NEWSLETTER #154 August 2026 See ABOUT WIKISTIM

EDITORIAL

Catching Up: August 2026 Issue (July Data)

This is the last of WIKISTIM's five retroactive catch-up newsletters (see issue #150 for background). This edition covers the 331 citations WIKISTIM identified in July 2026. Our regular monthly publication schedule resumes with issue #155.

— Manuel Roulaud, WIKISTIM Managing Editor

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DEEP BRAIN STIMULATION · 10,497 citations

1. Abbas A, Sabet H, Hawas Y, Yousef O, Kassar O, AbdelMeseh M, Khatatbeh AA, Lashin B, Awad H, Cloud LJ, Negida A, Raslan AM. **Impact of Subthalamic Nucleus Deep Brain Stimulation on Gastrointestinal Symptoms and Gastric Emptying in Parkinson's Disease: A Systematic Review and Meta-Analysis.** Neuromodulation 2026 29(5):711-720 PubMed
2. Agashe S, Nemade D, Park S, Ashok AIJB, Vestal M, Southwell D, Grant G. **Local field potentials for target localization in centromedian deep brain stimulation for epilepsy.** Front Neurosci 2026 20:1855048 PubMed Free Full Text
3. Ahmed R, Feng Y, Roe AW, Chen ZS. **Toward Optimizing Thalamic Deep Brain Stimulation for Cortical Modulation: A Surrogate Brain Approach.** bioRxiv 2026 epub PubMed Free Full Text
4. Al Ali J, McKay JL, Miocinovic S, Buetefisch C. **Reply to Comment on: "Bilateral Deep Brain Stimulation of the Subthalamic Nucleus or Globus Pallidus Internus Improves Gait Impairment in Parkinson's Disease".** Mov Disord 2026 41(8):2229-2230 PubMed Free Full Text
5. Alfonsi A, Tang-Cabrera J, Lee E, Koller AL, Chen PJ, Scalise L, Hawkes MA, Oh Y, Sung J, Shin H, Lee KH. **Design and validation of a stereotactic frame for independent bilateral multi-**

trajectory targeting. J Neural Eng 2026 PubMed

6. Andrés VV, Amory J, Lucie H, Guillemette C, Laetitia L, Aurélie B, Mylène D, Céline B, Solène F, Mathilde R, Salomé P. **Continuous Intrajejunal Levodopa-Carbidopa Infusion in Parkinson's Disease Associated with 22q11.2 Deletion Syndrome: A Case Series.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

7. Arbab S, Ullah H, Han Y, Zhou J, Ka L. **Targeting neuroinflammation and neurodegeneration in Parkinson's disease: Emerging natural and synthetic therapeutic strategies.** Ageing Res Rev 2026 121:103263 PubMed

8. Arija P, Boeri M, Yan CH, Baldwin Z. **Preferences for Parkinson's Disease Treatments: A Scoping Literature Review.** Patient 2026 epub PubMed

9. Ashem T, Shah SA, Dash A, Radhakrishnan DM, Garg D, Arunmozhimaran I E, Das A, Gupta A, Vishnu VY, Singh MB, Bhatia R, Srivastava AK, Singh M, Garg A, Garg K, Sarat Chandra P, Rajan R. **Clinical outcomes after pallidotomy for dystonia: A pilot study of lesion volume and topography.** Parkinsonism Relat Disord 2026 150:108902 PubMed

10. Au KLK, Pahwa V, Lyons KE, Pahwa R. **Long term improvement in quality of life in Parkinson's disease after deep brain stimulation of the subthalamic nucleus: an observational cohort.** Clin Park Relat Disord 2026 15:100481 PubMed Free Full Text

11. Bahners BH, Goede LL, Zvarova P, Meyer GM, Butenko K, Lofredi R, Rajamani N, Schaper FLWVJ, Neudorfer C, Hollunder B, Pijar J, Madan S, Hart LA, Sure M, Steina A, Rassoulou F, Hartmann CJ, Butz M, Hirschmann J, Vesper J, Faust K, Schneider GH, Sander TH, Neumann WJ, Fox MD, Miller KJ, Schnitzler A, Kühn AA, Florin E, Horn A. **The deep brain stimulation response network in Parkinson's disease operates in the high beta band.** Brain 2026 149(7):2395-2408 PubMed

12. Baker MR, Bokil H, Niketeghad S, Miller KJ, Klassen BT. **Cutting Through the Noise: Stochastic Pulse Timing for Deep Brain Stimulation.** medRxiv 2026 epub PubMed Free Full Text

13. Barbosa RMG, Yamamoto JYS, Soares MC, Paraguay IBB, Casagrande SCB, Lapa JDDS, Bezerra MER, Torezani GS, Holanda VM, Micheli GC, Barbosa ER, Cury RG. **Comparison of Two Methods of Deep Brain Stimulation Lead Reconstruction and Their Prediction Capacities.** Neuromodulation 2026 29(5):811-817 PubMed

14. Barlatey SL, Nowacki A. **Reply to "Metric Choice and Programming-Output Concordance in DBS Lead Reconstruction Robustness".** Stereotact Funct Neurosurg 2026 epub 1-2 PubMed Free Full Text

15. Bergeron D, Barthélemy D, Hadjinicolaou A, Bonizzato M, Martinez M, Dancause N, Weil AG. **Motor Recovery After a Hemispherectomy: Review of Mechanisms and the Potential of Neuromodulation to Enhance Motor Outcomes.** J Child Neurol 2026 41(6):892-910 PubMed Free Full Text

16. Bernardi K, Rong J, Northam WT, Kamińska M, Hasegawa H, Domínguez-Carral J, Vogt LM, Dijk JM, Beudel M, Chauvet-Piat E, Seng EC, Poulen G, Mahant N, Garone G, Pauni M, Rodríguez J,

Munoz-Chesta D, Jones HF, De la Casa-Fages B, Miranda-Herrero MC, Jennions E, Lim WK, Zea Vera A, Mohammad S, Schuurman R, van de Pol LA, Roubertie A, Ibrahim GM, Gorodetsky C, Thiel M, Koy A, Ortigoza-Escobar JD, Lin JP, Lumsden DE, Ebrahimi-Fakhari D, Yang K. **Outcomes of Bilateral Globus Pallidus Internus Deep Brain Stimulation in GNAO1-Related Disorder: An International Multicenter Experience.** Ann Neurol 2026 epub PubMed

17. Bharmauria V, Oya H, Bezchlibnyk Y, Shaheen N, Ghaderi A, Belkacemi YY, Johari K, Singh A, Green AL, Kawasaki H, Sarica C, Dalm B, Lozano AM, Howard MA, Flouty O. **High-Frequency Spinal Cord Stimulation Modifies Tibial Nerve-Stimulation-Evoked Cortical Theta-Gamma Coupling in Sheep Cortex.** Eur J Neurosci 2026 64(2):e70628 PubMed Free Full Text

18. Bieber D, Abdallah RT, Ab-Elsayed A, Burkey AR, Englot DJ, Gupta K, Munyon CN, Halpern CH, Miller KJ, Rosenow JM, Raslan AM, Slavin KV, Sweet JA, Sheth S, Tomycz N, Viswanathan A, Wu C, Raskin JS. **Development of an Educational Curriculum for the Surgical Implantation of DBS Systems.** Neuromodulation 2026 29(5):741-749 PubMed Free Full Text

