NEWSLETTER #150 April 2026 See ABOUT WIKISTIM

EDITORIAL

Catching Up: April 2026 Issue (March Data)

This is the first of five retroactive newsletters WIKISTIM is publishing together in September 2026, to close the gap left after issue #149. Our database update was paused following the retirement of longtime editor Jane Shipley, to whom the whole WIKISTIM community is grateful for her years of dedication.

This edition covers the 131 citations WIKISTIM identified from March 10-31, 2026. Four more retroactive issues (#151-154) follow, covering April through July 2026, before our regular monthly schedule resumes with issue #155.

— Manuel Roulaud, WIKISTIM Managing Editor

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DEEP BRAIN STIMULATION · 9,739 citations

1. Al Darmaki AA, Malahifci R, Ahmed S, Al Mikhi NI, Khanday S, Nasr DS. **Mesenchymal Stem Cell Therapy in Parkinson's Disease: A Comprehensive Review.** Cureus 2026 18(3):e105206 PubMed Free Full Text
2. Alderete JA, Madera A, Markovic D, Rifi Z, Harary M, Fu KA, Cross KA, Bari AA, Mendizabal A. **Access to movement disorders care and advanced surgical therapies in a tertiary care center.** Front Neurol 2026 17:1743834 PubMed Free Full Text
3. Alexander KG, Shibib D, Valiotis AK, Sivanathan S, Al-Rabadi J, Prottoy AR, Bredell C, Marjan J, Nakanishi H, Than CA, Danoun O. **Efficacy and quality of life outcomes in deep brain stimulation for epilepsy: A meta-analysis and systematic review.** Seizure 2026 138:9-19 PubMed

4. Alhodaif H, Alkhodair Y, Alotaibi F, Alqahtani S, Bohlega S, Aldakheel A. **Long-Term Outcomes of Deep Brain Stimulation in Woodhouse-Sakati Syndrome.** Mov Disord 2026 41(6):1427-1433 PubMed Free Full Text

5. Baizabal-Carvallo JF, Jankovic J. **Opisthotonus: Revisiting a classic movement disorder.** J Neurol Sci 2026 482:125782 PubMed

6. Barbosa RP, Bastos P, Béreau M, Rolland AS, Rascol O, Brefel-Courbon C, Ory-Magne F, de Barros A, Moreau C, Hainque E, Rouaud T, Marques A, Eusebio A, Colin O, Drapier S, Guehl D, Maltete D, Tranchant C, Giordana C, Tir M, Thobois S, Hopes L, Brandel JP, Jarraya B, Corvol JC, Devos D, Fabbri M, PREDISTIM Group. **Is being asymmetric a bad thing? Insights from a longitudinal observational study on STN-DBS Parkinson's disease.** Parkinsonism Relat Disord 2026 146:108283 PubMed

7. Brazzano I, Pace V, Ceglia R, Gandotra P, Chinitz JS. **Electrocardiographic Artifact Caused by Deep Brain Stimulation Mimicking Atrial Flutter in Patient With Contralateral Pacemaker.** JACC Case Rep 2026 31(16):107378 PubMed Free Full Text

8. Chabardès S, Bartolomei F, Nica A, Haegelen C, Minotti L, Piallat B, Mosca C, Massicot S, Rheims S, Guenot M, Cuny E, Aupy J, Maillard L, Colnat-Coulbois S, Leroy C, Carron R, Coubes P, Gélisse P, Karachi C, Navarro V, Devaux B, Chassoux F, Derambure P, Reyns N, Sol JC, Valton L, Fontaine D, Bourg V, Kahane P, David-Tchouda S, Regis J. **Deep brain stimulation of the thalamus for intractable epilepsy (FRANCE study): A randomized clinical trial.** Epilepsia 2026 67(7):3318-3330 PubMed Free Full Text

9. Chang KW, Lee JI. **Robot-Assisted Deep Brain Stimulation for Parkinson's Disease : Accuracy, Workflow, Clinical Outcomes, and Safety.** J Korean Neurosurg Soc 2026 epub PubMed Free Full Text

10. Chiu JZ, Yap YH, Tan SH. **Deep Brain Stimulation for Refractory OCD and Depression: From Neurocircuitry to Personalised Neuromodulation.** Int J Psychiatry Med 2026 epub 912174261435019 PubMed Free Full Text

11. Choi YJ, Yacoubi B, Delmas S, Suh YS, Kim JJ, Hubbard J, Okun MS, Christou EA. **The effect of thalamic deep brain stimulation on obstacle clearance in essential tremor.** Clin Neurophysiol 2026 187:2111869 PubMed

12. Combs HL, York MK, Heydari H, Niemann N, Strutt AM, Viswanathan A, Yadav MS, Jimenez-Shahed J. **Comparative Analysis of Impulse Control Symptoms Among Individuals Receiving GPi-DBS or STN-DBS for Parkinson's Disease.** J Neuropsychiatry Clin Neurosci 2026 epub appineuropsych20250111 PubMed

13. Courtin E, Thomas J, Guillaud E, Doat E, Cuny E, Guehl D, Burbaud P. **Kinematic analysis reliably assesses GPi-DBS effectiveness in dystonia.** J Neurol Neurosurg Psychiatry 2026 97(4):345-352 PubMed

14. D'Souza S, Batheja A, Chen J, Shah HP, Seshadri V, Opem N, Al-Dulaimi O, Toms J, D'Haese P, Dawant BM, Li R, Koch P, Larson P, Holloway KL. **Predictors of motor outcome with pallidal stimulation for Parkinson's disease from the CSP468 cohort.** NPJ Parkinsons Dis 2026 PubMed Free Full Text

