2022
- Elected by the Board to serve as Vice President in 2023 and served as Acting President in charge of running Board meetings when the President was absent
- Areas of focus included neurology, infectious diseases, epidemiology, emergency response and preparedness, veteran issues, mountain and rural issues, and LGBTQ community health
- Reviewed technical documents/budgets, listened to stakeholders, and deliberated in open meetings
- Chaired and moderated various rulemaking hearings regarding a variety of public health issues
- Approved over \$100 million for cancer, lung, and cardiovascular disease prevention grants in Colorado
- Approved over \$100 million for tobacco education, cessation, and prevention grants in Colorado
- Approved over \$13 million for health disparities grants throughout Colorado based on funding recommendations from the Colorado Health Equity Commission as well over \$5 million for the health disparity grant outcome evaluations
- Approved over \$18 million for HIV prevention grants throughout Colorado
- Approved over \$8 million in CDC block grants to help prevent suicides, prevent sexual violence, improve local public health agency capacity, reduce air pollution, improve environmental health in disproportionately affected communities, improve childhood dental health screening, modernize public health data science, improve diversity/ equity/inclusion public health efforts, and to improve workplace health throughout Colorado

- Approved over \$3 million for rural and mountain school districts to hire and retain school nurses
- Approved over \$2 million for research grants investigating the safety and efficacy of standardized marijuana compounds for various clinical conditions in Colorado
- Approved over \$2 million in housing stability grants to improve public health in local areas
- Voted to create a community paramedic program to better serve the health needs of rural Colorado
- Voted to create state health professional shortage area programs to improve access to primary care and mental health/substance abuse services in Colorado rural and mountain communities
- Voted to improve ambulance vehicle safety and clarify ambulance requirements throughout Colorado
- Voted to streamline, simplify, and update emergency medical service (EMS) trauma regulations
- Voted to promulgate Colorado's statewide ground ambulance rules in coordination with SEMTAC
- Voted to update freestanding emergency department and flexible behavioral health clinic regulations
- Voted to update comprehensive regulations across acute care, psychiatric, and specialty hospitals
- Voted to improve surveillance for chronic diseases, toxic exposures, and drug adverse events
- Voted to improve surveillance for various emerging infectious diseases, antibiotic resistant bacteria, and other communicable diseases
- Voted to improve data collection and contact tracing methods for serious communicable diseases
- Voted to add several genetic and neurologic conditions to the list of Colorado newborn screening tests
- Voted to improve and standardize food safety and food handling practices throughout Colorado to align state rules with statutes and federal recommendations (i.e., FDA Food Code)
- Voted to adopt the Food & Drug Administration's (FDA) Grade "A" Pasteurized Milk Ordinance to improve dairy safety and allow for interstate dairy commerce
- Voted to adopt the Model Aquatic Health Code as a statewide safety reference for pools and baths
- Voted to adopt the initial technologically enhanced naturally occurring radioactive material (TENORM) rules for Colorado
- Voted to approve a radon mitigation assistance program for low-income Coloradans to reduce harmful radon levels in their homes
- Voted to approve a medical marijuana petition pathway requiring peer-reviewed evidence of efficacy
- Voted to adopt novel industrial and consumer hemp regulations, testing, and safety for hemp production and consumption in Colorado
- Voted to require consumer disclosures and limit surprise balance billing of patients in Colorado
- Voted to eliminate an obsolete health care credentialing application to help streamline regulations
- Voted to implement an electronic death registration system to ensure timely death certificate certifications
- Voted on several emergency COVID-19 measures affecting health care facilities during the pandemic
- Voted to approve hospital surge capacity reporting guidelines for future pandemic and other public health emergency planning and response
- Voted to approve infection control and outbreak prevention practices in long term care facilities
- Voted to make vaccine and infection control prevention information available to long term care facility residents and staff
- Voted for improved patient protections, safety, dementia training, and CPR training for assisted living and skilled nursing facilities

- Voted to approve several community members and experts to various public health boards in Colorado
- Supported CDPHE's efforts to reduce health disparities across socially disadvantaged populations
- Advocated for LGBTQ community partnership during the 2022 mpox outbreak
- Advocated for clean air, clean water, and food safety throughout all of Colorado
- Visited all 64 counties in Colorado to listen and learn about how different issues affect different regions
- Received personal recognition from CU President Todd Saliman for my service on the State Board of Health in addressing public health needs throughout the state
- Received personal recognition from Governor Jared Polis for my "courageous leadership" during the COVID-19 pandemic

**Governor's Expert Emergency Epidemic Response Committee (GEEERC) Member;** State of Colorado (September 2017–present)

- "The Governor's Expert Emergency Epidemic Response Committee (GEEERC) advises the governor during an emerging or ongoing public health threat." -Colorado GEEERC website
- Served as the Board of Health representative to the GEEERC and provided epidemic/outbreak consultation and advice on an emergency basis
- Advised two governors of Colorado and two executive directors of CDPHE on epidemic and public health emergency preparedness and response (including throughout the COVID-19 pandemic)
- Critically reviewed and supported the [Colorado Crisis Standards of Care](#) for behavioral/mental health, emergency medical services, health care worker staffing, hospital and intensive care, palliative care/hospice, and personal protective equipment to ensure fairness and equitability during medical or public health crises
- Critically reviewed and supported updates to [Colorado Crisis Standards of Care](#) multiple times throughout the COVID-19 pandemic based on stakeholder feedback to ensure equitability
- Critically reviewed and supported phased implementation of the first COVID-19 vaccinations in Colorado in 2020 and 2021
- Advocated for LGBTQ community outreach and partnership during the 2022 mpox outbreak

**Consulting Outbreak Policy Advisor;** Colorado Department of Public Health and Environment (CDPHE); Denver, CO (March 2020–July 2023)

- Researched, developed, and reviewed emergency COVID-19 public health policy for Colorado
- Developed comprehensive guidance and rules to prevent and mitigate COVID-19 outbreaks across various businesses, industries, events, sports, and activities throughout Colorado (see below)
- Provided emergency guidance to hospitals with critical staffing issues and communities besieged by extremely high transmission rates of COVID-19
- Drafted, co-drafted, or reviewed several emergency statewide health advisory network (HAN) alerts
- Closely collaborated with and provided guidance to many State of Colorado Agencies (e.g., Colorado Departments of Education, Higher Education, Natural Resources, Regulatory Agencies, State, Transportation) and the Colorado's Governor's Office regarding statewide COVID-19 outbreak prevention and mitigation policies
- De-briefed with state planning experts on the top COVID-19 pandemic response lessons learned
- Dedicated ~25% effort on outbreak tasks, projects, and teams throughout the COVID-19 pandemic
- Please see other sections for additional details

**Colorado Winter Outdoor Dining Grant Committee Member;** Colorado Restaurant Association; Denver, CO (November 2020–December 2021)

- Asked by the Colorado Governor’s Office to serve on the Colorado Winter Outdoor Dining Grant Program Committee to review restaurant grant applications in order to maximize outdoor dining and reduce viral transmission during the COVID-19 crisis
- Critically evaluated design and funding proposals from restaurants in rural, mountain, and urban areas throughout Colorado and made official funding recommendations

**Congressional Neurologic Advocate,** American Academy of Neurology (AAN); Washington, D.C. (February 2019, February 2024)

- Competitively selected to represent the AAN at the U.S. Congress to advocate for neurologic issues as part of the annual “Neurology on the Hill” conferences and legislative fly-ins in 2019 and 2024
- Trained in federal legislative, state legislative, and regulatory/rulemaking advocacy
- Met with several U.S. Representatives and Senators from Colorado and their staff to advocate for neurologic issues before the U.S. House of Representatives and Senate in Washington D.C.

**Community Advocate and Organizer;** North Carolina Alliance for Health; Durham, NC (January 2007–May 2009)

- Volunteered as a community advocate and organizer to lobby the North Carolina state legislature to enact a smoking ban in restaurants and bars to protect the health of workers and patrons (which was passed and signed into law in May 2009)

### **Uniformed Service Experience**

**Lieutenant Commander (O-4)/Medical Officer,** U.S. Public Health Service (June 2013–June 2015)

- “The Commissioned Corps of the U.S. Public Health Service is a team of more than 6,500 full-time, well-trained, highly qualified public health professionals dedicated to delivering the Nation’s public health promotion and disease prevention programs and advancing public health science. As one of America’s seven uniformed services, the Commissioned Corps fills essential public health leadership and service roles within the Nation’s Federal Government agencies and programs. Officers serve their country in communities that are most in need by providing essential health care services to underserved and vulnerable populations.” -USPHS website
- Served as an active-duty lieutenant commander (O-4) and medical officer for the U.S. Public Health Service Commissioned Corps Ready Reserve while concurrently serving as an EIS officer
- Deployed to Colorado, Georgia, Missouri, Ohio, Fiji, Micronesia, and U.S. Virgin Islands for emergency public health investigations and response
- Trained in incident command system, disaster response, and bioterrorism response
- Acquired global travel safety and high-threat security skills through CDC and U.S. Department of State
- Held secret clearance for classified national security information
- Honorably discharged after two years of active-duty service and awarded three USPHS awards (see below for details)
- Dedicated 100% effort as an Epidemic Intelligence Service (EIS) Officer and Lieutenant Commander in the U.S. Public Health Service Commissioned Corps
- Please see other sections for additional details

## **Teaching, Education, and Mentoring Experience**

### **Global Neurology Education Director;** University of Colorado; Aurora, CO (January 2019–present)

- Researched, developed, and implemented a global neurology resident rotation in Suva, Fiji, in collaboration with the Fiji Ministry of Health and Colonial War Memorial Hospital
- Met with and briefed the Fiji Ministry of Health, Colonial War Memorial Hospital, Fiji National University, and the U.S. Embassy of our neurology resident rotation plan in Fiji
- Collaborated with other departments within the School of Medicine and Colorado School of Public Health to create a global health trainee curriculum and improve global rotation logistics
- Developed, implemented, and managed a monthly virtual global neurology case conference with colleagues at Colonial War Memorial Hospital in Suva, Fiji
- Acquired broad international safety skills through multiple CDC and Department of State trainings (e.g., High Threat Security Overseas Seminar, Counter Threat Awareness Training, Working in an Embassy, Preparing for Work Overseas, multiple Foreign Travel Safety Briefings)
- Extensive international travel experience including Andorra, Austria, Bahamas, Belgium, Bermuda (UK), Bulgaria, Canada, Croatia, Czech Republic, Fiji, France, Germany, Guam (US), Hungary, Italy, Mexico, Micronesia, Monaco, Puerto Rico (US), Romania, Serbia, Slovakia, Spain, United Kingdom, US Virgin Islands (US)
- Named senior investigator for the Center of Global Health within the Colorado School of Public Health to help assist with development of a core global health curriculum including travel safety
- Served on the Global Health GME Core Curriculum Subcommittee for the Center for Global Health within the Colorado School of Public Health

