



Martha Morrell, MD, PhD

Clinical Professor, Neurology & Neurological Sciences

 NIH Biosketch available Online

CLINICAL OFFICES

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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

- Neurology
- Epilepsy
- Epilepsy Device Therapy

ACADEMIC APPOINTMENTS

- Clinical Professor, Neurology & Neurological Sciences

ADMINISTRATIVE APPOINTMENTS

- President, American Society of Experimental NeuroTherapeutics, (2016-2018)

PROFESSIONAL EDUCATION

- 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)
- Medical Education: Stanford University School of Medicine Registrar (1984) CA

LINKS

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

Publications

PUBLICATIONS

- **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**
Loring, D., Jarosiewicz, B., Meador, K., Kanner, A., Skarpaas, T., Morrell, M.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Mesial temporal resection following long-term ambulatory intracranial EEG monitoring with a direct brain-responsive neurostimulation system.** *Epilepsia*
Hirsch, L. J., Mirro, E. A., Salanova, V., Witt, T. C., Drees, C. N., Brown, M., Lee, R. W., Sadler, T. L., Felton, E. A., Rutecki, P., Shin, H. W., Hadar, E., Hegde, et al
2020
- **Brain-Responsive Neurostimulation for Loss of Control Eating: Early Feasibility Study.** *Neurosurgery*
Wu, H., Adler, S., Azagury, D. E., Bohon, C., Safer, D. L., Barbosa, D. A., Bhati, M. T., Williams, N. R., Dunn, L. B., Tass, P. A., Knutson, B. D., Yutsis, M., Fraser, et al
2020
- **The RNS System: brain-responsive neurostimulation for the treatment of epilepsy.** *Expert review of medical devices*
Jarosiewicz, B., Morrell, M.
2020: 1–10
- **Electrocorticographic events from long-term ambulatory brain recordings can potentially supplement seizure diaries.** *Epilepsy research*
Quigg, M., Skarpaas, T. L., Spencer, D. C., Fountain, N. B., Jarosiewicz, B., 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., Tchong, 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*
Skarpaas, T. L., Jarosiewicz, B., Morrell, M. J.
2019
- **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., Arcot Desai, S., Razavi, B., Agostini, M. A., Bergey, G. K., Herekar, A. A., Hirsch, L. J., Lee, R. W., Rutecki, P. A., Srinivasan, S., Van Ness, P. C., Tcheng, T. K., Morrell, et al
2019; 130 (8): 1196–1207
- **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**
Desai, S., Tcheng, T., Morrell, M.
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Changes in the electrocorticogram after implantation of intracranial electrodes in humans: The implant effect** *CLINICAL NEUROPHYSIOLOGY*
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2018; 129 (3): 676–86
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Jobst, B. C., Kapur, R., Barkley, G. L., Bazil, C. W., Berg, M. J., Bergey, G. K., Boggs, J. G., Cash, S. S., Cole, A. J., Duchowny, M. S., Duckrow, R. B., Edwards, J. C., Eisenschenk, et al
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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
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- **Response: Therapeutic brain-responsive neurostimulation in eloquent cortex can be delivered without symptoms.** *Epilepsia*
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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*
Anderson, C. T., Tcheng, T. K., Sun, F. T., Morrell, M. J.

2015; 32 (5): 406-412

- **Lateralization of mesial temporal lobe epilepsy with chronic ambulatory electrocorticography** *EPILEPSIA*
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*
Meador, K. J., Kapur, R., Loring, D. W., Kanner, A. M., Morrell, M. J.
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- **Long-term treatment with responsive brain stimulation in adults with refractory partial seizures** *NEUROLOGY*
Bergey, G. K., Morrell, M. J., Mizrahi, E. M., Goldman, A., King-Stephens, D., Nair, D., Srinivasan, S., Jobst, B., Gross, R. E., Shields, D. C., Barkley, G., Salanova, V., Olejniczak, et al
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*
Morrell, M. J.
2014; 55 (9): 1470-1471
- **Closed-loop Neurostimulation: The Clinical Experience** *NEUROTHERAPEUTICS*
Sun, F. T., Morrell, M. J.
2014; 11 (3): 553-563
- **Two-year seizure reduction in adults with medically intractable partial onset epilepsy treated with responsive neurostimulation: Final results of the RNS System Pivotal trial** *EPILEPSIA*
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2014; 55 (3): 432-441
- **Long-Term Measurement of Impedance in Chronically Implanted Depth and Subdural Electrodes During Responsive Neurostimulation in Humans** *BRAIN STIMULATION*
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- **Responsive cortical stimulation for the treatment of medically intractable partial epilepsy** *NEUROLOGY*
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- **Normal vitamin D and low free estradiol levels in women on enzyme-inducing antiepileptic drugs** *EPILEPSY & BEHAVIOR*
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2011; 21 (4): 453-458
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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.
SPRINGER.2009: 238-43
- **Hyperandrogenism, ovulatory dysfunction, and polycystic ovary syndrome with valproate versus lamotrigine** *ANNALS OF NEUROLOGY*
Morrell, M. J., Hayes, F. J., Sluss, P. M., Adams, J. M., Bhatt, M., Ozkara, C., Warnock, C. R., Isojarvi, J.
2008; 64 (2): 200-211
- **Bone health in young women with epilepsy after one year of antiepileptic drug monotherapy** *NEUROLOGY*

