

Daniel M. Pastula, MD, MHS

Neurologist, Medical Epidemiologist, and Public Health Expert

Board Certification: Neurology (2013–present)

Physician Licenses: Colorado (2013–present), Wyoming (2017–present), California (2010–present)

Updated: May 15, 2020

Summary Statement

I am a neurohospitalist/neuro-infectious diseases expert, CDC-trained medical epidemiologist (EIS), and a veteran of the U.S. Public Health Service (USPHS). I have interests and experience in public health, epidemiology, neurohospitalist medicine, neuro-infectious diseases, neurotoxicology, emerging and vector-borne infectious diseases, cluster and outbreak investigations, public health emergency preparedness and response, public policy, global health, and education. I have extensive leadership, supervising, teaching, planning, analytical, budgeting, and media communication experience.

Academic Appointments and Public Health Positions

Affiliate Medical Epidemiologist, Colorado Department of Public Health and Environment (2020–present)

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

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

Board of Health Member (At-Large); State of Colorado (2017–present)

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

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

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

Assistant Professor of Neurology, Medicine (Infectious Diseases), and Epidemiology; University of Colorado and Colorado School of Public Health (2016–2019)

Associate Neurology Clerkship Director, University of Colorado (2015–2018)

Assistant Professor of Neurology, University of Colorado (2015–2016)

Assistant Clinical Professor of Neurology, University of Colorado (2014–2015)

Epidemic Intelligence Service Officer, Centers for Disease Control and Prevention (2013–2015)

Lieutenant Commander (O-4), Medical Officer, U.S. Public Health Service Commissioned Corps (2013–2015)

Neurology Resident/Internal Medicine Intern, University of California San Francisco (2009–2013)

Education and Training

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

-“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 (USPHS) medical

officer for the CDC Arboviral Diseases Branch (ADB) within the Division of Vector-Borne Diseases (DVBD)/National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) in Fort Collins, CO

-Please see other sections for additional details

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

- Co-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)
- Passed American Board of Psychiatry and Neurology (ABPN) neurology board exam with a 93% score

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

- Acquired basic medical science, clinical medicine, environmental medicine, and toxicology skills
- Achieved honors grades in biochemistry, genetics, cell biology, anatomy/physiology, neurobiology, pathology, microbiology, and pharmacology classes
- Achieved 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
- 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

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

- Acquired epidemiology, biostatistics, research methods, and evidenced-based medicine skills
- Designed and critically reviewed epidemiologic, observational, and experimental studies
- Achieved honors in biostatistics, statistical modeling, and research methods classes
- Achieved research honors for an epidemiologic study examining survival in military veterans with ALS
- Co-investigated barriers to ALS patients entering research trials and whether levetiracetam treated muscle cramps
- Performed statistical analyses using SAS Enterprise Guide and Microsoft Excel

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

- Acquired knowledge in biology, physics, chemistry, math, meteorology, history, and architecture
- Earned a GPA of 4.0 and was awarded my degree magna cum laude with biology departmental honors
- Achieved research honors for a project examining occupational radiation exposure during fluoroscopy

Clinical Experience

Affiliate Medical Epidemiologist; Colorado Department of Public Health and Environment; Denver, CO (2020–present)

- Consulted on various COVID-19 clinical cases and outbreaks throughout Colorado
- Please see other sections for additional details

Neurohospitalist/Neuro-Infectious Diseases Attending Physician; University of Colorado Hospital and Denver VA Medical Center; Aurora, CO (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 rural and mountainous areas of Colorado and Wyoming and the Mobile Stroke Treatment Unit (MSTU) in Aurora and Colorado Springs
- Frequently attended on service above my official FTE level of effort given scheduling challenges
- Participated in the Mobile Stroke Treatment Unit (MSTU) program and clinical study
- 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 regularly in neuro-infectious disease fellow case rounds and professors' rounds
- Revised and implemented the emergency department acute headache management pathway
- Triageed consults for consultative neurology and general neurology clinics at UCH and Denver VAMC
- Named as one of Denver 5280 Magazine's "Top Doctors" in neurology for 2018
- Served as a medicolegal consultant regarding inpatient neurologic and neuro-infectious disease cases
- 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; Atlanta, GA and Fort Collins, CO (2015–present)

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

Epidemic Intelligence Service (EIS) Officer and Lieutenant Commander (Medical Officer); Centers for Disease Control and Prevention and U.S. Public Health Service Commissioned Corps; Atlanta, GA and Fort Collins, CO (2013–2015)

- Consulted on various arboviral disease clinical cases from across the U.S. and the world
- Consulted on yellow fever and Japanese encephalitis virus vaccine clinical questions from across U.S.
- Consulted on various neurologic disease clinical cases from across the U.S. and the world
- Consulted on acute flaccid myelitis (AFM)/poliomyelitis clinical cases from across the U.S.
- Co-drafted an acute flaccid myelitis (AFM)/poliomyelitis management guide for the CDC
- Please see other sections for additional details

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

- Supervised the Denver VAMC general neurology outpatient resident clinic monthly as a volunteer
- Independently evaluated and treated patients with various neurologic conditions and diseases
- Please see other sections for additional details

Neurology Resident/Internal Medicine Intern; University of California San Francisco (UCSF) Medical Center; San Francisco, CA (2009–2013)

- Evaluated and treated patients with various acute and chronic neurologic conditions in inpatient, outpatient, and emergency room settings across university, county, 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)
- Please see other sections for additional details

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

- Rotated through 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 (1999–2003)