19. Blazek F, Krahulik D, Nevrly M, Otruba P, Balazova K, Afifi ANM, Hrabalek L, Kanovsky P. **Six-Year Single Centre Experience with Frameless, Fiducial-Less Deep Brain Stimulation in Parkinsons Disease: Accuracy, Outcomes, and Clinical Feasibility.** Stereotact Funct Neurosurg 2026 epub 1-18 PubMed

20. Boone DL, Borges V, Ferraz HB. **Parkinson's disease across female reproductive stages: Clinical implications from menstruation to menopause.** Parkinsonism Relat Disord 2026 150:108420 PubMed Free Full Text

21. Brinkerhoff SA, Robinson F, Martin RC, Morales S, Gonzalez CL, Hurt CP, Wade M, Cutter G, Uswatte G, Walker HC, Del Bene VA. **Use of the PROMIS and Neuro-QoL to Evaluate Health-Related Quality of Life following Unilateral Subthalamic Deep Brain Stimulation for Parkinson's Disease.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

22. Buonocore A, Vermiglio G, Citro S, Cafaro C, De Luca C, Di Cecca A, Sepe G, Marcello L, Soricelli A, Cavaliere C, Cirillo G. **Neurobiological after-effects and clinical efficacy of transcranial magnetic stimulation (TMS) in Parkinson's disease: a systematic review.** Brain Struct Funct 2026 PubMed

23. Buxbaum Grice AS, Kopell BH, Laborc KF, Lund AN, Gonzalez Chong R, Spadaccia M, Ona G, Nadkarni G, Crary JF, Charney AW, Beckmann ND. **Lewy pathology largely absent in prefrontal cortices of Parkinson's disease patients undergoing deep brain stimulation.** NPJ Parkinsons Dis 2026 PubMed Free Full Text

24. Byun JW, Lee JM, Shin YB, Yoon JA, Kim SY. **Stepwise surgical management of spasticity and dystonia in severe pediatric cerebral palsy: a case report involving selective dorsal rhizotomy, intrathecal baclofen therapy, and deep brain stimulation.** Childs Nerv Syst 2026 PubMed

25. Cha H, Hong Y, Kim G, Lee H, Kim M, Park SH, Lee S, Chou N, Shin H. **Ultralight infrared-controlled wireless neuromodulation systems for freely behaving mice.** Microsyst Nanoeng 2026 PubMed Free Full Text

26. 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

27. Chen B. **Gamma entrainment as a functional target in deep brain stimulation.** Neural Regen Res 2026 21(7):2918-2919 PubMed Free Full Text

28. Cho CB. **Patient-Reported Feedback in Essential Tremor Deep Brain Stimulation: Distinguishing Perceived Comfort from Tremor Suppression.** Mov Disord 2026 41(8):2231-2232 PubMed Free Full Text

29. 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

30. Colucci F, Kaymak A, Antenucci P, Gozzi A, Elia AE, Cilia R, Leta V, Braccia A, Andreasi NG, Gaudiano G, Devigili G, Pirone F, Tosi M, Mazzoni A, Romito LM, Eleopra R, Pugliatti M, Sensi M. **STN-DBS and LCIG differentially affect long-term axial symptoms in Parkinson's disease.** NPJ Parkinsons Dis 2026 epub PubMed Free Full Text

31. Cury RG, Aquino C. **Teaching Deep Brain Stimulation to Walk.** Mov Disord 2026 epub PubMed

32. da Silva TM, Negreli MFLA, Cardoso FEC. **Effects of Deep Brain Stimulation and Botulinum Toxin to Manage Pisa Syndrome in Parkinson's Disease.** Mov Disord Clin Pract 2026 13(7):1612-1620 PubMed Free Full Text

33. Dabboucy B, Hazrati R, Langlois M, Prudhomme M. **Tremor Associated With Klinefelter Syndrome: Report of a Case Treated by Deep Brain Stimulation and Systematic Review of the Literature.** Neuromodulation 2026 29(5):721-730 PubMed Free Full Text

34. Dahill-Fuchel J, Allen JJB, Xu E, Nauvel T, Overton J, Rozell C, Riva-Posse P, Figee M, Lane RD, Mayberg H, Waters AC. **Subcallosal cingulate deep brain stimulation and heart rate variability in treatment-resistant depression: Evidence for person-specific autonomic phenotypes.** J Affect Disord 2026 405:121497 PubMed Free Full Text

35. Dalvi A, Eisenberg HM, Wu P, Zucker L, Chang WC, Sarva H, Fishman PS, Buch VP, Matarazzo M, Del Alamo M, Rodriguez-Oroz MC, González-Quarante LH, Sani S, Ghanouni P, Patel N, Pourfar M, Mogilner A, Obeso JA, Kaplitt MG. **Safety and efficacy of staged, bilateral magnetic resonance-guided focused ultrasound pallidothalamic tractotomy for motor complications of Parkinson's disease: a prospective, multicentre, single-arm trial.** Lancet Neurol 2026 25(7):654-663 PubMed

36. de Lima AVCGC, Bocca LF, Rodrigues RB, Rodrigues TP, da Silva CC, Dos Santos ER, Centeno RS. **Pneumocephalus after deep brain stimulation in Parkinson's disease: The role of brain volume in brain shift.** Surg Neurol Int 2026 17:431 PubMed Free Full Text

37. De Santis T, Mogilner AY, Pourfar M. **Post-Hypoxic Myoclonus and Deep Brain Stimulation. Experience from a Small Patient Cohort and Literature Review Highlighting Variable Outcomes.** Tremor Other Hyperkinet Mov (N Y) 2026 16:43 PubMed Free Full Text

38. Domínguez-Carral J, Reinhard C, Yoo J, Soliani L, Cif L, Ortigoza-Escobar JD. **Caregivers' Perspectives and Decision-Making on Deep Brain Stimulation in GNAO1-Related Disorders.** Neuromodulation 2026 29(5):824-832 PubMed

39. Doshi PK. **Comment on: "Bilateral Deep Brain Stimulation of the Subthalamic Nucleus or Globus Pallidus Internus Improves Gait Impairment in Parkinson's Disease".** Mov Disord 2026 41(8):2227-2228 PubMed Free Full Text

40. Dufault S, Potvin S, Patry S. **Effectiveness of Deep Brain Stimulation for Treatment-Resistant OCD: Systematic Review of Anatomical Targets and Meta-Analysis of Randomized and Non-Randomized Studies.** Brain Sci 2026 PubMed Free Full Text

41. Dulski J, Slawek J. **Deep brain stimulation and sleep in Parkinson's disease: unresolved questions and a decade of missing research.** Parkinsonism Relat Disord 2026 148:108365 PubMed

42. 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

43. 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

44. Elangovan R, Randall S, Loveday M, Watts S, Murphy F, Lumsden DE. **Models of care for hypertonia in childhood: a scoping review.** Arch Dis Child 2026 111(8):729-734 PubMed

45. Faran M, Chae H, Pietramala DA, Nadeem S, Schmidt FA, Wilson E, Polyhronopoulos NE, Sandhu MK, Dong J, Sarai N, Vila-Rodriguez F, Honey CR, Lang S. **Location of Neurostimulation Affects Short-Term Emotional Wellbeing Outcomes in Parkinson's Disease Patients.** Stereotact Funct Neurosurg 2026 epub 1-12 PubMed

