



October 2021 News

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COLLABORATIVE NEUROSTIMULATION GLOSSARY WILL APPEAR SOON

In our May 2021 newsletter, we noted that Dr. North was spearheading a joint effort of our Foundation, the [Institute of Neuromodulation](#), and the [International Neuromodulation Society](#) to create a glossary of neurostimulation terms. We are happy to announce that the resulting manuscript has just been accepted for publication: North, RB, Lempka SF, Guan Y, Air EL, Poree LR, Shipley J, Arle J, Rigoard P, Thomson S. **Glossary of Neurostimulation Terminology: A Collaborative Neuromodulation Foundation, Institute of Neuromodulation, and International Neuromodulation Society Project.** *Neuromodulation* 2021, in press.

UPDATING CITATION INFORMATION

Every quarter, we review citations for papers that appeared online ahead of print (epubs) to update the WIKISTIM database with definitive journal volumes, numbers, and pages. We have learned to check titles because some journals have (ill-advisedly in our opinion) edited titles between e-publication and final publication. For example, *World Neurosurgery* has inconsistently changed Parkinson's to Parkinson; whereas, the *Journal of Neural Engineering* has taken the opposite tack and changed Parkinson to Parkinson's. Continuing the indecisiveness about how to handle diseases named for those who first described them, the *Annals of Neurology* has changed Holmes' tremor to holmes.

In these cases, PubMed listed the corrected titles. PubMed has not been as reliable, however, when it comes to updating publication citation numbers. See for example, [Lightning may pose a danger to patients receiving deep brain stimulation: case report](#), which PubMed lists as "2018 Apr 1;1-3." A simple click on the full-text link provided by PubMed reveals that the paper should be cited as "2019 130(3), 763–765."

PubMed provides an easy way to communicate with its staff, but when we tried to point out discrepancies such as this, we were told they would only respond to corrections sent in by a journal—in other words, they wouldn't follow a full-text link provided on their page to confirm our information. Those of us who bring you WIKISTIM do not claim to be perfect, but we will fix mistakes as soon as they come to our attention. The bottom line is that if you find a discrepancy between WIKISTIM and PubMed, don't automatically assume that one or the other is correct.

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In September, the number of our subscribers grew to 1529. Thank you for helping to spread the word!

CITATIONS ADDED FROM SEARCH ON SEPTEMBER 27, 2021 (if necessary, please click “View Entire Message”)

Note: We provide paywall-protected full-text links as a courtesy only for “our” journal, [Neuromodulation](#). All other full-text links are “Free Full Text” (including, of course, open-access papers in [Neuromodulation](#). If the link to a PDF downloads immediately or has a “watermark,” we link to the link rather than to the PDF.

Deep Brain Stimulation (now 6486 citations)

1. Alanazi FI, Al-Ozzi TM, Kalia SK, Hodaie M, Lozano AM, Cohn M, Hutchison WD. **Neurophysiological responses of globus pallidus internus during the auditory oddball task in Parkinson's disease.** Neurobiol Dis 2021 159:105490 [PubMed Free Full Text](#)
2. Bargiotas P, Bargiotas I, Debove I, Lachenmayer ML, Vayatis N, Schuepbach WMM, Bassetti CLA. **Sleep apnea syndrome and subthalamic stimulation in Parkinson's disease.** Sleep Med 2021 86:106-112 [PubMed](#)
3. Benedetti-Isaac JC, Camargo L, Gargiulo P, López N. **Deep brain stimulation in the posteromedial hypothalamic nuclei in refractory aggressiveness: post-surgical results of 19 cases.** Int J Neuropsychopharmacol 2021 epub pyab059 [PubMed Free Full Text](#)
4. Bhusal B, Stockmann J, Guerin B, Mareyam A, Kirsch J, Wald LL, Nolt MJ, Rosenow J, Lopez-Rosado R, Elahi B, Golestanirad L. **Safety and image quality at 7T MRI for deep brain stimulation systems: ex vivo study with lead-only and full-systems.** PLOS One 2021 16(9):e0257077 [PubMed Free Full Text](#)
5. Bočková M, Výtvarová E, Lamoš M, Klimeš P, Jurák P, Halánek J, Goldemundová S, Baláž M, Rektor I. **Cortical network organization reflects clinical response to subthalamic nucleus deep brain stimulation in Parkinson's disease.** Hum Brain Mapp 2021 epub [PubMed Free Full Text](#)
6. Bot M, van Rootselaari AF, Odekerken V, Dijk J, de Bie RMA, Beudel M, van den Munckhof P, Schuurman PR. **Evaluating and optimizing dentato-rubro-thalamic-tract deterministic tractography in deep brain stimulation for essential tremor.** Oper Neurosurg (Hagerstown) 2021 epub opab324 [PubMed](#)
7. Bouwens van der Vlis TAM, Duits AA. **A case series of neuropsychological outcome after deep brain stimulation of the ventral capsule/ventral striatum for refractory obsessive-compulsive disorder.** Neuromodulation 2021 epub [PubMed Free Full Text](#)
8. Burton A, Won SM, Sohrabi AK, Stuart T, Amirhossein A, Kim JU, Park Y, Gabros A, Rogers JA, Vitale F, Richardson AG, Gutruf P. **Wireless, battery-free, and fully implantable electrical neurostimulation in freely moving rodents.** Microsyst Nanoeng 2021 7:62 [PubMed Free Full Text](#)

