



NEWSLETTER #127 May 2024 See [ABOUT](#) WIKISTIM

**IF YOU ARE ATTENDING THE 16th INS WORLD CONGRESS IN
VANCOUVER**

[Richard B. North, MD](#), our Editor-in-Chief is enjoying the educational sessions organized by the International Neuromodulation Society (INS) and the opportunity to discuss our upcoming projects in person with WIKISTIM Section Editors, Neuromodulation Foundation Board Members, and potential sponsors and partners as well as to present our WIKISTIM update poster. If you see him and haven't yet met him, please feel free to introduce yourself.

Donate Now

Increase in the Number of Subscribers

WIKISTIM now has 1827 subscribers. Thank you for spreading the word!

Citations Added From Search on May 12, 2024

Whenever possible, we provide free full-text links. For journals where a full-text PDF downloads immediately when a page is opened or has a “watermark,” we link to the link rather than to the PDF. (If necessary, please click “View Entire Message” to see all of the citation lists in this newsletter.)

We only list correction citations if the error was substantial. For small changes, such as a missing initial in an author's name, we simply update the WIKISTIM database.

Deep Brain Stimulation (now 8295 citations)

1. Alamri A, Breitbart S, Warsi N, Rayco E, Ibrahim G, Fasano A, Gorodetsky C. **Deep brain stimulation of the globus pallidus internus in a child with refractory dystonia due to L2-hydroxyglutaric aciduria.** Stereotact Funct Neurosurg 2024 epub 1-8 [PubMed Free Full Text](#)
2. Babeliowsky WA, Bot M, Potters WV, van den Munckhof P, Blok ER, de Bie RMA, Schuurman R, van Rootselaar AF. **Deep brain stimulation for orthostatic tremor: an observational study.** Mov Disord Clin Pract 2024 epub [PubMed Free Full Text](#)
3. Balzekas I, Richardson JP, Lorence I, Lundstrom BN, Worrell GA, Sharp RR. **Qualitative analysis of decision to pursue electrical brain stimulation by patients with drug-resistant epilepsy and their caregivers.** Neurol Clin Pract 2024 14(1):e200245 [PubMed Free Full Text](#)
4. Bange M, Gonzalez-Escamilla G, Herz DM, Tinkhauser G, Glaser M, Ciolac D, Pogosyan A, Kreis SL, Luhmann HJ, Tan H, Groppa S. **Subthalamic stimulation modulates context-dependent effects of beta bursts during fine motor control.** Nat Commun 2024 15(1):3166 [PubMed Free Full Text](#)
5. Bayman E, Chee K, Mendlen M, Denman DJ, Tien RN, Ojemann S, Kramer DR, Thompson JA. **Subthalamic nucleus synchronization between beta band local field potential and single-unit activity in Parkinson's disease.** Physiol Rep 2024 12(9):e16001 [PubMed Free Full Text](#)
6. Boogers A, Peeters J, Van Bogaert T, De Vloo P, Vandenberghe WP, Nuttin B, Mc Laughlin M. **Testing of symmetric biphasic stimulation in Vim-DBS ET patients: a randomized-controlled pilot study.** Front Neurol 2024 15:1366227 [PubMed Free Full Text](#)
7. Cani I, Giannini G, Guaraldi P, Barletta G, Sambati L, Baldelli L, Cortelli P, Calandra-Buonaura G. **Exploring cardiovascular autonomic function before and after chronic deep brain stimulation in Parkinson's disease.** Mov Disord Clin Pract 2024 epub [PubMed Free Full Text](#)
8. Chen JY, Chen YC, Wu SL. **Deep brain stimulation in advanced Parkinson's disease: an uncommon case of allergic encephalitis.** J Mov Disord 2024 epub [PubMed Free Full Text](#)
9. Choi JW, Malekmohammadi M, Niketeghad S, Cross KA, Ebadi H, Alijanpourtaghsara A, Aron A, Rutishauser U, Pouratian N. **Prefrontal-subthalamic theta signaling mediates delayed responses during conflict processing.** Prog Neurobiol 2024 236:102613 [PubMed](#)
10. Das R, Gliske SV, West LC, Summers MO, Tang S, Hirt L, Maroni D, Halpern CH, Thompson JA, Kushida CA, Abosch A. **Sleep macro-architecture in patients with Parkinson's disease does not change during the first night of neurostimulation in a pilot study.** J Clin Sleep Med 2024 epub [PubMed](#)
11. Duga V, Giossi R, Romito LM, Stanziano M, Levi V, Panteghini C, Zorzi G, Nardocci N. **Long-term globus pallidus internus deep brain stimulation in pediatric non-**