15. Daraie AH, Damiani A, Khoshkhou M, Sanchez LA, Smith RJ, Agashe SH, Gonzalez-Martinez JA, Hopp J, Charles AS, Sarma SV, Kang JY. **Artificial intelligence for adaptive neuromodulation in drug-resistant epilepsy.** Epilepsia 2026 epub PubMed Free Full Text

16. De Monte D, Squintani GM, Ermanis G, Lavezzi F, Flumignan S, Valiante G, Ercole BH, Belgrado E, Bernardini A, Tereshko Y, Valente M, Rossi S, Lettieri C. **Effects of apomorphine, spinal rTMS, and BoNT on camptocormia: an exploratory wearable sensor-based analysis in a patient with MSA.** Toxicon 2026 276:109073 PubMed Free Full Text

17. de Neeling MGJ, Keulen BJ, Stam MJ, van Wijk BCM, Beudel M. **Adaptive deep brain stimulation in Parkinson's disease.** Lancet 2026 407(10534):1191-1204 PubMed

18. Ding H, Xie K, Bange M, Kühne H, Blech J, Nasseroleslami B, Volkmann J, Groppa S, Muthuraman M. **Macroscale Gradient-Informed Neural Oscillation Topography in Parkinson's Disease.** Mov Disord 2026 41(6):1434-1444 PubMed Free Full Text

19. Doshi PK, Agarbattiwala RV, Karnavat C. **Postoperative Determination of Directional DBS Lead Orientation: A Comparison of CT-Based Software and Rotational Fluoroscopy.** Stereotact Funct Neurosurg 2026 epub 1-12 PubMed

20. Duzkalir AH, Duzkalir HG, Yildirim DC, Askeroglu MO, Peker S. **CT-based MRI distortion correction reveals systematic coordinate discrepancies in subthalamic nucleus deep brain stimulation planning.** Clin Neurol Neurosurg 2026 266:109395 PubMed

21. Efthymiou E, Büchele F, Mahendran S, Stieglitz L, Balint B. **POLG-Related Parkinsonism with Good Response to Deep Brain Stimulation.** Mov Disord Clin Pract 2026 13(7):1748-1751 PubMed Free Full Text

22. Elsenbach A, Astalosch M, Ribeiro LM, Landfried E, Krause P, Schneider GH, Brandt GA, Kühn AA, Kübler-Weller D. **Cognitive and affective Theory of Mind abilities in Parkinson's disease before and 1 year after subthalamic deep brain stimulation.** Front Hum Neurosci 2026 20:1699729 PubMed Free Full Text

23. Eraifej J, Toth J, Hanemaaijer J, He S, Cheng X, Divanbeighi Zand AP, Stewart ME, FitzGerald JJ, Butler CR, Denison T, Green AL, Cleveland RO. **Suppression of pathological oscillations with transcranial focused ultrasound in Parkinson's disease.** Nat Commun 2026 PubMed Free Full Text

24. Fahim F, Farajzadeh M, Rahatijafarabad B, Mohammadi AM, Khorram A, Mostafaei M, Nikbakht O, Zamiri R, Sepehrian N, Oveisi S, Zali A. **Deep brain stimulation of the fornix for Alzheimer's disease: A systematic review and meta-analysis of cognitive outcomes.** Neurosurg Rev 2026 PubMed

25. Faraj MK. **Functional recovery after bilateral globus pallidus internus deep brain stimulation in primary dystonia: A prospective clinical evaluation.** Surg Neurol Int 2026 17:141 PubMed Free Full Text

26. Fleeting C, Lamp G, Johnson KA, Cagle JN, de Hemptinne C, Gunduz A, Wong JK. **Predicting monopolar local field potential power from bipolar recordings in deep brain stimulation.** medRxiv 2026 epub PubMed Free Full Text

27. Fleeting CR, Moraud EM, Uğurbil K, Wang DD, Neumann WJ, Kühn AA, Voon V, Pikov V, Welter ML, Fox MD, Rolston JD, Malekmohammadi M, Pathak YJ, Himes LM, Greene D, Holt-Becker AS, Lázaro-Muñoz G, Charney AW, Merner AR, Figee M, Scangos KW, Denison T, Leyde K, Gunduz A, Bronte-Stewart HM, Beck JC, Vanegas-Arroyave N, Luciano MS, Brüggemann N, Foote KD, Okun MS, Wong JK. **Proceedings of the 13th annual deep brain stimulation think tank: the evolving landscape.** Front Hum Neurosci 2026 20:1770451 PubMed Free Full Text

28. Gonul Oner O, Castrioto A, Pereira M, Meoni S, Pelissier P, De Schlichting E, Chabardes S, Moro E. **Untangling neurophysiology of Tourette syndrome using dual-target bi-pallidal deep brain stimulation.** Parkinsonism Relat Disord 2026 146:108298 PubMed

29. Grasso M, Coelho C, Chan-Seng E, Coubes P, Poulen G. **Perinatal Post-Anoxic Spinal Cord Injury: A Barrier to Pallidal Neuromodulation? About 2 Cases.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