9. Busch JL, Feldmann LK, Kühn AA, Rosenblum M. **Real-time phase and amplitude estimation of neurophysiological signals exploiting a non-resonant oscillator.** Exp Neurol 2021 epub 113869 [PubMed](#)
10. Cagle JN, Wong JK, Johnson KA, Foote KD, Okun MS, de Hemptinne C. **Suppression and rebound of pallidal beta power: observation using a chronic sensing DBS device.** Front Hum Neurosci 2021 15:749567 [PubMed](#) [Free Full Text](#)
11. Cerneria S, Alcantara JD, Opri E, Cagle JN, Eisinger RS, Boogaart Z, Pramanik L, Kelberman M, Patel B, Foote KD, Okun MS, Gunduz A. **Wearable sensor-driven responsive deep brain stimulation for essential tremor.** Brain Stimul 2021 epub [PubMed](#) [Free Full Text](#)
12. Chang S, Wang J, Liu C, Yi G, Lu M, Che Y, Wei X. **A data driven experimental system for individualized brain stimulation design and validation.** IEEE Trans Neural Syst Rehabil Eng 2021 29:1848-1857 [PubMed](#) [Free Full Text](#)
13. Coenen VA, Döbrössy MD, Teo SJ, Wessolleck J, Sajonz BEA, Reinacher PC, Thierauf-Emberger A, Spittau B, Leupold J, von Elverfeldt D, Schlaepfer TE, Reisert M. **Diverging prefrontal cortex fiber connection routes to the subthalamic nucleus and the mesencephalic ventral tegmentum investigated with long range (normative) and short range (ex-vivo high resolution) 7T DTI.** Brain Struct Funct 2021 epub [PubMed](#) [Free Full Text](#)
14. Cummins DD, Kochanski RB, Gilron R, Swann NC, Little S, Hammer LH, Starr PA. **Chronic sensing of subthalamic local field potentials: comparison of first and second generation implantable bidirectional systems within a single subject.** Front Neurosci 2021 15:725797 [PubMed](#) [Free Full Text](#)
15. Curtis MA, Vedam-Mai V. **Advancing our understanding of brain disorders: research using postmortem brain tissue.** Methods Mol Biol 2022 2389:201-208 [PubMed](#)
16. Cury RG, França C, Duarte KP, Paraguay I, Diniz JM, Cunha P, Galhardoni R, Silva V, Iglesias R, Bissoli AB, Lepski G, Barbosa ER, Teixeira MJ, de Andrade DC. **Safety and outcomes of dentate nucleus deep brain stimulation for cerebellar ataxia.** Cerebellum 2021 epub [PubMed](#)
17. Dastolfo-Hromack C, Bush A, Chrabaszczyk A, Alhourani A, Lipski W, Wang D, Crammond DJ, Shaiman S, Dickey MW, Holt LL, Turner RS, Fiez JA, Richardson RM. **Articulatory gain predicts motor cortex and subthalamic nucleus activity during speech.** Cereb Cortex 2021 epub bhab251 [PubMed](#)
18. Diniz JM, Cury RG, Iglesias RF, Lepski GA, França CC, Barbosa ER, de Andrade DC, Teixeira MJ, Duarte KP. **Dentate nucleus deep brain stimulation: technical note of a novel methodology assisted by tractography.** Surg Neurol Int 2021 12:400 [PubMed](#) [Free Full Text](#)
19. Eguchi K, Shirai S, Matsushima M, Kano T, Yamazaki K, Hamauchi S, Sasamori T, Seki T, Hirata K, Kitagawa M, Otsuki M, Shiga T, Houkin K, Sasaki H, Yabe I. **Correlation of active contact location with weight gain after subthalamic nucleus deep brain stimulation: a case series.** BMC Neurol 2021 21(1):351 [PubMed](#) [Free Full Text](#)
20. Evidente VGH, Evidente DH, Ponce FA, Evidente MH, Lambert M, Garrett R. **Thalamic deep brain stimulation may improve restless legs syndrome in patients with essential tremor.** Neuromodulation 2021 epub [PubMed](#) [Full Text Behind Paywall](#)
21. Golfrè Andreasi N, Romito LM, Telese R, Cilia R, Elia AE, Novelli A, Tringali G, Messina G, Levi V, Devigili G, Rinaldo S, Franzini AA, Eleopra R. **Short- and long-term motor outcome of STN-DBS in Parkinson's disease: focus on sex differences.** Neurol Sci 2021 epub [PubMed](#)
22. Gorodetsky C, Azevedo P, Candeias da Silva C, Fasano A. **Factors influencing the surgical decision in dystonia patients referred for deep brain stimulation.** Toxins (Basel) 2021 13(8):511 [PubMed](#) [Free Full Text](#)