- Provided volunteer emergency basic life support and first-aid to my hometown community
- Licensed as an emergency medical technician (EMT) basic in the State of New Jersey
- Supervised and taught EMT cadets basic life support skills
- Acquired basic life support, first-aid, disaster response, medical triage, and defensive driving skills

Public Health, Epidemiology, and Policy Experience

Affiliate Medical Epidemiologist; Colorado Department of Public Health and Environment; Denver, CO (2020–present)

- Deployed with CDPHE to assist a mountain county with COVID-19 preparedness and response
- Assisted a local public health agency with designing a drive-up COVID-19 testing site
- Consulted on various COVID-19 clinical cases and outbreaks throughout Colorado
- Educated workplaces, businesses, and local public health agencies on COVID-19 outbreak control
- Researched and drafted statewide guidance on preventing, reporting, and mitigating COVID-19 outbreaks in workplaces and non-health care facilities
- Reviewed and commented on the Colorado Secretary of State’s COVID-19 election preparedness plan

Board of Health Member (At-Large); State of Colorado (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 member to the nine-member Colorado State Board of Health in 2017; re-appointed to the same position by Colorado Governor Jared Polis in 2019
- Recommended by the Colorado Senate Health & Human Services Committee on a 5–0 vote in 2019
- Confirmed by the full Colorado Senate on a 35–0 vote in 2019

- Reviewed technical documents, interacted with stakeholders, and deliberated in open meetings
- Chaired and moderated various rulemaking hearings regarding public health issues
- Voted to approve over \$50 million for cancer, lung, and cardiovascular disease prevention grants
- Voted to approve over \$1 million for HIV prevention grants throughout Colorado
- Voted to approve over \$500 thousand for HIV pre-exposure prophylaxis (PrEP) programs in Colorado
- Voted to approve over \$2 million for research grants investigating the safety and efficacy of standardized marijuana compounds for certain clinical conditions in Colorado
- Voted to create a community paramedic program to better serve the health needs of rural Colorado
- Voted to improve surveillance for chronic diseases, toxic exposures, and drug adverse events
- Voted to improve surveillance for certain emerging infectious diseases and antibiotic resistant bacteria
- Voted to add spinal muscular atrophy (SMA) to the list of newborn screening tests in Colorado
- Voted to improve and standardize food safety and food handling practices throughout Colorado
- Voted to create a state health professional shortage area program to improve access to substance abuse services in underserved rural, mountain, and urban communities throughout Colorado
- Voted to improve ambulance vehicle safety and clarify ambulance requirements throughout Colorado
- Voted to approve over \$2 million in housing stability grants to improve public health in local areas
- Voted to approve a medical marijuana petition pathway requiring peer-reviewed evidence of efficacy
- Voted to require consumer disclosures and limit “surprise” balance billing of patients in Colorado
- Voted to streamline, simplify, and update EMS trauma regulations throughout Colorado
- Voted to approve \$3 million for rural and mountain school districts to hire and retain school nurses
- Visited >80% of Colorado’s 64 counties to better acquaint myself with regions throughout the state

Governor’s Expert Emergency Epidemic Response Committee Member; State of Colorado (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 a Board of Health representative to the GEEERC, attended quarterly meetings, and provided expert epidemic consultation and advice on an emergency basis
- Advised the governor of Colorado and CDPHE leadership on COVID-19 preparedness and response
- Voted to recommend operationalizing CDC recommendations and temporarily close non-essential businesses and venues to immediately increase social distancing during the COVID-19 crisis
- Critically reviewed and voted to authorize Colorado crisis standards of care for EMS, personal protective equipment, and hospitals if needed during the COVID-19 crisis
- Evaluated, critically reviewed, and voted to update Colorado crisis standards of care during the COVID-19 crisis

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

- Streamlined various neuro-infectious and neuroinflammatory disease laboratory diagnostics
- Streamlined processes for reporting neurologic conditions to the Colorado Department of Public Health and Environment (CDPHE)
- Investigated a cluster of Guillain-Barré syndrome (GBS) cases at the University of Colorado Hospital
- Investigated a cluster of cervical dissection cases at the University of Colorado Hospital
- Investigated a cluster of acute flaccid myelitis/poliomyelitis cases at the University of Colorado

Hospital in conjunction with CDPHE

- Collaborated with military physicians to review possible agents of neuro-terrorism/bioterrorism
- Served as a local site investigator for a next-generation sequencing and autoantibody study for patients with unexplained neuroinflammatory conditions in partnership with UCSF
- Co-led COVID-19 outbreak preparedness and response efforts for the Department of Neurology
- Fielded questions and co-implemented policy regarding COVID-19 prevention and protection efforts, assess the emergency situation, meet with stakeholders, and help draft a local media press release and HAN
- Embedded into a CDPHE COVID-19 epidemiology team to support and advise mountain counties
- Mentored residents, fellows, and graduate students in public health writing, cluster/outbreak investigations, and applied epidemiology
- Served on the Colorado School of Public Health MPH admissions committee
- Interviewed or provided expert commentary to print, radio, and television outlets in order to educate clinicians and the public about various neurologic and infectious diseases (including COVID-19)
- Advocated for increased neurologic research funding at the federal level through the American Academy of Neurology's "Neurology on the Hill" Conference
- 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