30. Grasso M, Moser PO, Sauvageot S, Gil V, Chan-Seng E, Sanrey E, Coubes P, Poulen G. **Putamen Atrophy as a Predictive Factor of Efficacy of GPi-DBS in Dystonia-Dyskinesia Syndrome Secondary to Perinatal Anoxic Encephalopathy.** Mov Disord 2026 41(6):1402-1412 PubMed Free Full Text

31. Hamani C, Elias WJ, Baltuch GH, Gross RE, Rosenow JM, Schwalb JM, Air EL, Machado AG, Sweet J, Willie JT, Rolston JD, Englot DJ, Lipsman N, Zemmar A, Neimat JS, Cosgrove GR, Asaad WF, Ali R, Pilitsis JG, Danish SF. **Magnetic resonance-guided focused ultrasound for the management of tremor: update on the position statement of the American Society for Stereotactic and Functional Neurosurgery.** J Neurosurg 2026 145(1):4-12 PubMed

32. Hammer LH, Cernera S, Oehrn CR, Yao J, Shcherbakova M, Hahn AG, Little S, Starr PA. **Stimulation and Medication Effects on Subthalamic Nucleus Beta-Band Power in Parkinson's Disease: Implications for Adaptive Deep Brain Stimulation.** Mov Disord 2026 41(8):2022-2032 PubMed Free Full Text

33. Hamre T, Suzuki H, Soubra S, El Jammal R, Ryan MA, Mathew SJ, Herron JA, Moukaddam N, Storch EA, Arroyave NV, Marshall KL, Banks GP, Pouratian N, Goodman WK, Provenza NR, Sheth SA, Heilbronner SR. **Transient disruption of bladder control linked to periaqueductal gray fibers following deep brain stimulation for psychiatric disorders.** Brain Stimul 2026 19(3):103092 PubMed Free Full Text

34. Hey GE, Kamo H, Perez Rodriguez Garcia G, Mehta TR, Eisinger RS, Okun MS, Hilliard JD, Foote KD, Ramirez-Zamora A. **Long-Term Outcomes of Subthalamic Nucleus and Globus Pallidus Interna Deep Brain Stimulation for Young-Onset Parkinson Disease.** Neurol Clin Pract 2026 16(3):e200605 PubMed Free Full Text

35. Huang Q, Liu X, Ji X, Jin R, Liu C, Jin K, Hu S. **[Progress and Prospects of Ultrasound Brain-Computer Interface Medical Devices Technology].** Chinese. Zhongguo Yi Liao Qi Xie Za Zhi 2026 50(2):181-187 PubMed

36. Kang K, Arakawa R, Sterner I, Seemiller J, Currens L, Khamishon R, Salimpour Y, Mills K, Pantelyat A. **Effect of rhythmic auditory stimulation (RAS)® with and without melody on Parkinson's disease (PD) patients with deep brain stimulation (DBS): A study protocol.** PLoS One 2026 21(3):e0344290 PubMed Free Full Text

37. Keulen BJ, Stam MJ, de Neeling MGJ, Hubers D, Boonstra JT, van Wijk BCM, Swinnen BEKS, Beudel M. **Amsterdam Local Field potential Analysis (ALFA) toolbox: an open source software package for deep brain stimulation research.** Brain Stimul 2026 19(3):103071 PubMed Free Full Text

38. Kondrataviciute L, Kapadia M, Skelin I, Sumarac S, Zivkovic L, Vergara LAF, Jafri S, Tan C, Chau H, Hou Y, Blade S, Liu X, Hamani C, Valiante T, Hutchison WD, Milosevic L, Kalia LV, Kalia SK. **Cortical and basal ganglia beta oscillations and frequency-dependent DBS effects in the A53T Parkinson's disease rat model.** NPJ Parkinsons Dis 2026 PubMed Free Full Text

39. Lai Y, Zhang Y, Wang Y, Wang L, Dai L, Ye K, Lv X, Wang F, Zhang J, Zhao Y, Hu K, Huang P, Zhang X, Qiu X, Pan Y, Liu W, Liu Q, Zhang C, Fang Y, Ye Z, Yuan TF, Li D, Li N, Lozano AM, Voon V, Zhan S, Sun B. **Bed nucleus of the stria terminalis-nucleus accumbens stimulation for depression: A randomized, double-blind, crossover trial.** Cell Rep Med 2026 7(4):102711 PubMed Free Full Text

40. Lasica A, Mangia S, Michaeli S, Vaneckova M, Jech R, Filip P. **Technical considerations of functional MRI in deep brain stimulation: recent advances and future perspectives.** Neuroimage 2026 331:121889 PubMed Free Full Text

41. Lee H, Lee S, Hwang KS, Kim G, Hong Y, Kim M, Eun J, Kim HN, Chou N, Shin H. **Biocompatible Lubricant-Coated Flexible Neural Probes with Enhanced Long-Term Recording Stability.** ACS Appl Bio Mater 2026 9(7):3286-3298 PubMed

42. Leentjens AFG, Pontone GM. **Perspective: Depression in Persons with Parkinson's Disease.** Mov Disord 2026 41(6):1355-1361 PubMed Free Full Text

43. Liang Y, Luo M, Wang Y. **The anterior cingulate cortex as an integrative hub: Mechanisms underlying pain and anxiety comorbidity.** Neurosci Biobehav Rev 2026 185:106646 PubMed

44. Lin W, Yang L, Wu Y, Wang D. **Cross-national disparities in end-of-life outcomes and care strategies for Parkinson's disease: a systematic review and meta-analysis of China and the United States.** BMC Health Serv Res 2026 PubMed Free Full Text