### **Neuro-Infectious Diseases and Autoimmune Neurology Fellowship Director;** University of Colorado; Aurora, CO (January 2016–present)

- Supervised, taught, and mentored the neuro-infectious diseases/autoimmune neurology fellows
- Developed and coordinated a cross-disciplinary curriculum for the neuro-infectious diseases and autoimmune neurology fellowship
- Created and developed a weekly neuro-infectious disease clinical case conference at University of Colorado and a monthly clinical case conference with colleagues from across North America
- Led the neuro-ID and autoimmune neurology fellowship curriculum and recruitment committee
- Co-developed a nationwide neuro-infectious diseases fellowship curriculum with external colleagues

### **Neurohospitalist and Neuro-Infectious Diseases Attending Physician;** University of Colorado Hospital and Denver VA Medical Center; Aurora, CO (July 2015–present)

- Supervised and taught fellows, residents, interns, and medical students on inpatient services
- Supervised the outpatient neurology resident clinic and taught the neurology residents
- Supervised, taught, and mentored the neuro-infectious diseases/autoimmune neurology fellows
- Participated regularly in neuro-infectious disease fellow rounds, grand rounds, and professors' rounds
- Formally evaluated and provided feedback to medical students, residents, and fellows
- Taught medical students and residents high-yield and efficient neurologic exam techniques
- Oriented new advanced practice providers (APPs) in the neurologic exam, localization, and differential diagnosis methods



- Trained MSTU and community hospital staff during telestroke simulations
- Served on the neurology department education, medical student neurology clerkship, neurology residency recruitment, neuro-ID/autoimmune neurology fellowship, global neurology education, junior neurology faculty grant, and neurology faculty promotion committees
- Acquired academic neurohospitalist teaching skills at the American Hospitalist Academy
- Participated in diversity, equity, and inclusion (DEI) workshops and bias trainings
- Served on the Department of Neurology DEI task force as an LGBTQ and veteran representative
- Served as course director for the residency neuro-infectious diseases educational course
- Co-developed and implemented a biweekly lunch clinical case conference for the neurology residents
- Served as the American Academy of Neurology emerging neuro-infectious diseases course director
- Served on the American Academy of Neurology's neuro-infectious diseases career resource panel
- Received excellent and outstanding teaching evaluations from medical students, residents, and fellows
- Nominated for the annual neurology resident teaching award multiple times in 2018, 2019, and 2020
- Earned the highest absolute number of educational relative value units (eRVUs) for various educational activities in the Department of Neurology out of all neurology faculty for the 2016–2017, 2018–2019, and 2019–2020 academic years; tied for the highest number in the 2020–2021 academic year; and earned the second highest in the 2017–2018 academic year.
- Please see other sections for additional details

**Neurologist and Medical Epidemiologist;** Departments of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado and Colorado School of Public Health; Aurora, CO (July 2015–present)

- Taught faculty, trainees, and students COVID-19 transmission prevention strategies and PPE use
- Supervised and taught residents, fellows, and graduate students in public health writing, cluster/outbreak investigations, surveillance/reporting processes, and applied epidemiology
- Served as a member for the Colorado School of Public Health MPH admissions committee
- Facilitated clinical epidemiology teaching sessions for medical students at University of Colorado
- Facilitated evidenced-based medicine teaching sessions for medical students at University of Colorado
- Provided interviews on infectious diseases and public health topics for high school student projects
- Please see other sections for additional details

**Affiliate Neurologist and Medical Epidemiologist;** Centers for Disease Control and Prevention; Atlanta, GA and Fort Collins, CO (July 2015–present)

- Mentored and taught EIS officers and elective students within the Division of Vector-Borne Diseases
- Taught several neurologists in Puerto Rico about neurologic manifestations of Zika virus disease
- Taught several epidemiologists throughout Puerto Rico about GBS surveillance and reporting
- Mentored EIS officers and epidemiologists on the joint PRDH/CDC Zika response team in Puerto Rico
- Please see other sections for additional details

**Consulting Outbreak Medical Epidemiologist and Policy Advisor;** Colorado Department of Public Health and Environment (CDPHE); Denver, CO (March 2020–July 2023)

- Mentored and taught incoming new epidemiologists and preventive medicine fellows in various COVID-19 and mpox outbreak response and prevention topics
- Developed and led an applied epidemiology case series for trainees within CDPHE
- Assisted in developing an educational curriculum for rotating students, residents, and trainees

-Please see other sections for additional details

**Associate Neurology Clerkship Director;** University of Colorado; Aurora, CO (July 2015–June 2018)

- Supervised, trained, mentored, and evaluated medical students in localization, diagnosis, and treatment of various neurologic diseases during the 3<sup>rd</sup> year neurology clerkship and 4<sup>th</sup> year elective
- Led interactive neurologic problem-based learning sessions for the 3<sup>rd</sup> year medical students
- Revamped the medical student problem-based learning (PBL) sessions to improve neurologic diagnostic/localization skills resulting in highly favorable student ratings
- Researched and implemented strategies to improve medical student shelf exam scores (including reaching out to other institutions for best practices and taking a timed shelf exam myself) resulting in overall improved shelf scores across all blocks
- Co-designed interactive neuroradiology training sessions for medical students with radiology
- Regularly provided mid-course feedback and improvement strategies to the 3<sup>rd</sup> year medical students
- Served on the grading committee and developed “blinding” strategies to make grades less subjective
- Served as the acting clerkship director for two months while the clerkship director was away

**Volunteer Attending Neurologist;** Denver VA Medical Center; Denver, CO (January 2014–June 2015)

- Supervised the general neurology outpatient resident clinic monthly as a volunteer
- Supervised and taught neurology residents, medical interns, and medical students
- Please see other sections for additional details

**Epidemic Intelligence Service (EIS) Officer;** Centers for Disease Control and Prevention (CDC); Atlanta, GA and Fort Collins, CO (June 2013–June 2015)

- Mentored and taught junior EIS officers and epidemiology elective students at CDC
- Please see other sections for additional details

**Neurology Resident and Internal Medicine Intern;** University of California San Francisco (UCSF); San Francisco, CA (June 2009–June 2013)

- Served as chief resident in charge of educational conferences and technology (2012–2013)
- Supervised and taught medical students, non-neurology residents, and junior neurology residents
- Please see other sections for additional details

**High School Public Health Teacher;** HEY-Durham Program and Durham Public Schools; Durham, NC (August 2005–May 2007)

- Volunteered as a public health teacher to high school students in 2005 and 2007
- Taught STD prevention, nutrition, drug prevention, and mental health
- Mentored first-time volunteer teachers

**High School Science Teacher;** Cardinal Spellman High School; Brockton, MA (September 2003–June 2004)

- Full-time biology, chemistry, and genetics teacher to 10<sup>th</sup>–12<sup>th</sup> grade students
- Taught five classes daily (2 biology, 2 chemistry, 1 genetics) ranging in size from 22–30 students
- Created lesson plans, organized lab sessions, and facilitated interdisciplinary discussions

**High School Science Teacher (Summer);** Saint Joseph High School; Metuchen, NJ (June–August 2003)

- Full-time biology teacher for remedial summer school students
- Created lesson plans, organized lab sessions, and facilitated interdisciplinary discussions
- Helped all students successfully complete their remedial biology requirements

**Emergency Medical Technician (EMT);** Scotch Plains Rescue Squad; Scotch Plains, NJ

(June 1999–August 2004)

- Supervised and taught EMT cadets basic life support skills
- Please see other sections for additional details

### **Communication and Media Experience**

**Public Health, Medical, and Science Communications Expert;** Multiple Organizations (June 2013–present)

- Trained in media communications by University of Colorado, Colorado Department of Public Health and Environment, U.S. Public Health Service, and Centers for Disease Control and Prevention
- Drafted, reviewed, and published various public health/medical/science communications for the public
- Drafted several CDC or CDPHE emergency public health alerts for clinicians and public health entities
- Worked closely with university, government, and joint information centers on communication teams
- Frequently combated misinformation and disinformation throughout multiple public health crises
- Interviewed or provided expert commentary to print, radio/podcast, and television outlets to educate clinicians and the public about neurologic and infectious diseases as part of my various roles:
  - [-KKTV 11News Colorado Springs, Colorado doctors warning of West Nile virus, 2024](#)
  - [-Healthline, Man with first human case of H5N2 bird flu variant dies in Mexico, 2024](#)
  - [-New York Times, But how does the worm get in your brain? 2024](#)
  - [-9News NBC Denver, Bird flu outbreak: growing concern over human infection, 2024](#)
  - [-UCHealth Today, As many as 400 million people worldwide get dengue every year. How to avoid becoming one of them, 2024.](#)
  - [-Self Magazine, Why does my cold feel so much worse at night, 2023](#)
  - [-CU Anschutz Today, Deadly treatment-resistant fungus sees notable rise, 2023](#)
  - [-CBS Colorado, CSU student shares experience with West Nile virus, 2023](#)
  - [-Denver 7 ABC, 71 year-old Denver resident dies from West Nile virus, 2023](#)
  - [-UCHealth Today, Malaria is back in the United States: Here's what you need to know, 2023](#)
  - [-Newsweek, Woman dies of rare Powassan virus in Rhode Island, 2023](#)
  - [-Fox31 Denver, Nineteen Coloradans hospitalized with West Nile as of Monday, 2023](#)
  - [-Medscape, West Nile infections rising in the United States, 2023](#)
  - [-Denver 7 ABC, West Nile virus in Denver: Officials urge caution as health department investigates 6 suspected cases, 2023](#)
  - [-Health, Do tick bites cause red meat allergy? What to know about the rise of alpha gal syndrome, 2023](#)
  - [-KKTV 11News Colorado Springs, West Nile virus season ramps up in Colorado, 2023](#)
  - [-KOAA News5 Colorado Springs, First West Nile virus death in Colorado for 2023 reported, 2023](#)
  - [-Denver7 ABC, First West Nile virus death in Colorado for 2023 reported in Weld County, 2023](#)
  - [-9News NBC Denver, UCHealth expert provides insight into West Nile virus, 2023](#)
  - [-Fox31 Denver, West Nile virus is more of a threat this year than previous years, 2023](#)
  - [-Fox31 Denver, Rain increasing dangers of West Nile virus, 2023](#)
  - [-CU Anschutz Today, Red mean allergy from ticks: reality or science fiction, 2023](#)
  - [-Greeley Tribune, Windsor woman's battle with West Nile virus highlights need for prevention and awareness, 2023](#)
  - [-MedPage Today, Stem cell medical tourism leads to meningitis in MS patient, 2023](#)

