



March 2019 News

PLEASE FORWARD TO YOUR COLLEAGUES

www.wikistim.org

If you are encountering this newsletter for the first time, please visit WIKISTIM's [ABOUT](#) section, which describes the site's unique resources and is accessible without registration.

WIKISTIM Abstract to be Featured at INS

We were delighted to learn that the INS Scientific Committee awarded our WIKISTIM update abstract a top score and accepted it for an Oral and Poster Presentation within a Scientific Session at the 14th World Congress of INS in Sydney, Australia, in May. Our Editor-in-Chief, Dr. Richard B. North, will make the presentation. He would be delighted to speak with any of you who might be in attendance.

Spreading the Word

Jonathan Young, MD, our noninvasive brain stimulation editor (whom we featured in last month's newsletter), is working with a group of students to fill in WIKISTIM data sheets for his upcoming section. He and his students recently created a poster on WIKISTIM for presentation at a symposium at the Duke Institute for Brain Sciences. We are looking forward to the launch of Dr. Young's section of WIKISTIM!

Save the Date

Our friends Eric Grigsby, MD, MBA, and Elliot Krames, MD, (our dorsal root ganglion stimulation section editor) asked up to alert our readers to the 26th Annual NAPA Pain Conference, which will take place August 15-18, 2019 in Napa, California. Drs. Grigsby and Krames have a distinguished track record of producing excellent educational programs.

March 2019 STATISTICS

Most clicked PUBMED links during the past month from previous newsletters

1. Sivanesan E, Bicket MC, Cohen SP. Retrospective analysis of complications associated with dorsal root ganglion stimulation for pain relief in the FDA MAUDE database. *Reg Anesth Pain Med* 2019 44(1):100-106 <https://www.ncbi.nlm.nih.gov/pubmed/30640660>
2. Duse G, Reverberi C, Dario A. Effects of multiple waveforms on patient preferences and clinical outcomes in patients treated with spinal cord stimulation for leg and/or back pain. *Neuromodulation* 2019 22(2):200-207 <https://www.ncbi.nlm.nih.gov/pubmed/30548106>.
3. *FOR THE SECOND MONTH:* North RB, Shipley J. WIKISTIM.org: an on-line database of published neurostimulation studies. *Neuromodulation* 2018 21(8):828-836 <https://www.ncbi.nlm.nih.gov/pubmed/30489670>
4. Kohli G, Amin S, Herschman Y, Mammis A. Retained catheter during placement of dorsal root ganglion stimulator: a case report. *Br J Pain* 2019 13(1):32-34 <https://www.ncbi.nlm.nih.gov/pubmed/30671236>

5. *FOR THE SECOND MONTH:* Schwarm FP, Stein M, Uhl E, Maxeiner H, Kolodziej MA. A retrospective analysis of 25 cases with peripheral nerve field stimulation for chronic low back pain and the predictive value of transcutaneous electrical nerve stimulation for patient selection. *Neuromodulation* 2018 epub <https://www.ncbi.nlm.nih.gov/pubmed/30548104>

Membership

In the short month of February, the number of our subscribers grew by 22 to 912. Thank you for spreading the word!

Number of citations in each section

- DBS 4783, with 2 completed WIKISTIM abstracts
- DRG 96, with 9 completed WIKISTIM abstracts
- GES 483
- PNS 55
- SCS 2296, with 129 completed or partially completed WIKISTIM abstracts
- SNS 926

SUPPORT FOR WIKISTIM

Please consider making a donation via PAYPAL using this [DONATE](#) link or by sending a check to The Neuromodulation Foundation, 117 East 25th Street, Baltimore, MD 21218. Please encourage institutional and corporate sponsors as well. We'd love to add your name and theirs to our list of financial supporters below!