23. Haeusermann T, Lechner CR, Fong KC, Bernstein Sideman A, Jaworska A, Chiong W, Dohan D. **Closed-loop neuromodulation and self-perception in clinical treatment of refractory epilepsy.** AJOB Neurosci 2021 epub 1-13 [PubMed](#) [Free Full Text](#)
24. Hao S, Wang Q, Tang B, Wu Z, Yang T, Tang J. **CDKL5 deficiency augments inhibitory input into the dentate gyrus that can be reversed by deep brain stimulation.** J Neurosci 2021 epub JN-RM-1010-21 [PubMed](#)
25. Holanda VM, Eisinger RS, Almeida L, Tsuboi T, Wang H, Okun MS, Deeb W, Patterson A, Wagle Shukla A, Lobo Lopes J, Foote KD. **Evolution of globus pallidus targeting for Parkinson's and dystonia deep brain stimulation: a 15-year experience.** Front Neurol 2021 12:679918 [PubMed](#) [Free Full Text](#)
26. Holewijn RA, Verbaan D, van den Munckhof PM, Bot M, Geurtsen GJ, Dijk JM, Odekerken VJ, Beudel M, de Bie RMA, Schuurman PR. **General anesthesia vs local anesthesia in microelectrode recording-guided deep-brain stimulation for Parkinson disease: the GALAXY randomized clinical trial.** JAMA Neurol 2021 e212979 [PubMed](#)
27. Isaacs BR, Heijmans M, Kuijf ML, Kubben PL, Ackermans L, Temel Y, Keuken MC, Forstmann BU. **Variability in subthalamic nucleus targeting for deep brain stimulation with 3 and 7 tesla magnetic resonance imaging.** Neuroimage Clin 2021 32:102829 [PubMed](#) [Free Full Text](#)
28. Izadi A, Schedlbauer A, Ondek K, Disse G, Ekstrom AD, Cowen SL, Shahlaie K, Gurkoff GG. **Early intervention via stimulation of the medial septal nucleus improves cognition and alters markers of epileptogenesis in pilocarpine-induced epilepsy.** Front Neurol 2021 12:708957 [PubMed](#) [Free Full Text](#)
29. Jain K, Ramesh R, Krishnan S, Kesavapisharady K, Divya KP, Sarma SP, Kishore A. **Cognitive outcome following bilateral subthalamic nucleus deep brain stimulation for Parkinson's disease-a comparative observational study in Indian patients.** Acta Neurol Belg 2021 epub [PubMed](#)
30. Kamel WA, Majumdar P, Matis G, Fenoy AJ, Balakrishnan S, Zirh AT, Cevik A, Tomar AK, Ouerchefani N. **Surgical management for dystonia: efficacy of deep brain stimulation in the long term.** Neurol Int 2021 13(3):371-386 [PubMed](#) [Free Full Text](#)
31. Lange SF, Kremer NI, van Laar T, Lange F, Steendam-Oldekamp TE, Oterdoom DLM, Absalom AR, van Dijk JMC, Drost G. **The intraoperative microlesion effect positively correlates with the short-term clinical effect of deep brain stimulation in Parkinson's disease.** Neuromodulation 2021 epub [PubMed](#) [Free Full Text](#)
32. Li J, Zhang W, Mei S, Qiao L, Wang Y, Zhang X, Li J, Hu Y, Jia X, Zhang Y. **Prevention and treatment of hardware-related infections in deep brain stimulation surgeries: a retrospective and historical controlled study.** Front Hum Neurosci 2021 15:707816 [PubMed](#) [Free Full Text](#)
33. Liu Y, Xiao B, Zhang C, Li J, Lai Y, Shi F, Shen D, Wang L, Sun B, Li Y, Jin Z, Wei H, Haacke EM, Zhou H, Wang Q, Li D, He N, Yan F. **Predicting motor outcome of subthalamic nucleus deep brain stimulation for Parkinson's disease using quantitative susceptibility mapping and radiomics: a pilot study.** Front Neurosci 2021 15:731109 [PubMed](#) [Free Full Text](#)
34. Luck T, Kusyk DM, Whiting D. **Headache as a presenting symptom of deep brain stimulator generator failure.** Cureus 2021 13(7):e16726 [PubMed](#) [Free Full Text](#)
35. Luo B, Lu Y, Qiu C, Dong W, Xue C, Liu D, Zhang L, Liu W, Zhang W. **Altered regional homogeneity and functional connectivity during microlesion period after deep brain stimulation in Parkinson's disease.** Parkinsons Dis 2021 2021:2711365 [PubMed](#) [Free Full Text](#)
36. Malhotra AK, Davidson B, Giacobbe P, Hamani C, Lipsman N. **An unusual case of deep brain stimulation wound infection secondary to COVID-19 mask-related friction.** Stereotact Funct Neurosurg 2021 epub 1-3 [PubMed](#) [Free Full Text](#)