[-Self Magazine, How to actually protect yourself against mosquito bites, 2023](#)

[-UCHealth Today, Two decades on West Nile virus still a threat to Colorado, 2023](#)

[-CU Anschutz Today, Here's how to avoid a spring surge of hungry ticks, 2023](#)

[-Newsweek, Maine resident dies of tick-borne virus as cases spread across U.S., 2023](#)

[-Colorado Sun, Syphilis is on the rise among Colorado newborns. One county is addressing the issue inside its jail, 2023](#)

[-Self Magazine, The earliest flu symptoms can be some of the easiest to miss, 2022](#)

[-Neurology Today, Monkeypox cases plummet as reports of serious neurologic effects grow, 2022](#)

[-Colorado Sun, Vaccines, behavior changes worked as Colorado's monkeypox cases decline, 2022](#)

[-Infectious Disease Special Edition, Two cases of encephalomyelitis tied to monkeypox, 2022](#)

[-9News NBC Denver, New rare symptom of monkeypox found in Colorado, 2022](#)

[-Colorado Public Radio/NPR, Rare monkeypox-related illness that causes brain inflammation reported in Colorado, 2022](#)

[-Insider, Pictures show how monkeypox lesions and rashes really look on different skin tones and body parts, 2022](#)

[-Self Magazine, How does monkeypox affect the brain, 2022](#)

[-WSKG-NY/NPR, Polio declared a disaster in New York as virus spreads, 2022](#)

[-MedPage Today, Brain inflammation, spinal cord lesions emerge in U.S. monkeypox cases, 2022](#)

[-Medscape, CDC reports two cases of monkeypox-related encephalomyelitis, 2022](#)

[-CU Anschutz Today, CU researcher describes first cases of encephalomyelitis resulting from monkeypox virus, 2022](#)

[-Wired Magazine, Polio is back in the US and UK. Here's how that happened, 2022](#)

[-WAMC-NY/NPR, Discussion about polio and monkeypox with Dr. Daniel Pastula, 2022](#)

[-USA Today, Will polio spread like COVID-19? Experts say it's unlikely but the unvaccinated are still at risk, 2022](#)

[-Colorado Sun, Work on monkeypox messaging forces Colorado officials to confront past mistakes of public health, 2022](#)

[-Medpage Today, Is monkeypox neuroinvasive?, 2022](#)

[-Denver Post, Should Coloradans worry about polio? Depends on whether they're vaccinated, 2022](#)

[-KOA News Radio, CU professor of neurology Dr. Daniel Pastula discusses the new Langya virus, 2022](#)

[-Fox31 Denver, Could polio come back? What to know about the virus, 2022](#)

[-CU Anschutz Today, Monkeypox has been declared a national health emergency; now what, 2022](#)

[-Newsweek, What ticks carry Powassan virus and who is vulnerable, 2022](#)

[-Mic, Do I really need to get a monkeypox vaccine now, 2022](#)

[-5280 Magazine, What Coloradans need to know about monkeypox, 2022](#)

[-Neurology Today, Neurologic effects of monkeypox virus remain mild—what to look for and how to treat, 2022](#)

[-Physician's Weekly, Seizure-related emergency visits dropped early in the pandemic, 2022](#)

[-CNET, How contagious is monkeypox: what to know about symptoms, how it spreads, and more, 2022](#)

[-CU Anschutz Today, Rare spread of monkeypox puts health experts on alert, 2022](#)

[-Brain & Life, How virus variants happen and why, 2022](#)

[-Denver Gazette, Colorado Board of Health extends health worker vaccine mandate, 2022](#)

[-Denver Gazette, Colorado medical experts approve update to crisis triage plans, 2021](#)

[-Colorado Springs Gazette, State faces worst COVID-19 peak, 2021](#)

[-Colorado Sun, Governor prepares to expand Colorado's COVID hospital capacity, 2021](#)

[-Denver Gazette, Colorado may top 2,000 COVID-19 hospitalizations by end of December, 2021](#)

[-AP News, West Nile virus cases climbing in Colorado, 2021](#)

[-Denver Gazette, West Nile virus cases climb in Colorado, 2021](#)

[-Yahoo News, Colorado considers lottery incentive to boost covid vaccine numbers, 2021](#)

[-CBS Colorado, Colorado closely following statewide lotteries to encourage vaccinations, 2021](#)

[-Pasadena Now, Pasadena library STEAM program illustrates the strength of soap against viruses, 2021](#)

[-Fox31 Denver, Doctors want Coloradans to celebrate New Year's Eve responsibly, 2020](#)

[-MyNorthwest.com, Washington ski resorts opening with COVID rules, 2020](#)

[-Fox31 Denver, Coloradans turning to air purifiers as COVID fighting tool, 2020](#)

[-Outside Magazine, How to ski COVID-safe this winter, 2020](#)

[-New Country 99.1, UCHealth urges the public to double down on COVID-19 precautions, 2020](#)

[-AP News, US resorts adapt to new normal of skiing amid pandemic, 2020](#)

[-UCHealth Today, COVID-19 surge prompts strong warnings from health experts, 2020](#)

[-Aspen Daily News, The Upload—October 15, 2020, Another one-on-one with Dr. Pastula on COVID-19, 2020](#)

[-Telluride Inside, Preventing superspreader events, 2020](#)

[-Fox31 Denver, Protect yourself from COVID-spreading indoor gatherings during fall, winter, 2020](#)

[-9News NBC Denver, Coronavirus 'superspreader' events, 2020](#)

[-UCHealth Today, How you can prevent 'superspreader' events this fall and winter, 2020](#)

[-Telluride Daily Planet, Don't mask don't tell, 2020](#)

[-Seattle Times, Here are ways to get on the water safely in Seattle this summer, 2020](#)

[-Colorado Sun, Colorado's governor issues statewide mask mandate, 2020](#)

[-Runner's World, Why mosquitoes love runners so much, 2020](#)

[-Runner's World, Do runners need to worry about the rare eastern equine encephalitis virus, 2020](#)

[-Fox31 Denver, Many COVID-19 patients experiencing neurological issues during recovery, 2020](#)

[-Newsweek, What to know before heading to an open beach this Memorial Day, 2020](#)

[-UCHealth Today, Is it safe to swim during the COVID-19 pandemic, 2020](#)

[-Insider, The dryer does not kill all germs, so here's how to keep your clothes germ-free, 2020](#)

[-Telluride Daily Planet, Shopping may be easier but the rules for staying safe haven't changed, 2020](#)

[-Wyoming Public Radio/NPR, As states begin lifting stay-at-home orders, how can the immunocompromised stay safe, 2020](#)

[-CBS Colorado, Why do some people with coronavirus get sicker than others, 2020](#)

[-The Colorado Trust, Working in a grocery store right now is harrowing, 2020](#)

[-The Zoe Report, How long does coronavirus live on clothes, 2020](#)

[-CGTN America, Many across the country have joined in an effort to supply protective masks to healthcare workers, 2020](#)

[-UCHealth Today, Why soap and water work better than hand sanitizer to remove the coronavirus, 2020](#)

[-UK Daily Express, Why has COVID-19 caused so many deaths worldwide, 2020](#)

[-Aspen Daily News, The Upload–March 20, 2020, One-on-one with Dr. Pastula on COVID-19, 2020](#)

[-Denver Post, Colorado governor closes bars, restaurants, theaters and gyms in fight against coronavirus, 2020](#)

[-Colorado Sun, A special committee advises the governor on how to respond to an epidemic. They’ve never faced a test like this, 2020](#)

[-Colorado Public Radio/NPR, Polis orders statewide closure of seating at bars and restaurants, 2020](#)

[-Greeley Tribune, COVID-19: Doctors answer common questions about the coronavirus, 2020](#)

[-UCHealth Today, Novel coronavirus outbreak in Colorado’s ski communities very serious, 2020](#)

[-UCHealth Today, Viruses 101: Why the new coronavirus is so contagious and how we can fight it, 2020](#)

[-UCHealth Today, What exactly is social distancing? Hint: You are allowed to go outside, 2020](#)

[-Fox31 Denver, Colorado COVID-19 outbreak, 2020](#)

[-Neurology Today, Largest outbreak of EEE since 1959 linked to 13 Deaths, 2019](#)

[-New Jersey Herald, Health officials urge Powassan survey response, 2019](#)

[-Runner’s World, Massachusetts race postponed due to rare mosquito-borne virus, 2019](#)

[-Popular Mechanics, The disease detectives, 2019](#)

[-CBS Colorado, Mother of two survives rare polio-like illness, 2019](#)

[-UCHealth Today, Colorado a hotspot for rare polio-like illness, 2018](#)

[-CU Anschutz Today, Treatment options for chemical and biological attacks, 2018](#)

[-Science Daily, Patient care in chemical and biological attacks, 2018](#)

[-The Athletic, Travis Frederick’s Guillain-Barre diagnosis is scary, but there’s hope, 2018](#)

[-American Academy of Neurology Podcast, What every neurologist should know about arboviruses, 2018 \(click play, starts at 11:50\)](#)

[-CU Medicine Today, Tracking diseases around the world and in Colorado: Neurologist Daniel Pastula looks after the public’s health, 2018](#)

[-CNN, Experts warn of increases in tick-borne Powassan virus, 2017](#)