- degenerative dystonia: a cohort study and a meta-analysis.** Mov Disord 2024 epub [PubMed Free Full Text](#)
12. Forbes E, Hassien A, Tan RJ, Wang D, Lega B. **Modulation of hippocampal theta oscillations via deep brain stimulation of the parietal cortex depends on cognitive state.** Cortex 2024 175:28-40 [PubMed](#)
13. Fu S, Yang Z, He X, Liu D, Yang Z, Zhang J, Du L. **Long-term efficacy of bilateral globus pallidus stimulation in the treatment of Meige syndrome.** Neuromodulation 2024 epub [PubMed](#)
14. Fu T, Kang F, Han M, Huang X, Zhu BQ, Kan BF, Wang SM, Li J. **Intraoperative transcutaneous electroacupoint stimulation on early postoperative fatigue in patients with Parkinson's disease undergoing deep brain stimulation surgery.** Heliyon 2024 10(9):e30012 [PubMed Free Full Text](#)
15. Gopalakrishnan R, Cunningham DA, Hogue O, Schroedel M, Campbell BA, Baker KB, Machado AG. **Electrophysiological correlates of dentate nucleus deep brain stimulation for post-stroke motor recovery.** J Neurosci 2024 e2149232024 [PubMed Free Full Text](#)
16. Guo X, He S, Geng X, Yao P, Wiest C, Nie Y, Tan H, Wang S. **Quantifying local field potential dynamics with amplitude and frequency stability between ON and OFF medication and stimulation in Parkinson's disease.** Neurobiol Dis 2024 epub 106519 [PubMed Free Full Text](#)
17. Hermann MG, Schröter N, Rau A, Reisert M, Jarc N, Rijntjes M, Hosp JA, Reinacher PC, Jost WH, Urbach H, Weiller C, Coenen VA, Sajonz BEA. **The connection of motor improvement after deep brain stimulation in Parkinson's disease and microstructural integrity of the substantia nigra and subthalamic nucleus.** Neuroimage Clin 2024 42:103607 [PubMed Free Full Text](#)
18. Hillan SG, Asp AJ, Pramanik LB, Mukerjee AA, Mulder CB, Lujan WD, Silvernail JL, Chang SY, Boschen SL, Lujan JL. **Effects of unilateral high frequency stimulation of the subthalamic nucleus on risk-avoidant behavior in a partial 6-hydroxydopamine model of Parkinson's disease.** J Integr Neurosci 2024 23(4):84 [PubMed Free Full Text](#)
19. Jia Q, Jing L, Zhu Y, Han M, Jiao P, Wang Y, Xu Z, Duan Y, Wang M, Cai X. **Real-time precise targeting of the subthalamic nucleus via transfer learning in a rat model of Parkinson's disease based on microelectrode arrays.** IEEE Trans Neural Syst Rehabil Eng 2024 32:1787-1795 [PubMed Free Full Text](#)
20. Jones T, McNair A, McLeod H, Morley J, Rooshenas L, Hollingworth W. **Identifying potentially low value surgical care: a national ecological study in England.** J Health Serv Res Policy 2024 epub [PubMed](#)
21. Jordán Z, Szabó JP, Sákovics A, Kelemen A, Halász L, Erőss L, Fabó D. **Epileptiform discharges in the anterior thalamus of epilepsy patients.** iScience 2024 27(5):109582 [PubMed Free Full Text](#)
22. Koek RJ, Avecillas-Chasin J, Krahl SE, Chen JW, Sultzer DL, Kulick AD, Mandelkern MA, Malpetti M, Gordon HL, Landry HN, Einstein EH, Langevin JP. **Deep brain stimulation of the amygdala for treatment-resistant combat post-traumatic stress disorder: long-term results.** J Psychiatr Res 2024 175:131-139 [PubMed Free Full Text](#)