45. Liu K, Wan S, Wang H, Zhao J, Chen X, Shu H, Yu S. **Interleaved stimulation in globus pallidus internus deep brain stimulation in a case of adult-onset Huntington's disease.** BMC Neurol 2026 PubMed Free Full Text

46. Loehrer PA, Yassine S, Weber I, Sanner V, He S, Pogosyan A, Chen L, Witt L, Fink GR, Pedrosa DJ, Timmermann L, Tan H. **Frequency-specific and spatiotemporal dynamics of β-γ phase-amplitude coupling in Parkinson's disease.** Brain 2026 epub PubMed Free Full Text

47. Manohara N, Maio MB, Lobo FA. **Anesthesia for patients with movement disorders.** Curr Opin Anaesthesiol 2026 39(3):348-356 PubMed

48. Mei S, He N, He W, Yan J, Chu C, Zeng Z, Yan F, Li D, Pu Y, Zhang C, Kong XZ. **Pallidal and subthalamic stimulations modulate inter-hemispheric interaction and asymmetry in Parkinson's disease.** Mol Psychiatry 2026 31(8):4483-4493 PubMed

49. Mittal SO, Roser F, Thomas M, Abdelmajid Y, Brown L, De Freitas E, Waqar K, Ugas C, Anjum A, Maiti T. **Deep brain stimulation in the Middle East: First UAE experience comparing subthalamic and pallidal targets for Parkinson's disease.** Parkinsonism Relat Disord 2026 146:108271 PubMed Free Full Text

50. Montiel MA, Fasano A. **Reply to: Deprescribing after DBS in Dystonia: Promise, Pitfalls, and a Path Forward.** Mov Disord Clin Pract 2026 13(7):1795-1796 PubMed Free Full Text

51. Off J, Scherer M, Peschke S, Kirschner A, Zhang W, Shaik J, Dong J, Mehrkens JH, Kaufmann E, Koeglsperger T. **Psychometric reliability of patient-reported visual analogue scales in subthalamic nucleus deep brain stimulation programming for Parkinson's disease.** Brain Commun 2026 8(2):fcag100 PubMed Free Full Text

52. Oikarinen N, Ottela E, Rönkä J, Haanpää M, Niemelä S, Lees AJ, Kaasinen V. **At the extreme limits of L-DOPA therapy: probable dopamine dysregulation and psychiatric complications in Parkinson's disease.** BMJ Neurol Open 2026 8(1):e001498 PubMed Free Full Text

53. Owens MR, Botros D, Campbell JM, Nelson JR, Dou RX, Rolston JD, Shofty B, Rahimpour S. **Cost Variability in Stereotactic Technique for Deep Brain Stimulation: A Single-Institution Retrospective Study.** Stereotact Funct Neurosurg 2026 epub 1-9 PubMed Free Full Text

54. Parikh P, Dolezawa I, Hegde M, Imbach L, Lundstrom BN, Pizzo F, Rao VR, Singh J, Southwell D, Watanabe S, Frauscher B. **A guide to neuromodulation in drug-resistant epilepsy.** Epileptic Disord 2026 28(4):953-980 PubMed Free Full Text

55. Park JY, Mesa JC, Lim J, Eksioglu D, Vega SR, Lee A, Lee H. **Neuroendoscopy-compatible neurostimulation catheter for minimally-invasive and multifunctional hypothalamic deep brain stimulation.** Biomed Microdevices 2026 PubMed Free Full Text

56. Patil S, Gerlach A, Jeevika F, Patel R, Christner E, Gujral J, Gandhi OH, Writer M, Wang NM, Kopylova A, Zagorski SA, Ayubcha C, Werner T, Alavi A, Revheim ME. **Deep Brain Stimulation for Psychiatric Disorders: A Systematic Review of Molecular Imaging with PET.** World Neurosurg 2026 210:124933 PubMed Free Full Text

57. Prasad S, Pal PK. **Cerebellar and Outflow Tremor.** Semin Neurol 2026 epub PubMed

58. Ren J, Jiang C, Zhang W, Dahmani L, Shen L, Zhang F, Li S, He C, Yin Y, Fu X, Huang J, Long Y, Liu D, Guo Y, Liu Y, Xu S, Meng F, Zhang J, Wang D, Li L, Liu H. **Circuit response to neuromodulation characterized with simultaneous deep brain stimulation and precision neuroimaging in humans.** Nat Neurosci 2026 29(7):1749-1761 PubMed Free Full Text

59. Salari M, Etemadifar M, Soleimani S. **Parkinson's Disease in Times of War: Gaps in Knowledge and Emerging Controversies.** Mov Disord 2026 41(6):1362-1369 PubMed

60. Saw LJ, Chan LG, Li W, Ng HL, Xu Z, Tay KY, Au WL, Wan KR, Neo S, Tan LCS. **Neuropsychiatric outcomes after deep brain stimulation for Parkinson's disease - Real-world data from a national movement disorders unit.** Gen Hosp Psychiatry 2026 100:156-162 PubMed

61. Scott T, Ricciardi L, Hart MG, Tan H, Morgante F, Pereira EAC. **Between Surgery and Science: Patient Journeys in Deep Brain Stimulation Local Field Potential Research.** Neuromodulation

2026 29(5):843-850 PubMed Free Full Text

62. Shi Y, Li Z, Liu R, Zhang X, Wang M, Ma R, Yin T, Zhou X, Liu Z. **A Multi-Channel AM-TMAS Driving System Based on Amplitude-Modulated Sine Waves.** Bioengineering (Basel) 2026 PubMed Free Full Text

