

Pavan Patel
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EDUCATION

Rowan University School of Osteopathic Medicine, Stratford, NJ

Doctor of Osteopathic Medicine (D.O.), 05/2017

University of Pittsburgh, Pittsburgh, PA

Bachelors of Science, 04/2012

Major: Neuroscience, Minor: Chemistry, Certificate: Conceptual Foundations of Medicine

MEDICAL TRAINING

Internship

Mercy Catholic Medical Center, Philadelphia, PA

Transitional Year Residency, 07/2017-06/2018

Residency

Einstein Medical Center, Philadelphia, PA

Neurology Residency Program, 07/2018-06/2021

Fellowship

University of Florida, Gainesville, FL

Trauma, Concussion, and Sports Neuromedicine, 07/2021-06/2022

CERTIFICATIONS

American Board of Psychiatry and Neurology

Neurology - September 2021

Brain Injury Medicine - September 2022

National Board of Osteopathic Medical Examiners

COMLEX Level 1- Pass, July 2015

COMLEX Level 2 CE- Pass, July 2016

COMLEX Level 2 PE- Pass, July 2016

COMLEX Level 3- Pass, September 2017

National Board of Medical Examiners

USMLE Step 1- Pass, July 2015

USMLE Step 2- Pass, July 2016

American Heart Association

Basic Life Support for Healthcare Provider (2019)

Advanced Cardiac Life Support (2019)

LICENSURE

Pennsylvania Osteopathic Physician - Issued April 2022

New Jersey Doctor of Osteopathy - Issued October 2022

New York Medical License - Issued January 2026

WORK/VOLUNTEER EXPERIENCE

2025-Present - **Owner** of Clear Path Headache and Concussion Clinic, Quakertown, PA
Direct care neurology clinic dedicated to the treatment of headache disorders and concussion

2024-Present - ABPMR Brain Injury Medicine **Content Development Volunteer**
Question writer for the Brain Injury Medicine Board Examination

2023-Present - **Clinical Assistant Professor (Adjunct)** in the Lewis Katz School of Medicine
Adjunct faculty for the Department of Neurology at Temple University

2022-2026 - **Neurologist**, *St. Luke's University Health Network*, Bethlehem, PA
Specialist in headache and concussion management

2012 - **Document Management Associate**, *Icon plc*, North Wales, PA
Provides strategic development services to the pharmaceutical, biotechnology and medical device industries
Processed study documents in accordance with client and study requirements as per study-specific processes

RESEARCH

07/2021-06/2022

Co-Investigator, *Using tele-medicine to evaluate and treat vestibular disorders*
University of Florida, Gainesville, FL
Advisor: Dr. Jaffee, Ali Kraus, DPT

Investigative study to evaluate the utility of tele-medicine in evaluating and treating vestibular disorders after mild traumatic brain injury

07/2019-06/2021

Primary Investigator, *Stroke Alerts and Improved Response/Intervention Times*
Einstein Medical Center, Philadelphia, PA
Advisor: Dr. Dissin

Quality improvement project to evaluate stroke alert procedures and determine interventions to help improve response and intervention times.

07/2018-06/2021

Co-Investigator, *Intramuscular Paracervical Injection for Headache*
Einstein Medical Center, Philadelphia, PA
Advisor: Dr. Fromm

Randomized controlled trial assessing the efficacy of intramuscular

paracervical injection in the management of benign headache in the emergency department.

07/2018-06/2021

Primary Investigator, *Migraine Treatment Protocol and Opioid Reduction*
Einstein Medical Center, Philadelphia, PA

Advisors: Dr. Roby, Dr. Newman, Dr. Kowalski, Dr. Herres

Quality improvement study evaluating the implementation of a migraine treatment protocol and its impact on the prescribing of opiate pain medications to treat this condition and its subtypes

07/2017-06/2018

Research Assistant, *Early mobility and OMT in the ICU*

Mercy Catholic Medical Center, Philadelphia, PA

Advisors: Dr. Hameed, Dr. Ghionni, Dr. Valentino

Quality improvement project assessing baseline functional status of patients in the ICU and the use of OMT to facilitate recovery and improve post-ICU functionality and independence.

07/2016-06/2017

Research Assistant, *Conducting various studies to determine level of injury and recovery from concussions.*

Jefferson Concussion Center, Thomas Jefferson University, Philadelphia, PA

Advisor: Dr. Stephen Russo, PhD

Administer tests involving vision, balance, cognition, memory, and sensation to help determine the severity of concussions and develop focused treatment plans based on the results. Collect and analyze data regarding vitamin therapy and its efficacy in treating concussions.