[-CBS News, Zika virus can trigger epilepsy, 2017](#)

[-Insider/Reuters, A study in mice found that the Zika virus also attacks adult brain cells, 2016](#)

[-CDC 24/7, We have to be prepared: Neurologist works with CDC to fight Zika, Guillain-Barré syndrome, 2016](#)

[-Fort Collins Coloradoan, Zika’s host has medical community buzzing, 2016](#)

[-Medscape, Tracking the rise of Zika complications, 2016](#)

[-Neurology Today, More evidence for an associated risk of Zika and Guillain-Barre syndrome, 2016](#)

[-Neurology Today, Epidemiologists are tracking possible links between Zika virus and Guillain-Barré syndrome, 2016](#)

[-Neurology Today, Cellular studies of Zika virus offer clues to a potential mechanism for microcephaly — and a therapeutic target, 2016](#)

[-Neurology Now, What is Guillain-Barré syndrome, 2016](#)

[-Neurohospitalist Podcast, An overview of Zika virus disease, 2016](#)

[-NOVA Next/PBS, The Illness that Never Ends, 2016](#)

[-Popular Mechanics, How Your World Works Podcast: Zika virus, 2016 \(click play, starts at 10:15\)](#)

[-UCHealth Today, Zika virus: Prevention is key, 2016](#)

[-9News NBC Denver, Zika virus unlikely to hit Colorado, 2016](#)

[-USA Today, Zika virus unlikely to hit Colorado, 2016](#)

[-New York Times, Enterovirus 68 and paralysis link remains uncertain, 2014](#)

[-Colorado Public Radio/NPR, How disease detectives find source of outbreaks like enterovirus and Ebola, 2014](#)

**Radio Disc Jockey;** WBRU 95.5 FM; Providence, RI (September 1999–December 2000)

-Served as a part-time radio disc jockey for southern New England’s largest modern rock radio station

-Broadcasted on-air, organized music, produced commercials, and marketed music/concert events

### **Honors, Recognitions, and Awards**

American Academy of Neurology (AAN) “Neurology on the Hill” Congressional Advocate (2024, 2019)

-Competitively selected to represent the AAN at the U.S. Congress to advocate for neurologic issues

Fellow of the American Academy of Neurology (FAAN) (2022)

-elected for exemplary work and achievements in the neurosciences, the clinical practice of neurology, and in academic and administrative neurology

CDC/ATSDR Charles C. Shepard Award Nominee (CDC) (2021)

-for an outstanding scientific paper investigating Heartland virus disease throughout the United States

NCEZID James H. Nakano Citation (CDC) (2021)

-for an outstanding scientific paper investigating Heartland virus disease throughout the United States

Executive Director Performance Award (CDPHE) (2020)

-for exceptional performance in epidemiologic response during the COVID-19 pandemic

CDC/ATSDR Health Equity Award (CDC) (2020)

-for investigating neurologic sequelae among RMSF cases among Native Americans in Arizona

NCEZID Health Equity Award (CDC) (2020)

-for investigating neurologic sequelae among RMSF cases among Native Americans in Arizona

National Association of County and Behavioral Health and Disability Directors Award (2019)

-for public health work on epilepsy and mental health as part of the CDC Epilepsy Program

CPR Excellence in International Emergency Response Award (CDC) (2019)

-for investigating unexplained events among U.S. government personnel living and working overseas

DSLIR Excellence in International Emergency Response Award (CDC) (2018)

-for investigating unexplained events among U.S. government personnel living and working overseas

*5280 Magazine* “Top Doctor” in Neurology Award (2018)

-for excellence in clinical neurology in the Denver Metropolitan Area

Department of Neurology Recognition Award (University of Colorado) (2018)

-for serving as the Associate Neurology Clerkship Director from 2015 to 2018

Larry J. Anderson Award for Outstanding Public Health Science (CDC) (2017)

-for investigating acute flaccid myelitis throughout the United States and resultant publication

NCEZID Excellence in International Emergency Response Award (CDC) (2016)

-for indirectly supporting CDC and USPHS during the Ebola virus disease response

Outstanding Unit Citation (U.S. Public Health Service) (2015)



-for investigating and managing an acute flaccid myelitis outbreak nationwide	
Presidential Unit Citation (U.S. Public Health Service)	(2015)
-for indirectly supporting CDC and USPHS during the Ebola virus disease response	
NCEZID EIS Outstanding Service Award (CDC)	(2015)
-for serving as an Epidemic Intelligence Service (EIS) officer in the Arboviral Diseases Branch	
CDC/ATSDR Excellence in Domestic Emergency Response Award (CDC)	(2014)
-for investigating cases of acute flaccid myelitis possibly associated with an enterovirus D-68 outbreak	
Unit Commendation (U.S. Public Health Service)	(2014)
-for investigating and managing a chikungunya virus disease outbreak in Yap, Micronesia	
CDC/ATSDR Excellence in International Epidemiology Award (CDC)	(2013)
-for investigating and managing a chikungunya virus disease outbreak in Yap, Micronesia	
NCEZID Excellence in International Epidemiology Award (CDC)	(2013)
-for investigating and managing a chikungunya virus disease outbreak in Yap, Micronesia	
Medical Student Prize for Excellence in Neurology (AAN)	(2009)
-for excellence in research and performance in neurology during medical school	
William G. Anlyan Senior Medical Student Scholarship (Duke University)	(2008)
-for excellence in research and performance during medical school	
Future Leader in Preventive Medicine Award (American College of Preventive Medicine)	(2008)
-for promising leadership in epidemiology and public health during medical school	
CTSA Clinical Research Scholar (Duke University/National Institutes of Health)	(2006–2008)
-for excellence in clinical and epidemiologic research during medical school	
Sigma Xi Scientific Research Honor Society (Brown University)	(2003)
-for excellence in academics and research during college	
Biophysics Departmental Honors (Brown University)	(2003)
-for excellence in academics and research during college	
Magna Cum Laude (Brown University)	(2003)
-for excellence in academics and research during college	
Robert C. Byrd Honors Scholarship	(1999)
Eagle Scout (Scouting America [formerly BSA])	(1998)

### **Current Organizational Membership**

American Academy of Neurology (AAN), Fellow (FAAN)  
Epidemic Intelligence Service (EIS) Alumni Association, Lifetime Member  
Infectious Diseases Society of America (IDSA), Member  
Neurohospitalist Society, Member

### **Certificates and Certifications**

Public Health Law Academy Certificate, Centers for Disease Control and Prevention (CDC)  
Incident Command System Certificates (100, 200, 700, 800), Federal Emergency Management Agency (FEMA)  
Basic Life Support (BLS) Certification, American Heart Association  
Skywarn Storm Spotter Certification, National Weather Service



## **Published Manuscripts (as author or co-author)**

Current publication h-index of 25 with over 2,400 total citations (according to Google Scholar)

- 73) Jellins TS, Borko TL, Otero-Bell R, Arnett K, Saunders S, Poisson SN, Orjuela KD, Salehi Omran S, Jones WJ, Leppert M, Madera A, Carlson A, Pastula DM, Sauer BM, Piquet AL, Gonzales NR. Diversity, equity, and inclusion (DEI) in medical education: DEI at the bedside. *J Neurol Sci*. 2024 Mar 7;459:122946. PMID: [38493733](#).
- 72) Ardakani R, Chauhan L, Piquet AL, Tyler KL, Pastula DM. An overview of Saint Louis encephalitis. *Neurohospitalist*. 2024 Apr;14(2):230-231. PMID: [38666278](#).
- 71) Money KM, Cronin J, Guimaraes-Young, A, Carlson A, Lovell MA, Matthews E, Orjuela KD, Pastula DM, Wartchow EP, Piquet AL. CADASIL progression after neurologic infectious insults: Case report of a new pathogenic NOTCH3 mutation. *Neuroimmunology Reports*. 2023. Dec (4).
- 70) Wilson N, Vahey GM, McDonald E, Fitzpatrick K, Lehman J, Clark S, Lindell K, Pastula DM, Perez S, Rhodes H, Gould CV, Staples JE, Martin SW, Cervantes K. Tick bite risk factors and prevention measures in an area with emerging Powassan virus disease. *Public Health Chall*. 2023 Dec;2(4). PMID: [38800642](#).
- 69) Lowe MC, Money KM, Matthews E, Pastula DM, Piquet AL. A case of autoimmune GFAP astrocytopathy with eosinophils in the cerebrospinal fluid. *J Neuroimmunol*. 2023 Dec 15;385:578249. PMID: [37992587](#).
- 68) Borko TL, Baxter R, Cabrera-Martinez B, Thirupathi E, Sabalza M, Venkataraman I, Selva S, Rester C, Sillau S, Pastula DM, Bennett JL, Alvarez E, Gross R, Shah A, Kammeyer R, Corboy JR, Kedl RM, Hsieh EWY, Piquet AL. SARS-CoV-2 mRNA vaccination induces an antigen-specific T cell response correlating with plasma interferon-gamma in B cell depleted patients. *J Neuroimmunol*. 2023 Aug 29;383:578192. PMID: [37666038](#).
- 67) Wolf AB, Money KM, Chandmani A, Daley CL, Griffith DE, Chauhan L, Coffman N, Piquet AL, Tyler KL, Zimmer SM, Montague BT, Mann S, Pastula DM. *Mycobacterium abscessus* meningitis associated with stem cell treatment during medical tourism. *Emerg Infect Dis*. 2023 Aug;29(8):1655-1658. PMID: [37486227](#).
- 66) Money KM, Chauhan L, Piquet AL, Tyler KL, Pastula DM. An overview of Japanese encephalitis. *Neurohospitalist*. 2023 Jul;13(3):328-330. PMID: [37441216](#).
- 65) Kobau R, Luncheon C, Pastula DM, Greenlund KJ. COVID-19 vaccination status and related process of care outcomes among U.S. adults with active epilepsy—National Health Interview Survey, United States, 2021. *Epilepsy Behav*. 2023 Apr 14:109223. Epub ahead of print. PMID: [37119577](#).
- 64) Yong HYF, Pastula DM, Kapadia RK. Diagnosing viral encephalitis and emerging concepts. *Curr Opin Neurol*. 2023 Apr 18. Epub ahead of print. PMID: [37078655](#).
- 63) Money KM, Barnett TA, Rapaka S, Osborn R, Kitani T, Fuguet D, Amjad F, Clark JR, Chakravarty D, Copeland MJ, Honce JM, Kumar PN, Kumar RN, Mousa-Ibrahim F, Sirdar B, Sobota R, Tang M, Bolon MK, Russell EJ, Wilson M, Tornatore C, Batra A, Tyler KL, Pastula DM. Monkeypox-associated central nervous system disease: a case series and review. *Ann Neurol*. 2023 Jan 5. doi: 10.1002/ana.26597. Epub ahead of print. PMID: [36602053](#).
- 62) Drexler NA, Close R, Yaglom HD, Traeger M, Parker K, Venkat H, Villarroel L, Brislan J, Pastula DM,