23. Koivu M, Sihvonen AJ, Eerola-Rautio J, Pauls KAM, Resendiz-Nieves J, Vartiainen N, Kivilahti R, Scheperjans F, Pekkonen E. **Clinical and brain morphometry predictors of deep brain stimulation outcome in Parkinson's disease.** Brain Topogr 2024 epub [PubMed Free Full Text](#)
24. Kumbhare D, Rajagopal M, Toms J, Freelin A, Weistroffer G, McComb N, Karnam S, Azghadi A, Murnane KS, Baron MS, Holloway KL. **Deep brain stimulation of nucleus basalis of Meynert improves learning in rat model of dementia.** bioRxiv [preprint before peer review] 2024 epub [PubMed Free Full Text](#)
25. Lee S, Kim HJ, Jin B, Kim S, Jeon H, Woo KA, Shin JH, Myeong HS, Paek SH, Jeon B. **Emergency department visits in patients with Parkinson's disease with deep brain stimulation.** Mov Disord Clin Pract 2024 epub [PubMed](#)
26. Leplus A, Isan P, Balossier A, Mouffok S, Donnet A, Papadopoulos T, Lanteri-Minet M, Regis J, Fontaine D. **Somatotopy of the sensory thalamus: inputs from directional deep brain stimulation in pain patients.** Ann Clin Transl Neurol 2024 epub [PubMed Free Full Text](#)
27. Liu B, Mao Z, Yan X, Yang H, Xu J, Feng Z, Zhang Y, Yu X. **Structural network topologies are associated with deep brain stimulation outcomes in Meige syndrome.** Neurotherapeutics 2024 e00367 [PubMed Free Full Text](#)
28. Loehrer PA, Schumacher W, Jost ST, Silverdale M, Petry-Schmelzer JN, Sauerbier A, Gronostay A, Visser-Vandewalle V, Fink GR, Evans J, Krause M, Rizos A, Antonini A, Ashkan K, Martinez-Martin P, Gaser C, Ray Chaudhuri K, Timmermann L, Baldermann JC, Dafni HS; EUROPAR and the International Parkinson and Movement Disorders Society Non-Motor Parkinson's Disease Study Group. **No evidence for an association of voxel-based morphometry with short-term non-motor outcomes in deep brain stimulation for Parkinson's disease.** NPJ Parkinsons Dis 2024 10(1):91 [PubMed Free Full Text](#)
29. Lu W, Wang H, Lin S, Chang X, Wang J, Wu X, Yu X. **The association between the fibrinogen-to-albumin ratio and delirium after deep brain stimulation surgery in Parkinson's disease.** Front Med (Lausanne) 2024 11:1381967 [PubMed Free Full Text](#)
30. Mandat VH, Zdunek PR, Krolicki B, Mandat T. **Alterations of non-motor symptoms in Parkinson's disease, after of subthalamic deep brain stimulation.** World Neurosurg X 2024 23:100375 [PubMedFree Full Text](#)
31. Martinez-Nunez AE, Wong JK, Hilliard JD, Foote KD, Okun MS. **Preventing shift from pneumocephalus during deep brain stimulation surgery: don't give up the 'fork in the brain'.** Tremor Other Hyperkinet Mov (NY) 2024 14:18 [PubMed Free Full Text](#)
32. Mishra A, Begley SL, Shah HA, Santhumayor BA, Ramdhani RA, Fenoy AJ, Schulder M. **Why are clinical trials of deep brain stimulation terminated? An analysis of [clinicaltrials.gov](#).** World Neurosurg X 2024 23:100378 [PubMed Free Full Text](#)
33. Nenadic-Baranasic N, Nemir J, Borovecki F, Njiric N, Lehman I. **Deep brain stimulation in a 10-year-old child with pantothenate kinase-associated neurodegeneration.** Neuropediatrics 2024 epub [PubMed](#)