63. Singhal M, Grannie C, Burnette M, Hernandez ME, Hegazy SA. **Freezing of Gait in Parkinson's Disease: A Scoping Review on the Path Towards Real-Time Therapies.** Sensors (Basel) 2026 PubMed Free Full Text

64. Song H, Lee J, Lee J, Kim J, Kim J, Kang S, Kim J. **Thalamostriatal circuit as a therapeutic target of alcohol use disorder.** Neurobiol Dis 2026 223:107367 PubMed Free Full Text

65. Stanslaski S, Netoff TI. **State-dependent fornix-hippocampal communication and the impact of deep brain stimulation: Insights from supervised learning, granger causality and causal discovery analyses.** Brain Stimul 2026 19(3):103070 PubMed Free Full Text

66. Steiner L, Darie R, Lindsay A, Tseng HA, van Welie I, Han X. **Deep brain stimulation reduces subthalamic nucleus pathological dynamics and rescues gait deficits associated with dopamine loss.** bioRxiv 2026 epub PubMed Free Full Text

67. Su L, Li A, Li Z, Liu Y, Cheng G, Shen B, Wang J, Wu J. **AI-based retrospective analysis: differential improvement profiles of medication and deep brain stimulation in Parkinson's disease.** Front Neurol 2026 17:1758218 PubMed Free Full Text

68. Talati P, Spindler M, Halpern CH. **Framework for Approaching Patients with Suboptimal Deep Brain Stimulation Therapy Response despite Stimulation Optimization.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

69. Thomsen M, Borsche M, Yépez VA, Rasche D, Ullrich KK, Tadic V, Abdelwakeel SM, Busch H, Franzenburg S, Trinh J, Klein C, Lohmann K, Brüggemann N. **Multi-Omics Characterization of a KIF1C Structural Variant in a Patient with a Complex Movement Disorder Partially Responsive to Deep Brain Stimulation.** Cerebellum 2026 PubMed Free Full Text

70. Thrash GW, Wang E, Brockington D, Rives C, Sun Y, Roberts AC, Das S, Pilitsis JG, Shirvalkar P, do Campo RV, Walker HC, Earley CJ, Holland MT. **Neuromodulation for Restless Legs Syndrome: A Systematic Review and Mechanistic Considerations for Spinal Cord Stimulation.** Sleep Breath 2026 PubMed Free Full Text

71. Treffy RW, Morris J, Srivastava P, Palmer PG, Pahapill PA. **Surgical neuromodulation: prevalence of Staphylococcus aureus, decolonization, and rates of infection.** J Neurosurg 2026 145(2):302-310 PubMed

72. Ts S, Raj G, Kiso K. **A Review of Therapeutic Strategies to Enhance ;Neuroplasticity in Parkinson's Disease: ;Implications for Slowing Disease Progression ;and Promoting Recovery.** Ann Neurosci 2026 epub 09727531251375180 PubMed Free Full Text

73. Tuysuz O, Hasimoglu O, Basaran R, Uslu AA, Bezgin SU, Ogreden S, Yigit O. **Impact of subthalamic nucleus deep brain stimulation on voice and speech in Parkinson's disease.** Eur Arch Otorhinolaryngol 2026 283(5):3173-3182 PubMed Free Full Text

74. Tyagi A, Singh AP. **Epilepsy: Modern Treatment Approaches, Clinical Aspects, and Patent Status.** CNS Neurol Disord Drug Targets 2026 epub PubMed

75. Vansdadia SH, Dhupati P, Ramaiah P, Dhanani SS, Bina RW. **Effect of deep brain stimulation on patients with Parkinson's disease with mild cognitive impairment.** BMJ Neurol Open 2026 8(1):e001442 PubMed Free Full Text

76. Venkatesan S, Sorrentino Z, Mampre D, Chandra V, Hilliard J. **Contemporary and evolving perspectives on surgical therapies for essential tremor: deep brain stimulation and focused ultrasound.** Expert Rev Neurother 2026 26(5):443-460 PubMed

77. Wang J. **Assessing the efficacy and safety of rTMS, tDCS, and DBS in treating auditory hallucinations: a scoping review.** Front Hum Neurosci 2026 20:1769095 PubMed Free Full Text

78. Weigl B, Pistorius R, Roothans J, Pozzi NG, Paschen S, Deuschl G, Volkmann J, Reich MM. **Probabilistic mapping of tremor control and gait ataxia risk in deep brain stimulation.** J Neural Transm (Vienna) 2026 133(8):1963-1975 PubMed Free Full Text

79. Yarız K, Akbostancı MC, Sayar Akaslan D, Ayidaga T, Bayram E, Yılmaz R. **Suicidality in Parkinson's disease: a controlled study and review of literature.** Neurol Sci 2026 PubMed

80. Yatsuda K, Fukunaga M, Yu W, Gomez-Tames J. **Impact of brain anisotropy on transcranial temporal interference stimulation: numerical analysis toward reliable montage optimization.** Biomed Eng Lett 2026 16(4):1035-1046 PubMed Free Full Text

81. Yavuz Z, Önder H, Ülker AC, Çomoğlu SS. **Neuropsychological Outcomes of Long-Term STN-DBS in Parkinson's Disease: A Multidomain Study in a Turkish Cohort.** Asian J Neurosurg 2026 21(3):586-592 PubMed Free Full Text