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

- Served as an arboviral disease subject matter expert (e.g., West Nile, dengue, yellow fever, Zika, chikungunya, EEE, Jamestown Canyon, La Crosse, Heartland, and Bourbon virus diseases)
- Served as a neurologic disease subject matter expert for various other divisions within the CDC
- Consulted on various Zika and arboviral disease clinical cases from across the U.S. and world
- Consulted on various neurologic disease clinical cases from across the U.S. and world
- Consulted on yellow fever and Japanese encephalitis virus vaccine clinical questions from across U.S.
- Reviewed and interpreted arboviral testing results for patients within the U.S. and around the world
- Frequently communicated with state and local health departments regarding arboviral disease cases
- Mentored and taught EIS officers/epidemiology students within the CDC Arboviral Diseases Branch
- Reviewed and classified Zika-associated neurologic disease cases throughout the U.S.
- Created a GBS surveillance form for the CDC Zika response
- Revamped and updated the "Zika for clinicians" presentation for the CDC website
- Reviewed and updated potential West Nile virus treatment strategies for the CDC website
- Drafted fact sheets on the virology, epidemiology, clinical features, and prevention of Cache Valley and Usutu virus diseases
- Co-drafted an informational website on the virology, epidemiology, clinical features, and prevention of Jamestown Canyon virus disease
- Reviewed and updated clinical definitions for ArboNET, the national arboviral surveillance system
- Co-managed an epidemiologic study examining Heartland and Bourbon virus diseases across the U.S.
- Deployed to rural New Jersey to assist with a Powassan virus sero-survey investigation: assisted with

- protocol and questionnaire development, collaborated with state and local health officials, engaged with the community going door-to-door, administered surveys, performed venipuncture, and prepared laboratory samples
- Reviewed Usutu virus literature and presented to the FDA on potential blood safety risk
 - 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 response
 - Consulted on GBS and other neurologic disease clinical cases in Puerto Rico
 - Retrospectively reviewed and abstracted ~150 hospital charts from patients with suspected GBS from hospitals throughout Puerto Rico to establish an approximate baseline incidence
 - Reviewed and abstracted charts of other Zika-associated neurologic cases in Puerto Rico
 - Educated several neurologists in Puerto Rico about neurologic manifestations of Zika virus disease
 - Co-designed and co-implemented a GBS surveillance system in Puerto Rico
 - Educated several epidemiologists throughout Puerto Rico about GBS surveillance and reporting
 - Created a GBS management presentation for PRDH, CDC, and Dept. of Health and Human Services
 - Briefed the Assistant Secretary for Preparedness and Response (ASPR) regarding resource needs in case of a GBS surge
 - Briefed the PRDH territorial epidemiologist and incident command team regarding GBS activities
 - Mentored EIS officers and epidemiologists on the joint PRDH/CDC GBS team in Puerto Rico
 - Co-developed a study protocol and abstraction forms for a Rocky Mountain spotted fever (RMSF) long-term outcome study among several Native American tribal communities in Arizona
 - Deployed to Arizona multiple times to investigate RMSF neurologic sequelae among several Native American tribal communities in Arizona
 - Reviewed and investigated possible links between congenital Zika virus infection and later development of epilepsy
 - Drafted a Medscape article to educate physicians on current seizure terminology
 - Assisted in an epidemiologic review of all diagnosed epilepsy cases within the U.S.
 - Assisted in an epidemiologic review of active epilepsy cases in older adults within the U.S.
 - Assisted in developing study proposals examining potential overlap of seizures and the opiate epidemic
 - Reviewed cases of congenital Zika virus syndrome with motor abnormalities and epilepsy
 - Co-represented CDC at the NIH Interagency Collaborative to Advance Research in Epilepsy (ICARE)
 - Co-represented CDC at the American Epilepsy Society (AES) Conference and met with stakeholders
 - Served on the acute flaccid myelitis team at the CDC within an activated incident command system
 - Reviewed and classified cases of acute flaccid myelitis (AFM) / poliomyelitis throughout the U.S.
 - Co-developed an updated surveillance definition for acute flaccid myelitis with CDC and CSTE
 - Participated in CDC expert roundtables regarding acute flaccid myelitis/poliomyelitis etiologies, diagnoses, and potential treatments
 - Participated in CDC AFM expert focus group to improve recognition and diagnosis of AFM nationally
 - Participated in a joint CDC-Public Health England teleconference to share lessons learned about AFM
 - Co-designed neuro-epidemiologic case report forms for the Division of High Consequence Pathogens and Pathology
 - Assisted in investigating unexplained events among U.S. government personnel living and working

- overseas through protocol/questionnaire development and serving as a neurologic consultant
- Served within incident command system structures during various public health emergencies
- 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 (2013–2015)