46. Fontaine D, Saleh C, Leplus A. **Deep brain stimulation for chronic pain: a narrative review.** Neurochirurgie 2026 72(4):101831 PubMed Free Full Text

47. Fujimoto SH, Fujimoto A, Elorette C, Seltzer A, Andraka E, Herbert K, Verma G, Janssen WGM, Fleysher L, Folloni D, Choi KS, Russ BE, Mayberg HS, Rudebeck PH. **Deep brain stimulation induces white matter remodeling and functional changes to brain-wide networks.** Nat Neurosci 2026 29(7):1722-1734 PubMed Free Full Text

48. Ghannad A, Burritt St Angelo MI, Strelko O, Runde A, Agarwal A, Corrales NA, Goldstein K, Cass DK, Germanwala AV, Anderson DE. **Bilateral deep brain stimulation for the treatment of body dysmorphic disorder and obsessive-compulsive disorder.** Surg Neurol Int 2026 17:408 PubMed Free Full Text

49. Ginjupally DR, Suman P, Kumar KL, Spandana N. **Same-day asleep deep brain stimulation with single-session lead and pulse generator implantation: a high-efficiency approach for movement disorders.** J Neurosurg 2026 epub 1-10 PubMed

50. Gonzaga Vieira RV, Lima CB, Levinthal IMF, Dos Santos ARL, Herculano MA, de Aguiar PHP. **Ventral tegmental area deep brain stimulation for trigeminal autonomic cephalalgias: a comprehensive literature review.** Pain Manag 2026 epub 1-10 PubMed

51. Grafton P, Spinelli R, Morris DR, Pilitsis JG. **Online Discourse of Deep Brain Stimulation for Movement Disorders: A Content Analysis of Reddit.** Neuromodulation 2026 29(5):833-842 PubMed

52. Guo Y, Liu W, Bu W, Wang R, Su D, Li H. **A preliminary analysis of the inflammatory protein landscape in the CSF of mid- to late-stage Parkinson's disease: associations with motor severity and subtypes.** BMC Neurol 2026 epub PubMed Free Full Text

53. Gélisse P, Crespel A, Chan-Seng E, Coubes P, Poulen G. **Deep brain stimulation of the anterior thalamic nucleus in Lennox-Gastaut syndrome with EEG changes during off-on stimulation.** Brain Stimul 2026 19(5):103162 PubMed Free Full Text

54. 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

55. Hamre T, Kutcher T, Hanish R, Soubra S, Bentley H, Mansourian K, Nitcheu G, Belavadi V, Chamarthi S, Jourahmad Z, Hasen M, Giridharan N, Heilbronner SR, Storch EA, Goodman WK, Provenza NR, Sheth SA. **Differential response to deep brain stimulation in harm-avoidant vs. disgust subtypes of obsessive-compulsive disorder.** medRxiv 2026 epub PubMed Free Full Text

56. Hariz M, Blomstedt P. **Hardware Sophistications in Subthalamic Nucleus Deep Brain Stimulation for Parkinson's Disease; Is the Juice Worth the Squeeze?.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

57. Haut MW, Vieira Ligo Teixeira C, Ranjan M, Carpenter J, Mehta RI, Worhunsky P, D'Haese PF, Arsiwala T, Everson K, Suffridge J, Keith C, Phelps HE, Ebbert M, Finomore V, Rezai A. **Neuromodulation in Alzheimer's disease: a review with illustrative pilot data using focused ultrasound.** Biol Psychiatry 2026 epub PubMed

58. He M, Usman L, Charkhkar H, Cao R. **Functional ultrasound imaging in preclinical brain stimulation: from multimodal readouts to closed-loop neuromodulation.** Front Neurosci 2026 20:1897417 PubMed Free Full Text

59. He Z, Ma J, Liu Y, Du Z. **Molecular Mechanisms of Foreign Body Responses to Neural Electrodes and Surface Biofunctionalization Strategies for Interface Modulation.** Int J Mol Sci 2026 PubMed Free Full Text

60. Heim B, Poewe W. **Unmet needs in the pharmacological management of motor symptoms in Parkinson's disease.** J Parkinsons Dis 2026 16(2_suppl):24-37 PubMed Free Full Text

61. Himes LM, Mayberg HS, Husain MM, Holtzheimer PE, Lozano AM, Kennedy SH, Gross RE, Kopell BH, Figee M, Slavin KV, Pilitsis JG, Neimat JS, Hamani C, Pouratian N, Giacobbe P, Mogilner AY, Ashkan K, Nanduri D, Cheeran BJ, Pathak YJ, Riva-Posse P. **Corrigendum to**

"Revisiting subcallosal cingulate deep brain stimulation for depression: Long-term safety and effectiveness outcomes from a pooled analysis of 172 implanted patients" [Brain Stimul 18 (2025) 1632-1640]. Brain Stimul 2026 19(4):103136 PubMed Free Full Text

62. Hon K, Warman P, Venkatraman V, Suarez AD, Kelly-Hendrick M, Teshome S, Dharmapurikar R, Haglund MM, Lad SP. **A Competency-Based Approach to Functional Neurosurgery Training: Insights From the Surgical Autonomy Program.** Neuromodulation 2026 29(5):750-761 PubMed

63. Horan J, Donlon E, Gill A, Moran R, Fearon C, Walsh RA, Moran C. **Acute and Chronic Local Field Potential Recordings in Dystonia-A Systematic Review.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

64. Hsu J, Reardon B, Blum DA, Lambert-Shemo EC, Kokones N, Dorn K, Rammo R, Nagel S, Baker KB, Machado A. **In Vitro Evaluation of Posterior Fossa Stereotactic Surgery Using Frameless Custom-Built 3-Dimensional Microplatform.** Oper Neurosurg 2026 31(1):129-137 PubMed

65. Hu G, Song C, Wu D, Niu X, Hao J, Liu L, Kang X, Jiang W. **Temporal Interference Stimulation of Centromedian-Parafascicular Complex in Disorders of Consciousness: A Pilot Study.** Ann Clin Transl Neurol 2026 epub PubMed Free Full Text

66. Huang J, Xie H, Jiang Y, Zhang Q, Xue T, Shan M, Zhuang Y, Qin G, Zheng Z, Liu D, Zhang H, Zhang H, Li S, Wang Y, Yang A, Meng F, Bai Y, Zhang J, Zhang H. **Comparison of Pallidal and Subthalamic Stimulation for Cranial Cervical Dystonia: A 4-Year Follow-up Study.** Neurosurgery 2026 99(1):94-106 PubMed

67. Hubers D, Doelkahar BS, Keulen BJ, Stam MJ, de Neeling MGJ, van Wijk BCM, Schuurman PR, de Bie RMA, Beudel M. **From detection to decision: handling artifacts in adaptive deep brain stimulation.** Brain Stimul 2026 19(5):103160 PubMed Free Full Text

68. Huh R, Jang I. **Accuracy and Outcomes of KYMERO Robot-Guided Deep Brain Stimulation for Dystonia : Retrospective Cohort Analysis.** J Korean Neurosurg Soc 2026 69(4):616-629 PubMed Free Full Text

