



## Martha Morrell, MD

Clinical Professor, Adult Neurology

 NIH Biosketch available Online

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### BIO

Dr. Morrell is a Clinical Professor of Neurology at Stanford University since July 2004. Before joining NeuroPace, she was the Caitlin Tynan Doyle Professor of Clinical Neurology at Columbia University and Director of the Columbia Comprehensive Epilepsy Center at New York Presbyterian Hospital in New York City. Previously she was on the faculty of the Stanford University School of Medicine where she served as Director of the Stanford Comprehensive Epilepsy Center. A graduate of Stanford Medical School, she completed residency training in Neurology at the University of Pennsylvania, as well as fellowship training in EEG and epilepsy.

Dr. Morrell has been actively involved in helping to bring new medical and device therapies to patients with epilepsy. Since 2004, she has been Chief Medical Officer at NeuroPace, a company that developed a responsive neurostimulator for treatment of medically uncontrolled partial seizures. She has authored or coauthored more than 150 publications.

Service to professional societies includes member of the Board of Directors of the American Epilepsy Society, member and Chair of the Board of the Epilepsy Foundation, member of the Council of the American Neurological Association and Chair of the Epilepsy Section of the American Academy of Neurology. She is an elected Ambassador for Epilepsy of the International League Against Epilepsy and received the American Epilepsy Society's 2007 Service Award for outstanding leadership and service. She is the current President of the American Society for Experimental Neurotherapeutics.

#### CLINICAL FOCUS

- Epilepsy
- Epilepsy Device Therapy

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Adult Neurology

## PROFESSIONAL EDUCATION

- Medical Education: Stanford University School of Medicine (1984) CA
- Residency: University of Pennsylvania Health System (1988) PA
- Internship: University of Pennsylvania Health System (1985) PA
- Fellowship: Graduate Hospital (Closed) (1990) PA
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2013)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1989)

## LINKS

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

## Publications

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### PUBLICATIONS

- **Chronic thalamic recordings for idiopathic generalized epilepsy and Lennox-Gastaut syndrome: Ictal and interictal electrophysiological findings.** *Epilepsia open*  
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- **Vascular anomaly, lipoma, and polymicrogyria associated with schizencephaly: developmental and diagnostic insights. Illustrative case.** *Journal of neurosurgery. Case lessons*  
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- **Neuromodulation in 2035 The Neurology Future Forecasting Series** *NEUROLOGY*  
Denison, T., Morrell, M. J.  
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- **Neuromodulation in 2035: The Neurology Future Forecasting Series.** *Neurology*  
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- **Non-linear Embedding Methods for Identifying Similar Brain Activity in 1 Million iEEG Records Captured From 256 RNS System Patients.** *Frontiers in big data*  
Arcot Desai, S., Tcheng, T., Morrell, M.  
2022; 5: 840508
- **Acute effects of brain-responsive neurostimulation in drug-resistant partial onset epilepsy.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*  
Ronborg, S. N., Esteller, R., Tcheng, T. K., Greene, D. A., Morrell, M. J., Wesenberg Kjaer, T., Arcot Desai, S.  
2021

- **Mood and quality of life in patients treated with brain-responsive neurostimulation: The value of earlier intervention.** *Epilepsy & behavior : E&B*  
Loring, D. W., Jarosiewicz, B. n., Meador, K. J., Kanner, A. M., Skarpaas, T. L., Morrell, M. J.  
2021; 117: 107868
- **A High Accuracy Electrographic Seizure Classifier Trained Using Semi-Supervised Labeling Applied to a Large Spectrogram Dataset.** *Frontiers in neuroscience*  
Barry, W., Arcot Desai, S., Tcheng, T. K., Morrell, M. J.  
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- **Nine-year prospective efficacy and safety of brain-responsive neurostimulation for focal epilepsy.** *Neurology*  
Nair, D. R., Laxer, K. D., Weber, P. B., Murro, A. M., Park, Y. D., Barkley, G. L., Smith, B. J., Gwinn, R. P., Doherty, M. J., Noe, K. H., Zimmerman, R. S., Bergey, G. K., Anderson, et al  
2020
- **Mood and Quality of Life in Patients Treated with Brain-responsive Neurostimulation: The Value of Earlier Intervention**  
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- **Brain-Responsive Neurostimulation for Loss of Control Eating: Early Feasibility Study.** *Neurosurgery*  
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- **Electrocorticographic events from long-term ambulatory brain recordings can potentially supplement seizure diaries.** *Epilepsy research*  
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Skarpaas, T. L., Jarosiewicz, B., Morrell, M. J.  
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- **Quantitative electrocorticographic biomarkers of clinical outcomes in mesial temporal lobe epileptic patients treated with the RNS system.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*  
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LIPPINCOTT WILLIAMS & WILKINS.2019
- **Brain-responsive neurostimulation for epilepsy (RNS System).** *Epilepsy research*  
Skarpaas, T. L., Jarosiewicz, B., Morrell, M. J.  
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- **Fetal antiepileptic drug exposure and learning and memory functioning at 6#years of age: The NEAD prospective observational study.** *Epilepsy & behavior : E&B*  
Cohen, M. J., Meador, K. J., May, R., Loblein, H., Conrad, T., Baker, G. A., Bromley, R. L., Clayton-Smith, J., Kalayjian, L. A., Kanner, A., Liporace, J. D., Pennell, P. B., Privitera, et al  
2019; 92: 154–64