37. Middlebrooks EH, Jain A, Okromelidze L, Lin C, Westerhold EM, O'Steen CA, Ritaccio AL, Quiñones-Hinojosa A, Tatum WO, Grewal SS. **Acute brain activation patterns of high-versus low-frequency stimulation of the anterior nucleus of the thalamus during deep brain stimulation for epilepsy.** Neurosurgery 2021 epub nyab306 [PubMed](#)
38. Mottaghi S, Kohl S, Biemann D, Liebana S, Montañó Crespo RE, Buchholz O, Wilson M, Klaus C, Uchenik M, Münkel C, Schmidt R, Hofmann UG. **Bilateral intracranial beta activity during forced and spontaneous movements in a 6-OHDA hemi-PD rat model.** Front Neurosci 2021 15:700672 [PubMed](#) [Free Full Text](#)
39. Nakajima A, Shimo Y, Fuse A, Tokugawa J, Hishii M, Iwamuro H, Umemura A, Hattori N. **Chronic adaptive deep brain stimulation personalizing therapy based on parkinsonian state.** Front Hum Neurosci 2021 15:702961 [PubMed](#) [Free Full Text](#)
40. Perez-Caballero L, Carceller H, Nacher J, Teruel-Martí V, Pujades E, Casañ-Pastor N, Berrocoso E. **Induced dipoles and possible modulation of wireless effects in implanted electrodes. Effects of implanting insulated electrodes on an animal test to screen antidepressant activity.** J Clin Med 2021 10(17):4003 [PubMed](#) [Free Full Text](#)
41. Plate A, Hell F, Mehrkens JH, Koeglsperger T, Bovet A, Stanslaski S, Bötzel K. **Peaks in the beta band of the human subthalamic nucleus: a case for low beta and high beta activity.** J Neurosurg 2021 epub 1-9 [PubMed](#)
42. Plocksties F, Kober M, Niemann C, Heller J, Fauser M, Nüssel M, Uster F, Franz D, Zwar M, Lüttig A, Kröger J, Harloff J, Schulz A, Richter A, Köhling R, Timmermann D, Storch A. **The software defined implantable modular platform (STELLA) for preclinical deep brain stimulation research in rodents.** J Neural Eng 2021 18(5) [PubMed](#) [Free Full Text](#)
43. Ravi DK, Baumann CR, Bernasconi E, Gwerder M, Ignasiak NK, Uhl M, Stieglitz L, Taylor WR, Singh NB. **Does subthalamic deep brain stimulation impact asymmetry and dyscoordination of gait in Parkinson's disease?** Neurorehabil Neural Repair 2021 epub [PubMed](#) [Free Full Text](#)
44. Roque DA, Hadar E, Zhang Y, Zou F, Murrow R. **Reducing ataxic side effects from ventral intermediate nucleus of the thalamus deep brain stimulation implantation in essential tremor: potential advantages of directional stimulation.** Stereotact Funct Neurosurg 2021 epub 1-9 [PubMed](#)
45. Rusche T, Kaufmann J, Voges J. **Nucleus accumbens projections: validity and reliability of fiber reconstructions based on high-resolution diffusion-weighted MRI.** Hum Brain Mapp 2021 epub [PubMed](#) [Free Full Text](#)
46. Salari M, Aminzade Z, Jalili Khoshnood R, Tehrani Fateh S. **New-onset freezing of gait in combined use of deep brain stimulation and levodopa.** Clin Case Rep 2021 9(8):e04695 [PubMed](#) [Free Full Text](#)
47. Sauerbier A, Loehrer P, Jost ST, Heil S, Petry-Schmelzer JN, Herberg J, Bachem P, Aloui S, Gronostay A, Klingelhoefner L, Baldermann JC, Huys D, Nimsky C, Barbe MT, Fink GR, Martinez-Martin P, Ray Chaudhuri K, Visser-Vandewalle V, Timmermann L, Weintraub D, Dafsari HS; EUROPAN and the International Parkinson and Movement Disorders Society Non-Motor Parkinson's Disease Study Group. **Predictors of short-term impulsive and compulsive behaviour after subthalamic stimulation in Parkinson disease.** J Neurol Neurosurg Psychiatry 2021 epub jnnp-2021-326131 [PubMed](#) [Free Full Text](#)
48. Silva AB, Khambhati AN, Speidel BA, Chang EF, Rao VR. **Effects of anterior thalamic nuclei stimulation on hippocampal activity: chronic recording in a patient with drug-resistant focal epilepsy.** Epilepsy Behav Rep 2021 16:100467 [PubMed](#) [Free Full Text](#)
49. Sobesky L, Goede L, Odekerken VJJ, Wang Q, Li N, Neudorfer C, Rajamani N, Al-Fatly B, Reich M, Volkmann J, de Bie RMA, Kühn AA, Horn A. **Subthalamic and pallidal deep**