82. Zhao Z, Zhao S, Cai H. **Deprescribing after DBS in Dystonia: Promise, Pitfalls, and a Path Forward.** Mov Disord Clin Pract 2026 13(7):1793-1794 PubMed Free Full Text

83. Zhu GY, Ma RY, Zhang RL, Wang SY, Zhang JG, Shi L. **Association of low-frequency oscillations with target selection between the subthalamic nucleus and globus pallidus internus in blepharospasm-oromandibular dystonia.** J Neurol 2026 PubMed

84. Zulkarnain NIH, Sadeghi-Tarakameh A, Thotland J, Harel N, Eryaman Y. **Implant-friendly MRI of deep brain stimulation patients at 3T.** Neuroimage 2026 331:121867 PubMed Free Full Text

85. Zurita-Cueva B, Vaca-Burbano L, Ramírez-Penso C, Navarrete-Carreño M, Mejía A, Coronado JC, Morales-Asencio B, Saldías C, López N. **Long-term outcomes after caudal zona incerta-forel field ablation: three-year clinical follow-up in advanced Parkinson's disease.** Front Aging Neurosci 2026 18:1756591 PubMed Free Full Text

86. Zurita-Cueva B, Vaca-Burbano L, Ramírez-Penso C, Navarrete-Carreño M, Mejía A, Coronado JC, Saldías C, Pezoa I, López N. **Infrathalamic ablation in advanced Parkinson's disease: Three-year outcomes support a safe and accessible therapeutic strategy.** Parkinsonism Relat Disord 2026 146:108268 PubMed

SPINAL CORD STIMULATION · 3,776 citations

1. Anitescu M, Loudermilk E, North J, Wahezi S, Antony A, Leier T, Trainor D, Noles J, Moore G, Lee J, Paez J, Wilson D, Van Belleghem V, Goldberg E. **Pain Relief and Multidimensional Outcomes of Fast-Acting Subperception Spinal Cord Stimulation Therapy for Chronic Pain: The FAST Prospective, Multicenter Study.** Pain Ther 2026 15(3):643-662 PubMed Free Full Text

2. Bye EA, Boswell-Ruys CL, Héroux ME, Lee BB, McCaughey EJ, Djajadikarta ZJ, Perez MA, Mendoza G, Purcell M, Lincoln C, Taylor J, Ríos-León M, Williams G, Kundevski M, Diong J, Humburg P, Chen B, Fuchs N, Finn H, Menchero R, Palazón-García R, Sepúlveda-Rodríguez S, Starkey S, Trinh T, Butler JE, Gandevia SC. **Transcutaneous spinal cord stimulation plus locomotor training versus sham-stimulation plus locomotor training in chronic spinal cord injury (eWALK): a multicentre, triple-blind, randomised, sham-controlled trial.** EClinicalMedicine 2026 93:103802 PubMed Free Full Text

3. Davies H, Boalot A, Howitt A, Vleugels MJ, Tam SKP, Kwan JY, Black S, Francis I, Bull C, Mees BME, Mitchell S, Russell D. **Analgesic strategies for ischaemic pain in chronic limb-threatening ischaemia: a systematic review and meta-analysis.** Pain Rep 2026 11(2):e1426 PubMed Free Full Text

4. De Monte D, Squintani GM, Ermanis G, Lavezzi F, Flumignan S, Valiante G, Ercole BH, Belgrado E, Bernardini A, Tereshko Y, Valente M, Rossi S, Lettieri C. **Effects of apomorphine, spinal rTMS, and BoNT on camptocormia: an exploratory wearable sensor-based analysis in a patient with MSA.** Toxicon 2026 276:109073 PubMed Free Full Text

5. Floridia D, Panasiti R, Anselmo A, Corallo F, Pagano M, Cappadona I, Leonardi S, Calabrò RS. **Correction: Long-term relief of refractory trigeminal neuropathy using high-frequency spinal cord stimulation at the cervicomedullary junction: a 6-year follow-up case report.** Front Neurosci 2026 20:1816472 PubMed Free Full Text

6. Gallacher DM, Suarez M, Jevotovsky DS, Oehlermarx W, Azad TD, Dovlatyan R, Chopra H, Broachwala M, AlFarra T, Petersen EA, Patel KV, Orhurhu V, Castellanos J. **Spinal Cord Stimulation for Pain Management Following Spinal Cord Injury: A Systematic Review.** J Pain Res 2026 19:573333 PubMed Free Full Text

7. Gillespie E, Bouchal E, Li G, Pilitsis JG. **Surgical techniques for patients with cancer-related neuropathic pain.** Neurooncol Adv 2026 8(Suppl 3):iii37-iii46 PubMed Free Full Text

8. Jacques CL, Stephens AR, El-Hassan R, Aktas AF, Becker R, LaPlante BL, Patel RK. **Fluoroscopic radiation exposure during spinal cord stimulation procedures: A systematic review and meta-analysis.** Interv Pain Med 2026 5(2):100755 PubMed Free Full Text

9. Kang HY, Lee CH, Kim DH, Kim YD, Kim WJ, Kim E, Kim JH, Kim HJ, Minn Y, Yang K, Oh J, Yoo Y, Lim SY, Jue MS, Choi EJ, Han K, Choi SS. **Clinical practice guidelines for the management of refractory postherpetic neuralgia by the Korean Pain Society.** Korean J Pain 2026 39(2):171-190 PubMed Free Full Text

