



June 2019 News

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REPORT FROM SYDNEY

WIKISTIM's Editor-in-Chief, Dr. Richard North just returned from the 14th World Congress of the International Neuromodulation Society in Sydney, Australia, where he was named a "Giant in Neuromodulation." He reports that the meeting was excellent, and the "home team" (Saluda) gave particularly impressive presentations. He left the meeting convinced that closed loop stimulation holds promise for SCS, among other treatments, and might also prove to be useful in diagnosis.

PROGRESS WITH A MAJOR WIKISTIM ENHANCEMENT

WIKISTIM's Managing Editor, Jane Shipley, is working with Don Willett of Willett + Associates to complete the integration of a new set of data fields that will work for all sections of WIKISTIM and to create an online form that registered "contributors" will be able to fill in directly. This online form will include checkboxes with suggested entries as well as the capacity for free text entries. We will also retain a downloadable spreadsheet that anyone can fill in off-line and email to Jane for upload (as occurs now).

JUNE 2019 STATISTICS

Most clicked PUBMED links during the past month from previous newsletters

1. Levy R, Deer TR, Poree L, Rosen SM, Kapural L, Amirdelfan K, Soliday N, Leitner A, Mekhail N. Multicenter, randomized, double-blind study protocol using human spinal cord recording comparing safety, efficacy, and neurophysiological responses between patients being treated with evoked compound action potential-controlled closed-loop spinal cord stimulation or open-loop spinal cord stimulation (the Evoke study). *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30828946>
2. Akçakaya MO, Saryyeva A, Heissler HE, Hermann EJ, Krauss JK. Glial tumors and deep brain stimulation: an increasingly recognized association? *J Clin Neurosci* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31029525>
3. Alpaugh M, Saint-Pierre M, Dubois M, Aubé B, Arsenault D, Kriz J, Cicchetti A, Cicchetti F. A novel wireless brain stimulation device for long-term use in freely moving mice. *Sci Rep* 2019 9(1):6444 <https://www.ncbi.nlm.nih.gov/pubmed/31015544>
4. Anderson DJ, Kipke DR, Nagel SJ, Lempka SF, Machado AG, Holland MT, Gillies GT, Howard MA 3rd, Wilson S. Intradural spinal cord stimulation: performance modeling of a new modality. *Front Neurosci* 2019 epub 13:253 <https://www.ncbi.nlm.nih.gov/pubmed/30941012>

5. Perper Y. Prevention of lead migration during spinal cord stimulation trials through the creation of the subdermal security loop. Pain Pract 2019 19(4):457-458
<https://www.ncbi.nlm.nih.gov/pubmed/30957946>

Most clicked external links during the past month

[26th Annual NAPA Pain Conference](#), August 15-18, 2019, Napa, California.

[Neuromodulation: The Science & NYC Neuromodulation](#), OCT 4-6, 2019, Napa, California.

Membership

In May, the number of our subscribers grew by 35 to 993. We look forward to cracking 1,000 in June. Thank you for spreading the word!

Number of citations in each section

- DBS 4922, with 2 completed WIKISTIM abstracts
- DRG 103, with 9 completed WIKISTIM abstracts
- GES 486
- PNS 55 (limited to peripheral nerve field stimulation)
- SCS 2334, with 129 completed or partially completed WIKISTIM abstracts
- SNS 940

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
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- Nevro
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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 May 31 to June 2, 2019

DBS

1. Apetz N, Kordys E, Simon M, Mang B, Aswendt M, Wiedermann D, Neumaier B, Drzezga A, Timmermann L, Endepols H. Effects of subthalamic deep brain stimulation on striatal metabolic connectivity in a rat hemiparkinsonian model. Dis Model Mech 2019 epub
<https://www.ncbi.nlm.nih.gov/pubmed/31064773>