- Served as an arboviral disease subject matter expert (e.g., West Nile, dengue, yellow fever, Zika, chikungunya, EEE, Jamestown Canyon, La Crosse, Heartland, and Bourbon virus diseases)
- Served as a neurologic disease subject matter expert for various other divisions within the CDC
- Responded to emergent vector-borne and neurologic public health issues nationally and internationally
- Closely collaborated with several international, national, state, and local health departments
- Consulted on various arboviral disease clinical cases from across the U.S. and world
- Consulted on yellow fever and Japanese encephalitis virus vaccine clinical questions from across U.S.
- Consulted on various neurologic disease clinical cases from across the U.S. and world
- Reviewed arboviral testing results submitted to the CDC Arboviral Diseases Laboratory
- 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 to investigate and review Heartland virus disease cases in Missouri
- Co-managed research studies investigating Heartland virus disease in Missouri and throughout the U.S.
- Wrote a Heartland virus disease “Frequently Asked Questions” (FAQ’s) page for the CDC
- Briefed the Missouri state epidemiologist on Heartland virus disease cases and the research study
- Consulted on Heartland virus and other tick-borne virus disease clinical cases from across the U.S.
- Co-identified a novel thogotovirus (Bourbon virus) associated with a fatality in Kansas
- Evaluated the ability of the national arboviral surveillance system, ArboNET, to detect Jamestown Canyon virus disease cases
- Investigated and researched Jamestown Canyon virus disease cases throughout the U.S.
- Deployed to investigate and manage an outbreak of chikungunya virus disease in Yap, Micronesia
- Briefed the governor and lieutenant governor of Yap State on the chikungunya virus disease outbreak
- Deployed to investigate and manage a chikungunya virus disease outbreak in the U.S. Virgin Islands (USVI)
- Briefed the USVI commissioner of health and territorial epidemiologist on this outbreak
- Co-designed and implemented an arboviral surveillance and reporting system for USVI
- Co-wrote a CDC Health Advisory Notice (HAN 358) regarding chikungunya virus in the Caribbean
- Deployed to investigate a cluster of Guillain-Barré syndrome (GBS) cases during a dengue virus disease outbreak in Fiji with the Fiji Ministry of Health and World Health Organization (WHO)
- Designed, implemented, and analyzed a case-control study investigating risk factors for GBS in Fiji
- Briefed the Fiji deputy secretary of health, WHO representative, and U.S. embassy on this cluster
- Deployed to investigate a cluster of acute neurologic illness of unknown etiology in children in Colorado during an enterovirus D-68 disease outbreak
- Co-led the CDC neuro-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)

- Briefed the Colorado state epidemiologist and CDC division and center leadership on this cluster
- Co-wrote a CDC Health Advisory Notice (HAN 370) regarding acute flaccid myelitis in children
- Co-drafted an acute flaccid myelitis / poliomyelitis management guide for the CDC
- Reviewed and classified cases of acute flaccid myelitis / poliomyelitis throughout the U.S.
- Designed and wrote a research protocol to investigate reports of acute flaccid paralysis associated with La Crosse virus disease in Ohio
- Deployed to Ohio to implement this study and investigate potential cases throughout the state
- Briefed the Ohio state epidemiologist and state medical director on this investigation
- Assisted the Colorado state public health veterinarian in developing a pet quarantine protocol for potential Ebola virus disease
- 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
- Mentored and taught epidemiology elective students rotating through CDC ADB
- Acquired global travel safety and security skills (e.g., U.S. Department of State's High Threat Security Overseas Seminar and CDC's Foreign Travel Safety Briefings)
- Acquired incident command systems, disaster response, and bioterrorism response skills
- Acquired biostatistics, epidemiology, disease surveillance, outbreak response, and media skills
- Interviewed or provided expert commentary to print, radio, and television outlets to educate clinicians and the public about various neurologic and infectious diseases
- Awarded multiple CDC awards for my service, investigations, and research (see below for details)
- Please see other sections for additional details

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

- Served as an active-duty lieutenant commander and medical officer for the U.S. Public Health Service
- Please see the "Uniformed Service" section for additional details

Medical and Graduate Student; Duke University; Durham, NC (2004–2009)

- Designed and critically reviewed epidemiologic, observational, and experimental studies
- Achieved research honors for an epidemiologic study examining survival in military veterans with ALS
- Co-investigated barriers to ALS patients entering research trials and whether levetiracetam treated 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
- Volunteered for the North Carolina Alliance for Health to advocate for a restaurant smoking ban
- Please see other sections for additional details

Teaching and Education Experience

Affiliate Medical Epidemiologist; Colorado Department of Public Health and Environment; Denver, CO (2020–present)

- Educated workplaces, businesses, and local public health agencies on COVID-19 outbreak control
- Please see other sections for additional details

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

- Researched, developed, and wrote a comprehensive international neurology resident rotation proposal
- Worked with the Fiji Ministry of Health and Colonial War Memorial Hospital in Suva, Fiji, to set up an international neurology resident rotation
- 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
- Acquired international travel safety skills and attended multiple CDC Foreign Travel Safety Briefings

Neuro-Infectious Diseases/Autoimmune Neurology Fellowship Director; University of Colorado; Aurora, CO (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/autoimmune neurology fellowship
- Developed and coordinated weekly neuro-infectious diseases / autoimmune neurology fellow rounds
- Led the neuro-infectious diseases/autoimmune neurology fellowship recruitment committee
- Served as course director for the neuro-infectious disease lecture series for the neurology residents
- Co-created websites for the neuro-infectious diseases group and fellowship
- Assisted in the development of a national neuro-infectious diseases fellowship curriculum

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

- Supervised and taught fellows, residents, interns, and medical students on inpatient services
- Supervised the outpatient neurology resident clinic and taught the residents
- Supervised, taught, and mentored the neuro-infectious diseases/autoimmune neurology fellows
- Participated regularly in neuro-infectious disease fellow case rounds and professor rounds
- Served on the neurology education, residency recruitment, and promotion committees
- Acquired academic neurohospitalist teaching skills at the American Hospitalist Academy in 2016
- Nominated for the annual neurology resident teaching award in 2018 and 2019
- Earned the highest number of educational RVUs out of all neurology faculty for the 2016–2017 and 2018–2019 academic years, and second highest in the 2017–2018 academic year
- Please see other sections for additional details

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

- Taught neurology faculty and residents appropriate infection prevention/PPE techniques during the COVID-19 crisis
- Supervised and taught residents, fellows, and graduate students in public health writing, cluster/outbreak investigations, surveillance and reporting processes, and applied epidemiology
- Served as a member for the Colorado School of Public Health MPH admissions committee
- Interviewed or provided expert commentary to print, radio, and television outlets to educate clinicians and the public about various neurologic and infectious diseases
- Please see other sections for additional details