- Armstrong PA. Morbidity and functional outcomes following rocky mountain spotted fever hospitalization—Arizona, 2002–2017. *Open Forum Infect Dis.* 2022 Oct 5;9(10):ofac506. PMID: [36324320](#).
- 61) Matthews E, Beckham JD, Piquet AL, Tyler KL, Chauhan L, Pastula DM. Herpesvirus-associated encephalitis: an update. *Curr Trop Med Rep.* 2022;9(3):92–100. PMID: [36186545](#).
- 60) Krett JD, Beckham JD, Tyler KL, Piquet AL, Chauhan L, Wallace CJ, Pastula DM, Kapadia RK. Neurology of acute viral infections. *Neurohospitalist.* 2022 Oct;12(4):632–646. PMID: [36147750](#).
- 59) Pastula DM, Copeland MJ, Hannan MC, Rapaka S, Kitani T, Kleiner E, Showler A, Yuen C, Ferriman EM, House J, O'Brien S, Burakoff A, Gupta B, Money KM, Matthews E, Beckham JD, Chauhan L, Piquet AL, Kumar RN, Tornatore CS, Padgett K, O'Laughlin K, Mangla AT, Kumar PN, Tyler KL, O'Connor SM. Two cases of monkeypox-associated encephalomyelitis—Colorado and the District of Columbia, July–August 2022. *MMWR Morb Mortal Wkly Rep.* 2022 Sep 23;71(38):1212–1215. PMID: [36136957](#).
- 58) Chauhan L, Matthews E, Piquet AL, Henao-Martinez A, Franco-Paredes C, Tyler KL, Beckham D, Pastula DM. Nervous system manifestations of arboviral infections. *Curr Trop Med Rep.* 2022;9(4):107–118. PMID: [36124288](#).
- 57) Kapadia RK, Staples JE, Gill CM, Fischer M, Khan E, Laven JJ, Panella A, Velez JO, Hughes HR, Brault A, Pastula DM, Gould CV. Severe arboviral neuroinvasive disease in patients on rituximab therapy: a review. *Clin Infect Dis.* 2022 Sep 14:ciac766. Epub ahead of print. PMID: [36103602](#).
- 56) Pastula DM, Tyler KL. An overview of monkeypox virus and its neuroinvasive potential. *Ann Neurol.* 2022 Oct;92(4):527–531. PMID: [35932225](#).
- 55) Matthews E, Chauhan L, Piquet AL, Tyler KL, Pastula DM. An overview of La Crosse virus disease. *Neurohospitalist.* 2022 Jul;12(3):587–588. PMID: [35755222](#).
- 54) Sapkota S, Caruso E, Kobau R, Radhakrishnan L, Jobst B, DeVies J, Tian N, Hogan RE, Zack MM, Pastula DM. Seizure- or epilepsy-related emergency department visits before and during the COVID-19 pandemic - United States, 2019–2021. *MMWR Morb Mortal Wkly Rep.* 2022 May 27;71(21):703–708. PMID: [35617146](#).
- 53) Vahey GM, Wilson N, McDonald E, Fitzpatrick K, Lehman J, Clark S, Lindell K, Pastula DM, Perez S, Rhodes H, Gould CV, Staples JE, Cervantes K, Martin SW. Seroprevalence of Powassan virus infection in an area experiencing a cluster of disease cases: Sussex County, New Jersey, 2019. *Open Forum Infect Dis.* 2022 Jan 17;9(3):ofac023. PMID: [35169592](#).
- 52) Kapadia RK, Gill CM, Baca C, McMenamin C, Kannappan A, Niehaus WN, Tyler KL, Pastula DM, Piquet AL. Enterovirus A71 causing meningoencephalitis and acute flaccid myelitis in a patient receiving rituximab. *J Neuroimmunol.* 2021 Sep 15;358:577639. PMID: [34214953](#).
- 51) Coleman KJ, Chauhan L, Piquet AL, Tyler KL, Pastula DM. An overview of Jamestown Canyon virus disease. *Neurohospitalist.* 2021;11(3):277–278. PMID: [34163560](#).
- 50) Basile AJ, Horiuchi K, Goodman CH, Kosoy O, Panella AJ, Velez JO, Pastula DM, Brault AC, Staples JE, Calvert AE. Development of diagnostic microsphere-based immunoassays for Heartland virus. *J Clin Virol.* 2021 Jan;134:104693. PMID: [33248359](#).
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- 44) Gill CM, Kapadia RK, Beckham JD, Piquet AL, Tyler KL, Pastula DM. Usutu virus disease: a potential problem for North America? *J Neurovirol*. 2020 Apr;26(2):149–154. PMID: [31858483](#).
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- 41) Venkatesan A, Chow FC, Aksamit A, Bartt R, Bleck TP, Jay C, Pastula DM, Roos KL, Rumbaugh J, Saylor D, Cho TA. Building a neuroinfectious disease consensus curriculum. *Neurology*. 2019 Jul 30;93(5):208–216. PMID: [31253643](#).
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- 38) McKay SL, Lee AD, Lopez AS, Nix WA, Dooling KL, Keaton AA, Spence-Davison E, Herlihy R, Clark TA, Hopkins SE, Pastula DM, Sejvar JJ, Oberste MS, Pallansch MA, Patel M, Routh JA. Increase in acute flaccid myelitis — United States, 2018. *MMWR Morb Mortal Wkly Rep*. 2018 Nov 16;67(45):1273–1275. PMID: [30439867](#).
- 37) Sapkota S, Kobau R, Pastula DM, Zack MM. Close to 1 million US adults aged 55 years or older have active epilepsy—National Health Interview Survey, 2010, 2013, and 2015. *Epilepsy Behav*. 2018 Aug 2. pii: S1525-5050(18)30488–8. PMID: [30078516](#).
- 36) Carlson AL, Pastula DM, Lambert AJ, Staples JE, Muehlenbachs A, Turabelidze G, Eby CS, Keller J, Hess B, Buller RS, Storch GA, Byrnes K, Dehner L, Kirmani N, Kuhlmann FM. Heartland virus and hemophagocytic lymphohistiocytosis in immunocompromised patient, Missouri, USA. *Emerg Infect Dis*. 2018 May;24(5):893–897. PMID: [29664369](#).
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- with elongation of the hyoid bone. *Neurohospitalist* 2018 Jan;8(1):35–37. PMID: [29276562](#).
- 33) Sapkota S, Kobau R, Pastula DM, Zack MM. People with epilepsy are diagnosed most often with unspecified epilepsy, followed by focal epilepsy, generalized convulsive epilepsy, and generalized nonconvulsive epilepsy—US MarketScan data, 2010–2015. *Epilepsy Behav.* 2018 Feb;79:244–246. PMID: [29249447](#).
- 32) Hennessey MJ, Pastula DM, Machesky K, Fischer M, Lindsey NP, DiOrio M, Staples JE, de Fijter S. Investigation of Acute Flaccid Paralysis Reported with La Crosse Virus Infection, Ohio, USA, 2008–2014. *Emerg Infect Dis* 2017 Dec;23(12):2075–2077. PMID: [29148398](#).
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- 25) Smith DE, Beckham JD, Tyler KL, Pastula DM. Zika virus disease for neurologists. *Neurol Clin Pract* 2016 Dec;6(6):515–522. PMID: [28058206](#).
- 24) Pastula DM, Khan AS, Sharp TM, Biaukula VL, Naivalu TK, Rafai E, Ermias Belay, Staples JE, Fischer M, Kosoy OI, Laven JJ, Bennett EJ, Jenney AWJ, Naidu RN, Lanciotti RS, Galloway RL, Nilles EJ, Sejvar JJ, Kama M. Investigation of a Guillain-Barré syndrome cluster in the Republic of Fiji. *J Neurol Sci* 2017 Jan 15;372:350–355. PMID: [27842986](#).
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- 19) Aliabadi N, Messacar K, Pastula DM, Robinson CC, Leshem E, Sejvar JJ, Nix WA, Oberste MS, Feikin DR, Dominguez SR. Enterovirus D68 infection in children with acute flaccid myelitis, Colorado, USA, 2014. *Emerg Infect Dis* 2016 Aug;22(8):1387–94. PMID: [27434186](#).
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  - 1) Pastula DM, Bedlack RS. Amyotrophic lateral sclerosis: progress since Lou Gehrig. Fed Pract 2007 May; 24(5):66–72.

#### **Published Manuscripts (as collaborator or contributor)**

- 2) Nelson CA, Meaney-Delman D, Fleck-Derderian S, Cooley KM, Yu PA, Mead PS; Contributors. Antimicrobial Treatment and Prophylaxis of Plague: Recommendations for naturally acquired infections and bioterrorism response. MMWR Recomm Rep 2021 Jul 16;70(3):1–27. PMID: [34264565](#).
- 1) Johnston SC, Easton JD, Farrant M, Barsan W, Conwit RA, Elm JJ, Kim AS, Lindblad AS, Palesch YY; Clinical Research Collaboration, Neurological Emergencies Treatment Trials Network, and the POINT Investigators. Clopidogrel and aspirin in acute ischemic stroke and high-risk TIA. N Engl J Med. 2018 Jul 19;379(3):215–225. PMID: [29766750](#).