69. Ineichen C, Callaghan F, Baumann-Vogel H, Büchele F, Tuura RO, Baumann CR, Schreiner SJ. **A transdiagnostic structural brain signature of Parkinsonian and Essential Tremor.** J Neural Transm (Vienna) 2026 133(7):1407-1419 PubMed Free Full Text

70. Iyengar TM, Wolfe CB, Pouratian N. **Delayed intracranial hemorrhage following deep brain stimulation for Parkinson's disease: illustrative case.** J Neurosurg Case Lessons 2026 PubMed Free Full Text

71. Jiltsova E, Hauffman A, Nyholm D. **Clinical Scales and Wearable Sensors in Patients with Essential Tremor Treated with Deep Brain Stimulation.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

72. Johnson KA, Provenza NR, Robinson Schwartz SE, Yu J, Merner AR, Neumann WJ, Sheth SA, Wong JK, Okun MS, Frankowski MM. **Deep brain stimulation clinical trials: a framework to accelerate recruitment, retention, and technology translation.** Front Hum Neurosci 2026 20:1851931 PubMed Free Full Text

73. Kariv S, Chilukuri S, Iordanou J, Pouratian N. **Technique and Accuracy of 3D Fluoroscopy-Confirmed Asleep Deep Brain Stimulator Implantation: A Case Series.** Oper Neurosurg 2026 31(1):103-109 PubMed

74. Kim JJ, Delmas S, Choi YJ, Wong JK, Okun MS, Yacoubi B, Christou EA. **Thalamic Neurostimulation and Effects on Movement Consolidation in Essential Tremor.** Neuromodulation 2026 29(5):731-740 PubMed

75. King HS, Blumenthal-Barby J, Levi BH, De Jesus S, Sarva H, Cabrera LY. **Clinicians' views on a patient decision aid for deep brain stimulation in Parkinson's disease.** Front Hum Neurosci 2026 20:1851826 PubMed Free Full Text

76. Krueger MT, Lee CW, Xu SS, Grover T, Akram H, Scott S, Birchall M, Zrinzo L, Honey CR. **Letter: Thalamic Deep Brain Stimulation for Spasmodic Dysphonia: A Phase I Prospective Randomized Double-Blind Crossover Trial.** Neurosurgery 2026 99(1):e9-e10 PubMed

77. Kuo CY, Singh R, Sharma S, Nguyen RD, Wong-Kisiel L, Starnes K, Gregg NM, Van Gompel J, Miller KJ, Worrell GA, Lundstrom BN. **Comparative Seizure Outcomes of Vagus Nerve Stimulation, Deep Brain Stimulation, and Their Combination in Lennox-Gastaut Syndrome.** Ann Neurol 2026 epub PubMed

78. Latypov TH, Berger A, Mohareb M, Mithani K, Breitbart S, Vogt LM, Dinger T, Meijer I, Weil AG, Fasano A, Gorodetsky C, Ibrahim GM. **The Brain-Age Gap in Pediatric Dystonia: Neuroanatomical Deviations Inform Deep Brain Stimulation Outcomes.** Mov Disord 2026 41(7):1871-1876 PubMed Free Full Text

79. Lauro PM, Palmer CF, Nambiar MM, Muller U, Qiu L, Halpern CH, Scangos KW. **Circuit-based neuromodulation for obsessive-compulsive disorder: a review of prior and emerging methods.** Front Psychiatry 2026 17:1828620 PubMed Free Full Text

80. Lee J. **Contemporary Perspectives on Neurobiology and Treatment of Tic Disorders: A Narrative Review.** J Korean Acad Child Adolesc Psychiatry 2026 37(3):127-134 PubMed Free Full Text

81. Leriche RB, Wozny TA, Saal J, Motzkin JC, Sellers KK, Starr PA, Chang EF, Shirvalkar P. **Human intracranial signal stability tracks anatomical accuracy after electrode reimplantation.** J Neural Eng 2026 PubMed Free Full Text

82. Levin-Carrion Y, Riestra JM, Campbell T, Titkov K, Gibson N, Riestra DB, Alabed ST, Meda S, Raghu A, Gad S, Brenner D, Pando A, Bempong P, Sherman JH, Levounis P, Gross RE. **Rewiring reward in addiction: a systematic review of human evidence for deep brain stimulation and lesion approaches in substance use disorders.** Acta Neurochir (Wien) 2026 epub PubMed Free Full Text

83. Li C, LeDoux A, Tam B, Chen T, Kim Y, Brenner M, Wang P. **Neuromodulation for psychological sequelae of traumatic brain injury.** Exp Neurol 2026 405:115933 PubMed

84. Li Q, Wang K, Li J, Wei P, Shan Y, Li J, Zhu J, Zheng Z, Niu C, Xiong C, Li W, Wu Q, Xiao Q, Cui G, Wang X, Guan Y, Luan G, Liu B, Dong H, Liang S, Li H, Xu W, Zhao G, Zhang Y. **Adaptive vs Conventional Deep Brain Stimulation of the Subthalamic Nucleus for Treatment of**

Parkinson's Disease: A Multicenter Retrospective Study. Neuromodulation 2026 29(5):802-810 PubMed

85. Li S, Xie F, Chen Y, Chen R, Zhang W, Wang D, Zhou G, Liao W. **DTI-ALPS index correlates with poor neuromodulation outcomes of bilateral STN-DBS in Parkinson's disease patients: A prospective cohort study.** Neuroimage 2026 338:122110 PubMed Free Full Text

86. Li Z, Cao T, Wang J, Zhu S, Jia Y, Wan K, Li C, Yang Y. **Advances in local field potential research in prolonged disorders of consciousness: a narrative review.** Chin Neurosurg J 2026 PubMed Free Full Text

87. Lim SY, Kumar H, Luo W, Carr J, Aldaajani Z, Shambetova C, Jagota P, Susatia F, Zhunusova E, Cen Z, Choudhury S, Bohlega S, Cardoso F. **Breaking barriers and fighting inequality in Parkinson's disease care: Personal reflections of movement disorders clinicians.** J Parkinsons Dis 2026 epub 1877718X261468201 PubMed Free Full Text

88. Lima CB, Hamamoto LG, Franceschini PR, Pires de Aguiar PH. **Medial Geniculate Body Deep Brain Stimulation for Refractory Tinnitus: Neurophysiological Rationale and Translational Neuromodulation Perspectives.** Neuromodulation 2026 epub PubMed

89. Lin A, Grant G, Harward S, Agashe S, Jasien JM, Boggs A, Mikati MA. **Deep Brain Stimulation for Dystonia and Epilepsy in Alternating Hemiplegia of Childhood.** Mov Disord 2026 41(7):1899-1901 PubMed Free Full Text

90. Liu J, Zhang Y, Chen S, Xu B, Huang Z, Zhou L, Zheng X. **Case Report: Deep brain stimulation in SYNJ1-related early-onset parkinsonism.** Front Med (Lausanne) 2026 13:1895449 PubMed Free Full Text

91. Liu T, Yao J, Abdi-Sargezeh B, Sharma A, Lasbareilles C, Ho RTL, Cheung JTS, Denison T, Tan H, Neumann WJ, Zhu MM, Liu S, Starr PA, Little S, Oswal A. **Device-embedded accelerometry complements neural signals for tracking parkinsonian motor states.** bioRxiv 2026 epub PubMed Free Full Text