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

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

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

- Supervised, trained, mentored, and evaluated medical students in localization, diagnosis, and treatment of various neurologic diseases during the 3rd year neurology clerkship and 4th year elective
- Led interactive neurologic problem-based learning sessions for the 3rd 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 blocks
- Co-designed an introductory hands-on neuroradiology training session for medical students with radiology
- Regularly provided mid-course feedback and improvement strategies to the 3rd year medical students
- Served on the grading committee and developed “blinding” strategies to make clinical scores less subjective
- Served as the acting clerkship director for 2 months while the clerkship director was out of country

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

- Supervised the Denver VAMC 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 and Lieutenant Commander (Medical Officer), Centers for Disease Control and Prevention and U.S. Public Health Service Commissioned Corps; Atlanta, GA and Fort Collins, CO (2013–2015)

- Taught other clinicians and public health officials about various neurologic and infectious diseases
- Mentored and taught epidemiology elective students rotating through the Arboviral Diseases Branch
- Interviewed or provided expert commentary to print, radio, and television outlets to educate clinicians and the public about various neurologic and infectious diseases
- Please see other sections for additional details

Neurology Resident/Internal Medicine Intern, UCSF Medical Center; San Francisco, CA (2009–2013)

- Served as co-chief resident in charge of educational conferences and technology (2012–13)
- Supervised and taught medical students, non-neurology residents, and junior neurology residents
- Please see other sections for additional details

Volunteer High School Public Health Teacher, HEY-Durham Program (Health Education and Youth); Durham, NC (2005–2007)

- Volunteered as a public health teacher to high school students in the spring semesters of 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 (2003–2004)

- Full-time biology, chemistry, and genetics teacher to students ranging from 10th–12th grade
- 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, Saint Joseph High School; Metuchen, NJ (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

Uniformed Service Experience

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

- “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 USPHS Commissioned Corps Ready Reserve at the CDC
- Deployed to Colorado, Georgia, Missouri, Ohio, Fiji, Micronesia, and USVI for cluster / outbreak investigations
- Awarded three USPHS awards for my service (see below for details)
- Acquired incident command system, disaster response, and bioterrorism response skills
- Honorably discharged after two years of active-duty service
- Please see other sections for additional details

Media Experience

Public Health/Medical/Science Media Expert, Multiple Organizations (2013–present)

- Acquired public health media skills training through the Epidemic Intelligence Service at the CDC
- Interviewed or provided expert commentary to print, radio, and television outlets to educate clinicians and the public about various neurologic and infectious diseases:
 - [*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*, As states begin lifting stay-at-home orders, how can the immunocompromised stay safe, 2020](#)
 - [*CBS Denver*, 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, 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 Denver 4 News, 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](#)

[-CDC 24/7, We have to be prepared: Neurologist works with CDC to fight Zika, Guillain-Barre 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-Barre 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-Barre 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, How disease detectives find source of outbreaks like enterovirus and Ebola, 2014 \(click Listen in the orange box for the audio interview as well\)](#)

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

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

-Organized music, produced commercials, and marketed music/concert events

Honors, Recognitions, and Awards

NCEZID Health Equity Award (CDC) (2020)

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

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

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

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

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

5280 “Top Doctor” in Neurology for the Denver Metropolitan Area (*5280 Magazine*) (2018)

-for excellence in clinical neurology in the Denver Metropolitan Area

CU Neurology Recognition Award: Neurology Clerkship Associate Director (CU) (2018)

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

CDC 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

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

-for investigating and managing an acute flaccid myelitis outbreak nationwide

USPHS 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 Excellence in Domestic Emergency Response Award (CDC) (2014)

-for investigating cases of acute flaccid myelitis possibly associated with an enterovirus D-68 outbreak

USPHS Unit Commendation (U.S. Public Health Service) (2014)

-for investigating and managing a chikungunya virus disease outbreak in Yap, Micronesia

CDC 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

AAN Medical Student Prize for Excellence in Neurology (American Academy of Neurology) (2009)

-for excellence in research and performance in neurology during medical school

Duke 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	
Duke CTSA Clinical Research Scholar (Duke University/NIH)	(2006–2008)
-for excellence in clinical and epidemiologic research during medical school	
Sigma Xi Scientific 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	
Eagle Scout (Boy Scouts of America)	(1998)

Current Organizational Membership

American Academy of Neurology, Member
Epidemic Intelligence Service (EIS) Alumni Association, Lifetime Member
National Weather Service, SKYWARN Storm Spotter