Individual supporters in 2018

- Richard B. North, MD
- B. Todd Sitzman, MD, MPH

Industry support 2018-19

- Boston Scientific
- Medtronic
- Nevro
- Nuvectra

Nonprofit support

- The International Neuromodulation Society (publicity and conference registration)
- The Neuromodulation Foundation, Inc. (WIKISTIM's parent organization)
- The North American Neuromodulation Society

CITATIONS ADDED February 28, 2019

DBS

1. Adams SD, Bennet KE, Tye SJ, Berk M, Kouzani AZ. Development of a miniature device for emerging deep brain stimulation paradigms. *PLOS One* 2019 14(2):e0212554 <https://www.ncbi.nlm.nih.gov/pubmed/30789946>
2. Aiello M, Terenzi D, Furlanis G, Catalan M, Manganotti P, Eleopra R, Belgrado E, Rumiati RI. Deep brain stimulation of the subthalamic nucleus and the temporal discounting of primary and secondary rewards. *J Neurol* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30762102>
3. Avecillas-Chasin JM, Alonso-Frech F, Nombela C, Villanueva C, Barcia JA. Stimulation of the tractography-defined subthalamic nucleus regions correlates with clinical outcomes. *Neurosurgery* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30690487>

4. Baertschi M, Favez N, Flores Alves Dos Santos J, Radomska M, Herrmann F, Burkhard P, Canuto A, Weber K. The Impact of deep brain stimulation for Parkinson's disease on couple satisfaction: an 18-month longitudinal study. *J Clin Psychol Med Settings* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30706305>
5. Bagatti D, D'Ammando A, Franzini A, Messina G. Deep brain stimulation of the caudal zona incerta/motor thalamus for post-ischemic dystonic tremor of the left upper limb. case report and review of the literature. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30738935>
6. Baldermann JC, Melzer C, Zapf A, Kohl S, Timmermann L, Tittgemeyer M, Huys D, Visser-Vandewalle V, Kühn AA, Horn A, Kuhn J. Connectivity profile predictive of effective deep brain stimulation in obsessive-compulsive disorder. *Biol Psychiatry* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30777287>
7. Bazzu G, Serra PA, Hamelink R, Feenstra MGP, Willuhn I, Denys D. Monitoring deep brain stimulation by measuring regional brain oxygen responses in freely moving mice. *J Neurosci Methods* 2019 317:20-28 <https://www.ncbi.nlm.nih.gov/pubmed/30716350>
8. Boutet A, Hancu I, Saha U, Crawley A, Xu DS, Ranjan M, Hlasny E, Chen R, Foltz W, Sammartino F, Coblenz A, Kucharczyk W, Lozano AM. 3-Tesla MRI of deep brain stimulation patients: safety assessment of coils and pulse sequences. *J Neurosurg* 2019 epub:1-9 <https://www.ncbi.nlm.nih.gov/pubmed/30797197>
9. Chrabaszcz A, Neumann WJ, Stretcu O, Lipski WJ, Bush A, Dastolfo-Hromack C, Wang D, Crammond DJ, Shaiman S, Dickey MW, Holt LL, Turner RS, Fiez JA, Richardson RM. Subthalamic nucleus and sensorimotor cortex activity during speech production. *J Neurosci* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30700532>
10. Costentin G, Derrey S, Gérardin E, Cruypeninck Y, Pressat-Laffouilhere T, Anouar Y, Wallon D, Le Goff F, Welter ML, Maltête D. White matter tracts lesions and decline of verbal fluency after deep brain stimulation in Parkinson's disease. *Hum Brain Mapp* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30779251>
11. Dafsari HS, Martinez-Martin P, Rizos A, Trost M, Dos Santos Ghilardi MG, Reddy P, Sauerbier A, Petry-Schmelzer JN, Kramberger M, Borgemeester RWK, Barbe MT, Ashkan K, Silverdale M, Evans J, Odin P, Fonoff ET, Fink GR, Henriksen T, Ebersbach G, Pirtošek Z, Visser-Vandewalle V, Antonini A, Timmermann L, Ray Chaudhuri K; EUROPAR and the International Parkinson and Movement Disorders Society Non-Motor Parkinson's Disease Study Group. EuroInf 2: Subthalamic stimulation, apomorphine, and levodopa infusion in Parkinson's disease. *Mov Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30719763>
12. Di Giulio I, Kalliolia E, Georgiev D, Peters AL, Voyce DC, Akram H, Foltyne T, Limousin P, Day BL. Chronic subthalamic nucleus stimulation in Parkinson's disease: optimal frequency for gait depends on stimulation site and axial symptoms. *Front Neurol* 2019 epub 10:29 <https://www.ncbi.nlm.nih.gov/pubmed/30800094>
13. Doshi PK, Hegde A, Desai A. Nucleus accumbens (NAc) DBS for obsessive compulsive disorder and aggression in an autistic patient: a case report and hypothesis of the role of NAc in autism and co-morbid symptoms. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30797934>
14. Feng Z, Ma W, Wang Z, Qiu C, Hu H. Small changes in inter-pulse-intervals can cause synchronized neuronal firing during high-frequency stimulations in rat hippocampus. *Front Neurosci* 2019 epub 13:36 <https://www.ncbi.nlm.nih.gov/pubmed/30766474>
15. Filipescu C, Lagarde S, Lambert I, Pizzo F, Trébuchon A, McGonigal A, Scavarda D, Carron R, Bartolomei F. The effect of medial pulvinar stimulation on temporal lobe seizures. *Epilepsia* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30767195>

