

Orlando Health Neuroscience Institute  
76 West Underwood Street, 2<sup>nd</sup> Floor  
Orlando, FL 32806

**ACADEMIC APPOINTMENTS:**

**Director of Movement Disorders, Orlando Health**  
**Current**

**WORK EXPERIENCE:**

**Orlando Health**  
**Jan 2022 - present**

**Marshall University Joan C. Edwards School of Medicine** **July**  
**2016 - Dec 2021**  
**(Associate Professor, Director of Movement Disorders)**

**Research Scholar, Neurology, Penn State Hershey Medical Center, PA** **July**  
**2010 - June 2011**

**Resident Medical Officer, Fortis Hospital, Mumbai, India**  
**May - June 2010**

**Resident Medical Officer, Gokul Hospital, Mumbai, India** **Aug**  
**2008 - May 2009**

**Internship, MGM Medical College & Hospital, Navi Mumbai, India**  
**July 2007- July 2008**

**EDUCATION:**

**Movement disorders Fellowship** **July 2015 - June**  
**2016**  
Dept. of Movement Disorders, University of Toledo Medical Center

**Neurology Residency** **July 2011 - June**  
**2015**

# VIKRAM SHIVKUMAR, MD, FAAN

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Dept. of Neurology, University of Toledo Medical Center

**Bachelor of Medicine & Bachelor of Surgery (MBBS)  
2008**

**July 2002 - July**

M.G.M. Medical College, Navi Mumbai,  
Maharashtra University of Health Sciences, India

## **PUBLICATIONS:**

### **Book chapter:**

- **Shivkumar, Vikram**, Nemade, Dipali, Kripa Sai, Srinivasan AV. Evaluation of movement disorders: A 10 step approach. Tancon Reviews. 2019
- **Shivkumar Vikram**, Nemade Dipali, Srinivasan AV. Book Chapter titled Parkinson-Plus syndromes: Clinical features and management. Practice Pearls in Neurology Series III. 2019: ISBN 978-938-918-850-9
- Venkiteswaran Kala, **Shivkumar Vikram**, Subramanian Thyagarajan. Book Chapter titled Early Parkinson's Disease: Essentials of Diagnosis and Management. Practice Pearls in Neurology Series III. 2019: ISBN 978-938-918-850-9
- Lieu, C.A., **Shivkumar, V.**, Gilmour, T.P., Venkiteswaran, K., Nolt, M.J., Deogaonkar, M. and Subramanian, T. (2011). Pathophysiology of Drug-Induced Dyskinesias, Symptoms of Parkinson's disease, Abdul Qayyum Rana (Ed.), ISBN: 978-953-307-464-1, InTech

### **Peer-reviewed articles:**

- **Shivkumar V**, Nemade D, Dhingra N. Persistent hiccups following thalamic hemorrhage: A case report. *Heliyon*. 2023 May 19;9(6):e16409. doi: 10.1016/j.heliyon.2023.e16409. PMID: 37274664
- Camilleri M, Subramanian T, **Shivkumar V** et al. Oral ENT-01 Targets Enteric Neurons to Treat Constipation in Parkinson Disease: A Randomized Controlled Trial. *Ann Intern Med*. 2022 Dec;175(12):1666-1674. doi: 10.7326/M22-1438.
- **Shivkumar V**, Nemade D. Hemichorea-Hemiballism as a Delayed Manifestation of Hyperglycemia: A Case Report. *The Neurohospitalist*. August 2022. doi:10.1177/19418744221111962