Published Manuscripts

- 47) Kapadia RK, Ney DE, Hannan M, Farley M, Pastula DM, Piquet AL. Glial fibrillary acidic protein (GFAP) associated autoimmune meningoencephalitis in a patient receiving nivolumab. J Neuroimmunol. 2020. [Epub ahead of print].
- 46) Staples JE, Pastula DM, Panella AJ, Rabe IB, Kosoy OI, Walker WL, Velez JO, Lambert AJ, Fischer M. Investigation of Heartland virus disease throughout the United States, 2013–2017. Open Forum Infect Dis. 2020. [Epub ahead of print].
- 45) Macchi ZA, Kleinschmidt-DeMasters BK, Orjuela KD, Pastula DM, Piquet AL, Baca CB. Glioblastoma as an autoimmune limbic encephalitis mimic: A case and review of the literature. J Neuroimmunol. 2020 Mar 7;342:577214. [Epub ahead of print]. PMID: [32182452](#).
- 44) Gill CM, Kapadia RK, Beckham JD, Piquet AL, Tyler KL, Pastula DM. Usutu virus disease: a potential problem for North America? J Neurovirol. 2019 Dec 19. doi: 10.1007/s13365-019-00818-y. PMID: [31858483](#).
- 43) Gill CM, Beckham JD, Piquet AL, Tyler KL, Pastula DM. Five emerging neuroinvasive arboviral diseases: Cache Valley, eastern equine encephalitis, Jamestown Canyon, Powassan, and Usutu. Semin Neurol. 2019 Aug;39(4):419-427. PMID: [31533182](#).
- 42) Khan M, Beckham JD, Piquet AL, Tyler KL, Pastula DM. An overview of Powassan virus disease. Neurohospitalist. 2019 Oct;9(4):181-182. PMID: [31534605](#).
- 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](#).
- 40) Ralston SA, Murray BP, Vela-Duarte D, Orjuela KD, Pastula DM. Neuroterrorism preparedness for the

- neurohospitalist. Neurohospitalist. 2019 Jul;9(3):151-159. PMID: [31244972](#).
- 39) Beattie J, Parajuli S, Sanger M, Lee G, Pleninger P, Crowley G, Kwon S, Murthy V, Manko J, Caplan A, Dufort E, Pastula DM, Nolan A. Zika virus–associated Guillain-Barré syndrome in a returning US traveler. Infect Dis Clin Pract. 2018 Nov;26(6):e80–e84. PMID: [30923438](#).
 - 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](#).
 - 35) Pessoa A, van der Linden V, Yeargin-Allsopp M, Carvalho MDCG, Ribeiro EM, Van Naarden Braun K, Durkin MS, Pastula DM, Moore JT, Moore CA. Motor abnormalities and epilepsy in infants and children with evidence of congenital Zika virus infection. Pediatrics 2018 Feb;141(Suppl 2):S167–S179. PMID: [29437050](#).
 - 34) Ludt C, Leppert M, Jones A, Song J, Kuwayama D, Pastula DM, Poisson S. Multiple strokes associated 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](#).
 - 31) McGuinness I, Beckham JD, Tyler KL, Pastula DM. An overview of yellow fever virus disease. Neurohospitalist 2017 Oct;7(4):157–158. PMID: [28974992](#).
 - 30) Salinas JL, Major CG, Pastula DM, Dirlikov E, Styczynski A, Luciano CA, Wojna V, Sharp TM, Sejvar JJ, Rivera-Garcia B. Incidence and clinical characteristics of Guillain-Barré syndrome before the introduction of Zika virus in Puerto Rico. J Neurol Sci 2017 Jun 15;377:102–106. PMID: [28477675](#).
 - 29) Pastula DM, Yeargin-Allsopp M, Kobau R. Enhanced epilepsy surveillance and awareness in the age of Zika. JAMA Neurol 2017 Jun 1;74(6):631–632. PMID: [28418503](#).
 - 28) Pastula DM, Hancock WT, Bel M, Biggs H, Marfel M, Lanciotti R, Laven J, Chen TH, Staples JE, Fischer M, Hills SL. Chikungunya virus disease outbreak in Yap State, Federated States of Micronesia. PLoS Negl Trop Dis 2017 Mar 1;11(3). PMID: [28248978](#).
 - 27) Duca LM, Beckham JD, Tyler KL, Pastula DM. Zika virus disease and associated neurologic complications. Curr Infect Dis Rep 2017 Jan;19(1):4. PMID: [28220392](#).
 - 26) Pastula DM, Durrant JC, Smith DE, Beckham JD, Tyler KL. Zika virus disease for the neurointensivist.

- Neurocrit Care 2017 Jun;26(3):457–463. PMID: [27995511](#).
- 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](#).
- 23) Tyler KL, Pastula DM. Hepatitis E virus and Guillain-Barré syndrome. *JAMA Neurol* 2017 Jan 1;74(1):13–15. PMID: [27820625](#).
- 22) Dirlikov E, Kniss K, Major C, Thomas D, Virgen CA, Mayshack M, Asher J, Mier-Y-Teran-Romero L, Salinas JL, Pastula DM, Sharp TM, Sejvar J, Johansson MA, Rivera-Garcia B. Guillain-Barré syndrome and healthcare needs during Zika virus transmission, Puerto Rico, 2016. *Emerg Infect Dis* 2017 Jan;23(1):134–136. PMID: [27779466](#).
- 21) Garlick J, Lee TJ, Shepherd P, Linam WM, Pastula DM, Weinstein S, Schexnayder SM. Locally acquired eastern equine encephalitis virus disease, Arkansas, USA. *Emerg Infect Dis* 2016 Dec;22(12):2216–2217. PMID: [27662563](#).
- 20) Dirlikov E, Major CG, Mayshack M, Medina N, Matos D, Ryff KR, Torres-Aponte J, Alkis R, Munoz-Jordan J, Colon-Sanchez C, Salinas JL, Pastula DM, Garcia M, Segarra MO, Malave G, Thomas DL, Rodríguez-Vega GM, Luciano CA, Sejvar J, Sharp TM, Rivera-Garcia B. Guillain-Barré syndrome during ongoing Zika virus transmission—Puerto Rico, January 1–July 31, 2016. *MMWR Morb Mortal Wkly Rep* 2016 Sep 2;65(34):910–14. PMID: [27584942](#).
- 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](#).
- 18) Sharp TM, Muñoz-Jordán J, Perez-Padilla J, Bello-Pagán MI, Rivera A, Pastula DM, Salinas JL, Martínez Mendez JH, Méndez M, Powers AM, Waterman S, Rivera-García B. Zika virus infection associated with severe thrombocytopenia. *Clin Infect Dis* 2016 Nov 1;63(9):1198–1201. PMID: [27418575](#).
- 17) Sejvar JJ, Lopez AS, Cortese MM, Leshem E, Pastula DM, Miller L, Glaser C, Kambhampati A, Shioda K, Aliabadi N, Fischer M, Gregoricus N, Lanciotti R, Nix WA, Sakthivel SK, Schmid DS, Seward JF, Tong S, Oberste MS, Pallansch M, Feikin D. Acute flaccid myelitis in the United States, August–December 2014: results of nationwide surveillance. *Clin Infect Dis* 2016 Sep 15;63(6):737–45. PMID: [27318332](#).
- 16) Beckham JD, Pastula DM, Massey A, Tyler KL. Zika virus as an emerging global pathogen: neurological complications of Zika virus. *JAMA Neurol* 2016 Jul 1;73(7):875–79. PMID: [27183312](#).
- 15) Pastula DM, Smith DE, Beckham JD, Tyler KL. An overview of Zika virus disease. *Neurohospitalist* 2016 Jul;6(3):93–94. PMID: [27366289](#).
- 14) Pastula DM, Smith DE, Beckham JD, Tyler KL. Four emerging arboviral diseases in North America: Jamestown Canyon, Powassan, chikungunya, and Zika virus diseases. *J Neurovirol* 2016 Jun;22(3):257–60. PMID: [26903031](#).
- 13) Forrester JD, Kugeler KJ, Perea AE, Pastula DM, Mead PS. No geographic correlation between Lyme disease and death due to 4 neurodegenerative disorders, United States, 2001–2010. *Emerg Infect Dis*