2. Ayobello A, Saway B, Greenage M. Attempted suicide in a parkinsonian patient treated with DBS of the VIM and high dose carbidopa-levodopa. *Case Rep Psychiatry* 2019 2019:2903762 <https://www.ncbi.nlm.nih.gov/pubmed/31032135>
3. Azar J, Elinav H, Safadi R, Soliman M. Malignant deep brain stimulator withdrawal syndrome. *BMJ Case Rep* 2019 epub 12(5) <https://www.ncbi.nlm.nih.gov/pubmed/31092485>
4. Benato A, Carecchio M, Burlina A, Paoloni F, Sartori S, Nosadini M, d'Avella D, Landi A, Antonini A. Long-term effect of subthalamic and pallidal deep brain stimulation for status dystonicus in children with methylmalonic acidemia and GNAO1 mutation. *J Neural Transm (Vienna)* 2019 126(6):739-757 <https://www.ncbi.nlm.nih.gov/pubmed/31076915>
5. Brito M, Teixeira MJ, Mendes MM, França C, Iglesias R, Barbosa ER, Cury RG. Exploring the clinical outcomes after deep brain stimulation in Tourette syndrome. *J Neurol Sci* 2019 402:48-51 <https://www.ncbi.nlm.nih.gov/pubmed/31103958>
6. Calandra CR, García Fernández C, Raina GB, Docampo J, Barbosa N, Piedimonte F, Cersósimo MG. Intraparenchymal cystic lesion after deep brain stimulation surgery: an unusual complication. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31103488>
7. Carlson JD, Palmer M, Hoefler A, Cox E, McLeod P, Mark J, Aldred J. Deep brain stimulation generator replacement in end stage Parkinson's disease. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31059853>
8. Carlson JD. Stereotactic registration using cone-beam computed tomography. *Clin Neurol Neurosurg* 2019 182:107-111 <https://www.ncbi.nlm.nih.gov/pubmed/31112811>
9. Carmi L, Tendler A, Bystritsky A, Hollander E, Blumberger DM, Daskalakis J, Ward H, Lapidus K, Goodman W, Casuto L, Feifel D, Barnea-Ygael N, Roth Y, Zangen A, Zohar J. Efficacy and safety of deep transcranial magnetic stimulation for obsessive-compulsive disorder: a prospective multicenter randomized double-blind placebo-controlled trial. *Am J Psychiatry* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31109199>
10. Cartmell SC, Tian Q, Thio BJ, Leuze C, Ye L, Williams NR, Yang G, Ben-Dor G, Deisseroth K, Grill WM, McNab JA, Halpern CH. Multimodal characterization of the human nucleus accumbens. *Neuroimage* 2019 198:137-149 <https://www.ncbi.nlm.nih.gov/pubmed/31077843>
11. Coenen VA, Schlaepfer TE, Reinacher PC, Mast H, Urbach H, Reisert M. Machine learning-aided personalized DTI tractographic planning for deep brain stimulation of the superolateral medial forebrain bundle using HAMLET. *Acta Neurochir (Wien)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31144167>
12. Cui Z, Pan L, Liang S, Mao Z, Xu X, Yu X, Ling Z. Early detection of cerebral ischemic events on intraoperative magnetic resonance imaging during surgical procedures for deep brain stimulation. *Acta Neurochir (Wien)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31053908>
13. Drane DL, Pedersen NP. Finding the sweet spot: fine-tuning DBS parameters to cure seizures while avoiding psychiatric complications. *Epilepsy Curr* 2019 19(3):174-176 <https://www.ncbi.nlm.nih.gov/pubmed/31068005>
14. Duprez J, Houvenaghel JF, Dondaine T, Péron J, Haegelen C, Drapier S, Modolo J, Jannin P, Vérin M, Sauleau P. Subthalamic nucleus local field potentials recordings reveal subtle effects of promised reward during conflict resolution in Parkinson's disease. *Neuroimage* 2019 197:232-242 <https://www.ncbi.nlm.nih.gov/pubmed/31051290>
15. Fabbri M, Zibetti M, Ferrero G, Accornero A, Guimaraes I, Rizzone MG, Romagnolo A, Ferreira JJ, Lopiano L. Is lowering stimulation frequency a feasible option for subthalamic deep brain stimulation in Parkinson's disease patients with dysarthria? *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31060986>
16. Farakhor S, Shalchyan V, Daliri MR. Adaptation effects of medial forebrain bundle micro-electrical stimulation. *Bioengineered* 2019 10(1):78-86 <https://www.ncbi.nlm.nih.gov/pubmed/30916601>