34. Nguyen T, Ganse G, Berdaoui B, Verbeet T, Castro-Rodriguez J. **Radiofrequency atrial flutter and atrial fibrillation ablation in a patient with deep brain stimulation.** Clin Case Rep 2024 12(5):e8856 [PubMed](#)[Free Full Text](#)
35. Ozturk O, Akcakaya NH, Akcakaya MO. **Combined thalamic and pallidal deep brain stimulation in diabetic hemiballism/hemicorea.** Neurocirugia (English Edition) 2024 epub [PubMed](#)
36. Patel V, Tao S, Zhou X, Lin C, Westerhold E, Grewal S, Middlebrooks EH. **Real-time optimal synthetic inversion recovery image selection (RT-OSIRIS) for deep brain stimulation targeting.** J Imaging Inform Med 2024 epub [PubMed](#)
37. Permana GI, Morishita T, Tanaka H, Matsushita R, Kobayashi H, Abe H. **Asymptomatic cable twisting in a patient with impending Twiddler syndrome detected during deep brain stimulation surgery for Parkinson's disease: a case report.** Surg Neurol Int 2024 15:86 [PubMed](#)[Free Full Text](#)
38. Quan Z, Li Y, Wang S. **Multi-timescale neuromodulation strategy for closed-loop deep brain stimulation in Parkinson's disease.** J Neural Eng 2024 21(3) [PubMed](#)
39. Romito LM, Colucci F, Zorzi G, Garavaglia B, Kaymak A, Mazzoni A, Panteghini C, Golfrè Andreasi N, Rinaldo S, Levi V, Carecchio M, Eleopra R. **Illustration of the long-term efficacy of pallidal deep brain stimulation in a patient with PKAN dystonia.** Parkinsonism Relat Disord 2024 123:106977 [PubMed](#)
40. San Luciano M, Oehrn CR, Wang SS, Tolmie JS, Wiltshire A, Graff RE, Zhu J, Starr PA. **Protocol for combined N-of-1 trials to assess cerebellar neurostimulation for movement disorders in children and young adults with dyskinetic cerebral palsy.** Res Sq [preprint before peer review] 2024 epub [PubMed](#)[Free Full Text](#)
41. Scherer M, Crompton D, Milosevic L. **A phenomenological model of deep brain stimulation induced finely tuned gamma oscillations in the subthalamic nucleus.** Brain Stimul 2024 17(2):485-487 [PubMed](#)[Free Full Text](#)
42. Scheuber MI, Guidolin C, Martins S, Sartori AM, Hofer AS, Schwab ME. **Electrical stimulation of the cuneiform nucleus enhances the effects of rehabilitative training on locomotor recovery after incomplete spinal cord injury.** Front Neurosci 2024 18:1352742 [PubMed](#)[Free Full Text](#)
43. Sermon JJ, Starr PA, Denison T, Duchet B. **Pre-existing oscillatory activity as a condition for sub-harmonic entrainment of finely tuned gamma in Parkinson's disease.** Brain Stimul 2024 17(2):488-490 [PubMed](#)[Free Full Text](#)
44. Siddiqi SH, Klingbeil J, Webler R, Kratter IH, Blumberger DM, Fox MD, George MS, Grafman JH, Pascual-Leone A, Pines AR, Richardson RM, Talati P, Vila-Rodriguez F, Downar J, Hershey T, Black KJ. **Causal network localization of brain stimulation targets for trait anxiety.** Res Sq [preprint before peer review] 2024 epub [PubMed](#)[Free Full Text](#)
45. Smith JN, Dorfman N, Hurley M, Cenolli I, Kostick-Quenet K, Storch EA, Lázaro-Muñoz G, Blumenthal-Barby J. **Adolescent OCD patient and caregiver perspectives on identity, authenticity, and normalcy in potential deep brain stimulation treatment.** Camb Q Healthc Ethics 2024 epub 1-14 [PubMed](#)
46. Steiner LA, Crompton D, Sumarac S, Vetkas A, Germann J, Scherer M, Justich M, Boutet A, Popovic MR, Hodaie M, Kalia SK, Fasano A, Hutchison WD, WD, Lozano AM, Lankarany M, Kühn AA, Milosevic L. **Neural signatures of indirect pathway**