92. Liu X, Shu K, Jiao L, Geng Y, Wang M, Kang H. **Deep brain stimulation of the nucleus basalis of Meynert in neurodegenerative diseases with cognitive impairment: An update on evidence and mechanisms.** Neural Regen Res 2026 21(7):2889-2898 PubMed Free Full Text

93. Lu D, Zhao M, Yin F. **Charging failure due to pulse generator rotation after deep brain stimulation: a case report.** Oxf Med Case Reports 2026 2026(7):omag137 PubMed Free Full Text

94. Lubin NJ, Robertson J, Janssen M, Mofakham S, Bellber CS, Khan SU, Mikell CB. **Autologous Fat Grafting to Prevent Erosion and Pain Over Neuromodulation Hardware: Technical Case Series.** Neurosurg Pract 2026 7(4):e000267 PubMed Free Full Text

95. Luu CP, Perrault JL, Goud A, Fotso Kamga L, Ranum JN, Yuon Y, Buyan-Dent L, Suminski AJ, Lake WB. **Rescue deep brain stimulation for recurrent essential tremor after ventral intermediate nucleus thalamotomy: illustrative cases.** J Neurosurg Case Lessons 2026 PubMed Free Full Text

96. Ma T, Zhou M, Lin S, Wang T, Huang P, Li D, Li H, Wu Y. **Subthalamic Deep Brain Stimulation for Chorea-Acanthocytosis: A Single-Center Case Series.** Neuromodulation 2026 29(5):795-801 PubMed

97. Majumdar S, Shee S, Choudhury S, Ganguly J, Basu P, Pandita N, Mukherjee S, Singh N, Kumar H. **Subjective Outcomes of Subthalamic Nucleus Deep Brain Stimulation in Parkinson's Disease: Insights from Patients and Caregivers.** Ann Indian Acad Neurol 2026 29(4):622-627 PubMed Free Full Text

98. Mani R, Kim T, Kim T, Uwakwe C, Zheng CY, Mofakham S, James E, Mikell C, Schwartz G. **Surgical Intervention for Posthyperglycemic Hemiballismus: Illustrative Case and Literature Review.** Mov Disord Clin Pract 2026 epub PubMed Free Full Text

99. Mantovani G, Dauleac C, Cavallo MA, Mertens P. **Global Research Trends in the Surgical Management of Spasticity: A Systematic Review and Bibliometric Analysis.** Stereotact Funct Neurosurg 2026 epub 1-13 PubMed Free Full Text

100. Mattioli P, Gurses AA, Simula S, Carron R, Bartolomei F, Lambert I, Pizzo F. **Effects of pulvinar and combined pulvinar/anterior thalamic deep-brain stimulation on sleep: preliminary results.** J Neurol 2026 PubMed

101. McIntyre CC, Frankemolle-Gilbert AM, Noecker AM. **Theoretical Evaluation of a Parietal Trajectory for Subthalamic Deep Brain Stimulation.** Stereotact Funct Neurosurg 2026 epub 1-17 PubMed Free Full Text

102. Metta V, Mridula R, Hosurkar G, Wadia P, Sankhla C, Agarwal P, Gurram S, Garg D, Mehta S, Kumar H, Ganguly J, Rajan R, Elavarasi A, Desai S, Sahoo LK, Shankar V, Joshi D, Krishnan S, Kola S, Barad N, Holla V, Chacko J, Kumar S, Kishore A, Kukkle PL, Alogolu R, Goyal V, Dhamija RK, Chaudhuri KR, Borgohain R. **Correction: Deep brain stimulation for Parkinson's disease in India: an expert consensus on availability, affordability, and eligibility by the Parkinson's research alliance India (PRAI).** J Neural Transm (Vienna) 2026 133(7):1167-1168 PubMed Free Full Text

103. Metta V, Mridula R, Hosurkar G, Wadia P, Sankhla C, Agarwal P, Gurram S, Garg D, Mehta S, Kumar H, Ganguly J, Rajan R, Elavarasi A, Desai S, Sahoo LK, Shankar V, Joshi D, Krishnan S, Kola S, Barad N, Holla V, Chacko J, Kumar S, Kishore A, Kukkle PL, Alogolu R, Goyal V, Dhamija KR, Chaudhuri KR, Borgohain R. **Deep brain stimulation for Parkinson's disease in India: an expert consensus on availability, affordability, and eligibility by the Parkinson's research alliance India (PRAI).** J Neural Transm (Vienna) 2026 133(7):1151-1165 PubMed

104. Miller Koop M, Waltz C, Bazyk A, Lapin B, Li Y, Houltham S, Blum D, Liao J, Phillips O, Siddiqui J, Machado AG, Alberts JL. **A Self-Administered, Digitized Approach to Quantifying the Cardinal Motor Symptoms in Parkinson's Disease.** Sensors (Basel) 2026 PubMed Free Full Text

105. Mirabella G, Borboni A, Guerreschi M, Suppa A, Amici C. **Is neurofeedback A reliable therapy for managing Parkinson's Disease?.** Clin Neurophysiol 2026 187:2111890 PubMed Free Full Text

106. Mithani K, Dinger TF, Gorodetsky C, Ibrahim GM. **Deep brain stimulation in pediatric drug-resistant epilepsy: Implications for the developing connectome.** Neurotherapeutics 2026 23(4):e00968 PubMed Free Full Text

107. Molpeceres-Sierra E, Bouali-Benazzouz R, Fossat P, Benazzouz A. **Beyond motor control: The subthalamic nucleus as a central hub for pain in Parkinson's disease.** Neurosci Biobehav Rev 2026 186:106691 PubMed Free Full Text

108. 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

109. Muller M, Rouleau EAMY, van der Gaag S, Zutt R, Hoffmann CFE, van der Gaag NA, van Essen TA, Schouten AC, Contarino MF. **Decoding Finely Tuned Gamma Oscillations in Chronic Deep Brain Stimulation for Parkinson's Disease.** Mov Disord 2026 epub PubMed Free Full Text

110. Myers DC, Love TM, Fudge JL. **Cortical and Thalamic Afferent Connectomes Distinguish ACC Subregions of the Macaque Brain.** J Neurosci 2026 PubMed Free Full Text

111. Nagao KJ, Perera T, Petoe M, Lee WL, Xu SS, Lawson K, Moorhead A, McDermott H, Bulluss K, Thevathasan W. **Automating Subthalamic Deep Brain Stimulation Programming with Evoked Resonant Neural Activity in Parkinson's Disease.** Mov Disord 2026 41(7):1847-1855 PubMed Free Full Text

112. Narayanan SN, Sundrani S, Vanleuven J, Hilvert AM, Baker CR, Chao A, Ye E, Hughes NC, Long I, Ball T, Hassell T, Englot DJ, Bick SK. **Postoperative outcomes in patients with dementia undergoing deep brain stimulation: A retrospective matched cohort study.** Clin Neurol Neurosurg 2026 270:109600 PubMed Free Full Text

113. Nasir A, Khan T, Anam, Asad M, Bakhtawar H, Bai Q. **Insights into neuropathic pain: From disease models to therapeutic interventions.** Neurosci Biobehav Rev 2026 189:106878 PubMed