- 2015 Nov; 21(11): 2036–39. PMID: [26488307](#).
- 12) Pastula DM, Burish M, Reis GF, Bollen A, Cha S, Ralph J, Douglas VC. Adult-onset central nervous system hemophagocytic lymphohistiocytosis: a case report. BMC Neurol 2015 Oct; 15(1): 203. PMID: [26467435](#).
 - 11) Pastula DM, Hoang Johnson DK, White JL, Dupuis 2nd AP, Fischer M, Staples JE. Jamestown Canyon virus disease in the United States—2000–2013. Am J Trop Med Hyg 2015 Aug; 93(2): 384–89. PMID: [26033022](#).
 - 10) Kosoy OI, Lambert AJ, Hawkinson DJ, Pastula DM, Goldsmith CS, Hunt DC, Staples JE. Discovery of a novel thogotovirus associated with a febrile illness and death in the United States. Emerg Infect Dis 2015 May; 21(5). PMID: [25899080](#).
 - 9) Division of Viral Diseases, National Centers for Immunization and Respiratory Diseases, CDC; Division of Vector-Borne Diseases, Division of High-Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, CDC; Children's Hospital Colorado; Council of State and Territorial Epidemiologists. Acute flaccid myelitis among persons aged ≤ 21 years—United States, August 1–November 13, 2014. MMWR Morb Mortal Wkly Rep 2015 Jan; 63(53):1243–44. PMID: [25577990](#).
 - 8) Pastula DM, Aliabadi N, Haynes AK, Messacar K, Schreiner T, Maloney J, Dominguez SR, Davizon ES, Leshem E, Fischer M, Nix WA, Oberste MS, Seward J, Feikin D, Miller L; Centers for Disease Control and Prevention (CDC). Acute neurologic illness of unknown etiology in children—Colorado, August–September 2014. MMWR Morb Mortal Wkly Rep 2014 Oct; 63:901–02. PMID: [25299607](#).
 - 7) Pastula DM, Turabelidze G, Yates KF, Turabelidze G, Yates KF, Jones TF, Lambert AJ, Panella AJ, Kosoy OI, Velez JO, Fisher M, Staples JE; Centers for Disease Control and Prevention (CDC). Heartland virus disease—United States, 2012–2013. MMWR Morb Mortal Wkly Rep 2014; 63:270–71. PMID: [24670929](#).
 - 6) Pastula DM, Moore DH, Bedlack RS. Creatine in amyotrophic lateral sclerosis/motor neuron disease. Cochrane Database Syst Rev 2012 December, Issue 12. PMID: [23235621](#).
 - 5) Pastula DM, Moore DH, Bedlack RS. Creatine in amyotrophic lateral sclerosis/motor neuron disease. Cochrane Database Syst Rev 2010 June, Issue 6. PMID: [20556761](#).
 - 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. Factors associated with survival in the National Registry of Veterans with ALS. Amyotroph Lateral Scler 2009 Oct–Dec; 10(5–6): 332–338. PMID: [19922120](#).
 - 3) Bedlack RS, Pastula DM, Hawes J, Heydt D. Open-label pilot trial of levetiracetam for cramps and spasticity in patients with motor neuron disease. Amyotroph Lateral Scler 2009 Aug; 10(4): 210–15. PMID: [18821142](#).
 - 2) Bedlack RS, Pastula DM, Welsh E, Pulley D, Cudkowicz ME. Scrutinizing enrollment in ALS clinical trials: room for improvement? Amyotroph Lateral Scler 2008 Oct; 9(5): 257–65. PMID: [18608092](#).
 - 1) Pastula DM, Bedlack RS. Amyotrophic lateral sclerosis: progress since Lou Gehrig. Fed Pract 2007 May; 24(5): 66–72.