#### **Published Response Letters**

- 2) Money KM, Kitani T, Pastula DM. Reply to "MOG-IgG-associated bilateral optic neuritis in temporal relation to monkeypox vaccination" [published online ahead of print, 2023 Apr 10]. Ann Neurol. 2023;10.1002/ana.26660.
- 1) Matthews E, Tyler KL, Pelak VS, Pastula DM. Beware of abbreviations: John Cunningham (JC) versus Jamestown Canyon virus. Br J Ophthalmol. 2021. In response to: Muqit MM, Devonport H, Smith RA, Dhillon B. Presumptive Jamestown Canyon viral retinitis. Br J Ophthalmol. 2008;92(12):1599–1696.

#### **Published Book Chapters**

- 5) Kapadia RK, Pastula DM, Glaser CA. Parainfectious and postinfectious neurologic syndromes. In: Long SS,

Prober CG, Fischer M, Kimberlin D, eds. Principles and Practice of Pediatric Infectious Diseases. 6<sup>th</sup> edition. Amsterdam, Netherlands: Elsevier Inc.; May 2022: Chapter 45.

- 4) Piquet AL, Pastula DM, Beckham JD, Tyler KL. Infections, immunodeficiency, and complications of immunomodulatory therapies in neuroimmunology. In: Piquet A and Alvarez E, eds. Neuroimmunology. 1<sup>st</sup> edition. Switzerland: Springer Nature; March 2021: Chapter 25.
- 3) Smith DE, Beckham JD, Pastula DM, Tyler KL. Neurological manifestations of West Nile virus. In: Nath A and Berger JB, eds. Clinical Neurovirology. 2<sup>nd</sup> edition. Boca Raton, FL: CRC Press; May 2020: Chapter 14.
- 2) Pastula DM, Tyler KL. Coltiviruses (Colorado tick fever virus) and seadornaviruses. In: Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 9th Edition. Amsterdam, Netherlands: Elsevier Inc.; August 2019: Chapter 149.
- 1) Bedlack RS, Torres SS, Pastula DM. Reversible upper and lower motor neuron disease persisting long after infliximab therapy. In: Dyck PJ, ed. Companion to Peripheral Neuropathy: Illustrated Cases and New Development. 1<sup>st</sup> edition. Amsterdam, Netherlands: Elsevier Inc.; March 2010: Chapter 54.

### **Published Technical Documents, Informational Websites, and Public Guidances**

- 43) CDC. [Epilepsy: Types of seizures](#). March 2024.
- 42) Kretschmer MJ, Pastula DM. [Diagnosis and management of West Nile virus infection: a case based approach](#). Medscape CME & Education. April 2023.
- 41) CDPHE. Allergy season and respiratory illnesses. March 2023.
- 40) CDPHE. Long COVID (Post-COVID conditions). February 2023.
- 39) CDC. [Interim clinical treatment considerations for severe manifestations of mpox](#). March 2023.
- 38) CDPHE. COVID-19: Indoor air quality. February 2022.
- 37) CDPHE. COVID-19: N95 respirators. January 2022.
- 36) CDPHE. COVID-19: Vaccines and fertility. September 2021.
- 35) CDPHE. COVID-19: How to protect against the delta variant of the COVID-19 virus. September 2021.
- 34) CDPHE. COVID-19: People with underlying medical conditions. July 2021. Updated November 2021, May 2022.
- 33) CDPHE. COVID-19: General questions and answers. February 2021. Updated March 2021, January 2023.
- 32) CDPHE. COVID-19: Vaccine FAQ for phase 1 employers and long-term care facilities (LTCF). January 2021.
- 31) CDPHE. COVID-19: Getting the second dose of COVID-19 vaccine. January 2021.
- 30) CDPHE. COVID-19: Vaccine frequently asked questions. December 2020. Updated April 2021, July 2021, December 2022, May 2023.
- 29) CDORA. COVID-19: Additional guidance for salons, spas, and sole practitioners of personal services. November 2020.
- 28) CDPHE. COVID-19: Critical infrastructure worker guidance. November 2020. Updated December 2020.
- 27) CDPHE. COVID-19: Guidance for public transportation. November 2020.
- 26) CDPHE. COVID-19: Guidance for Colorado ski areas and resorts. October 2020.
- 25) CDPHE. COVID-19: Halloween tips and tricks. October 2020.
- 24) CDPHE. [COVID-19: Ventilation and HVAC guidance](#). September 2020.

- 23) CDPHE. COVID-19: Workplace outbreak guidance. August 2020. Updated September 2020, November 2020, December 2020, February 2021, June 2021, January 2022, January 2023, May 2023.
- 22) CDPHE. COVID-19: Best practices for managing the risks of COVID-19 and wildfires. August 2020.
- 21) CDPHE. COVID-19: How to quarantine. August 2020. Updated December 2020, June 2021.
- 20) CDPHE. COVID-19: How to isolate. August 2020. Updated September 2020, March 2021, October 2022
- 19) CDPHE. COVID-19: Guidance for wearing masks. July 2020. Updated November 2020, July 2021, January 2022, October 2022.
- 18) CDPHE. COVID-19: Guidance for residential camps. June 2020. Updated April 2021, June 2021, July 2022, May 2023.
- 17) CDPHE. COVID-19: Guidance for indoor events. June 2020. Updated November 2020, June 2021.
- 16) CDPHE. COVID-19: Guidance for outdoor events. June 2020. Updated November 2020, May 2021.
- 15) CDPHE. COVID-19: Guidance for higher education. June 2020. Updated April 2021.
- 14) CDPHE. COVID-19: Guidance for personal services. June 2020. Updated September 2020, June 2021.
- 13) CDPHE. COVID-19: Guidance for day camps. June 2020. Updated June 2021.
- 12) CDPHE. COVID-19: Guidance for short term rentals. June 2020. Updated June 2021.
- 11) CDPHE. COVID-19: Guidance for outdoor recreation. June 2020. Updated June 2021.
- 10) CDPHE. COVID-19: Guidance for personal recreation. June 2020. Updated June 2021.
- 9) CDPHE. COVID-19: Guidance for places of worship. June 2020. Updated December 2020, June 2021.
- 8) CDPHE. COVID-19: Preventing, reporting and mitigating workplace and non-health care, non-residential facility outbreaks. May 2020. Updated July 2020.
- 7) CDC. [Jamestown Canyon virus](#). CDC informational website. October 2019. Updated May 2022.
- 6) CDC. [Zika virus: Information for clinicians](#). CDC technical presentation. September 2019.
- 5) Pastula DM, Fisher RS. [The new seizure terminology: How to classify and describe a seizure](#). Medscape CDC Expert Commentary article. November 2018.
- 4) CDC, et al. Acute flaccid myelitis: Interim considerations for clinical management. CDC technical document. November 2018.
- 3) CDC. [West Nile virus disease therapeutics: review of the literature for healthcare providers](#). CDC technical document. February 2018.
- 2) CDC, et al. Acute flaccid myelitis: Interim considerations for clinical management. CDC technical document. November 2014.
- 1) Pastula DM, Oddone EZ, Allen KD, Bedlack RS. Amyotrophic lateral sclerosis: information for service members and families. U.S. Department of Defense, Deployment Readiness Fact Sheet. July 2008.

### **Scientific Abstracts & Posters (Author or Co-Author)**

- 27) Haigo S, Ardakani R, Zenggang P, Pollyea D, Pastula DM, Piquet AL. Chronic myelomonocytic leukemia (CMML) presenting with numb chin syndrome and intractable headache. American Academy of Neurology Annual Meeting. Denver, CO. April 2024.
- 26) Lowe M, Ardakani R, Schmitt B, Crane P, Matthews E, Pastula DM, Piquet AL. A case of Septin-7 antibody-associated encephalitis associated with seizures and squamous cell lung carcinoma. American Academy of Neurology Annual Meeting. Denver, CO. April 2024.
- 25) Ardakani R, Schmitt B, Carlson A, Wolf A, Tyler KL, Pastula DM, Piquet AL. JC virus granule cell



- neuronopathy mimicking paraneoplastic cerebellar degeneration. American Academy of Neurology Annual Meeting. Denver, CO. April 2024.
- 24) Guistolisi S, Kelly S, Van Haren K, Ardakani R, Money K, Pelak V, Chauhan L, Kung V, Ragole T, Pastula DM, Carlson A. Adrenoleukodystrophy masquerading as chronic immune demyelinating polyradiculoneuropathy in a patient with HIV. American Academy of Neurology Annual Meeting. Denver, CO. April 2024.
- 23) Caldwell A, Money KM, Pastula DM. Immune reconstitution inflammatory syndrome (IRIS) causing acute obstructive hydrocephalus in a patient with polyomavirus cerebellar granule cell neuronopathy. Neurohospitalist Society Annual Meeting, Chicago, IL. October 2023.
- 22) Lowe MC, Money KM, Wilson C, Matthews E, Pastula DM, Piquet AL. Autoimmune glial fibrillary acidic protein (GFAP) astrocytopathy causing an eosinophilic meningoencephalomyelitis. American Neurological Association Annual Meeting, Philadelphia, PA. September 2023.
- 21) Chandnani A, Wolf AB, Money KM, Daley CL, Griffith DE, Chauhan L, Coffman N, Piquet AL, Tyler KL, Zimmer SM, Montague BT, Mann S, Pastula DM. *Mycobacterium abscessus* meningitis associated with intrathecal stem cell injections during medical tourism. Society for General Internal Medicine Conference, Aurora, CO. April 2023.
- 20) Garza M, Matthews E, Sauer B, Engebretson E, Valdez B, Sillau S, Simpson J, Pastula DM, Carlson A, Piquet AL. A retrospective review on encephalitis at the University of Colorado and a proposed diagnostic approach. American Academy of Neurology Annual Meeting, Boston, MA. April 2023.
- 19) Money KM, Hannan MC, Kleiner E, Yuen C, Ferriman EM, Matthews E, Beckham JD, Chauhan L, Piquet AL, Pastula DM. A case of mpox (monkeypox)-associated encephalomyelitis. American Academy of Neurology Annual Meeting, Boston, MA. April 2023.
- 18) Borko TL, Selva S, Baxter R, Cabrera-Martinex B, Rester C, Sillau S, Pastula DM, Sabalza M, Venkataraman I, Bennett JL, Alvarez E, Gross R, Shah A, Kammeyer R, Vollmer TL, Corboy JR, Kedl R, Hsieh E, Piquet AL. An observational study on the humoral and cellular immune response to SARS-CoV-2 mRNA vaccination in multiple sclerosis and other autoimmune neurological disorders treated with anti-CD20 therapies. American Academy of Neurology Summer Conference, San Francisco, CA. July 2022.
- 17) Borko TL, Selva S, Baxter R, Cabrera-Martinex B, Rester C, Sillau S, Pastula DM, Sabalza M, Venkataraman I, Bennett JL, Alvarez E, Gross R, Shah A, Kammeyer R, Vollmer TL, Corboy JR, Kedl R, Hsieh E, Piquet AL. An observational study on the humoral and cellular immune response to SARS-CoV-2 mRNA vaccination in multiple sclerosis and other autoimmune neurological disorders treated with anti-CD20 therapies. American Academy of Neurology Annual Meeting, Seattle, WA. April 2022.
- 16) Yu C, Walczyk A, Honce JM, Beck NM, Taylor M, Pastula DM. Acute Horner syndrome and brachial plexopathy associated with longus colli injury. Neurohospitalist Society Conference, San Francisco, CA. October 2020. (Virtual due to COVID-19 pandemic)
- 15) Vahey GM, Wilson N, Perez S, McDonald E, Baldwin M, Clark S, Fitzpatrick K, Lehman J, Lindell K, McDonald J, Pastula DM, Rhodes H, Staples JE, Gould C, Martin S, Cervantes K. Cluster of Powassan Virus Disease Cases and Seroprevalence of Infection — Sussex County, New Jersey, 2019. CSTE Conference, Seattle, WA. July 2020. (Cancelled due to COVID-19 pandemic)
- 14) Beattie J, Parajuli S, Sanger M, Lee G, Pleninger P, Crowley G, Kwon S, Murthy V, Manko J, Caplan A,