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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.
2008; 5 (1): 68-74
 - **Brain stimulation for epilepsy: can scheduled or responsive neurostimulation stop seizures?** *Current opinion in neurology*
Morrell, M.
2006; 19 (2): 164-68
 - **Treatment of epilepsy in adults: expert opinion, 2005** *EPILEPSY & BEHAVIOR*
Karczeski, S., Morrell, M. J., Carpenter, D.
2005; 7: S1-S64
 - **Sexual dysfunction, sex steroid hormone abnormalities, and depression in women with epilepsy treated with antiepileptic drugs** *EPILEPSY & BEHAVIOR*
Morrell, M. J., Flynn, K. L., Done, S., Flaster, E., Kalayjian, L., Pack, A. M.
2005; 6 (3): 360-365
 - **Sex-steroid hormones in women with epilepsy.** *American journal of electroneurodiagnostic technology*
Jette, N., Morrell, M. J.
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 - **Bone mass and turnover in women with epilepsy on antiepileptic drug monotherapy** *ANNALS OF NEUROLOGY*
Pack, A. M., Morrell, M. J., Marcus, R., Holloway, L., Flaster, E., Done, S., Randall, A., Seale, C., Shane, E.
2005; 57 (2): 252-257
 - **2005 update on the treatment of epilepsy: Survey of expert opinion** *59th Annual Meeting of the American-Epilepsy-Society/American-Clinical-Neurophysiology-Society*
Karczeski, S. C., Morrell, M. J., Carpenter, D.
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 - **Correlating lamotrigine serum concentrations with tolerability in patients with epilepsy** *NEUROLOGY*
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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Pack, A. M., Morrell, M. J.
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 - **Endocrine and metabolic responses to long-term monotherapy with the antiepileptic drug valproate in the normally cycling rhesus monkey** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
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- **Higher androgens and weight gain with valproate compared with lamotrigine for epilepsy** *EPILEPSY RESEARCH*
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- **The KEEPER (TM)(1) trial: levetiracetam adjunctive treatment of partial-onset seizures in an open-label community-based study** *EPILEPSY RESEARCH*
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2003; 54 (2-3): 153-161
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Pack, A. M., Olarte, L. S., Morrell, M. J., Flaster, E., Resor, S. R., Shane, E.
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Choi, H., Morrell, M. J.
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- **Reproductive and metabolic disorders in women with epilepsy** *5th European Congress on Epileptology*
Morrell, M. J.
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- **Predictors of ovulatory failure in women with epilepsy** *ANNALS OF NEUROLOGY*
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Karczeski, S., Morrell, M. J.
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2002; 22 (3): 289-297
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2002; 22 (3): 247-258
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2002; 3 (6S2): 21–25
- **Folic Acid and Epilepsy.** *Epilepsy currents / American Epilepsy Society*
Morrell, M. J.
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Karczeski, S., Morrell, M., Carpenter, D.
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2001; 108 (1): 1-15
- **Reproductive dysfunction in women with epilepsy: antiepileptic drug effects on sex-steroid hormones.** *CNS spectrums*
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 - **Epilepsy: diagnosis and treatment in the 21st century.** *CNS spectrums*
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2001; 6 (9): 749-?
 - **Pregnancy and antiepileptic drugs.** *Current neurology and neuroscience reports*
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 - **Adverse effects of antiepileptic drugs on bone structure - Epidemiology, mechanisms and therapeutic implications** *CNS DRUGS*
Pack, A. M., Morrell, M. J.
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 - **Fenfluramine-Phentermine (Fen-Phen) and Seizures: Evidence for an Association** *EPILEPSY & BEHAVIOR*
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 - **Health issues for women with epilepsy: A descriptive survey to assess knowledge and awareness among healthcare providers** *JOURNAL OF WOMENS HEALTH & GENDER-BASED MEDICINE*
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LIPPINCOTT WILLIAMS & WILKINS.1999: S42-S48
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- **Dosing to efficacy with neurontin: The STEPS trial** *Symposium on Neurontin - Expanding the Clinical Experience*
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- **Guidelines for the care of women with epilepsy** *Consensus Conference on Current Clinical Practice at the 25th Annual Meeting of the Southern-Clinical-Neurological-Society*
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1998; 51 (4): 949-956
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Morrell, M. J.
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