brain stimulation: are we modulating the same network? Brain 2021 epub awab258 [PubMed](#)

50. Sobstyl M, Stapińska-Syniec A, Kupryjaniuk A, Rylski M. **Deep brain stimulation procedure complicated by intracerebral infection of DBS lead due to outbreak of COVID-19 pandemic.** Neurol Neurochir Pol 2021 epub [PubMed](#) [Free Full Text](#)
51. Spindler P, Faust K, Finger T, Schneider GH, Bayerl S, Trampuz A, Kühn AA, Vajkoczy P, Prinz V. **High frequency of low-virulent microorganisms detected by sonication of implanted pulse generators: so what?** Stereotact Funct Neurosurg 2021 epub 1-6 [PubMed](#) [Free Full Text](#)
52. Wakim AA, Sioda NA, Zhou JJ, Lambert M, Evidente VGH, Ponce FA. **Direct targeting of the ventral intermediate nucleus of the thalamus in deep brain stimulation for essential tremor: a prospective study with comparison to a historical cohort.** J Neurosurg 2021 epub 1-10 [PubMed](#)
53. Wei J, Zou Z, Li J, Zhang Y. **Gamma oscillations and coherence are weaker in the dorsomedial subregion of STN in Parkinson's disease.** Front Neurol 2021 12:710206 [PubMed](#) [Free Full Text](#)
54. Yako T, Kitazawa K, Kobayashi S, Yomo S, Sato H, Johnson LA, Vitek JL, Hashimoto T. **Role of microelectrode recording in deep brain stimulation of the pedunculopontine nucleus: a physiological study of two cases.** Neuromodulation 2021 epub [PubMed](#) [Full Text Behind Paywall](#)
55. Ye Z, Hanssen H, Steinhardt J, Tronnier V, Rasche D, Brüggemann N, Münte TF. **Subthalamic nucleus stimulation impairs sequence processing in patients with Parkinson's disease.** J Parkinsons Dis 2021 epub [PubMed](#)
56. Yen K, Miyasaki JM, Waldron M, Yu L, Sankar T, Ba F. **DBS-Edmonton app, a tool to manage patient expectations of DBS in Parkinson disease.** Neurol Clin Pract 2021 11(3):e308-e316 [PubMed](#)