- Dufort E, Staples JE, Pastula DM, Nolan A. Zika virus-associated Guillain-Barré syndrome in a returning United States traveler. American Thoracic Society Conference, Washington, DC. May 2017.
- 13) Dirlikov E, Major C, Mayshack M, Salinas JL, Virgen C, Pastula DM, Sejvar JJ, Sharp T, Rivera-Garcia B. Epidemiologic surveillance of Guillain-Barré syndrome in association with Zika virus infection—Puerto Rico, 2016. ASTMH Conference, Atlanta, GA. November 2016.
  - 12) Aliabadi N, Messacar K, Pastula DM, Leshem E, Robinson CC, Nix WA, Oberste S, Sejvar JJ, Feiken D, Dominguez S. A case control study of acute flaccid myelitis (AFM) and enterovirus-D68 (EV-D68), Colorado (CO), 2014. IDSA ID Week Conference, San Diego, CA. October 2015.
  - 11) Aliabadi N, Lopez A, Kambhampati A, Shioda K, Cortese M, Pastula DM, Leshem E, Gregoricus N, Nix WA, Oberste S, Fischer M, Leung J, Miller L, Dominguez S, Engel J, Seward K, Feiken D, Sejvar JJ, Pallansch M. Investigation of pediatric acute flaccid myelitis in the United States, 2014. CSTE Conference, Boston, MA. June 2015.
  - 10) Pastula DM, Turabelidze G, Yates KF, Turabelidze G, Yates KF, Jones TF, Lambert AJ, Panella AJ, Kosoy OI, Velez JO, Fisher M, Staples JE. Heartland virus disease—Missouri, 2012–2014. CDC EIS Conference, Atlanta, GA. April 2015.
  - 9) Pastula DM, Hancock WT, Bel M, Biggs H, Marfel M, Lanciotti R, Laven J, Chen TH, Staples JE, Fischer M, Hills SL. First chikungunya outbreak in Micronesia—Yap State, Federated States of Micronesia, 2013. CDC EIS Conference, Atlanta, GA. April 2014.
  - 8) Pastula DM, Moore DH, Bedlack RS. Creatine in amyotrophic lateral sclerosis. UCSF Neurology Fishman Conference, San Francisco, CA. May 2013.
  - 7) Wise M, Llata E, Ogden C, Pastula DM, Sunenshine R, Srinivasan A. Outbreak of multidrug resistant *Acinetobacter baumannii* in a burn unit—Arizona 2008. Society for Healthcare Epidemiology of America Meeting, San Diego, CA. March 2009.
  - 6) Kim CY, Schillie SF, Carmean J, Kippes C, Arendt A, Napolitano J, Johnson M, Pastula DM, Noble-Wang J, Arduino MJ, Patel PR. Outbreak of bloodstream infections at an outpatient dialysis center—Ohio 2008. Society for Healthcare Epidemiology of America Meeting, San Diego CA. March 2009.
  - 5) Pastula DM, Coffman CJ, Allen KD, Oddone EZ, Kasarskis EJ, Lindquist JH, Morgenlander JC, Norman BB, Rozear MP, Sams LA, Sabet A, Bedlack RS. The survival of U.S. military veterans with ALS. U.S. Public Health Service Symposium, Tucson, AZ. June 2008.
  - 4) Pastula DM, Coffman CJ, Allen KD, Oddone EZ, Kasarskis EJ, Lindquist JH, Morgenlander JC, Norman BB, Rozear MP, Sams LA, Sabet A, Bedlack RS. The survival of U.S. military veterans with ALS. American Academy of Neurology Annual Meeting, Chicago, IL. April 2008.
  - 3) Bedlack RS, Pastula DM, Welsh E, Pulley D, Cudkowicz ME. Scrutinizing enrollment in ALS clinical trials: room for improvement? American Academy of Neurology Annual Meeting, Chicago, IL. April 2008.
  - 2) Pastula DM, Coffman CJ, Allen KD, Oddone EZ, Kasarskis EJ, Lindquist JH, Morgenlander JC, Norman BB, Rozear MP, Sams LA, Sabet A, Bedlack RS. The survival of U.S. military veterans with ALS. World Motor Neuron Disease Association Conference, Toronto, ON. December 2007.
  - 1) Bedlack RS, Pastula DM, Hawes J, Heydt D. A pilot trial of levetiracetam for cramps and spasticity in patients with motor neuron disease. World Motor Neuron Disease Association Conference, Toronto, ON. December 2007.

## **Invited Scientific and Educational Talks**

### Local Talks Given to Students, Residents, and Fellows

- 41) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. June 2024.
- 40) Meandering into neuro-infectious diseases and public health. Infectious Diseases Interest Group, University of Colorado, Aurora, CO. June 2024.
- 39) Arboviral diseases. ID fellow lecture series, University of Colorado, Aurora, CO. November 2023.
- 38) Arboviral diseases. Neurohospitalist and stroke fellow didactics, University of Colorado, Aurora, CO. November 2023.
- 37) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. May 2023.
- 36) Emerging neuroinvasive viruses, Animal Virology (MCDB 5750) undergraduate course, University of Colorado, Boulder, CO. March 2023.
- 35) Emerging neuro-infectious diseases, Advanced neurosciences (IDPT 8037) medical student course, University of Colorado, Aurora, CO. December 2022.
- 34) Introduction to public health and epidemiology. Longitudinal Integrated Clerkship (LIC) medical student course, University of Colorado, Aurora, CO. November 2022.
- 33) The COVID-19 pandemic in hindsight: What can we learn? Neurology residency lecture series, University of Colorado, Aurora, CO. March 2022.
- 32) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2022.
- 31) Arboviral diseases. ID fellow lecture series, University of Colorado, Aurora, CO. March 2022.
- 30) Omicron variant of COVID-19. Global health track seminar. Colorado School of Public Health, Aurora, CO. January 2022.
- 29) 2020 in hindsight: The COVID-19 pandemic. Animal Virology (MCDB 5750) undergraduate course, University of Colorado, Boulder, CO. March 2021.
- 28) CDC Epidemic Intelligence Service. Colorado School of Public Health, Fort Collins, CO. March 2021.
- 27) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2021.
- 26) Arboviral diseases. Neurohospitalist and stroke fellow didactics, University of Colorado, Aurora, CO. June 2020.
- 25) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2020.
- 24) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2019.
- 23) Tick-borne viruses. Animal Virology (MCDB 5750) undergraduate course, University of Colorado, Boulder, CO. March 2019.
- 22) A discussion about acute flaccid myelitis. Student Interest Group in Neurology (SIGN), University of Colorado, Aurora, CO. January 2019.
- 21) Arboviral diseases. Neurohospitalist and stroke fellow didactics, University of Colorado, Aurora, CO. November 2018.
- 20) Zika virus disease. Animal Virology (MCDB 5750) undergraduate course, University of Colorado, Boulder, CO. March 2018.
- 19) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2018.
- 18) Zika virus disease. Animal Virology (MCDB 5750) undergraduate course, University of Colorado, Boulder, CO. April 2017.

- 17) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2017.
- 16) Zika virus disease. Introduction to Global Health seminar, Colorado School of Public Health, Aurora, CO. November 2016.
- 15) Zika virus disease. Outbreak investigations course, Boston University School of Public Health, Boston, MA. November 2016.
- 14) Arboviral diseases around the world. Global Health and Disasters course, University of Colorado, Aurora, CO. November 2015.
- 13) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2015.
- 12) Seizures 101. Family medicine residency lecture series, Poudre Valley Hospital, Fort Collins, CO. February 2015.
- 11) CDC Epidemic Intelligence Service. Colorado School of Public Health, Fort Collins, CO. December 2013.
- 10) A case of nitrous oxide myelopathy. Neurology weekly conference, UCSF, San Francisco, CA. January 2013.
- 9) Antiepileptic hypersensitivity syndrome. Neurology weekly conference, UCSF, San Francisco, CA. September 2012.
- 8) Seizures 101. Internal medicine noon conference, SFGH, San Francisco, CA. April 2012.
- 7) A case of corticobasal syndrome. Neurology weekly conference, UCSF, San Francisco, CA. February 2012.
- 6) A case of carotid artery dissection. Neurology weekly conference, UCSF, San Francisco, CA. November 2011.
- 5) Traumatic brain injury and concussions. Neurology weekly conference, UCSF, San Francisco, CA. November 2011.
- 4) Seizures 101. Internal medicine noon conference, San Francisco VAMC, San Francisco, CA. September 2011.
- 3) The California Encephalitis Project. Neurology weekly conference, San Francisco VAMC, San Francisco, CA. June 2011.
- 2) A case of autoimmune leukoencephalopathy. Neurology weekly conference, UCSF, San Francisco, CA. April 2011.
- 1) The epidemiology of ALS. Neurology weekly conference, San Francisco VAMC, San Francisco, CA. January 2011.