10. Kitamura I, Kaneko M, Sugiyama Y, Fuse S, Hirano S, Iceman K, Pitts T, Koike T. **Efficacy of a Gaussian-frequency charge-imbalanced biphasic waveform for facilitating swallowing via**

thoracic epidural spinal cord stimulation. Neurosci Lett 2026 877:138577 PubMed

11. Le Tutour T, El Houari K, Billot M, Rochette M, Germaneau A, Rigoard P. **Computational modeling of paresthesia generated by SCS using a percutaneous lead: a proof-of-concept theoretical model based on an arbitrary somatotopic distribution.** Biomed Phys Eng Express 2026 PubMed Free Full Text

12. Lu J, Ge Q, Liu Y, He J, Han J, Yu N. **Awareness- and Arousal-specific Brain Analysis Predicts Spinal Cord Stimulation Effectiveness in Disorders of Consciousness.** IEEE J Biomed Health Inform 2026 epub PubMed

13. Medlock L, Prescott SA. **Spinal Processing of Spatiotemporally Diverse Tactile Stimuli: Computational Insights into Allodynia and Spinal Cord Stimulation.** J Neurosci 2026 PubMed Free Full Text

14. Penz LE, Nelson AW, Smither FC, Hagedorn JM. **Case Report: Spinal cord stimulation for phantom limb pain facilitates upper limb myoelectric prosthesis use.** Front Pain Res (Lausanne) 2026 7:1751694 PubMed Free Full Text

15. Sojitra N, Gupta R. **Spinal Cord Stimulation for Chronic Pelvic Pain Secondary to Oncologic Complications: A Case Report.** Cureus 2026 18(3):e105136 PubMed Free Full Text

16. Sorensen E, Borda L, Ostrowski J, de Freitas RM, Verma N, Fisher LE, Wittenberg GF, Gerszten P, Weber DJ, Pirondini E, Gorassini M, Krakauer JW, Capogrosso M. **Recovery of Dexterous Motor Control via Non-Monosynaptic Corticospinal Pathways.** medRxiv 2026 epub PubMed Free Full Text

17. Tang M, Li Z, Sun L, He Q, Yang H, Wang JJ, Shu Y, Deng J. **Customized ultra-flexible and adhesive spinal cord stimulation electrode for chronic pain management.** Mater Today Bio 2026 37:103018 PubMed Free Full Text

18. Tao K, Yu Z, Cheng Z, Ye Q. **Spinal Cord Stimulation Alleviates Spinal Cord Injury-Induced Neuropathic Pain Via m.** Neurochem Res 2026 PubMed

19. Thrash GW, Wang E, Brockington D, Rives C, Sun Y, Roberts AC, Das S, Pilitsis JG, Shirvalkar P, do Campo RV, Walker HC, Earley CJ, Holland MT. **Neuromodulation for Restless Legs Syndrome: A Systematic Review and Mechanistic Considerations for Spinal Cord Stimulation.** Sleep Breath 2026 PubMed Free Full Text

20. Treffy RW, Morris J, Srivastava P, Palmer PG, Pahapill PA. **Surgical neuromodulation: prevalence of Staphylococcus aureus, decolonization, and rates of infection.** J Neurosurg 2026 145(2):302-310 PubMed

21. Wu D, Wang Y, Hong B. **Lumbar enlargement spinal cord stimulation for severe spasticity and motor function improvement after traumatic brain injury: a case report.** Front Hum Neurosci 2026 20:1754152 PubMed Free Full Text

22. Zhu Z, Li Y, Wang Y, Yin Y, Zhou X, Liu Z, Chen K, Yan Y, Ji J, Zhang P. **An Immunocompatible Conductive Hydrogel Via Anion-π Interlocking as an Injectable Bridge for Sustained Bioelectronic Interfacing.** Adv Mater 2026 38(21):e72820 PubMed

SCS META-ANALYSES · 67 citations

1. Davies H, Boalot A, Howitt A, Vleugels MJ, Tam SKP, Kwan JY, Black S, Francis I, Bull C, Mees BME, Mitchell S, Russell D. **Analgesic strategies for ischaemic pain in chronic limb-threatening ischaemia: a systematic review and meta-analysis.** Pain Rep 2026 11(2):e1426 PubMed Free Full Text
2. Gallacher DM, Suarez M, Jevotovsky DS, Oehlermarx W, Azad TD, Dovlatyan R, Chopra H, Broachwala M, AlFarra T, Petersen EA, Patel KV, Orhurhu V, Castellanos J. **Spinal Cord Stimulation for Pain Management Following Spinal Cord Injury: A Systematic Review.** J Pain Res 2026 19:573333 PubMed Free Full Text
3. Jacques CL, Stephens AR, El-Hassan R, Aktas AF, Becker R, LaPlante BL, Patel RK. **Fluoroscopic radiation exposure during spinal cord stimulation procedures: A systematic review and meta-analysis.** Interv Pain Med 2026 5(2):100755 PubMed Free Full Text
4. Thrash GW, Wang E, Brockington D, Rives C, Sun Y, Roberts AC, Das S, Pilitsis JG, Shirvalkar P, do Campo RV, Walker HC, Earley CJ, Holland MT. **Neuromodulation for Restless Legs Syndrome: A Systematic Review and Mechanistic Considerations for Spinal Cord Stimulation.** Sleep Breath 2026 PubMed Free Full Text