16. Gimeno H, Brown RG, Lin JP, Cornelius V, Polatajko HJ. Cognitive approach to rehabilitation in children with hyperkinetic movement disorders post-DBS. *Neurology* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30796136>
17. Gondard E, Teves L, Wang L, McKinnon C, Hamani C, Kalia SK, Carlen PL, Tymianski M, Lozano AM. Deep brain stimulation rescues memory and synaptic activity in a rat model of global ischemia. *J Neurosci* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30696731>
18. Gorecka-Mazur A, Furgała A, Krygowska-Wajs A, Pietraszko W, Kwinta B, Gil K. Daily living activities and their relationship to health-related quality of life in Parkinson's disease patients after subthalamic nucleus deep brain stimulation. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30716489>
19. Gottshall JL, Adams ZM, Forgacs PB, Schiff ND. Daytime central thalamic deep brain stimulation modulates sleep dynamics in the severely injured brain: mechanistic insights and a novel framework for alpha-delta sleep generation. *Front Neurol* 2019 epub 10:20 <https://www.ncbi.nlm.nih.gov/pubmed/30778326>
20. Grewal SS, ReFaey K, Grassle AL, Uitti RJ, Wharen RE Jr. A curious case of DBS radiofrequency programmer interference. *NPJ Parkinsons Dis* 2019 epub 5:3 <https://www.ncbi.nlm.nih.gov/pubmed/30729152>
21. Haas K, Stangl S, Steigerwald F, Matthies C, Gruber D, Kühn AA, Krauss JK, Sixel-Döring F, von Eckardstein K, Deuschl G, Classen J, Winkler D, Voges J, Galazky I, Oertel W, Ceballos-Baumann AO, Lange M, Gharabaghi A, Weiss DT, Volkmann J, Heuschmann PU. Development of evidence-based quality indicators for deep brain stimulation in patients with Parkinson's disease and first year experience of implementation of a nation-wide registry. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30772278>
22. Hansen AL, Krell-Roesch J, Kirlin KA, Limback-Stokin MM, Roesler K, Velgos SN, Lyons MK, Geda YE, Mehta SH. Deep brain stimulation and cognitive outcomes among patients with Parkinson's disease: a historical cohort study. *J Neuropsychiatry Clin Neurosci* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30791806>
23. Hatz F, Meyer A, Roesch A, Taub E, Gschwandtner U, Fuhr P. Quantitative EEG and verbal fluency in DBS patients: comparison of stimulator-on and -off conditions. *Front Neurol* 2019 epub 9:1152 <https://www.ncbi.nlm.nih.gov/pubmed/30687215>
24. Howell B, Gunalan K, McIntyre CC. A driving-force predictor for estimating pathway activation in patient-specific models of deep brain stimulation. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30775834>
25. Huys D, Kohl S, Baldermann JC, Timmermann L, Sturm V, Visser-Vandewalle V, Kuhn J. Open-label trial of anterior limb of internal capsule-nucleus accumbens deep brain stimulation for obsessive-compulsive disorder: insights gained. *J Neurol Neurosurg Psychiatry* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30770458>
26. Izadi A, Pevzner A, Lee DJ, Ekstrom AD, Shahlaie K, Gurkoff GG. Medial septal stimulation increases seizure threshold and improves cognition in epileptic rats. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30733144>
27. Karachi C, Cormier-Dequaire F, Grabli D, Lau B, Belaid H, Navarro S, Vidailhet M, Bardinet E, Fernandez-Vidal S, Welter ML. Clinical and anatomical predictors for freezing of gait and falls after subthalamic deep brain stimulation in Parkinson's disease patients. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30704853>
28. Khan AN, Bronstein A, Bain P, Pavese N, Nandi D. Pedunculopontine and subthalamic nucleus stimulation's effect on saccades in Parkinson's disease. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30797925>
29. Koerbel A, Amaral ARD, Zeh HB, Wollmann E, Koerbel RFH, Moro C, Longo AL. Treatment of hemichoreoathetosis with arrhythmic proximal tremor after stroke: the role of zona incerta as a