17. Fraint A, Ouyang B, Metman LV, Jones C, Hall DA, Marder K, Pal G. Patient knowledge and attitudes towards genetic testing in Parkinson's disease subjects with deep brain stimulation. *Parkinsons Dis* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31143438>
18. Geraedts VJ, van Ham RAP, Marinus J, van Hilten JJ, Mosch A, Hoffmann CFE, van der Gaag NA, Contarino MF. Intraoperative test stimulation of the subthalamic nucleus aids postoperative programming of chronic stimulation settings in Parkinson's disease. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31105015>
19. Giannini G, Francois M, Lhommée E, Polosan M, Schmitt E, Fraix V, Castrioto A, Ardouin C, Bichon A, Pollak P, Benabid AL, Seigneuret E, Chabardes S, Wack M, Krack P, Moro E. Suicide and suicide attempts after subthalamic nucleus stimulation in Parkinson disease. *Neurology* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31101738>
20. Hamdi H, Robin E, Stahl JP, Doche E, Azulay JP, Chabardes S, Bartolomei F, Regis J. Anterior thalamic stimulation induced relapsing encephalitis. *Stereotact Funct Neurosurg* 2019 epub 1-5 <https://www.ncbi.nlm.nih.gov/pubmed/31055582>
21. Johnson KA, Fletcher PT, Servello D, Bona A, Porta M, Ostrem JL, Bardinet E, Welter ML, Lozano AM, Baldermann JC, Kuhn J, Huys D, Foltynie T, Hariz M, Joyce EM, Zrinzo L, Kefalopoulou Z, Zhang JG, Meng FG, Zhang C, Ling Z, Xu X, Yu X, Smeets AY, Ackermans L, Visser-Vandewalle V, Mogilner AY, Pourfar MH, Almeida L, Gunduz A, Hu W, Foote KD, Okun MS, Butson CR. Image-based analysis and long-term clinical outcomes of deep brain stimulation for Tourette syndrome: a multisite study. *J Neurol Neurosurg Psychiatry* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31129620>
22. Jones HF, Morales-Briceño H, Barwick K, Lewis J, Sanchis-Juan A, Raymond FL, Stewart K, Waugh MC, Mahant N, Kurian MA, Dale RC, Mohammad SS. Myoclonus-dystonia caused by GNB1 mutation responsive to deep brain stimulation. *Mov Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31034681>
23. Kazemivalipour E, Keil B, Vali A, Rajan S, Elahi B, Atalar E, Wald LL, Rosenow J, Pilitsis J, Golestanirad L. Reconfigurable MRI technology for low-SAR imaging of deep brain stimulation at 3T: application in bilateral leads, fully-implanted systems, and surgically modified lead trajectories. *Neuroimage* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31096058>
24. Koy A, Bockhorn N, Kühn AA, Schneider GH, Krause P, Lauritsch K, Witt K, Paschen S, Deuschl G, Krauss JK, Saryyeva A, Runge J, Borggraefe I, Mehrkens JH, Horn A, Vesper J, Schnitzler A, Siegert S, Freilinger M, Eckenweiler M, Coenen VA, Tadic V, Voges J, Pauls KAM, Wirths J, Timmermann L, Hellmich M; GEPESTIM consortium. Adverse events associated with deep brain stimulation in patients with childhood-onset dystonia. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31031208>
25. Krishnan S, Pisharady KK, Rajan R, Sarma SG, Sarma PS, Kishore A. Predictors of dementia-free survival after bilateral subthalamic deep brain stimulation for Parkinson's disease. *Neurol India* 2019 67(2):459-466 <https://www.ncbi.nlm.nih.gov/pubmed/31085861>
26. Lau B, Meier N, Serra G, Czernecki V, Schuepbach M, Navarro S, Cornu P, Grabli D, Agid Y, Vidailhet M, Karachi C, Welter ML. Axial symptoms predict mortality in patients with Parkinson disease and subthalamic stimulation. *Neurology* 2019 92(22):e2559-e2570 <https://www.ncbi.nlm.nih.gov/pubmed/31043471>
27. Levi V, Messina G, Franzini A, Laurenzio NED, Franzini A, Tringali G, Rizzi M. Antibiotic impregnated catheter coating technique for deep brain stimulation hardware infection: an effective method to avoid intracranial lead removal. *Oper Neurosurg (Hagerstown)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31144720>
28. Li HX, He L, Zhang CC, Eisinger R, Pan YX, Wang T, Sun BM, Wu YW, Li DY. Deep brain stimulation in post-traumatic dystonia: a case series study. *CNS Neurosci Ther* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31033189>