- activity during subthalamic stimulation in Parkinson's disease.** Nat Commun 2024 15(1):3130 [PubMed](#) [Free Full Text](#)
47. Tankus A, Rosenberg N, Ben-Hamo O, Stern E, Strauss I. **Machine learning decoding of single neurons in the thalamus for speech brain-machine interfaces.** J Neural Eng 2024 21(3) [PubMed](#) [Free Full Text](#)
48. Theyer C, Beliveau V, Krismer F, Peball M, Mair K, Heim B, Djamshidian A, Kiechl S, Eisner W, Eschlböck S, Wenning GK, Willeit P, Seppi K, Poewe W, Mahlknecht P. **Long-term medication profiles in Parkinson's disease under subthalamic deep brain stimulation: a controlled study.** Mov Disord Clin Pract 2024 epub [PubMed](#) [Free Full Text](#)
49. Tian Y, Saradhi S, Bello E, Johnson MD, D'Eleuterio G, Popovic MR, Lankarany M. **Model-based closed-loop control of thalamic deep brain stimulation.** Front Netw Physiol 2024 4:1356653 [PubMed](#) [Free Full Text](#)
50. Vogel D, Nordin T, Feiler S, Wardell K, Coste J, Lemaire JJ, Hemm-Ode S. **Probabilistic stimulation mapping from intra-operative thalamic deep brain stimulation data in essential tremor.** J Neural Eng 2024 epub [PubMed](#) [Free Full Text](#)
51. Wang F, Xin M, Li X, Li L, Wang C, Dai L, Zheng C, Cao K, Yang X, Ge Q, Li B, Wang T, Zhan S, Li D, Zhang X, Paerhati H, Zhou Y, Liu J, Sun B. **Effects of deep brain stimulation on dopamine D2 receptor binding in patients with treatment-refractory depression.** J Affect Disord 2024 356:672-680 [PubMed](#)
52. Wang Y, Yu L, Mao H, Chen X, Hu P, Ge Y, Liu Y, Zhang J, Cheng H. **Deep brain stimulation modulates the visual pathway to improve freezing of gait in Parkinson's disease patients.** World Neurosurg 2024 epub [PubMed](#)
53. Willett A, Wylie SA, Bowersock JL, Dawant BM, Rodriguez W, Ugiliweneza B, Neimat JS, van Wouwe NC. **Focused stimulation of dorsal versus ventral subthalamic nucleus enhances action-outcome learning in patients with Parkinson's disease.** Brain Commun 2024 6(2):fcae111 [PubMed](#) [Free Full Text](#)
54. Wu B, Liu J, Jiang L, Xu J, Xuan R, Ling Y, Guo Q, Jiang N, Chen L, Zhang C. **Delayed-onset seizures after subthalamic nucleus deep brain stimulation surgery for Parkinson's disease.** J Clin Neurosci 2024 124:81-86 [PubMed](#) [The link to the free full text is broken.]
55. Xiao H, Lang L, Ye Z, Wu J. **Subthalamic nucleus stimulation modulates cognitive theory of mind in Parkinson's disease.** Mov Disord 2024 epub [PubMed](#)
56. Yau WY, Ashton C, Mulroy E, Foltynie T, Limousin P, Vandrovicova J, Verma KP, Stell R, Davis M, Lamont P. **POLR3A-related disorders: from spastic ataxia to generalised dystonia and long-term efficacy of deep brain stimulation.** Ann Clin Transl Neurol 2024 epub [PubMed](#) [Free Full Text](#)
57. Yavuz B, Rusen E, Duman T, Bas B. **Developments of possible clinical diagnostic methods for Parkinson's disease: event-related potentials.** Neurocase 2024 epub 1-8 [PubMed](#)
58. Yeh CH, Xu Y, Shi W, Fitzgerald JJ, Green AL, Fischer P, Tan H, Oswal A. **Auditory cues modulate the short timescale dynamics of STN activity during stepping in Parkinson's disease.** Brain Stimul 2024 17(3):501-509 [PubMed](#) [Free Full Text](#)