- target for deep brain stimulation. *J Mov Disord* 2019; 12(1):47-51
<https://www.ncbi.nlm.nih.gov/pubmed/30732433>
30. Kojovic M, Higgins A, Mir P, Jahanshahi M. Enhanced motivational modulation of motor behaviour with subthalamic nucleus deep brain stimulation in Parkinson's disease. *Parkinsons Dis* 2019; epub 2019:3604372 <https://www.ncbi.nlm.nih.gov/pubmed/30719276>
31. Kroneberg D, Ewert S, Meyer AC, Kühn AA. Shorter pulse width reduces gait disturbances following deep brain stimulation for essential tremor. *J Neurol Neurosurg Psychiatry* 2019; epub <https://www.ncbi.nlm.nih.gov/pubmed/30765417>
32. Lee DJ, Milosevic L, Gramer R, Sasikumar S, Al-Ozzi TM, De Vloo P, Dallapiazza RF, Elias GJB, Cohn M, Kalia SK, Hutchison WD, Fasano A, Lozano AM. Nucleus basalis of Meynert neuronal activity in Parkinson's disease. *J Neurosurg* 2019; epub:1-9 <https://www.ncbi.nlm.nih.gov/pubmed/30797189>
33. Liu FT, Lang LQ, Zhou RY, Feng R, Hu J, Wang J, Wu JJ. Urinary incontinence following deep brain stimulation of the globus pallidus internus: case report. *J Neurosurg* 2019; epub:1-3 <https://www.ncbi.nlm.nih.gov/pubmed/30797198>
34. Magdaleno-Madrigal VM, Contreras-Murillo G, Valdés-Cruz A, Martínez-Vargas D, Martínez A, Villasana-Salazar B, Almazán-Alvarado S. Effects of high- and low-frequency stimulation of the thalamic reticular nucleus on pentylenetetrazole-induced seizures in rats. *Neuromodulation* 2019; epub <https://www.ncbi.nlm.nih.gov/pubmed/30742344>
35. McElcheran CE, Golestanirad L, Iacono MI, Wei PS, Yang B, Anderson KJT, Bonmassar G, Graham SJ. Numerical simulations of realistic lead trajectories and an experimental verification support the efficacy of parallel radiofrequency transmission to reduce heating of deep brain stimulation implants during MRI. *Sci Rep* 2019; 9(1):2124 <https://www.ncbi.nlm.nih.gov/pubmed/30765724>
36. Meidahl AC, Moll CKE, van Wijk B, Gulberti A, Tinkhauser G, Westphal M, Engel AK, Hamel W, Brown P, Sharott A. Synchronised spiking activity underlies phase amplitude coupling in the subthalamic nucleus of Parkinson's disease patients. *Neurobiol Dis* 2019; epub <https://www.ncbi.nlm.nih.gov/pubmed/30753889>
37. Morishita T, Higuchi MA, Kobayashi H, Abe H, Higashi T, Inoue T. A retrospective evaluation of thalamic targeting for tremor deep brain stimulation using high-resolution anatomical imaging with supplementary fiber tractography. *J Neurol Sci* 2019; 398:148-156 <https://www.ncbi.nlm.nih.gov/pubmed/30716581>
38. Nathoo N, Sankar T, Suchowersky O, Ba F. Deep brain stimulation as a rescue when duodenal levodopa infusion fails. *Can J Neurol Sci* 2019; 46(1):130-131 <https://www.ncbi.nlm.nih.gov/pubmed/30688202>
39. Papp M, Gruca P, Lason M, Niemczyk M, Willner P. The role of prefrontal cortex dopamine D2 and D3 receptors in the mechanism of action of venlafaxine and deep brain stimulation in animal models of treatment-responsive and treatment-resistant depression. *J Psychopharmacol* 2019; epub <https://www.ncbi.nlm.nih.gov/pubmed/30789286>
40. Paschen S, Forstenpointner J, Becktepe J, Heinzel S, Hellriegel H, Witt K, Helmers AK, Deuschl G. Long-term efficacy of deep brain stimulation for essential tremor: an observer-blinded study. *Neurology* 2019; epub <https://www.ncbi.nlm.nih.gov/pubmed/30787161>
41. Perera T, Lee WL, Jones M, Tan JL, Proud EL, Begg A, Sinclair NC, Peppard R, McDermott HJ. A palm-worn device to quantify rigidity in Parkinson's disease. *J Neurosci Methods* 2019; 317:113-120 <https://www.ncbi.nlm.nih.gov/pubmed/30776378>
42. Perez PL, Wang SS, Heath S, Henderson-Sabes J, Mizuiri D, Hinkley LB, Nagarajan SS, Larson PS, Cheung SW. Human caudate nucleus subdivisions in tinnitus modulation. *J Neurosurg* 2019; epub:1-7 <https://www.ncbi.nlm.nih.gov/pubmed/30738400>
43. Polosan M, Droux F, Kibleur A, Chabardes S, Bougerol T, David O, Krack P, Voon V. Affective modulation of the associative-limbic subthalamic nucleus: deep brain stimulation in obsessive-