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- **Shivkumar V**, Subramanian T, Agarwal P, Mari Z, Mestre T. Uptake of telehealth in Parkinson's disease clinical care and research during COVID-19 pandemic. *Parkinsonism Relat Disord*. 2021. Doi: 10.1016/j.parkreldis.2021.03.032
- Nemade, D, Subramanian T, **Shivkumar V**. An Update on Medical and Surgical Treatments of Parkinson's Disease[J]. *Aging and disease*, 10.14336/AD.2020.1225
- Nemade D, Beckett M, Nolte J, **Shivkumar V**. Make Kids Stroke-Smart: A Community Based Interventional Study. *Cureus* 12(12):e11884. Doi:10.7759/cureus11884
- Adams, J. and **Shivkumar, V**. (2020), Twiddler's Syndrome in Deep Brain Stimulation. *Mov Disord Clin Pract*. doi:10.1002/mdc3.13035
- Nemade D, **Shivkumar V**, Ferguson P, Singh J, Shah S. Psychosocial and Physiologic Characteristics of Patients with Non-epileptic Events: A Retrospective Study. *Cureus*. 2020;12(1):e6767. Published 2020 Jan 24. doi:10.7759/cureus.6767
- **Shivkumar V**, Nemade D. Intravenous tPA in the treatment of acute stroke related to aortic dissection. *BMJ Case Reports CP* 2019;12:e229982
- Nemade Dipali; Ferguson, Paul; **Shivkumar, Vikram**; and Cole, Dennis (2019) "Bilateral acute Ocular Ischemic Syndrome following head and neck radiation," *Marshall Journal of Medicine*: Vol. 5: Iss. 1, Article 5.
- Musey, C. and **Shivkumar, V**. "Medical therapies for motor symptoms in Parkinson's Disease," *Marshall Journal of Medicine*: 2017 Vol. 3: Iss. 4, Article 13.
- Bettermann, K., Slocomb, J., **Shivkumar, V.**, Quillen, D., Gardner, T.W. and Lott, M.E. (2017), Impaired Retinal Vasoreactivity: An Early Marker of Stroke Risk in Diabetes. *J Neuroimaging*, 27: 78-84. doi:10.1111/jon.12412
- Wang J, Yang QX, Sun X, Vesek J, Mosher Z, Vasavada M, Chu J, Kanekar S, **Shivkumar V**, Venkiteswaran K, Subramanian T. MRI evaluation of asymmetry of nigrostriatal damage in the early stage of early-onset Parkinson's disease. *Parkinsonism Relat Disord*. 2015 Jun;21(6):590-6.
- Lott, M. E. J., Slocomb, J. E., **Shivkumar, V.**, Smith, B., Gabbay, R. A., Quillen, D., Gardner, T. W. and Bettermann, K. Impaired Retinal Vasodilator Responses in Prediabetes and Type 2 Diabetes. *Acta Ophthalmol*. 2013 Sep;91(6):e462-9
- Lott, M. E. J., Slocomb, J. E., **Shivkumar, V.**, Smith, B., Gabbay, R. A., Quillen, D., Gardner, T. W. and Bettermann, K. Comparison of retinal vasodilator and constrictor responses in type 2 diabetes. *Acta Ophthalmol*. 2012 Sep;90(6):e434-41
- Bettermann, K., Slocomb, J.E., **Shivkumar, V.** and Lott, M.E.J. Retinal vasoreactivity as a marker for chronic ischemic white matter disease? *J Neurol Sci*. 2012 Nov 15;322(1-2):206-10

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## ABSTRACTS:

- Bowen R, Velasco B, **Shivkumar V**. When the tap test underwhelms: Revising prognosis in NPH. (2026), ABSTRACTS. *Mov Disord Clin Pract*, 13: S11-S129. <https://doi.org/10.1002/mdc3.70478>
- Velasco B, Bowen R, **Shivkumar V**. Delayed Onset Parkinsonism Following BCMA-Directed Car-T Therapy. (2026), ABSTRACTS. *Mov Disord Clin Pract*, 13: S11-S129.
- Velasco B, Bowen R, **Shivkumar V**. Challenges in Idiopathic Palatal Myoclonus: A Multidisciplinary Approach to Symptomatic Care in Hypertrophic Olivary Degeneration. (2026), ABSTRACTS. *Mov Disord Clin Pract*, 13: S11-S129.
- **Shivkumar V**, Subramanian T, Agarwal P, Mari Z, Mestre T. Uptake of Telehealth in Parkinson's Disease Clinical Care and Research During COVID-19 Pandemic: a Parkinson Study Group Survey. AAN Annual Meeting 2021
- Nemade Dipali, Singh Shantanu, Modarresi Milad, **Shivkumar Vikram**, Ferguson Paul, Khawaja Imran. Association of Mild vs Moderate REM Predominant OSA with Prevalence of Various Cardiovascular, Cerebrovascular Comorbidities: A Retrospective Analysis of Data from Sleep Laboratory at Cabell Huntington Hospital, WV. AAN Annual meeting 2021
- **Shivkumar V, Adams J**. Twiddler's syndrome in Deep Brain Stimulation. Movement Disorders Society International Congress 2020. *Mov Disord* 2020; 35 (suppl 1)
- Nemade, D., Beckett, M., Nolte J, **Shivkumar, V**. Make Kids Stroke-Smart: A Community Based Interventional study. AAN Annual meeting 2020. *Neurology* Apr 2020; 94 (15 Supplement) 2206
- Nemade, D., Beckett, M., Nolte, J, **Shivkumar, V**. Make Kids Stroke-Smart: A Community Based Interventional study. Presented at Marshall University Research Day, March 2020. **Awarded best poster.**
- Ravi S, **Shivkumar V**, Dang D, Gilmour T, Espay T, Wang J, Subramanian T, Venkiteswaran K. Substantia Nigra (SN) Hyperechogenicity as seen in Transcranial Sonography (TCS) is a reliable disease progression marker from Stage I to Stage II in Early Onset Parkinson's Disease (EOPD) [abstract]. Movement Disorders Society International Congress. *Mov Disord*. 2019; 34 (suppl 2).
- Ravi S, **Shivkumar V**, Dang D, Gilmour T, Harid N, Wang J, Krishnaiah B, Venkiteswaran K, Subramanian T. Substantia Nigra (SN) Hyperechogenicity is a Reliable Biomarker for Disease Progression From Stage I to Stage II in Early Onset Parkinson's Disease (EOPD). AAN Annual meeting 2019. *Neurology* Apr 2019, 92 (15 Supplement) P4.7-001