59. Yin Z, Yu H, Yuan T, Smyth C, Anjum MF, Zhu G, Ma R, Xu Y, An Q, Gan Y, Merk T, Qin G, Xie H, Zhang N, Wang C, Jiang Y, Meng F, Yang A, Neumann WJ, Starr P, Little S, Li L, Zhang J. **Generalized sleep decoding with basal ganglia signals in multiple movement disorders.** NPJ Digit Med 2024 7(1):122 [PubMed](#) [Free Full Text](#)
60. Zampogna A, Suppa A, Bove F, Cavallieri F, Castrioto A, Meoni S, Pelissier P, Schmitt E, Chabardes S, Fraix V, Moro E. **Disentangling bradykinesia and rigidity in Parkinson disease: evidence from short- and long-term subthalamic nucleus deep brain stimulation.** Ann Neurol 2024 epub [PubMed](#) [Free Full Text](#)
61. Zhai Z, Sun K, Liu T, Liang S, Ding C, Ren S, Wei S, Zhai F, Zhang G. **Deep brain stimulation for pediatric pantothenate kinase-associated neurodegeneration with status dystonicus: a case report and literature review.** Clin Neurol Neurosurg 2024 241:108306 [PubMed](#)
62. Zhang G, Yu H, Chen Y, Gong C, Hao H, Guo Y, Xu S, Zhang Y, Yuan X, Yin G, Zhang JG, Tan H, Li L. **Neurophysiological features of STN LFP underlying sleep fragmentation in Parkinson's disease.** J Neurol Neurosurg Psychiatry 2024 epub jnnp-2023-331979 [PubMed](#) [Free Full Text](#)
63. Zhang L, Meng S, Huang E, Di T, Ding Z, Huang S, Chen W, Zhang J, Zhao S, Yuwen T, Chen Y, Xue Y, Wang F, Shi J, Shi Y. **High frequency deep brain stimulation of the dorsal raphe nucleus prevents methamphetamine priming-induced reinstatement of drug seeking in rats.** Transl Psychiatry 2024 14(1):190 [PubMed](#) [Free Full Text](#)
64. Zhao M, Yan X, Wang L, Yin F. **Cervical dystonia caused by variant of ATP13A2 responsive to subthalamic deep brain stimulation.** Mov Disord 2024 epub [PubMed](#)
65. Zheng Y, Wei L, Ang SYL, Ng HL, Au WL, Tay KY, Xu Z, Ng WH, Tan LCS, Neo SX, Wan KR. **Outcomes after deep brain stimulation for elderly versus non-elderly patients with Parkinson's disease.** Clin Neurol Neurosurg 2024 242:108319 [PubMed](#)
66. Zhou T, Xu W, Shi W. **Investigation of the mechanism of action of deep brain stimulation for the treatment of Parkinson's disease.** Cogn Neurodyn 2024 18(2):581-595 [PubMed](#)

Dorsal Root Ganglion Stimulation (now 274 citations)

1. Han YF, Cong X. **Comparison of the efficacy of spinal cord stimulation and dorsal root ganglion stimulation in the treatment of painful diabetic peripheral neuropathy: a prospective, cohort-controlled study.** Front Neurol 2024 15:1366796 [PubMed](#) [Free Full Text](#)

Gastric Electrical Stimulation (now 526 citations)

1. Cassidy DJ, Gerull W, Zike VM, Awad MM. **Clinical outcomes of a large, prospective series of gastric electrical stimulation patients using a multidisciplinary protocol.** J Am Coll Surg 2024 epub [PubMed](#)

Peripheral Nerve Stimulation (now 789 citations)