- compulsive disorder. *Transl Psychiatry* 2019;9(1):73
<https://www.ncbi.nlm.nih.gov/pubmed/30718450>
44. Qu L, Ge S, Li N, Wang W, Yang K, Wu P, Wang X, Shi J. Clinical evaluation of deep brain stimulation of nucleus accumbens/anterior limb of internal capsule for opioid relapse prevention: protocol of a multicentre, prospective and double-blinded study. *BMJ Open* 2019;9(2):e023516
<https://www.ncbi.nlm.nih.gov/pubmed/30765398>
45. Rätsep T, Aser T. Influence of alarming auditory cues on viscoelastic stiffness of skeletal muscles in patients with Parkinson's disease. *Clin Biomech (Bristol, Avon)* 2019;62:93-95
<https://www.ncbi.nlm.nih.gov/pubmed/30711736>
46. Riva-Posse P, Inman CS, Choi KS, Crowell AL, Gross RE, Hamann S, Mayberg HS. Autonomic arousal elicited by subcallosal cingulate stimulation is explained by white matter connectivity. *Brain Stimul* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30738778>
47. Roet M, Pol S, Schaper FLWVJ, Hoogland G, Jahanshahi A, Temel Y. Severe seizures as a side effect of deep brain stimulation in the dorsal peduncular cortex in a rat model of depression. *Epilepsy Behav* 2019;92:269-275
<https://www.ncbi.nlm.nih.gov/pubmed/30731292>
48. Sarno M, Gaztanaga W, Banerjee N, Bure-Reyes A, Rooks J, Margolesky J, Luca C, Singer C, Moore H, Jagid J, Levin B. Revisiting eligibility for deep brain stimulation: do preoperative mood symptoms predict outcomes in Parkinson's disease patients? *Parkinsonism Relat Disord* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30799236>
49. Schuepbach WMM, Tonder L, Schnitzler A, Krack P, Rau J, Hartmann A, Hälbig T, Pineau F, Falk A, Paschen L, Paschen S, Volkmann J, Dafsari HS, Barbe MT, Fink GR, Kühn A, Kupsch A, Schneider GH, Seigneuret E, Fraix V, Kistner A, Chaynes PP, Ory-Magne F, Brefel-Courbon C, Vesper J, Wojtecki L, Derrey S, Maltête D, Damie P, Derkinderen P, Sixel-Döring F, Trenkwalder C, Gharabaghi A, Wächter T, Weiss D, Pinsker MO, Regis JM, Witjas T, Thobois S, Mertens P, Knudsen K, Schade-Brittinger C, Houeto JL, Agid Y, Vidailhet M, Timmermann L, Deuschl G; EARLYSTIM study group. Quality of life predicts outcome of deep brain stimulation in early Parkinson disease. *Neurology* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30737338>
50. Sharma VD, Lyons KE, Nazzaro JM, Pahwa R. Deep brain stimulation of the subthalamic nucleus in Parkinson's disease patients over 75 years of age. *J Neurol Sci* 2019;399:57-60
<https://www.ncbi.nlm.nih.gov/pubmed/30772762>
51. Son BC, Kim JS, Park WC, Ko HC. Management of pulse generators in a breast cancer patient with in situ subthalamic nucleus deep brain stimulation. *J Neurol Surg A Cent Eur Neurosurg* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30708388>
52. Steiner LA, Barreda Tomás FJ, Planert H, Alle H, Vida I, Geiger JRP. Connectivity and dynamics underlying synaptic control of the subthalamic nucleus. *J Neurosci* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30700533>
53. Strapasson ACP, Martins Antunes ÁC, Oppitz PP, Dalsin M, Roberto de Mello Rieder C. Postoperative confusion in patients with Parkinson's disease undergoing deep brain stimulation of the subthalamic nucleus. *World Neurosurg* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30763744>
54. Tsai ST, Chen TY, Lin SH, Chen SY. Five-year clinical outcomes of local versus general anesthesia deep brain stimulation for Parkinson's disease. *Parkinsons Dis* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30800263>
55. VanSickle D, Volk V, Freeman P, Henry J, Baldwin M, Fitzpatrick CK. Electrode placement accuracy in robot-assisted asleep deep brain stimulation. *Ann Biomed Eng* 2019;epub
<https://www.ncbi.nlm.nih.gov/pubmed/30796551>
56. Walker HC, Faulk J, Rahman AF, Gonzalez CL, Roush P, Nakhmani A, Crowell JL, Guthrie BL. Awake testing during deep brain stimulation surgery predicts postoperative stimulation side effect thresholds. *Brain Sci* 2019;9(2);epub
<https://www.ncbi.nlm.nih.gov/pubmed/30781641>