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- Nemade Dipali, **Shivkumar Vikram**. Role of Intravenous tPA in Treatment of Acute Stroke Related to Aortic Dissection: A case report. Presented at Marshall University Research Day, March 2019
- Krishnaiah B, Venkiteswaran K, **Shivkumar V**, Gilmour T, Harid N, Saadi R, Subramanian T. Hyperechogenicity of Substantia Nigra: A Potential Disease Progression Marker in Early Onset Parkinson's Disease (EOPD). Neurology Apr 2014, 82 (10 Supplement) P6.065
- Bettermann K, Slocomb J, **Shivkumar V**, Lott, M. Retinal vasoreactivity in patients with ischemic stroke. Journal of the Neurological Sciences 2013, Volume 333, e189 - e190.
- Lott M, Smith B, Slocomb J, **Shivkumar V**, Bettermann K; Coronary And Retinal Reactivity To Hyperoxia In Prediabetes And Type 2 Diabetes. Invest. Ophthalmol. Vis. Sci. 2012;53(14):6823
- Slocomb J, Lott M, **Shivkumar V**, Bettermann K. Retinal Vasoreactivity as a Marker of Impaired Cerebral Function in Diabetes. Stroke. 2012;43:A3802
- Lott M, Slocomb J, **Shivkumar V**, Bettermann K; Impaired Retinal Reactivity in Pre-Diabetes and Diabetes. Invest. Ophthalmol. Vis. Sci. 2011;52(14):6027.

### CLINICAL TRIALS:

- **Principal Investigator:** A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Multiple Dose Study to Evaluate Safety, Tolerability and Efficacy of Orally Administered ENT-01 for the Treatment of Parkinson's Disease-Related Constipation (KARMET)
- **Principal Investigator:** Utilization of Target Ranges to Treat Patients with Parkinson's Disease by Objective Measurement Using the Personal KinetiGraph® (PKG®) compared to Standard of Care Assessment (TARGET-PD)- A Randomized Controlled Trial Study
- **Principal Investigator:** Sage: a phase 2, double-blind, placebo controlled, randomized study evaluating the efficacy, safety, and tolerability of sage-324 in the treatment of individuals with essential tremor 324-etd-201
- **Principal Investigator:** Efficacy of Gocovri in Treatment of Tremor in Parkinson's Disease: An Open Label Trial - Investigator Sponsored Study
- **Principal Investigator:** A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy, Safety, and Tolerability of Valbenazine for the Treatment of Dyskinesia Due to Cerebral Palsy

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## **PROFESSIONAL REVIEW:**

- Clinical Neurology and Neurosurgery
- Marshall Journal of Medicine
- Cureus
- Movement Disorder Clinical Practice
- Parkinsonism and Related Disorders
- Neurology Research International
- Journal of Parkinson's disease
- Frontiers in Human Neuroscience
- International Journal of Health Promotion and Education
- Annals of Indian Academy of Neurology
- Heliyon
- Frontiers in Neurology