114. Nencha U, Pupíková M, di Natale M, Maceira-Elvira P, Gajdoš M, Beanato E, Skarvelaki S, Jones R, Ericson I, Lamoš M, Nuti A, Windel F, Ondrácek D, Šimo A, Vojtková E, Špunarová K, Alvarez V, Simionescu O, Frisoni GB, Raffin E, Rektorová I, Hummel FC. **Multifocal Noninvasive Deep Brain Stimulation to Enhance Cognition in Mild Cognitive Impairment: A Crossover Trial.** JAMA Netw Open 2026 9(7):e2621756 PubMed Free Full Text

115. Nistal D, Edmonds B, Barrios-Anderson A, Boop S, Wang SE, Recker MJ, Ojemann JG, Novotny E, Buckley RT, Hauptman JS, Goldstein HE. **Thalamic neuromodulation for pediatric drug-resistant epilepsy: a case series evaluating deep brain stimulation and responsive neurostimulation.** J Neurosurg Pediatr 2026 epub 1-9 PubMed

116. O'Rourke CM, Selheimer RL, Halpern CH, Oathes DJ. **Next-Generation Neuromodulation for Anxiety: Circuit-Based and Personalized Approaches.** Curr Psychiatry Rep 2026 PubMed Free Full Text

117. Olatunji BA, Subramaniyam NP, Siitama E, Mattila H, Lehtimäki K, Hyttinen J, Peltola J, Pursiainen S. **Enhanced source localization accuracy through bidirectional deep brain stimulation (DBS) electrodes: a comparative study with non-invasive EEG methods.** J Neural Eng 2026 PubMed Free Full Text

118. Pahwa R, Isaacson SH, Cella D, Thakkar S, Kandukuri PL, Yan CH, Kukreja P, Pan I, Lee J, Aldred J. **Long-term real-world effectiveness of carbidopa/levodopa enteral suspension after**

36 months of treatment initiation in advanced Parkinson's disease in the US: final results from the PROviDE study. Clin Park Relat Disord 2026 15:100488 PubMed Free Full Text

119. Panchawagh S, Santini V, Ranjan M, Bhagwat A, Krishna V, Silva N, Roque D, Damisah EC, Winston G, Kaplitt MG, Ungar L, Fay-Karmon T, Rezai AR, Zibly Z. **Focused ultrasound thalamotomy for essential tremor in octogenarians.** J Neurosurg 2026 145(1):27-35 PubMed

120. Parks B, Almeida L, Okun MS, Hilliard JD, Foote KD, Gunduz A. **Cortical vs Subcortical Recordings to Drive Closed-Loop Deep Brain Stimulation in Essential Tremor.** Neuromodulation 2026 29(5):787-794 PubMed

121. Patel RR, Stall M, Halum S, Anthony B, Parker N, Reese M, Kareken D, Dickinson S, Witt TC, Purger DA, Gupta K, Zauber SE. **Effects of Deep Brain Stimulation on Adductor Laryngeal Dystonia.** Laryngoscope 2026 136(7):3085-3096 PubMed Free Full Text

122. Patel Y, Zou R, Nino ACV, Menetrey A, Mueller MC, Pai V, Germann J, Lozano AM, Ibrahim GM, Gorodetsky C, Boutet A. **Magnetic resonance imaging use in pediatric deep brain stimulation: a systematic review and call for standardization.** Neuroradiology 2026 68(7):1861-1869 PubMed

123. Peressotti S, Garcia Garrido M, Dzialecka P, Hoi Law RM, Portillo-Lara R, Geary B, Faillace E, Merlo-Nikpay Aslie S, Wojewska M, Otero-Jimenez M, Genta M, Tan L, Duff K, Alegre-Abarrategui J, Green R, Grossmann N. **Temporal Interference Stimulation Enhances Neural Regeneration.** Adv Sci (Weinh) 2026 13(37):e24341 PubMed Free Full Text

124. Permezel FE, Alty JE, Harding IH, Ding C, Klassen BT, Thyagarajan D. **Sensory Function Improves With Subthalamic Nucleus Stimulation in Parkinson's: A Network Analysis.** Neuromodulation 2026 29(5):762-774 PubMed Free Full Text

125. Peschke S, Dong J, Kirschner A, Off J, Shaik J, Palleis C, Mehrkens JH, Kaufmann E, Scherer M, Koeglsperger T. **Reply to: Patient-Reported Feedback in Essential Tremor Deep Brain Stimulation: Distinguishing Perceived Comfort from Tremor Suppression.** Mov Disord 2026 41(8):2233-2234 PubMed Free Full Text

126. Piper RJ, Fleming JE, van Rheede JJ, Marks VS, Landin K, Costache D, Hasegawa H, Selway R, Richardson H, Seunarine KK, D'Arco F, Carter S, Arcaro C, Moeller F, Dehbi HM, Valentin A, Kaliakatsos M, Denison T, Tisdall MM. **Feasibility and optimization of a novel, cranially-mounted deep brain stimulation device for children with epilepsy - the CADET Pilot study.** Brain Stimul 2026 19(4):103149 PubMed Free Full Text

127. Qian B, Kim K, Taira T, Horisawa S. **Reversible hyperphagia and weight gain related to hypothalamic current spread during pallidothalamic tract deep brain stimulation.** Brain Stimul 2026 19(4):103148 PubMed Free Full Text

128. Qian H, Johnson GW, Hughes NC, Chao A, Long IC, Paulo DL, Zhao Z, Subramanian D, Taylor WD, Dhima K, Bick SK. **Movement Disorder Patients with Depression Have Altered Corticostriatal Alpha-Beta Power Response to Reward and Loss.** eNeuro 2026 PubMed Free Full Text

129. Qian P, Bo B, Li M, Li G, Liu Y, Liang Z, Sun H, Duan X. **Assessment of diverse deep brain stimulation targets uncovers a common neural pathway for instantaneous antidepressant**

effects in rats. Proc Natl Acad Sci U S A 2026 123(27):e2600016123 PubMed Free Full Text

130. Ramos MD, Manning J, Harris J, Adorno M, Marye R, Evangelista L. **The Clinical, Genetic, Psychosocial, and Care Landscape of X-Linked Dystonia-Parkinsonism in Filipino Men: A Scoping Review.** Am J Mens Health 2026 20(4):15579883261467125 PubMed Free Full Text

131. Ranak K, Anderson WS. **A computational framework for fitting biophysical basal-ganglia network models, applied to Parkinsonian beta oscillations.** J Neural Eng 2026 PubMed Free Full Text

132. Ranpariya M, Kaur G, Shallwani H, Ludwig A, Nazam I, Farooq O, Glover RL, Li P. **Long-term neuropsychiatric outcomes after neuromodulation in epilepsy patients: a systematic review and meta-analysis.** Acta Neurol Belg 2026 epub PubMed

133. Ranpariya M, Kaur G, Farooq O, Glover RL, Li P. **Neuromodulation and sudden unexpected death in epilepsy: A systematic review of SUDEP rates across VNS, DBS, and RNS therapies.** Seizure 2026 139:135-143 PubMed

134. Reimer J, Schumann F, Gruber D, Schneider GH, Krause T, Kühn AA, Krause P. **Region-based morphometry in Parkinson's disease patients with GBA mutation and its predictive role for cognition after STN-DBS.** Parkinsonism Relat Disord 2026 148:108355 PubMed Free Full Text