1. Andy UU, Iriondo-Perez J, Carper B, Richter HE, Dyer KY, Florian-Rodriguez M, Napoe GS, Myers D, O'Shea M, Mazloomdoost D, Gantz MG; Pelvic Floor Disorders Network. **Dietary intake and symptom severity in women with fecal incontinence.** Int Urogynecol J 2024 epub [PubMed Free Full Text](#)
2. Eden C, Kang RS, Patel AA, Gulati A. **Case series of multicontact peripheral nerve stimulation in the transversus abdominis plane for chronic abdominal wall pain.** Neuromodulation 2024 epub [PubMed](#)
3. Harnie J, Al Arab R, Mari S, Yassine S, Eddaoui O, Jéhannin P, Audet J, Lecomte C, Iorio-Morin C, Prilutsky BI, Rybak IA, Frigon A. **Forelimb movements contribute to hindlimb cutaneous reflexes during locomotion in cats.** J Neurophysiol 2024 epub [PubMed](#)
4. James G, Ahern BJ, Goodwin W, Goss B, Hodges PW. **Targeted multifidus muscle activation reduces fibrosis of multifidus muscle following intervertebral disc injury.** Eur Spine J 2024 epub [PubMed Free Full Text](#)
5. Kyaw HY, Krause HG, Goh JT. **Percutaneous tibial nerve stimulation for the overactive bladder: a single-arm trial.** Aust N Z J Obstet Gynaecol 2024 epub [PubMed](#)
6. Mari S, Lecomte CG, Merlet AN, Audet J, Yassine S, Eddaoui O, Genois G, Nadeau C, Harnie J, Rybak IA, Prilutsky BI, Frigon A. **Changes in intra- and interlimb reflexes from hindlimb cutaneous afferents after staggered thoracic lateral hemisections during locomotion in cats.** J Physiol 2024 602(9):1987-2017 [PubMed Free Full Text](#)
7. Padmanabhan P, Zwaans BMM, Wu C, Boldt RJ. **Percutaneous tibial neuromodulation initial therapy compliance and subsequent third-line treatment patterns.** Neurourol Urodyn 2024 epub [PubMed Free Full Text](#)

Sacral Nerve Stimulation (now 1225 citations)

1. Besendorfer M, Knorr C, Kirchgatter A, Müller H, Reis Wolfertstetter P, Matzel KE, Diez S. **Sacral neuromodulation in children and adolescents with defecation disorders.** Neurogastroenterol Motil 2024 e14808 [PubMed Free Full Text](#)
2. Chow PM, Trump T, Goldman HB. **Outcomes of sequential third-line therapies in patients with refractory overactive bladder.** Int J Urol 2024 epub [PubMed Free Full Text](#)
3. Dreyfuss LD, Nik-Ahd F, Wang L, Shatkin-Margolis A, Covinsky K, John Boscardin W, Suskind AM. **Sacral neuromodulation in nursing home residents: predictors of success and complications in a national cohort of older adults.** Neurourol Urodyn 2024 epub [PubMed](#)
4. Herrera O, Rodriguez MV, De Jesus MR, Garza A, Ruiz H. **Twiddler's syndrome causing lead fracture in sacral neuromodulation: a case report.** Cureus 2024 16(3):e56827 [PubMed Free Full Text](#)
5. Seitz V, Calata J, Mei L, Davidson ERW. **Racial disparities in sacral neuromodulation for idiopathic fecal incontinence.** Urogynecology (Phila) 2024 epub [PubMed](#)

Spinal Cord Stimulation (now 3301 citations)