DORSAL ROOT GANGLION STIMULATION · 319 citations

1. Enaohwo O, Bansal V, Javed S. **Impact of Tunneling on Lead Migration in Peripheral Nerve Stimulation: A Retrospective Cohort Study.** Neuromodulation 2026 epub PubMed
2. Morgalla MH, Rasche D. **[Dorsal root ganglion stimulation in neuromodulation-Evidence, indications and clinical application].** German. Schmerz 2026 40(3):186-191 PubMed
3. Shah A, Boda S, Andriano C, Patel AA, Dhillon R, Reyes A, Deer T. **Developments in dorsal root ganglion stimulation to treat pain of neuropathic origin.** Expert Rev Neurother 2026 26(4):357-370 PubMed

PERIPHERAL NERVE STIMULATION · 1,031 citations

1. Bakbayeva A, Tungushpayev M, Sarria-Santamera A, Viderman D. **The Impact of Restorative Neurostimulation on Outcomes in Low Back Pain Management: Systematic Literature Review With Meta-analysis.** Neuromodulation 2026 epub PubMed
2. Baker P, Pal D, Kendall C, Avula LV, Papanikitas J, Yanny S, Hughes R, McKean D. **Recent Advances and Immediate Future of Spinal Intervention.** Semin Musculoskelet Radiol 2026 30(3):361-378 PubMed
3. Bedder M, Abd-Elsayed A. **Mechanisms of Action of Low-Frequency Pulsed Magnetic Fields in Pain Control.** Bioengineering (Basel) 2026 PubMed Free Full Text

4. Coventry ME, Mosler AB, Chivers PT, Green BD, Rio EK, Murphy MC. **Measuring Plantar Flexor Voluntary Activation and Maximal Voluntary Contraction in a Portable, Seated Method: A Validity and Reliability Study.** J Funct Morphol Kinesiol 2026 PubMed Free Full Text

5. Enaohwo O, Bansal V, Javed S. **Impact of Tunneling on Lead Migration in Peripheral Nerve Stimulation: A Retrospective Cohort Study.** Neuromodulation 2026 epub PubMed

6. Fontaine D, Fabre R, Leplus A, Donnet A, Regis J, Balossier A, Lucas C, Buisset N, Raoul S, Derrey S, Jarraya B, Creach C, Chabardes S, Voirin J, Colnat-Coulbois S, Caire F, Rigoard P, Demarquay G, Simon E, Lanteri-Minet M. **Predictive factors of effectiveness of occipital nerve stimulation for chronic cluster headache: data from for the French ONS registry.** J Headache Pain 2026 PubMed Free Full Text

7. Gan ZS, Abdulfattah S, Lege-Matsuura J, Fischer KM, Van Batavia JP. **Systematic Review of Percutaneous and Transcutaneous Posterior Tibial Neurostimulation for Lower Urinary Tract Symptoms & Lower Urinary Tract Dysfunction in Children.** Neurourol Urodyn 2026 45(4):774-793 PubMed Free Full Text

8. Limprayoon K, Butpech T, Phumeetham S, Intra T, Preeprem N, Law S. **Effect of Adjunctive Train-of-Four Monitoring Using Peripheral Nerve Stimulation on Neuromuscular Blocking Agent Dose in PICU Patients: A Randomized Crossover Study.** Pediatr Crit Care Med 2026 27(7):882-890 PubMed Free Full Text

9. Nguyen AT, Galiano RD, Ellis MF. **Approaches to Occipital Neuralgia Treatment: A Systematic Review and Case Examples.** Plast Reconstr Surg Glob Open 2026 14(3):e7551 PubMed Free Full Text

10. Odonkor CA, Siddique MU, Palaniappan S, Locklear J, Pokuri S, Adler A, Adekoya P, Hsu AW, Paek J, Prabhakar H, Martins YC, Smith C, Osuagwu U, Comrie FK, Abd El Sayed A. **Quality of ChatGPT-Generated Responses to Common Patient Questions About Peripheral Nerve Stimulation: A Cross-Sectional Study.** Clin Pract 2026 PubMed Free Full Text

11. Yoon S, Lee H, Kim S, Jung H, Choi H, Kim JY, Shin M, Son D. **Tissue-Adhesive Carbon Nanotube Bioelectronics with Intrinsic Stretchability and Mechanical Adaptation.** ACS Nano 2026 20(10):8498-8510 PubMed

12. Özyurt MG, Nascimento F, Pascual-Valdunciel A, Dhillon K, Bansal V, Brownstone RM, Beato M. **[No title].** bioRxiv 2026 epub PubMed Free Full Text

SACRAL NERVE STIMULATION · 1,356 citations

1. Dreyfuss LD, Wang L, Nik-Ahd F, Shatkin-Margolis A, Covinsky K, Boscardin WJ, Suskind AM. **Outcomes following intradetrusor onabotulinumtoxinA injections and sacral neuromodulation in older men.** BJUI Compass 2026 7(4):e70168 PubMed Free Full Text

2. Rotar M, Kogovsek U. **Anal sphincter electromyography as a guidance tool for optimal electrode positioning in sacral neuromodulation.** Clin Neurophysiol 2026 186:2111847 PubMed

3. Schwandner O. **[Anorectal functional disorders following organ-preserving treatment and resection of rectal cancer].** German. Chirurgie (Heidelb) 2026 97(7):545-553 PubMed

4. Zubiri C, Zosi A, Bigliardi R. **[Advances in the Treatment of Refractory Pediatric Constipation].** Spanish. Acta Gastroenterol Latinoam 2026 56(1):41-56 PubMed Free Full Text

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