



Jessica Falco-Walter

Clinical Associate Professor, Neurology & Neurological Sciences

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative/Alternate Contact**

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Bio

BIO

Jessica Falco-Walter, MD is board certified in Neurology as well as in Epilepsy and Clinical Neurophysiology and practices as a Clinical Assistant Professor of Neurology & Neurological Sciences at Stanford University. Dr. Walter received her BA in Cognitive Science with distinction from Yale University. She received her MD and completed her internship at Georgetown University School of Medicine and then completed her neurology residency at the Mount Sinai Medical Center of the Icahn School of Medicine. She then went on to pursue fellowship in Clinical Neurophysiology and Epilepsy at Rush University Medical Center, in Chicago, IL. She is board certified by the ABPN in Neurology, Clinical Neurophysiology, and Epilepsy. She was one of the first ABPN Epilepsy fellows in the country. Her clinical focus is diagnosis and treatment of seizure disorders and epilepsy, with commitment to treating complex patients and improving quality of life as well as seizure control.

She has a particular interest in dietary treatments for epilepsy and has created a clinic to better manage ketogenic diet treatments for adults with epilepsy. She has published research on ketogenic dietary treatments and continues to work on research related to Vitamin D and epilepsy. While she has particular interest in dietary treatments in epilepsy she is well versed in all currently available medications and surgical treatments for epilepsy and works with patients to treat epilepsy medically, surgically, and holistically. She is involved in research on new treatments for epilepsy as well.

Dr. Falco-Walter is the Students Interested in Neurology (SIGN) faculty lead for the Department of Neurology and really enjoys working with undergraduates and medical students at the beginning of their careers. She is the course instructor for the Introduction to Neurology Seminar that runs in the fall for medical students that introduces students to all the subspecialty areas within Neurology.

CLINICAL FOCUS

- Epilepsy
- Dietary Treatments of Epilepsy (ketogenic, modified atkins)

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Neurology & Neurological Sciences

ADMINISTRATIVE APPOINTMENTS

- Students Interested in Neurology (SIGN) Faculty Lead, Stanford chapter of American Academy of Neurology, (2020- present)
- Neurology Medical Education Sub-Committee, Stanford, (2022- present)
- Education Advisory Committee (Neurology), Stanford, (2023- present)
- Neurology Faculty Wellness Council, Stanford, (2022- present)
- Neurology Quality Council, Stanford, (2023- present)

HONORS AND AWARDS

- Emerging Leaders Program, American Academy of Neurology (AAN) (2021-2022)
- Fellows Program, American Epilepsy Society (AES) (2015-2016)
- Epilepsy Program, J. Kiffin Penry (2012)
- Intramural Training Award Recipient (IRTA), National Institutes of Health (NIH) (2005-2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Epilepsy Society (2015 - present)
- Member, American Clinical Neurophysiological Society (2015 - present)
- Member, American Academy of Neurology (2011 - present)

PROFESSIONAL EDUCATION

- Medical Education: Georgetown University School of Medicine (2010) DC
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2014)
- Fellowship: Rush University Epilepsy Fellowship (2016) IL
- Fellowship: Rush University Clinical Neurophysiology Fellowship (2015) IL
- Internship: Georgetown University Internal Medicine Residency (2011) DC
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2017)
- Board Certifications, American Board of Psychiatry and Neurology (ABPN) , Neurology, Clinical Neurophysiology
- Board Certification: Clinical Neurophysiology, American Board of Psychiatry and Neurology (2015)
- Fellowship, Rush University Medical Center (Chicago, IL) , Neurophysiology (2015), Epilepsy (2016)
- Residency, Mount Sinai Medical Center/Icahn School of Medicine (New York, NY) , Neurology (2014)
- Residency: Icahn School of Medicine at Mount Sinai Neurology Residency (2014) NY
- Internship, Georgetown University Hospital Center/Medstar (Washington, DC) , Internal Medicine (2011)
- MD, Georgetown University School of Medicine (Washington, DC) (2010)
- Undergrad, Yale University (New Haven, CT) , Cognitive Science (2005)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Inpatient, Dose-Ranging Study of Staccato Alprazolam in Epilepsy With Predictable Seizure Pattern, Recruiting

Teaching

COURSES

2023-24

- Introduction to Neurology Seminar: NENS 206 (Aut)

2022-23

- Introduction to Neurology Seminar: NENS 206 (Aut)

2021-22

- Introduction to Neurology Seminar: NENS 206 (Aut)

2020-21

- Introduction to Neurology Seminar: NENS 206 (Aut)