- **Treatment of drug-resistant epilepsy in patients with periventricular nodular heterotopia using RNS® System: Efficacy and description of chronic electrophysiological recordings.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*  
Nune, G. n., Arcot Desai, S. n., Razavi, B. n., Agostini, M. A., Bergey, G. K., Herekar, A. A., Hirsch, L. J., Lee, R. W., Rutecki, P. A., Srinivasan, S. n., Van Ness, P. C., Tcheng, T. K., Morrell, et al  
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- **linical and electrocorticographic response to antiepileptic drugs in patients treated with responsive stimulation** *EPILEPSY & BEHAVIOR*  
Skarpaas, T. L., Tcheng, T. K., Morrell, M. J.  
2018; 83: 192–200
- **Electrographic Correlates of Clinical Seizures**  
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- **Changes in the electrocorticogram after implantation of intracranial electrodes in humans: The implant effect** *CLINICAL NEUROPHYSIOLOGY*  
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Jobst, B. C., Skarpaas, T. L., Morrell, M. J.  
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King-Stephens, D., Mirro, E., Weber, P. B., Laxer, K. D., Van Ness, P. C., Salanova, V., Spencer, D. C., Heck, C. N., Goldman, A., Jobst, B., Shields, D. C., Bergey, G. K., Eisenschenk, et al  
2015; 56 (6): 959-967
- **Quality of life and mood in patients with medically intractable epilepsy treated with targeted responsive neurostimulation** *EPILEPSY & BEHAVIOR*  
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- **Long-term treatment with responsive brain stimulation in adults with refractory partial seizures** *NEUROLOGY*  
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2015; 84 (8): 810-817
- **The RNS System: responsive cortical stimulation for the treatment of refractory partial epilepsy** *EXPERT REVIEW OF MEDICAL DEVICES*  
Sun, F. T., Morrell, M. J.  
2014; 11 (6): 563-572
- **In response: The RNS System multicenter randomized double-blinded controlled trial of responsive cortical stimulation for adjunctive treatment of intractable partial epilepsy: Knowledge and insights gained** *EPILEPSIA*  
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- **Closed-loop Neurostimulation: The Clinical Experience** *NEUROTHERAPEUTICS*  
Sun, F. T., Morrell, M. J.  
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2008; 70 (18): 1586-1593
- **Responsive cortical stimulation for the treatment of epilepsy** *NEUROTHERAPEUTICS*  
Sun, F. T., Morrell, M. J., Wharen, R. E.  
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- **Brain stimulation for epilepsy: can scheduled or responsive neurostimulation stop seizures?** *Current opinion in neurology*  
Morrell, M.  
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- **Treatment of epilepsy in adults: expert opinion, 2005** *EPILEPSY & BEHAVIOR*  
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- **Bone mass and turnover in women with epilepsy on antiepileptic drug monotherapy** *ANNALS OF NEUROLOGY*  
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- **2005 update on the treatment of epilepsy: Survey of expert opinion** *59th Annual Meeting of the American-Epilepsy-Society/American-Clinical-Neurophysiology-Society*  
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Hirsch, L. J., Weintraub, D., Buchsbaum, R., Spencer, H. T., Hager, M., Strake, T., Bazil, C. W., Adams, D. J., Resor, S. R., Morrell, M. J.  
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2004; 5: S24-S29
- **Reproductive disturbances in patients with epilepsy.** *Cleveland Clinic journal of medicine*  
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- **Bone mineral density in an outpatient population receiving enzyme-inducing antiepileptic drugs** *EPILEPSY & BEHAVIOR*  
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- Morrell, M. J.  
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  - **Fenfluramine-Phentermine (Fen-Phen) and Seizures: Evidence for an Association** *EPILEPSY & BEHAVIOR*  
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