29. Low HL, Alexander SK, Misbahuddin A, Gillett GT. Posterior subthalamic area deep brain stimulation for treatment of tremor and dystonia in Wilson's disease. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31138489>
30. Ma W, Feng Z, Wang Z, Zhou W. High-frequency stimulation of afferent axons alters firing rhythms of downstream neurons. *J Integr Neurosci* 2019 18(1):33-41 <https://www.ncbi.nlm.nih.gov/pubmed/31091846>
31. Maldonado-Naranjo A, Koop MM, Hogue O, Alberts J, Machado A. Kinematic metrics from a wireless stylus quantify tremor and bradykinesia in Parkinson's disease. *Parkinsons Dis* 2019 2019:6850478 <https://www.ncbi.nlm.nih.gov/pubmed/31061696>
32. Manohar N, Thakkar K, Balasubramaniam A, Palan A. Globus pallidus internum targeted deep brain stimulation placement using optic tract stimulated visual evoked potentials and corticospinal tract stimulation in a case of severe dystonia. *Neurol India* 2019 67(2):600-601 <https://www.ncbi.nlm.nih.gov/pubmed/31085892>
33. Mohd Fauzi NA, Mohamed Ibrahim N, Mohamed Mukari SA, Jegan T, Abdul Aziz Z. Amelioration of dystonic opisthotonus in pantothenate kinase-associated neurodegeneration syndrome with absent "eye-of-the-tiger" sign following bilateral pallidal deep brain stimulation. *Mov Disord Clin Pract* 2019 6(4):332-334 <https://www.ncbi.nlm.nih.gov/pubmed/31061845>
34. Nguyen TAK, Nowacki A, Debove I, Petermann K, Tinkhauser G, Wiest R, Schüpbach M, Krack P, Pollo C. Directional stimulation of subthalamic nucleus sweet spot predicts clinical efficacy: proof of concept. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31130498>
35. Novelli A, Di Vico IA, Terenzi F, Sorbi S, Ramat S. Dyskinesia-hyperpyrexia syndrome in Parkinson's disease with deep brain stimulation and high-dose levodopa/carbidopa and entacapone. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31101554>
36. Oka M, Horisawa S, Takeda N, Taira T, Kawamata T. Bilateral pallidal deep brain stimulation for dystonic camptocormia induced by repetitive abdominal muscle exercise: a case report. *Japanese. No Shinkei Geka* 2019 47(5):537-541 <https://www.ncbi.nlm.nih.gov/pubmed/31105077>
37. Panther P, Kuehne M, Voges J, Nullmeier S, Kaufmann J, Hausmann J, Bittner D, Galazky I, Heinze HJ, Kupsch A, Zaehle T. Electric stimulation of the medial forebrain bundle influences sensorimotor gaiting in humans. *BMC Neurosci* 2019 20(1):20 <https://www.ncbi.nlm.nih.gov/pubmed/31035935>
38. Schuhmann MK, Stoll G, Bohr A, Volkmann J, Fluri F. Electrical stimulation of the mesencephalic locomotor region attenuates neuronal loss and cytokine expression in the perifocal region of photothrombotic stroke in rats. *Int J Mol Sci* 2019 epub 20(9) <https://www.ncbi.nlm.nih.gov/pubmed/31083528>
39. Shpiner DS, Di Luca DG, Cajigas I, Diaz JS, Margolesky J, Moore H, Levin BE, Singer C, Jagid J, Luca CC. Gender disparities in deep brain stimulation for Parkinson's disease. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31120180>
40. Smith GS, Mills KA, Pontone GM, Anderson WS, Perepezko KM, Brasic J, Zhou Y, Brandt J, Butson CR, Holt DP, Mathews WB, Dannals RF, Wong DF, Mari Z. Effect of STN DBS on vesicular monoamine transporter 2 and glucose metabolism in Parkinson's disease. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31053531>
41. Toms J, Martin S, Sima AP, Chung A, Docef A, Holloway KL. A comparative study of fiducial-based and fiducial-less registration utilizing the O-arm. *Stereotact Funct Neurosurg* 2019 epub 1-11 <https://www.ncbi.nlm.nih.gov/pubmed/31085935>
42. Tsuboi T, Jabarkheel Z, Foote KD, Okun MS, Wagle Shukla A. Importance of the initial response to GPi deep brain stimulation in dystonia: a nine year quality of life study. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31060987>

43. Voon V. Toward precision medicine: prediction of deep brain stimulation targets of the ventral internal capsule for obsessive-compulsive disorder. *Biol Psychiatry* 2019 85(9):708-710 <https://www.ncbi.nlm.nih.gov/pubmed/30999985>
44. Zekaj E, Saleh C, Servello D. Hydrocephalus after deep brain stimulation for Parkinson's disease. *Asian J Neurosurg* 2019 14(2):538-540 <https://www.ncbi.nlm.nih.gov/pubmed/31143277>
45. Zhang C, Kim SG, Li D, Zhang Y, Li Y, Husch A, Hertel F, Yan F, Voon V, Sun B. Habenula deep brain stimulation for refractory bipolar disorder. *Brain Stimul* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31103455>
46. Zhang C, Pan Y, Zhou H, Xie Q, Sun B, Niu CM, Li D. Variable high-frequency deep brain stimulation of the subthalamic nucleus for speech disorders in Parkinson's disease: a case report. *Front Neurol* 2019 epub 10:379 <https://www.ncbi.nlm.nih.gov/pubmed/31040817>