### Regional Talks

- 31) Public health legal authority. Colorado updates in public health, Colorado Project ECHO Conference, Denver, CO. February 2024.
- 30) West Nile virus and B-cell depleting therapies. Patient webinar, Rocky Mountain Multiple Sclerosis Center, Aurora, CO. August 2023.
- 29) Neurology in the Republic of Fiji. Neurology grand rounds, University of Colorado, Aurora, CO. June 2023.
- 28) Clinical tests and statistics 2. Epi Grande meeting, Division of Communicable Diseases, CDPHE, Denver, CO. July 2023.
- 27) Clinical tests and statistics 1. Epi Grande meeting, Division of Communicable Diseases, CDPHE,

- Denver, CO. June 2023.
- 26) Emerging infectious diseases and climate change. Climate and Health Program Conference, University of Colorado, Aurora, CO. January 2023.
  - 25) Public health legal authority. Colorado Updates in Public Health, Colorado Project ECHO Conference, Denver, CO. January 2023.
  - 24) Public health legal authority. Epi Grande meeting, Division of Communicable Diseases, CDPHE, Denver, CO. January 2023.
  - 23) Monkeypox virus and disease. University of Colorado HIV/AIDS Community Advisory Board, Aurora, CO. November 2022.
  - 22) Public health legal authority. Medical Guidance Unit, CDPHE, Denver, CO. November 2022.
  - 21) Monkeypox and the 2022 outbreak. Epi Grande meeting, Division of Communicable Diseases, CDPHE, Denver, CO. October 2022.
  - 20) The COVID-19 pandemic in hindsight: What can we learn? Medical Guidance Unit, CDPHE, Denver, CO. March 2022.
  - 19) 2020 in hindsight: The COVID-19 pandemic. Infectious diseases grand rounds, University of Colorado, Aurora, CO. February 2021.
  - 18) COVID-19 transmission: Rationale behind COVID-19 guidances. Colorado Department of Revenue, Denver, CO. October 2020.
  - 17) COVID-19 prevention in outdoor restaurant design. Colorado Restaurant Association workshop, Denver, CO. October 2020.
  - 16) Acute flaccid myelitis in 3 dimensions: Clinical features, epidemiology, and mouse model of disease. Neurology grand rounds, University of Colorado, Aurora, CO. September 2020.
  - 15) COVID-19 transmission, risks, and mitigation. Colorado Parks and Recreation Association, Denver, CO. September 2020.
  - 14) COVID-19, Colorado, and neurology. Colorado Society for Clinical Neurology, Denver, CO. June 2020.
  - 13) Viral diagnostics. Industry outbreak team meeting, Colorado Department of Public Health and Environment, Denver, CO. June 2020.
  - 12) Tick-borne viruses. Neurology grand rounds, University of Colorado, Aurora, CO. July 2019.
  - 11) Mosquitoes and ticks suck: Arboviral diseases. University of Colorado Family Medicine Review conference, Aurora, CO. November 2018.
  - 10) Mosquitoes and ticks suck: Arboviral diseases. University of Colorado Family Medicine Review conference, Estes Park, CO. June 2018.
  - 9) Arboviral diseases. Colorado Academy of Physician Assistants conference, Copper Mountain, CO. February 2018.
  - 8) Zika virus disease. Colorado Academy of Physician Assistants conference, Copper Mountain, CO. February 2017.
  - 7) Zika virus disease. Bugs and Drugs conference, University of Colorado, Aurora, CO. October 2016.
  - 6) Zika virus disease. Epidemiology seminar, Colorado School of Public Health, Aurora, CO. June 2016.
  - 5) Zika virus disease. Neurology grand rounds, University of Colorado, Aurora, CO. April 2016.
  - 4) Arboviral diseases. Infectious diseases grand rounds, University of Colorado, Aurora, CO. April 2016.
  - 3) Heartland virus disease. CDC Division of Vector-Borne Diseases seminar, Fort Collins, CO. March 2015.

- 2) A novel virus (Bourbon virus) associated with fatal human disease. CDC Division of Vector-Borne Diseases Seminar, Fort Collins, CO. December 2014.
- 1) Jamestown Canyon virus disease. North American Vector Control Association Conference, Fort Collins, CO. May 2014.

### National Talks

- 26) Surveillance strategies for emerging neuro-infections: Arboviral surveillance in the United States. Annual Meeting, American Academy of Neurology, Denver, CO. April 2024.
- 25) Emerging viruses. Emerging Neuro-Infections Course, Annual Meeting, American Academy of Neurology, Denver, CO. April 2024.
- 24) Complications of immune therapy (panel discussant). AAN Autoimmune Neurology Education Conference. March 2024.
- 23) Emerging viruses. Emerging Neuro-Infections Course, Annual Meeting, American Academy of Neurology, Boston, MA. April 2023.
- 22) Climate change and neurology. Annual Meeting, American Academy of Neurology, Boston, MA. April 2023.
- 21) Mpox (monkeypox) virus and its neuroinvasive potential. Kaiser Permanente Neurology grand rounds, Los Angeles, CA. February 2023.
- 20) Monkeypox virus and its neuroinvasive potential. International Symposium of Neurovirology, International Society for Neurovirology, Philadelphia, PA. October 2022.
- 19) Two cases of monkeypox-associated encephalomyelitis. CHANT Infectious diseases conference, Massachusetts General Hospital, Boston, MA. September 2022.
- 18) A case of monkeypox-associated encephalomyelitis. CDC Monkeypox Response Team conference, Atlanta, GA. August 2022.
- 17) Emerging viruses. Emerging Neuro-Infections Course, Annual Meeting, American Academy of Neurology, Seattle, WA. April 2022.
- 16) COVID-19 in hindsight: What can we learn? Fall Conference, American Academy of Neurology, Minneapolis, MN. November 2021.
- 15) The COVID-19 pandemic in hindsight: What can we learn? Texas Neurological Society Conference, Austin, TX. July 2021.
- 14) What exactly is health services research? Joint CDC-NIH conference, National Institute of Neurological Disorders and Stroke (NINDS) and NIH, Bethesda, MD. June 2021.
- 13) 2020 in hindsight: the COVID-19 pandemic. Keynote address, Health career conference, St. Mary's University, San Antonio, TX. February 2021.
- 12) Usutu virus and blood donation. Food and Drug Administration (FDA), Silver Spring, MD. December 2019.
- 11) Tick-borne viruses. Annual Meeting, American Academy of Neurology, Philadelphia, PA. May 2019.
- 10) Zika virus disease. Neurology ground rounds, University of Iowa, Iowa City, IA. May 2018.
- 9) Re-emerging arboviral diseases. Breakthroughs in Neurology conference, American Academy of Neurology, Orlando, FL. January 2018.
- 8) Re-emerging arboviral diseases. Neurohospitalist Society conference, Seattle, WA. September 2017.
- 7) EMGs and NCS for epidemiologists. CDC botulism team rounds, Atlanta, GA. November 2015.

- 6) Heartland virus disease. CDC EIS conference, Atlanta, GA. April 2015.
- 5) Heartland virus disease. CDC Tuesday morning seminar, Atlanta, GA. April 2015.
- 4) Jamestown Canyon virus disease. CDC EIS fall course, Atlanta, GA. December 2014.
- 3) First chikungunya outbreak in Micronesia. CDC EIS conference, Atlanta, GA. April 2014.
- 2) The epidemiology of ALS. Occupational medicine grand rounds, Duke University, Durham, NC. September 2007.
- 1) The survival of U.S. military veterans with ALS. Neurology grand rounds, Duke University, Durham, NC. August 2007.

#### Global or International Talks

- 9) Vigilance against old, new, and unexpected viruses. Annual Meeting, American Academy of Neurology, Toronto, Ontario, Canada. April 2020. (Invited but cancelled emergently because of the COVID-19 pandemic).
- 8) Arboviral diseases: from alphaviruses to Zika. Neurology grand rounds, University of Puerto Rico, San Juan, Puerto Rico. March 2016.
- 7) Chikungunya virus disease. Presentation, Department of Tourism, U.S. Virgin Islands. June 2014.
- 6) Chikungunya virus disease. Hospital grand rounds, Juan Luis Hospital, St. Croix, U.S. Virgin Islands. June 2014.
- 5) Chikungunya virus disease. Hospital grand rounds, Roy Schneider Hospital, St. Thomas, U.S. Virgin Islands. June 2014.
- 4) Guillain-Barré syndrome. Hospital grand rounds, Labassa Hospital, Labassa, Fiji. May 2014.
- 3) Guillain-Barré syndrome. Hospital grand rounds, Lautoka Hospital, Lautoka, Fiji. May 2014.
- 2) Seizures 101. Hospital grand rounds, Yap Memorial Hospital, Yap, Micronesia. November 2013.
- 1) Chikungunya virus disease. Hospital grand rounds, Yap Memorial Hospital, Yap, Micronesia. October 2013.

#### Scientific and Peer Reviewer

American Academy of Neurology, Neurobytes podcast  
 American Academy of Neurology, Neuro-infectious diseases section  
 American Journal of Tropical Medicine & Hygiene  
 Annals of Neurology  
 Archives of Virology  
 Brain and Behavior  
 Centers for Disease Control and Prevention, Clearance process  
 Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report (MMWR)  
 Clinical Neurology and Neuroscience  
 Emerging Infectious Diseases  
 JAMA Neurology  
 Journal of Neurovirology  
 Neurohospitalist  
 Neurology Clinical Practice  
 Vaccine

## **Official Mentees**

Lakshmi Chauhan, MD, Assistant Professor of Medicine (Infectious Diseases), University of Colorado

-Currently an assistant professor of medicine (infectious diseases) at University of Colorado

Thomas Ragole, MD, Assistant Professor of Neurology, University of Colorado

-Currently an assistant professor of neurology at University of Colorado

Mallory C. Lowe, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado

-Currently a neuro-infectious diseases/autoimmune neurology fellow at University of Colorado

Barrie Schmitt, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado

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