Publications

PUBLICATIONS

- **Impact of high-density EEG in presurgical evaluation for refractory epilepsy patients.** *Clinical neurology and neurosurgery*
Li, Y., Fogarty, A., Razavi, B., Ardestani, P. M., Falco-Walter, J., Werbaneth, K., Graber, K., Meador, K., Fisher, R. S.
2022; 219: 107336
- **Complex negative emotions induced by electrical stimulation of the human hypothalamus.** *Brain stimulation*
Parvizi, J., Veit, M. J., Barbosa, D. A., Kucyi, A., Perry, C., Parker, J. J., Shivacharan, R. S., Chen, F., Yih, J., Gross, J. J., Fisher, R., McNab, J. A., Falco-Walter, et al
2022
- **Epileptic Seizure Induced by Head-Up Tilt: A Case Series Study.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Toprani, S., Jaradeh, S., Falco-Walter, J. J.
2022
- **Patient and Clinician Perspectives of New and Return Ambulatory Teleneurology Visits.** *Neurology. Clinical practice*
Kling, S. M., Falco-Walter, J. J., Saliba-Gustafsson, E. A., Garvert, D. W., Brown-Johnson, C. G., Miller-Kuhlmann, R., Shaw, J. G., Asch, S. M., Yang, L., Gold, C. A., Winget, M.
1800; 11 (6): 472-483
- **Evaluation of Patient and Clinician Perspectives for New and Return Ambulatory Teleneurology Visits, with special attention to subspecialty differences**
Falco-Walter, J., Kling, S., Saliba-Gustafsson, E., Yang, L., Miller-Kuhlmann, R., Garvert, D., Brown-Johnson, C., Shaw, J., Asch, S., Winget, M., Gold, C.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Status epilepticus and other epileptiform EEG findings in patients with COVID-19**
Werbaneth, K., Chen, W., Toprani, S., Falco-Walter, J.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Resident-driven strategies to improve the educational experience of teleneurology**
Ng, J., Chen, J., Liu, M., Yang, L., Miller-Kuhlmann, R., Falco-Walter, J., Gold, C.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Selective Participation of Single Cortical Neurons in Neuronal Avalanches** *FRONTIERS IN NEURAL CIRCUITS*
Bellay, T., Shew, W. L., Yu, S., Falco-Walter, J. J., Plenz, D.
2021; 14: 620052
- **Epilepsy-Definition, Classification, Pathophysiology, and Epidemiology.** *Seminars in neurology*
Falco-Walter, J.
2020

- **Status epilepticus and other EEG findings in patients with COVID-19: A case series.** *Seizure*
Chen, W., Toprani, S., Werbaneth, K., Falco-Walter, J.
2020; 81: 198–200
- **Epileptic seizure induced by tilt-table testing: a case report**
Toprani, S., Falco-Walter, J.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Rapid implementation of video visits in neurology during COVID-19: a mixed methods evaluation.** *Journal of medical Internet research*
Saliba-Gustafsson, E. A., Miller-Kuhlmann, R. n., Kling, S. M., Garvert, D. W., Brown-Johnson, C. G., Lestoquoy, A. S., Verano, M. R., Yang, L. n., Falco-Walter, J. n., Shaw, J. G., Asch, S. M., Gold, C. A., Winget, et al
2020
- **Comparative neuropsychological effects of carbamazepine and eslicarbazepine acetate** *EPILEPSY & BEHAVIOR*
Meador, K. J., Seliger, J., Boyd, A., Razavi, B., Falco-Walter, J., Le, S., Loring, D. W.
2019; 94: 151–57
- **Modified ketogenic diets in adults with refractory epilepsy: Efficacious improvements in seizure frequency, seizure severity, and quality of life** *EPILEPSY & BEHAVIOR*
Roehl, K., Falco-Walter, J., Ouyang, B., Balabanov, A.
2019; 93: 113–18
- **Do certain subpopulations of adults with drug-resistant epilepsy respond better to modified ketogenic diet treatments? Evaluation based on prior resective surgery, type of epilepsy, imaging abnormalities, and vagal nerve stimulation.** *Epilepsy & behavior : E&B*
Falco-Walter, J. J., Roehl, K., Ouyang, B., Balabanov, A.
2019
- **Tripolar concentric EEG electrodes reduce noise.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*
Aghaei-Lasboo, A. n., Inoyama, K. n., Fogarty, A. S., Kuo, J. n., Meador, K. J., Walter, J. J., Le, S. T., Graber, K. D., Razavi, B. n., Fisher, R. S.
2019; 131 (1): 193–98
- **The new definition and classification of seizures and epilepsy.** *Epilepsy research*
Falco-Walter, J. J., Scheffer, I. E., Fisher, R. S.
2018; 139: 73–79
- **Magnetoencephalography and New Imaging Modalities in Epilepsy** *NEUROTHERAPEUTICS*
Falco-Walter, J., Owen, C., Sharma, M., Reggi, C., Yu, M., Stoub, T. R., Stein, M. A.
2017; 14 (1): 4-10
- **'Tickling' seizures originating in the left frontoparietal region.** *Epilepsy & behavior case reports*
Falco-Walter, J. J., Stein, M., McNulty, M., Romantseva, L., Heydemann, P.
2016; 6: 49-51
- **Treatment of Established Status Epilepticus.** *Journal of clinical medicine*
Falco-Walter, J. J., Bleck, T.
2016; 5 (5)

PRESENTATIONS

- Modified ketogenic diets improve outcomes, even in the most refractory epilepsy patients—those who have failed epilepsy surgery. - American Epilepsy Society Conference (12/11/2016)
- Modified ketogenic diet treatments in adults: efficacy within subgroups based on imaging abnormalities, seizure type, and diet type. - American Epilepsy Society Conference (12/12/2016 - 12/12/2016)
- Decrypting Cryptogenic Stroke: Etiologic Source of a Cryptogenic Stroke Uncovered due to High Intensity Transient Signals on Transcranial Doppler - American Society of Neuroimaging
- Intracellular single neuron activity during neuronal avalanches - Soc. Neurosci.
- Upregulation of the Ca²⁺ binding protein calbindin during development regulates internal Ca²⁺ release and Ca²⁺ waves in CA1 pyramidal neurons - Soc. Neurosci.
- Comparative Neuropsychological Effects of Carbamazepine and Eslicarbazepine Acetate - American Academy of Neurology (May 9, 2019)