135. 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

136. Rigon L, Bove F, Izzo A, Montano N, De Biase A, D'Alessandris QG, Genovese D, Calarco A, Calabresi P, Piano C, Bentivoglio AR. **Long-lasting concordance between imaging-guided and clinical-based STN-DBS programming enhances motor and axial outcomes in Parkinson's disease: A 3-year single-center study.** J Parkinsons Dis 2026 16(5):1002-1011 PubMed Free Full Text

137. Robinson MJ, Chou KL, Schmitt TR, Patil PG, Malaga KA. **N-of-1 tissue activation modeling reveals regional subthalamic stimulation predicting verbal fluency decline in Parkinson disease.** J Neural Transm (Vienna) 2026 133(7):1471-1479 PubMed Free Full Text

138. Roth GC, Treven M, Brücke C, Lehrner J. **The influence of cholesterol on the 5-year all-cause mortality of Parkinson patients with or without deep brain stimulation.** Sci Prog 2026 109(3):368504261463435 PubMed Free Full Text

139. Rouleau EA, Falck DE, Hoffmann CF, Geraedts VJ, Zutt R, van der Gaag NA, Contarino MF. **Full recovery after severe bacterial encephalitis and brain abscess following deep brain stimulation surgery for Parkinson's disease.** J Parkinsons Dis 2026 epub 1877718X261470302 PubMed Free Full Text

140. Rudd G, Di Ieva A. **Cortical and Subcortical Stimulation for Pain: Network Mechanisms and Therapeutic Implications.** Neuroscientist 2026 epub 10738584261463492 PubMed

141. Ryan JS, McDermott TJ, Botzanowski B, Kubert JR, Betters S, Oluwagbohunmi A, Frandsen SB, Fulton TM, Williamson A, Treadway MT, Fani N. **Ventral striatum temporal interference brain stimulation enhances the reward-positivity event-related potential and reduces anxiety.** Neuroimage 2026 338:122101 PubMed Free Full Text

142. Sachithanandan S, Kesavapisharady K, Vijayaraghavan A, Puthenveedu DK, Krishnan S. **Acute Transient Blepharospasm Following Deep Brain Stimulation.** Ann Indian Acad Neurol 2026 29(4):663-664 PubMed Free Full Text

143. Sachse EM, Dastin-van Rijn EM, Bennek JP, Buccini MC, Mensinger ME, Iacobucci FA, Reimer AE, Widge AS. **Unilateral Striatal Deep Brain Stimulation Improves Cognitive Control.** J Neurosci 2026 PubMed Free Full Text

144. Salari M, Mittal S, Aldaajani Z, Khalil H, Etemadifar M, Gültekin M, Alfwaress F, Arain MI, Soleimani S. **Access to Parkinson's disease treatments in the Middle East: a multi-national survey of availability, affordability, and utilization patterns.** Clin Park Relat Disord 2026 15:100482 PubMed Free Full Text

145. Samadi F, Seddighfar M, Haghparast A. **Infralimbic deep brain stimulation during abstinence prevents drug- and stress-induced morphine reinstatement.** Prog Neuropsychopharmacol Biol Psychiatry 2026 148:111842 PubMed

146. Santyr B, Chow C, Germann J, Boutet A, Ajala A, Qiu J, Loh A, Alhashyan I, Abbass M, Elias G, Sarica C, Vetkas A, Yang A, Yeo D, Kalia S, Cohn M, Fasano A, Lozano AM. **fMRI during active GPi DBS uncovers target-specific networks.** NPJ Parkinsons Dis 2026 epub PubMed Free Full Text

147. Sasaki R, Kinoshita M, Sadikot AF, Nakagawa I. **A comprehensive review of deep brain stimulation for drug-resistant epilepsy.** Front Neurol 2026 17:1884342 PubMed Free Full Text

148. Schedlich-Teufer C, Brandt GA, van der Linden C, Jergas H, Baldermann JC, Stopic V, Fink GR, Visser-Vandewalle V, Dembek TA, Barbe MT, Petry-Schmelzer JN. **Stimulation settings in subthalamic nucleus deep brain stimulation for parkinson's disease - a retrospective single-center observational study.** Neurol Res Pract 2026 PubMed Free Full Text

149. Schmahl R, Cid-Rodríguez FX, Marquez-Franco R, Heiden P, Loução R, Visser-Vandewalle V, Andrade P. **Efficacy of intracranial surgical treatments for chronic pain: A systematic review and meta-analysis.** Brain Spine 2026 6:106157 PubMed Free Full Text

150. 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

151. Shen B, Han L, Xiao Y, Shen C, Le Z, Wu B, Su L, Yu W, Sun Y, Liu F, Yao H, Wu J, Wang J. **Distinct contributions of two subpopulations of subthalamic neurons to levodopa-induced dyskinesia.** Sci Adv 2026 12(27):eaed2912 PubMed Free Full Text

152. 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. **Convergent Network Localization of Brain Stimulation Targets for Trait Anxiety.** Am J Psychiatry 2026 epub appiajp20250198 PubMed

153. Simpson TG, He S, Wehmeyer L, Pogosyan A, Rodriguez Plazas F, Oswal A, Hart MG, Shah RS, Hasegawa H, Wiest C, Yassine S, Guo X, Loehrer PA, Merla A, Andrade P, Visser-Vandewalle V, Perera A, Adindu K, Raslan A, O'Keeffe A, Welter ML, Morgante F, Ashkan K, Pereira EA, Tan H. **Dopamine and the dynamics of subthalamic and leg muscle activities in parkinsonian stepping.** Brain 2026 149(7):2409-2421 PubMed Free Full Text

154. Sobstyl M, Skowrońska M, Stęplowska A, Glinka P, Grabarek BO. **Directional GPi deep brain stimulation for refractory status dystonicus in a child with PANK2-related PKAN.** Acta Neurol Belg 2026 epub PubMed

155. Sobstyl M, Glinka P, Karamon K, Gogol P, Grabarek BO. **Silent Twiddler syndrome despite dual-anchor fixation in deep brain stimulation: two case reports.** Front Neurosci 2026 20:1885621 PubMed Free Full Text

156. Sokal P, Jabłońska M, Broda M, Świtońska M. **Dentato-Rubro-Thalamic Tract-Targeted Cerebellar Deep Brain Stimulation for Post-Stroke Spasticity and Dystonia: preliminary experience.** Stereotact Funct Neurosurg 2026 epub 1-21 PubMed

157. Song IU, Kim B, Chung YA. **A novel approach to the management of levodopa-induced dyskinesia using deep transcranial magnetic stimulation: A case report.** J Int Med Res 2026 54(7):3000605261471271 PubMed Free Full Text

158. Song M, Xu Q, Li D, Xing X, Liang Y, Zhao L, Zhang S, Cui C, Qiu J, Wang Y. **Ultrasound-driven piezoelectric nanomaterial platform enables wireless neuromodulation for Parkinson's disease.** Acta Biomater 2026 220:225-244 PubMed

159. Sonkusare S, Zhang Y, Ding Q, Feng Y, Zhao Y, Wang L, Casero V, Ye K, Lai Y, Lv X, Huang P, Qiu X, Dai L, Zhang X, Wang Y, Hu K, Pan Y, Li D, Liu W, Zhan S, Sun B, Voon V. **Behavioural and clinical biomarkers of the human bed nucleus of stria terminalis from direct neural recordings.** Brain 2026 149(7):2308-2322 PubMed Free Full Text