57. Welter ML, Houeto JL, Worbe Y, Diallo MH, Hartmann A, Tezenas du Montcel S, Ansquer S, Thobois S, Fontaine D, Rouaud T, Cuny E, Karachi C, Mallet L; STIC study group. Long-term effects of anterior pallidal deep brain stimulation for Tourette's syndrome. *Mov Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30788865>
58. Wolf ME, Blahak C, Saryyeva A, Schrader C, Krauss JK. Deep brain stimulation for dystonia-choreoathetosis in cerebral palsy: pallidal versus thalamic stimulation. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30718219>
59. Yacoub A, Mohyuddin GR, Nazzaro JM. Bilateral subthalamic nucleus deep brain stimulation with microelectrode recordings in the setting of mild inherited hemophilia B: a case report. *Int J Neurosci* 2019 epub:1-4 <https://www.ncbi.nlm.nih.gov/pubmed/30795708>
60. Zhang D, Lin H, Liu J, Liu Z, Yan J, Cai X. Electrode reconstruction assists postoperative contact selection in deep brain stimulation. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30708078>
61. Zoon TJ, de Bie RM, Schuurman PR, van den Munckhof P, Denys D, Figege M. Resolution of apathy after dorsal instead of ventral subthalamic deep brain stimulation for Parkinson's disease. *J Neurol* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30788615>

DRG

1. Ho KWD, Rempe T, Jerath N, Antony A. Dorsal root ganglion stimulation as a potentially effective treatment for painful hereditary and idiopathic axonal polyneuropathy: a retrospective case series. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30762923>
2. Verrills P, Mitchell B, Vivian D, Cusack W, Kramer J. Dorsal root ganglion stimulation is paresthesia-independent: a retrospective study. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30701632>