1. Bernaerts L, Roelant E, Lecomte F, Moens M, Van Buyten JP, Billet B, Bryon B, Puylaert M, Turgay T, Malone M, Theys T, Van Zundert J, Berquin A, Crombez E, De Coster O, Vangeneugden J, Ly HG, Louagie M, Hans GH. **Large-scale real-world data on a multidisciplinary approach to spinal cord stimulation for persistent spinal pain syndromes: first evaluation of the Neuro-Pain®nationwide screening and follow-up interactive register.** Front Neurosci 2024 epub [PubMed Free Full Text](#)
2. DeJulio PA, Yih CJ, Dang TM, Reddy RD. **Basal cell carcinoma formation within a spinal cord stimulator surgical scar: a case report.** A A Pract 2024 18(4):e01783 [PubMed](#)
3. Fujioka H. **Chronic constipation ameliorated by thoracic spinal cord stimulation.** Cureus 2024 16(4):e57386 [PubMed Free Full Text](#)
4. Hagedorn JM, D'Souza RS, Yadav A, George TK, DeTemple N, Ovrom E, Lam CM, Sayed D, Hall M, Stephenson L, Rivera Z, Hoelzer B, Deer TR. **Relationship between number of prior lumbar spine surgeries and outcomes following spinal cord stimulator implantation: a multisite, retrospective pooled analysis.** Pain Pract 2024 epub [PubMed](#)
5. Han YF, Cong X. **Comparison of the efficacy of spinal cord stimulation and dorsal root ganglion stimulation in the treatment of painful diabetic peripheral neuropathy: a prospective, cohort-controlled study.** Front Neurol 2024 epub [PubMed Free Full Text](#)
6. Kanjilal R, Bagchi A, Basu S. **The effect of COVID-19 on pain control in patients with a neurostimulator in situ-a retrospective study.** Acta Neurochir (Wien) 2024 166(1):175 [PubMed](#)
7. Kim CH, Lamer TJ, Keller-Ross M, Stolen C, Johnson BD. **Blunted cardiovascular responses to exercise by inhibiting afferent feedback via spinal cord stimulation in heart failure.** ESC Heart Fail 2024 epub [PubMed Free Full Text](#)
8. Kim J, Kim H, Kim JE, Yoo Y, Moon JY. **Evaluation of thoracic sympathetic ganglion block as a predictor for response to ketamine infusion therapy and spinal cord stimulation in patients with chronic upper extremity pain.** Pain Med 2024 epub pnae038 [PubMed](#)
9. Kobayashi R, Taketomi A, Hara E, Mera H, Oe K. **Temporary spinal cord stimulation for herpes zoster with myelitis: a case series.** Cureus 2024 epub [PubMed Free Full Text](#)
10. Pahapill PA, Arocho-Quinones EV, Chen G, Swearingen B, Tomas CW, Koch KM, Nencka AS. **Distinct functional connectivity patterns for intermittent vs constant neuropathic pain phenotypes in persistent spinal pain syndrome type 2 patients.** J Pain Res 2024 17:1453-1460 [PubMed Free Full Text](#)
11. Sysoev Y, Bazhenova E, Shkorbatova P, Kovalev G, Labetov I, Merkulyeva N, Shkarupa D, Musienko P. **Functional mapping of the lower urinary tract by epidural electrical stimulation of the spinal cord in decerebrated cat model.** Sci Rep 2024 14(1):9654 [PubMed Free Full Text](#)
12. Tieppo Francio V, Leavitt L, Alm J, Mok D, Yoon BV, Nazir N, Lam CM, Latif U, Sowder T, Braun E, Sack A, Khan TW, Sayed D. **Healthcare utilization (HCU)**

- reduction with high-frequency (10 kHz) spinal cord stimulation (SCS) therapy.** Healthcare (Basel) 2024 12(7):745 [PubMed](#) [Free Full Text](#)
- 13.Zhang X, Yan X, Huang Y, Zhou H. **Short-term cervical spinal cord stimulation for central post-stroke pain: a case report and literature review.** Ann Med Surg (Lond) 2024 86(5):3184-3188 [PubMed](#) [Free Full Text](#)

THANK YOU TO OUR SUPPORTERS!

Individual supporters 2019-24

Thomas Abell, MD
David Cedeno, PhD and Pilar Mejia, PhD
Kenneth Chapman, MD
Terry Daglow
Hemant Kalia, MD, MPH, FIPP
The Donlin & Harriett Long Family Charitable Gift Fund
SuEarl McReynolds
Richard B. North, MD
Louis Raso MD, PA
B. Todd Sitzman, MD, MPH
Konstantin Slavin, MD, PhD

Industry support 2019-23

Boston Scientific
Enterra
Medtronic
Nevro
Stimwave

Nonprofit support:

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

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, PhD](#), 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.

A reminder about personal information

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

Contact

The Neuromodulation Foundation, Inc.
117 East 25th Street
Baltimore, MD 21218

wikistim@gmail.com