Dorsal Root Ganglion Stimulation (now 205 citations, with 9 completed WIKISTIM abstracts)

1. Staats P, Deer T, Ottestad E, Erdek M, Spinner D, Gulati A. **Understanding the role of patient preference in the treatment algorithm for chronic low back pain results from a survey-based study.** Pain Manag 2021 epub [PubMed](#) [Free Full Text](#)

Gastric Electrical Stimulation (still 512 citations)

Peripheral Nerve Stimulation (now 577 citations, with 6 completed WIKISTIM abstracts)

1. Costa Marques D, Rocca A, Bloch J, Richoz B, Knebel JF, Levivier M, Berney A, Nater B. **Assessing occipital nerve stimulation efficacy for chronic refractory headaches. French.** Rev Med Suisse 2021 17(751):1624-1626 [PubMed](#)
2. Gilligan C, Volschenk W, Russo M, Green M, Gilmore C, Mehta V, Deckers K, De Smedt K, Latif U, Georgius P, Gentile J, Mitchell B, Langhorst M, Huygen F, Baranidharan G, Patel V, Mironer E, Ross E, Carayannopoulos A, Hayek S, Gulve A, Van Buyten JP, Tohmeh A, Fischgrund J, Lad S, Ahadian F, Deer T, Klemme W, Rauck R, Rathmell J, Levy R, Heemels JP, Eldabe S; ReActiv8-B investigators. **An implantable restorative-neurostimulator for refractory mechanical chronic low back pain: a randomized sham-controlled clinical trial.** Pain 2021 162(10):2486-2498 [PubMed](#) [Free Full Text](#)
3. Musselman ED, Cariello JE, Grill WM, Pelot NA. **ASCENT (Automated Simulations to Characterize Electrical Nerve Thresholds): a pipeline for sample-specific**

- computational modeling of electrical stimulation of peripheral nerves.** PLOS Comput Biol 2021 17(9):e1009285 [PubMed](#) [Free Full Text](#)
- Oliveira MC, Oliveira M, Silva H, Gomes A, Nascimento G, Marini G, Micussi MT. **Evaluation of satisfaction of pelvic floor muscle training isolated and associated with tibial nerve stimulation in women with mixed urinary incontinence: a randomized, single-blinded clinical trial.** Eur J Obstet Gynecol Reprod Biol 2021 265:60-65 [PubMed](#)
 - Thomson S, Chawla R, Love-Jones S, Sharma M, Vajramani G, Williams A, Eldabe S; ReActiv8 PMCF Investigators. **Restorative neurostimulation for chronic mechanical low back pain: results from a prospective multi-centre longitudinal cohort.** Pain Ther 2021 epub [PubMed](#) [Free Full Text](#)

Spinal Cord Stimulation (now 2783 citations, with 133 completed or partially completed WIKISTIM abstracts)