GES

1. Abell TL, Kedar A, Stocker A, Beatty K, McElmurray L, Hughes M, Rashed H, Kennedy W, Wendelschafer-Crabb G, Yang X, Fraig M, Omer E, Miller E, Griswold M, Pinkston C. Gastroparesis syndromes: response to electrical stimulation. *Neurogastroenterol Motil* 2019 epub:e13534 <https://www.ncbi.nlm.nih.gov/pubmed/30706646>
2. Alighaleh S, Cheng LK, Angeli TR, Amiri M, Sathar S, O'Grady G, Paskaranandavadiel N. A novel gastric pacing device to modulate slow waves and assessment by high-resolution mapping. *IEEE Trans Biomed Eng* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30735980>
3. Dong Y, Li S, Yin J, Chen JDZ. Ameliorating effects of optimized gastric electrical stimulation and mechanisms involving nerve growth factor and opioids in a rodent model of gastric hypersensitivity. *Neurogastroenterol Motil* 2019 epub:e13551 <https://www.ncbi.nlm.nih.gov/pubmed/30790401>
4. Ouyang X, Li S, Tan Y, Lin L, Yin J, Chen JDZ. Intestinal electrical stimulation attenuates hyperglycemia and prevents loss of pancreatic β cells in type 2 diabetic Goto-Kakizaki rats. *Nutr Diabetes* 2019 9(1):4 <https://www.ncbi.nlm.nih.gov/pubmed/30728346>
5. Wang R, Abukhalaf Z, Javan-Khoshkholgh A, Wang TH, Sathar S, Du P, Angeli TR, Cheng LK, O'Grady G, Paskaranandavadiel N, Farajidavar A. A miniature configurable wireless system for recording gastric electrophysiological activity and delivering high-energy electrical stimulation. *IEEE J Emerg Sel Top Circuits Syst* 2018 8(2):221-229 <https://www.ncbi.nlm.nih.gov/pubmed/30687579>

SCS

1. De Vloo P, Reddy GD, Rowland N, Sammartino F, Llinas M, Paul D, Murray BJ, Lang AE, Fasano A, Munhoz RP, Kalia SK. Successful spinal cord stimulation for severe medication-refractory restless legs syndrome. *Mov Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30768799>
2. Delange Segura L, Rodríguez Padilla M, Palomino Jiménez MT, Fernández Baena M, Rodríguez Staff JF. Salvage therapy with burst spinal cord stimulation for chronic pancreatitis: a case report. *Pain Pract* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30721552>
3. Gao JB, Bao M. Case report of the treatment of diabetic foot disease using spinal cord stimulation. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30713010>
4. Garzón S JC, Poveda DS, Guardo LA, Garzón S A, Zaballos FH, Montero FJS, Santos L J, Calvo V JM. Evaluation through transcutaneous tissue oximetry (near infrared spectroscopy) of spinal cord stimulation in patients with complex regional pain syndrome type I. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30786089>
5. Guiho T, Azevedo-Coste C, Guiraud D, Delleci C, Capon G, Delgado-Piccoli N, Bauchet L, Vignes JR. Validation of a methodology for neuro-urological and lumbosacral stimulation studies in domestic pigs: a humanlike animal model. *J Neurosurg Spine* 2019 epub:1-11 <https://www.ncbi.nlm.nih.gov/pubmed/30771756>
6. Kamieniak P, Bielewicz J, Grochowski C, Litak J, Bojarska-Junak A, Daniluk B, Trojanowski T. The elevated serum level of IFN-γ in patients with failed back surgery syndrome remains unchanged after spinal cord stimulation. *Dis Markers* 2019 epub:2019:2606808 <https://www.ncbi.nlm.nih.gov/pubmed/30755780>
7. Klinkova A, Kamenskaya O, Ashurkov A, Murtazin V, Orlov K, Lomivorotov VV, Karaskov A. The clinical outcomes in patients with critical limb ischemia one year after spinal cord stimulation. *Ann Vasc Surg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30802587>
8. Kowalski KE, Romaniuk JR, Kirkwood PA, DiMarco AF. Inspiratory muscle activation via ventral lower thoracic high frequency spinal cord stimulation. *J Appl Physiol (1985)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30763163>
9. Maatta J, Martikainen A, Pakarinen M, Ikaheimo TM, Nissen M, von Und Zu Fraunberg M, Viinamaki H, Huttunen J. High level of childhood trauma predicts a poor response to spinal cord stimulation in chronic neuropathic pain. *Pain Physician* 2019 22(1):E37-E44 <https://www.ncbi.nlm.nih.gov/pubmed/30700077>
10. Maldonado-Naranjo AL, Golubovsky JL, Frizon LA, Hogue O, Lobel DA, Machado AG, Steinmetz MP, Nagel SJ. The role of additional spine surgery in the management of failed back surgery syndrome, complex regional pain syndrome, and intractable pain in the setting of previous or concurrent spinal cord stimulation: indications and outcomes. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30703586>
11. Paz Solis J, Román Aragón M. Spontaneous ascending migration of a paddle lead. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30786084>
12. Rigoard P, Basu S, Desai M, Taylor R, Annemans L, Tan Y, Johnson MJ, Van den Abeele C, North R; PROMISE Study Group. Multicolumn spinal cord stimulation for predominant back pain in failed back surgery syndrome patients: a multicenter randomized controlled trial. *Pain* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30720582>
13. Rovlias A. Infected internal pulse generator of a spinal cord stimulator device treated successfully without removal: a case report. *J Neurosci Rural Pract* 2019 10(1):168-169 <https://www.ncbi.nlm.nih.gov/pubmed/30766001>