07/2012-06/2013

Research Assistant, *Identified and analyzed potential biomarkers for the early detection of lung cancer.*

Department of Pulmonary Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA

Advisor: Dr. Anil Vachani, MD

Processed patient blood and urine samples, which helped determine the efficacy of new chemotherapy drugs. Submitted protocols to the Institutional Review Board for the application of new studies related to the early detection of lung cancer and the optimum treatment of patients with lung cancer.

07/2011-06/2012

Clinical Trials Research Assistant, *Trauma studies to determine male versus female recovery from a traumatic incident.*

Department of Emergency Medicine, University of Pittsburgh

Medical Center, Pittsburgh, PA

Advisor: Dr. Jason Sperry, MD

Screened and enrolled intensive care unit patients for consent regarding study participation. Retrieved and processed blood, urine and stool samples to study patient recovery rates.

05/2010-05/2012

Research Assistant, *Regeneration of spinal cord function following injury.*

Department of Physical Medicine and Rehabilitation, University of Pittsburgh Medical Center, Pittsburgh, PA

Advisor: Dr. Martin Oudega, PhD

Improved general lab efficiency by implementing personalized projects for each individual. Performed rat perfusions to observe spinal cord damage and potential recovery. Grew bone marrow stromal cells (stem cells) to implement into the injury site and used a fluorescent microscope to view effects.

09/2009-05/2010

Research Assistant, *Empathy versus sympathy in adults and children*

Department of Psychology, University of Pittsburgh, Pittsburgh, PA

Advisor: Dr. Celia Brownell, PhD

Analyzed data on empathy differences in adults and children. Utilized Afni/X-manager for examination of MRI scans.

PUBLICATIONS

Ritfeld, G., Rauck, B., Novosat, T., Park, D., **Patel, P.**, Roos, R., Wang Y., Oudega, M. (2013). The effect of a polyurethane-based reverse thermal gel on bone marrow stromal cell transplant survival and spinal cord repair. *Biomaterials*, 1924-1931.

Patel, P. (2014, July 25). The scarlet letter A, this time for addiction. Blog entry retrieved from IRETA, Institute for Research, Education & Training in Addictions. Re-published by The World of SBIRT (Screening, Brief Interventions, and Referral to Treatment).

P A Clark, M J Lee, S Gulati, A Minupuri, **P Patel**, S Zheng, S A Schadt, J Dubensky, M DiMeglio, S Umapathy, O Nguyen, P Rodriguez, K Cooney, S Lathrop. *Comprehensive User Engagement Sites (CUES) in Philadelphia: A Constructive Proposal*. The Internet Journal of Public Health. 2018 Volume 18 Number 1.

P Patel, A Prabhu. *Hypertrophic Ovary Degeneration*. Neurology® Resident & Fellow e-Pearls

– March 23, 2020

Patel P, Prabhu A, Tadi P. Turtle Headache. [Updated 2019 Aug 8]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2019 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK545272/>

P Patel, B McNeilly, J Dissin. *Stroke in a young patient with fibromuscular dysplasia*. American Journal of Neuroradiology – Classic Case, September 9, 2019.

P Patel, Y Zhang, L Unikel, C Edwards. *A Case of Sporadic Erythromelalgia Presenting with Small Fiber Neuropathy*. BMJ Case reports – September 2019

P Patel, A Undavia, R Choudry, Y Zhang, A Prabhu. *COVID-19 associated with concomitant Varicella Zoster Viral Encephalitis*. Neurology: Clinical Practice – August 2020

Shae Datta, MD, Miguel Pareja-Cajiao, MD, Mayur Patel, MD, **Pavan Patel**, DO, Cole Dutton, Sarah M. Greif, PhD. *Approach to the Sequelae of Mild Traumatic Brain Injury*. In Progress as of 5/2023

POSTERS

A Case of Sporadic Erythromelalgia Presenting with Small Fiber Neuropathy. *American Academy of Neurology Annual Meeting*, May 5, 2019

Comprehensive User Engagement Sites: Is this a viable option for the opioid epidemic in Philadelphia? *International Conference on Opioids*, Harvard Medical School, June 10, 2018

