



Martha Morrell, MD

Clinical Professor, Neurology & Neurological Sciences

 NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

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Bio

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, Neurology & Neurological Sciences

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

PUBLICATIONS

- **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*
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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*
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2020
- **Mood and Quality of Life in Patients Treated with Brain-responsive Neurostimulation: The Value of Earlier Intervention**
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LIPPINCOTT WILLIAMS & WILKINS.2020
- **Mesial temporal resection following long-term ambulatory intracranial EEG monitoring with a direct brain-responsive neurostimulation system.** *Epilepsia*
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- **Brain-Responsive Neurostimulation for Loss of Control Eating: Early Feasibility Study.** *Neurosurgery*
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2020
- **The RNS System: brain-responsive neurostimulation for the treatment of epilepsy.** *Expert review of medical devices*
Jarosiewicz, B. n., Morrell, M. n.
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- **Electrocorticographic events from long-term ambulatory brain recordings can potentially supplement seizure diaries.** *Epilepsy research*
Quigg, M. n., Skarpaas, T. L., Spencer, D. C., Fountain, N. B., Jarosiewicz, B. n., Morrell, M. J.
2020; 161: 106302

- **Brain-responsive neurostimulation for epilepsy (RNS (R) System)** *EPILEPSY RESEARCH*
Skarpaas, T. L., Jarosiewicz, B., Morrell, M. J.
2019; 153: 68–70
- **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*
Arcot Desai, S., Tcheng, T. K., Morrell, M. J.
2019; 130 (8): 1364–74
- **Nine-year Prospective Safety and Effectiveness Outcomes from the Long-Term Treatment Trial of the RNS (R) System**
Nair, D., Morrell, M.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Brain-responsive neurostimulation for epilepsy (RNS System).** *Epilepsy research*
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2019
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- **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*
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- **linical and electrocorticographic response to antiepileptic drugs in patients treated with responsive stimulation** *EPILEPSY & BEHAVIOR*
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- **Electrographic Correlates of Clinical Seizures**
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2018; 129 (3): 676–86
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- **Brain-responsive neurostimulation in patients with medically intractable mesial temporal lobe epilepsy.** *Epilepsia*
Geller, E. B., Skarpaas, T. L., Gross, R. E., Goodman, R. R., Barkley, G. L., Bazil, C. W., Berg, M. J., Bergey, G. K., Cash, S. S., Cole, A. J., Duckrow, R. B., Edwards, J. C., Eisenschenk, et al
2017; 58 (6): 994-1004
- **Infection and Erosion Rates in Trials of a Craniially Implanted Neurostimulator Do Not Increase with Subsequent Neurostimulator Placements** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Weber, P. B., Kapur, R., Gwinn, R. P., Zimmerman, R. S., Courtney, T. A., Morrell, M. J.
2017; 95 (5): 325–29
- **Responsive Direct Brain Stimulation for Epilepsy.** *Neurosurgery clinics of North America*

- Morrell, M. J., Halpern, C.
2016; 27 (1): 111-121
- **Differential neuropsychological outcomes following targeted responsive neurostimulation for partial-onset epilepsy** *EPILEPSIA*
Loring, D. W., Kapur, R., Meador, K. J., Morrell, M. J.
2015; 56 (11): 1836-1844
 - **Day-Night Patterns of Epileptiform Activity in 65 Patients With Long-Term Ambulatory Electrocorticography** *JOURNAL OF CLINICAL NEUROPHYSIOLOGY*
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 - **The RNS System: responsive cortical stimulation for the treatment of refractory partial epilepsy** *EXPERT REVIEW OF MEDICAL DEVICES*
Sun, F. T., Morrell, M. J.
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 - **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*
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 - **Responsive cortical stimulation for the treatment of medically intractable partial epilepsy** *NEUROLOGY*
Morrell, M. J.
2011; 77 (13): 1295-1304
 - **Normal vitamin D and low free estradiol levels in women on enzyme-inducing antiepileptic drugs** *EPILEPSY & BEHAVIOR*
Pack, A. M., Morrell, M. J., McMahon, D. J., Shane, E.
2011; 21 (4): 453-458
 - **Closed-Loop Stimulation in the Control of Focal Epilepsy of Insular Origin** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Smith, J. R., Fountas, K. N., Murro, A. M., Park, Y. D., Jenkins, P. D., Morrell, M., Esteller, R., Greene, D.
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- **Intracranial Stimulation Therapy for Epilepsy** *4th Workshop on New Horizons in the Development of Antiepileptic Drugs*
Skarpaas, T. L., Morrell, M. J.
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- **Hyperandrogenism, ovulatory dysfunction, and polycystic ovary syndrome with valproate versus lamotrigine** *ANNALS OF NEUROLOGY*
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- **Bone health in young women with epilepsy after one year of antiepileptic drug monotherapy** *NEUROLOGY*
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- **Bone mineral density in an outpatient population receiving enzyme-inducing antiepileptic drugs** *EPILEPSY & BEHAVIOR*
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- **Reproductive and metabolic disorders in women with epilepsy** *5th European Congress on Epileptology*
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