Published Book Chapters, Technical Documents, and Informational Websites

- 11) CDPHE. [Preventing, Reporting and Mitigating Workplace and Non-Health Care, Non-Residential Facility Outbreaks](#). May 2020.
- 10) Smith DE, Beckham JD, Pastula DM, Tyler KL. Neurological manifestations of West Nile virus. In: Nath A and Berger JB, eds. Clinical Neurovirology. 2nd edition. Boca Raton, FL: CRC Press; May 2020: Chapter 14.
- 9) CDC. [Jamestown Canyon virus](#). CDC informational website. October 2019.
- 8) CDC. [Zika virus: Information for clinicians](#). CDC technical presentation. September 2019.
- 7) 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.
- 6) Pastula DM, Fisher RS. [The new seizure terminology: How to classify and describe a seizure](#). Medscape CDC Expert Commentary article. November 2018.
- 5) CDC, et al. [Acute flaccid myelitis: Interim considerations for clinical management](#). CDC technical document. November 2018.
- 4) CDC. [West Nile virus disease therapeutics: review of the literature for healthcare providers](#). CDC technical document. February 2018.
- 3) CDC, et al. Acute flaccid myelitis: Interim considerations for clinical management. CDC technical document. November 2014.
- 2) 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. 1st edition. Amsterdam, Netherlands: Elsevier Inc.; March 2010: Chapter 54.
- 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

- 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 & Educational Talks

Talks given to undergraduates, graduate students, medical students, and residents

- 24) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2020.
- 23) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2019.
- 22) Tick-borne viruses. Animal Virology course, University of Colorado, Boulder, CO. March 2019.
- 21) A discussion about acute flaccid myelitis. Student Interest Group in Neurology (SIGN), University of Colorado, Aurora, CO. January 2019.
- 20) Arboviral diseases. Neurohospitalist and stroke fellow didactics, University of Colorado, Aurora, CO. November 2018.
- 19) Zika virus disease. Animal Virology course, University of Colorado, Boulder, CO. March 2018.
- 18) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2018.
- 17) Zika virus disease. Animal Virology course, University of Colorado, Boulder, CO. April 2017.
- 16) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. February 2017.

- 15) Zika virus disease. Introduction to Global Health seminar, Colorado School of Public Health, Aurora, CO. November 2016.
- 14) Zika virus disease. Outbreak Investigations course, Boston University School of Public Health, Boston, MA. November 2016.
- 13) Arboviral diseases around the world. Global Health and Disasters course, University of Colorado, Aurora, CO. November 2015.
- 12) Arboviral diseases. Neurology residency lecture series, University of Colorado, Aurora, CO. March 2015.
- 11) Seizures 101. Family medicine residency lecture series, Poudre Valley Hospital, Fort Collins, CO. February 2015.
- 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.

Talks given locally/regionally

- 13) Tick-borne viruses. Neurology grand rounds, University of Colorado, Aurora, CO. July 2019.
- 12) Mosquitoes and Ticks Suck: Arboviral diseases. University of Colorado Family Medicine Review conference, Aurora, CO. November 2018.
- 11) Mosquitoes and Ticks Suck: Arboviral diseases. University of Colorado Family Medicine Review conference, Estes Park, CO. June 2018.
- 10) Arboviral diseases. Colorado Academy of Physician Assistants conference, Copper Mountain, CO. February 2018.
- 9) Zika virus disease. Colorado Academy of Physician Assistants conference, Copper Mountain, CO. February 2017.
- 8) Zika virus disease. Bugs and Drugs conference, University of Colorado, Aurora, CO. October 2016.
- 7) Zika virus disease. Epidemiology seminar, Colorado School of Public Health, Aurora, CO. June 2016.

- 6) Zika virus disease. Neurology grand rounds, University of Colorado, Aurora, CO. April 2016.
- 5) Arboviral diseases. Infectious diseases grand rounds, University of Colorado, Aurora, CO. April 2016.
- 4) Heartland virus disease. CDC Division of Vector-Borne Diseases seminar, Fort Collins, CO. March 2015.
- 3) A novel virus (Bourbon virus) associated with fatal human disease. Team presentation. CDC Division of Vector-Borne Diseases seminar, Fort Collins, CO. December 2014.
- 2) Jamestown Canyon virus disease. North American Vector Control Association webinar, Fort Collins, CO. May 2014.
- 1) CDC Epidemic Intelligence Service. Colorado School of Public Health, Fort Collins, CO. December 2013.

Talks given nationally

- 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.

Talks given internationally or outside the continental U.S.

- 8) Arboviral diseases: from alphaviruses to Zika. Neurology grand rounds, University of Puerto Rico, San Juan, Puerto Rico. March 2016.
- 7) Chikungunya virus disease. Informational 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. Oct. 2013.

Ad-Hoc Journal and Abstract Reviewer

American Academy of Neurology, Neuro-Infectious Diseases Section
American Journal of Tropical Medicine & Hygiene
Archives of Virology
Clinical Neurology and Neuroscience
Emerging Infectious Diseases
Journal of Neurovirology
Neurohospitalist
Neurology Clinical Practice
Vaccine

Officially Assigned Mentees and Fellows

Ronak K. Kapadia, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado
Christine M. Gill, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado
Murtaza Khan, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado
Daniel E. Smith, MD, Neuro-Infectious Diseases/Autoimmune Neurology Fellow, University of Colorado
Jaisyn Glickman, MD, Neurology Resident, University of Colorado
Anthony Harrington, MD, Neurology Resident, University of Colorado
Gary Walker, MD, Neurology Resident, University of Colorado