Myalgias: An Unusual Presentation of Thyrotoxicosis, *Pennsylvania Pain Society Annual Meeting*, November 9, 2018

Mild Traumatic Brain Injury and Neuropsychiatric Sequelae in the Pediatric Population, *American Academy of Neurology Annual Meeting*, Scheduled for April, 28 2020 – Conference Cancelled

Variable Presentation of an Uncommon Antibody Syndrome, *43rd Annual Carrell Krusen Neuromuscular Symposium*, Scheduled for February 19, 2021

LECTURES/PRESENTATIONS

8/9/18: Thrombectomy Trials

9/13/18: Axonal Sensorimotor Polyneuropathies

2/18/19: Secondary Headache Syndromes

3/26/19: Pain and Addiction

4/18/19: Atypical Parkinson's

1/31/20: Neurological Manifestations of Thyroid Disease – M&M

6/12/20: Grand Rounds - Traumatic Brain Injury and Sleep

4/23/21: EMG Case Conference

01/24/22: AAN Sports Neurology Section Journal Club – Concussion Biomarkers

3/11/22: Case Conference on Spasticity

6/2/23: Neurology Subspecialty Lecture Series - Concussion and its Sequelae

HONORS AND AWARDS

2025- **Neurology Digital Education Scholars Program**, Virtual Course

Accepted into a program that aims to teach neurologists evidence-based practices for creating and incorporating digital education into teaching practices, career development, and lifelong learning.

2020- **American Academy of Neurology Resident Scholarship to Annual Meeting**

Toronto, CA – Meeting Canceled

Recognizes the importance of resident attendance at the annual meeting. One resident from the program is nominated by the program director to attend the conference and take part in networking and leadership activities.

2018- **PAINWeek Scholarship – Grand Prize**, PAINWeek, Las Vegas, NV

Award given to aspiring pain management physicians to attend the national PAINWeek conference and partake in cutting-edge lectures and research involving pain management and its future.

2015- **Rowan University School of Osteopathic Medicine Alumni Association Student Scholarship**, RowanSOM, Stratford, NJ

Awarded for assistance with the annual RowanSOM Golf Classic, which aims to raise awareness for the Rowan Community and supports scholarships for future RowanSOM students.

2014- **Scaife Advanced Medical Student Fellowship**, IRETA, Institute for Research, Education & Training in Addictions, Pittsburgh, PA

Selected to train in the field of addiction services with an emphasis on drug and alcohol abuse, motivational interviewing and screening of substance use disorders.

2012- **Honors Research Assistantship**, University of Pittsburgh, Pittsburgh, PA

Selected for assistantship based on academic success and cell transplantation research.

LEADERSHIP

2020-2021 **Chief Neurology Resident**, *Neurology Residency Program*, Einstein Medical Center

Establish and coordinate call schedule, oversee junior resident training, facilitate student education

2018-2021 **Social Chair**, *Neurology Residency Program*, Einstein Medical Center

Organize events to encourage resident and attending bonding

2018-2021 **Committee Member, Opioid Task Force**, Einstein Medical Center

Working with multiple members in the neurology department to help combat opioid use and abuse by implementing checks and balances within the outpatient clinic.

- 2015-2016 **Rowan Sideline Sports Medicine Liaison**, *Sports Medicine Club*
Coordinated medical student shadowing and integration with the athletic training and sports medicine teams for the Rowan University football team.
- 2013-2015 **Board Member**, *Synapse*, Rowan-SOM
Club dedicated to promoting innovative thinking and address healthcare issues. Organized and coordinated physician shadowing in parallel to in-class curriculum.
- 2013-2015 **Committee Member**, *Golf Classic*, Rowan-SOM
Organization dedicated to raising funds to support scholarships at Rowan-SOM. Obtained donations, helped organize the tournament and volunteered at the event.
- 2010-2011 **Founding Member**, *Epsilon Sigma Alpha- Psi Mu Chapter*, University of Pittsburgh
Fraternity dedicated to community service around the campus and community. Helped organize and participated in community service projects.

PROFESSIONAL AFFILIATIONS

American Academy of Neurology
American Board of Physical Medicine and Rehabilitation
American Board of Psychiatry and Neurology

SKILLS AND INTERESTS

Skills: Organized, team-player, computing skills, motivated

Languages: Gujarati - Conversational, Spanish - Basic

Interests: Sports (football, basketball, hockey), billiards, traveling, exercising, reading