SNS

1. Amin K, Moskowitz D, Kobashi KC, Lee UJ, Lucioni A. Do patients discontinue overactive bladder medications after sacral neuromodulation? *J Urol* 2019 epub

- <https://www.ncbi.nlm.nih.gov/pubmed/30694936>
2. Brouillard CBJ, Crook JJ, Lovick TA. Suppression of urinary voiding 'on demand' by high-frequency stimulation of the S1 sacral nerve root in anesthetized rats. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30786100>
 3. Fassov J, Lundby L, Laurberg S, Krogh K. Sacral nerve modulation for irritable bowel syndrome: a randomized, double-blinded, placebo-controlled crossover study. *Neurogastroenterol Motil* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30793441>
 4. Husk KE, Norris LD, Willis-Gray MG, Borawski KM, Geller EJ. Variation in bony landmarks and predictors of success with sacral neuromodulation. *Int Urogynecol J* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30729252>
 5. Manjunath A, Keeter MK, Koloms K, Kielb SJ. Abdominal versus standard placement of the sacral nerve stimulator implantable pulse generator. *Urology* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30794909>
 6. Yuan AS, Almodovar JL, Erikson E. Neurologic injury after sacral neuromodulation. *Female Pelvic Med Reconstr Surg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30730349>

A REMINDER ABOUT PERSONAL INFORMATION

We never share our registrants' personal information or email addresses.

EDITORIAL BOARD

Editor-in-chief

[Richard B. North, MD](#)

Section editors

[Thomas Abell, MD](#), Gastric Electrical Stimulation

Tracy Cameron, PhD, Peripheral Nerve Stimulation

[Roger Dmochowski, MD](#), Sacral Nerve Stimulation

Robert Foreman, MD, PhD, Experimental Studies

Elliot Krames, MD, Dorsal Root Ganglion Stimulation

[Bengt Linderoth, MD, PhD](#), Experimental Studies

[Richard B. North, MD](#), Spinal Cord Stimulation

B. Todd Sitzman, MD, MPH, At Large

[Konstantin Slavin, MD](#), Deep Brain Stimulation

[Kristl Vonck, MD, PhD](#), Deep Brain Stimulation for Epilepsy

Richard Weiner, MD, Peripheral Nerve Stimulation

[Jonathan Young, MD](#), Noninvasive Brain Stimulation

To be determined, Vagus Nerve Stimulation

Managing editor

[Jane Shipley](#)

Disclosure

WIKISTIM includes citations for indications that are or might be considered off-label in the United States.

Contact

The Neuromodulation Foundation, Inc.

117 East 25th Street

Baltimore, MD 21218

wikistim@gmail.com

wikistim.org
neuromodfound.org