## **EDITORIAL BOARD:**

- Cureus (Associate Editor)

## **INVITED LECTURES/PRESENTATIONS:**

- American Neurology Summit, Orlando, FL, Nov 2025
- Parkinson Association of Central Florida, Orlando, FL Nov 10, 2023
- Parkinson and Movement Disorder Alliance, Orlando, FL May 15, 2023
- Parkinson and Movement Disorder Alliance, Orlando, FL July 2022
- Neurology Grand Rounds, University of Toledo, Dec 2021
- APDA Pennsylvania PD symposium, April 2021
- Movement Disorders Grand Rounds. Dept. of Neurology, Mercy Health, April 2021
- Atypical Parkinsonism. Dept. of Family Medicine, Holzer Medical Center, March 2020
- Movement Disorders in psychiatry. Dept. of Psychiatry, Marshall University Grand Rounds, October 2019
- Movement Disorders. Dept. of Internal Medicine, Marshall University; Grand Rounds, Sept 2019
- WV Parkinson's disease symposium, Sep 2018
- Parkinson's disease symposium in Charleston WV, Sep 2017

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- Pediatric Neurology lecture. Dept. of Pediatrics, Marshall University; June 2017
- Dept. of Physical Therapy, Marshall University: Jan 2017, Jan 2018, Jan 2019, March 2020
- Parkinson's disease. Dept. of Family Medicine, Holzer Medical Center, Sep 2016
- Movement Disorders. Neuroscience Nursing symposium, Marshall University, Nov 2016

## **TEACHING:**

- 3<sup>rd</sup> and 4<sup>th</sup> Year Medical students: Movement disorders lectures
- Residents (annual):
  - Parkinson's disease: 1 hour
  - Hyperkinetic movement disorders: 1 hour
  - Atypical Parkinsonism: 1 hour
  - Pediatric Movement Disorders: 1 hour
  - Deep Brain Stimulation: 1 hour
  - Movement disorder clinics
- Board Review for Neurology residents: 5 hours (annual)

In addition, I supervise 3<sup>rd</sup> and 4<sup>th</sup> year medical students and Neurology residents in the clinic and also mentor them in presentations and publications.

## **VOLUNTEER WORK:**

- **Invited speaker at Parkinson's disease support groups**
  - Cabell Huntington Hospital: Feb 21st 2017, Feb 20th 2018, March 19th 2019
  - Generations Physical Therapy: Dec 16th 2016, Dec 13th 2018
  - Huntington Physical Therapy: Sep 8th 2016
  - Charleston, WV support group: Sep 19th 2016
  - Clarksburg, WV support group: Oct 29th 2016, Oct 28th 2017, July 27th 2019
  - PD Symposium Charleston: Sep 2017 and Sep 2018
  - Ashland, KY support group: Aug 1st 2017
  - Hurricane, WV support group: Nov 4th 2019
  - PA American Parkinson's Disease Association Information & Referral Center: May 10<sup>th</sup> 2020

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- Volunteered at 3 Gynecology camps, 1 Surgery camp for the underprivileged, organized by Bhojay Sarvoday Trust at Bhojay, Gujarat, India from June 2003 to January 2006.

## **ACADEMIC HIGHLIGHTS:**

- University of Toledo Outstanding Neurology resident teaching award for the year 2014-15.

## **CERTIFICATIONS/LICENSURE:**

- American Board of Psychiatry and Neurology Certificate in Neurology Certificate No. 59772
- FL Board of Medicine - Active
- Maharashtra Medical Council Registration No - 2008/08/2982, Medical Council of India.

## **MEMBERSHIPS:**

- American Academy of Neurology: Member since 2011
- Movement Disorders Society: Member since 2016

## **PRINT MEDIA AND TELEVISION:**

- <https://wchstv.com/news/healthy-for-life/botox-an-effective-treatment-for-dystonia>
- <https://www.wsaz.com/content/news/Hardwiring-Hope-A-Journey-Through-Parkinsons-Disease-506999361.html>
- <https://www.facebook.com/114779229167332/videos/608042136314695/>
- <https://www.wesh.com/article/parkinsons-awareness-month-early-detection-diagnosis/64364325>

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