- Abraham ME, Gold J, Dondapati A, Sheaffer K, Gendreau JL, Mammis A. **High frequency 10 kHz spinal cord stimulation as a first line programming option for patients with chronic pain: a retrospective study and review of the current evidence.** Cureus 2021 13(8):e17220 [PubMed](#) [Free Full Text](#)
- D'Souza RS, Hunt CL. **A rare case of anchor fracture manifesting with new-onset neuropathic pain after spinal cord stimulator implantation.** Neuromodulation 2021 epub [PubMed](#) [Full Text Behind Paywall](#)
- Deer TR, Rupp A, Budwany R, Bovinet CJ, Chatas JW, Pyles ST, Azeem N, Li S, Naidu R, Antony A, Hagedorn JM, Sayed D. **Pain relief salvage with a novel minimally invasive posterior sacroiliac joint fusion device in patients with previously implanted pain devices and therapies.** J Pain Res 2021 14:2709-2715 [PubMed](#) [Free Full Text](#)
- Feng H, Doherty P, Rotte A. **Decreased opioid consumption and durable pain relief in patients treated with 10 kHz SCS: a retrospective analysis of outcomes from single-center.** J Pain Res 2021 14:2593-2600 [PubMed](#) [Free Full Text](#)
- Goudman L, Vets N, Jansen J, De Smedt A, Billot M, Rigoard P, Cordenier A, Engelborghs S, Scafoglieri A, Moens M. **Electrochemical skin conductance alterations during spinal cord stimulation: an experimental study.** J Clin Med 2021 10(16):3565 [PubMed](#) [Free Full Text](#)
- Graham DT, Lambert M, Mirzadeh Z, Ponce FA. **Factors contributing to spinal cord stimulation outcomes for chronic pain.** Neuromodulation 2021 epub [PubMed](#) [Free Full Text](#)
- Howard-Quijano K, Yamaguchi T, Gao F, Kuwabara Y, Puig S, Lundquist E, Salavatian S, Taylor B, Mahajan A. **Spinal cord stimulation reduces ventricular arrhythmias by attenuating reactive gliosis and activation of spinal interneurons.** JACC Clin Electrophysiol 2021 epub [PubMed](#)
- Luecke T, Kuhlmann H, May M, Petermann M, Libutzki B, Jäehnicen G. **Spinal cord stimulation: a real-world data analysis on outcomes and differences between rechargeable and non-rechargeable implantable pulse generators.** J Int Med Res 2021 49(8):3000605211038457 [PubMed](#) [Free Full Text](#)
- Marchesini M, Baciarello M, Bellacicco R, Flaviano E, Bignami EG. **24-month effectiveness of peridoscopic adhesiolysis in reducing the use of spinal cord stimulation in patient with chronic lumbar pain: a possible therapeutic regimen?** Cureus 2021 13(8):e17563 [PubMed](#) [Free Full Text](#)
- Perez C, Rojo E, Margarit C, Sanchez N, Blanco T, Munoz M, Crespo C, Ochoa D. **24-month real-world study of spinal cord stimulation in failed back surgery patients with refractory pain.** Pain Physician 2021 24(6):479-488 [PubMed](#) [Free Full Text](#)

11. Staats P, Deer T, Ottestad E, Erdek M, Spinner D, Gulati A. **Understanding the role of patient preference in the treatment algorithm for chronic low back pain: results from a survey-based study.** Pain Manag 2021 epub [PubMed Free Full Text](#)
12. Zarrin DA, Wilson BR, Teton ZE, Sheldon BL, Dorsi MJ. **The role of vancomycin powder during spinal cord stimulator implantation: a case series and review of the literature.** World Neurosurg 2021 epub [PubMed](#)
13. Zhao Z, Ahmadi A, Hoover C, Grado L, Peterson N, Wang X, Freeman D, Murray T, Lamperski A, Darrow D, Netoff TI. **Optimization of spinal cord stimulation using Bayesian preference learning and its validation.** IEEE Trans Neural Syst Rehabil Eng 2021 epub [PubMed Free Full Text](#)

Sacral Nerve Stimulation (now 1097 citations)

1. Alghafees MA, Alageel MK, Alqahtani MA, Alghazwani Y. **Unsuccessful progression of sacral neuromodulation from the evaluation to the implantation stage: a single-center experience.** Cureus 2021 13(8):e16912 [PubMed Free Full Text](#)
2. Voorham J, Vaganée D, Voorham-van der Zalm P, Lycklama À Nijeholt G, Putter H, De Wachter S. **Sacral neuromodulation changes pelvic floor activity in overactive bladder patients-possible new insights in mechanism of action: a pilot study.** Neuromodulation 2021 epub [PubMed Full Text Behind Paywall](#)

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A reminder about personal information

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

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