DRG

1. Abraham ME, Potdar A, Ward M, Herschman Y, Mammis A. Risk factors associated with lead migration requiring revision in dorsal root ganglion stimulation. *World Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31054337>
2. Martin S, Hadjipavlou G, Garcia Ortega R, Moir L, Edwards T, Bojanic S, Green AL, FitzGerald JJ. The importance of the location of dorsal root ganglion stimulator electrodes within the nerve root exit foramen. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31070832>

GES

1. Hajer J, Novák M, Rosina J. Wirelessly powered endoscopically implantable devices into the submucosa as the possible treatment of gastroesophageal reflux disease. *Gastroenterol Res Pract* 2019 2019:7459457 <https://www.ncbi.nlm.nih.gov/pubmed/31093277>

SCS

1. Akbas M, Karsli B. Which is preferable for spinal cord stimulation: sensor-driven position-adaptive or conventional? *Pain Pract* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31066989>
2. Beasley K, Zakar C, Hobbs S, Kantha V, Burneikiene S. Prospective randomized feasibility study comparing manual vs. automatic position-adaptive spinal cord stimulation with surgical leads. *Acta Neurochir (Wien)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31144165>
3. Cheng R, Sui Y, Sayenko D, Burdick JW. Motor control after human SCI through activation of muscle synergies under spinal cord stimulation. *IEEE Trans Neural Syst Rehabil Eng* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31056504>
4. DiMarco AF, Kowalski KE. High frequency spinal cord stimulation in a sub-acute animal model of spinal cord injury. *J Appl Physiol (1985)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31095462>
5. Lam CM, Monroe BR. Successful treatment of central pain and spasticity in patient with multiple sclerosis with dorsal column, paresthesia-free spinal cord stimulator: a case report. *A A Pract* 2019 12(9):308-312 <https://www.ncbi.nlm.nih.gov/pubmed/31048600>
6. Li H, Dong X, Cheng W, Jin M, Zheng D. Neuroprotective mechanism involved in spinal cord stimulation postconditioning. *J Thorac Cardiovasc Surg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31030961>
7. Tanei T, Kajita Y, Takebayashi S, Aoki K, Nakahara N, Wakabayashi T. Predictive factors associated with pain relief of spinal cord stimulation for central post-stroke pain. *Neurol Med Chir (Tokyo)* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31061256>

8. Thomson S. Long-term efficacy of 1-1.2 kHz subthreshold spinal cord stimulation following failed traditional spinal cord stimulation: a retrospective case series. *Reg Anesth Pain Med* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31118279>
9. Vallejo R, Gupta A, Kelley CA, Vallejo A, Rink J, Williams JM, Cass CL, Smith WJ, Benyamin R, Cedeño DL. Effects of phase polarity and charge balance spinal cord stimulation on behavior and gene expression in a rat model of neuropathic pain. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31070863>
10. Yearwood T, De Ridder D, Yoo HB, Falowski S, Venkatesan L, Ting To W, Vanneste S. Comparison of neural activity in chronic pain patients during tonic and burst spinal cord stimulation using fluorodeoxyglucose positron emission tomography. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31039294>

SNS

1. Adelstein SA, Lee W, Gioia K, Moskowitz D, Stamnes K, Lucioni A, Kobashi KC, Lee UJ. Outcomes in a contemporary cohort undergoing sacral neuromodulation using optimized lead placement technique. *Neurol Urodyn* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31044466>
2. Gortazar de Las Casas S, Rubio-Pérez I, Saavedra Ambrosy J, Sancho de Avila A, Álvarez-Gallego M, Marijuan Martín JL, Pascual Miguelañez I. Sacral nerve stimulation for constipation: long-term outcomes. *Tech Coloproctol* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31147802>
3. Vaganée D, Voorham J, Voorham-van der Zalm P, De Wachter S. Needle placement and position of electrical stimulation inside sacral foramen determines pelvic floor electromyographic response-implications for sacral neuromodulation. *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31039291>
4. van Kerrebroeck PEVA, Reekmans M, van Koevinge GA, Yeh AJ, Fayram TA, Sharan AD, Comiter CV. First-in-human implantation of a mid-field powered neurostimulator at the sacral nerve: results from an acute study. *Neurol Urodyn* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31107559>
5. Zoorob D, Deis AS, Lindsay K. Refractory sexual arousal subsequent to sacral neuromodulation. *Case Rep Obstet Gynecol* 2019 2019:7519164 <https://www.ncbi.nlm.nih.gov/pubmed/31065392>

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Disclosure

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

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