160. Souei Z, Mushhood Ur Rehman M, Akram H, Bloch J, Chabardes S, Fasano A, Hariz M, Krauss JK, Kühn AA, Limousin P, Lumsden DE, Moraud EM, Moro E, Reich MM, Zrinzo L, Vasques X, Cif L. **Artificial intelligence in deep brain stimulation for movement disorders: a systematic review and technology readiness assessment.** NPJ Digit Med 2026 epub PubMed Free Full Text

161. Stegmann KP, Suresh RE, Eckert T, Zobaer MS, Sowlat MM, Lehman RK, Revuelta GJ, Rowland NC. **Bilateral globus pallidus internus deep brain stimulation in medication-refractory dystonia secondary to infantile acute disseminated encephalomyelitis: illustrative case.** J Neurosurg Case Lessons 2026 PubMed Free Full Text

162. Stocchi F, Ceravolo R, Colosimo C, De Pandis MF, Modugno N, Pileri M, Tessitore A, Tinazzi M, Valzania F, Vitale C, Zangaglia R, Zappia M, Zibetti M, Antonini A. **Device aided therapies in Parkinson disease: an expert view on apomorphine.** Neurol Sci 2026 PubMed Free Full Text

163. Sulistyo A, Vogt LM, Algethami H, Cunningham J, Breitbart S, LeBlanc-Millar A, Fasano A, Ibrahim GM, Gorodetsky C. **Beyond the Globus Pallidus: A Systematic Review of Deep Brain**

Stimulation of Extrapallidal Targets for Pediatric Movement Disorders. Neuromodulation 2026 29(5):701-710 PubMed

164. Tang LW, Grigsby EM, Damiani A, Ho JC, Montanaro IM, Nouduri S, Ensel S, Trant S, Constantine T, Adams GM, Balason DV, Thomas TL, Zdrowak K, Ting J, Wittenberg GF, Franzese K, Mahon BZ, Fiez JA, Crammond DJ, Stipancic KL, Gonzalez-Martinez JA, Pirondini E. **Frequency-dependent effects of motor thalamus deep brain stimulation on speech and swallowing.** Nat Commun 2026 PubMed Free Full Text

165. Tenhoeve SA, Warsi NM, Ludwick AM, Glaser AC, Ruppert-Gomez MR, Stone SS, Votoupal M, Raskin JS, Doyle S, Kennedy B, Grenard D, Nistal D, Goldstein HE, Hauptman JS, Yoon G, Auguste KI, Gonda DD, Kashanian A, Rodgers SD, Coble J, Roland JL, Wittayanakorn N, Oluigbo CO, Das S, Thum JA, Gorodetsky C, Huynh M, Ibrahim GM, Bollo RJ. **Comparative multicenter evaluation of thalamic neuromodulation for treatment-resistant epilepsy in children.** Epilepsia 2026 epub PubMed

166. Tharp E, Mehanna R. **Is functional neurosurgery offering new hope for patients with hyperkinetic disorders? A mini-review of the current data on the use of DBS in hyperkinetic movement disorders.** Parkinsonism Relat Disord 2026 epub 108419 PubMed

167. Thevathasan A, Bulluss K, Kotschet K, Thevathasan W. **Returning to Marathons: Complete Restoration of Exercise with Runner's Dystonia After Globus Pallidus Internus Deep Brain Stimulation.** Mov Disord 2026 41(7):1902-1903 PubMed Free Full Text

168. Toth R, Ramón I García N, Gann MA, Pötter-Nerger M, Dozen R, Zeitzschel ML, Sharott A, Denison T, Schwab BC. **DeepPLL: Synchronization of non-invasive brain stimulation to deep brain stimulation.** Brain Stimul 2026 19(5):103159 PubMed Free Full Text

169. Ujihara M, Kawabori M, Yamazaki K, Nomura T, Eguchi K, Shirai S, Yabe I, Fujimura M. **Lead Reimplantation Utilizing the Pre-existing Lead Tract: A Case Report of Deep Brain Stimulation Lead Fracture Management.** NMC Case Rep J 2026 13:323-327 PubMed Free Full Text

170. Van Bogaert T, Peeters J, Boogers A, Vandenberghe W, De Vloo P, Nuttin B, Mc Laughlin M. **Evoked Resonant Neural Activity Reveals an Electrophysiologic Sweet Spot for Directional Subthalamic Nucleus Deep Brain Stimulation in Parkinson's Disease.** Neuromodulation 2026 29(5):775-786 PubMed Free Full Text

171. van der Linden C, Berger T, Dembek TA, Brandt GA, Strelow JN, Baldermann JC, Jergas H, Fink GR, Visser-Vandewalle V, Barbe MT, Petry-Schmelzer JN. **Corrigendum to tractography-guided versus clinical contact selection for deep brain stimulation in tremor - A prospective clinical trial.** Brain Stimul 2026 19(4):103150 PubMed Free Full Text

172. Vassiliadis P, Beanato E, Wessel MJ, Hummel FC. **Temporal interference stimulation for deep brain neuromodulation in humans.** Nat Biomed Eng 2026 10(7):1279-1294 PubMed Free Full Text

173. Wan X, Zhou Y, Huang P, Pan Y, Lin Z, Zeng Z, Tan Y, Zhang C, Shotbolt P, Li D. **Remote programming versus standard in-person programming following deep brain stimulation in**

patients with Parkinson's disease: a randomised controlled trial. EClinicalMedicine 2026 97:104070 PubMed Free Full Text

174. Wang H, Saeed S, Yan N, Wang D. **Beyond the role in motor function, entopeduncular nucleus, a critical neural hub in psychiatric disorders and sleep regulation.** Ann Med 2026 58(1):2682576 PubMed Free Full Text

175. Wang L, Zhao Y, Huang P, Ding Q, Wang T, Qiu X, Sun B, Pan Y, Li D, Voon V. **Subthalamic spatio-spectral-connectivity of psychiatric symptoms in Parkinson's disease.** Brain 2026 epub PubMed Free Full Text

176. Wang Q, Chen S, Muller J, Marchetta S, Anders E, Hu H, Nathan R, Wu C, Ural A, Wu Q. **Experimentally validated CEL finite element modeling of probe insertion and cavity formation in agar gel for DBS applications.** Comput Biol Med 2026 210:111732 PubMed

177. Wang W, Florian M, Ling C, Wei K, Jian J, Sun H, Yan L, Hu S, Bi B. **Temporal interference stimulation: A new paradigm for non-invasive deep brain stimulation-mechanistic insights, clinical advances, and future directions.** Transl Psychiatry 2026 epub PubMed Free Full Text

178. Wasilewski D, Hoffmann AM, Braun F, Bozkurt SG, Mertens R, Ferdowssian K, Truckenmüller P, Schneider GH, Faust K, Vajkoczy P, Prinz V, Kühn AA, Krause P, Spindler P. **The Risk of Bacterial Colonization Increases With Multiple Replacements of Implanted Pulse Generators for Deep Brain Stimulation.** Neuromodulation 2026 29(5):818-823 PubMed Free Full Text

179. Wong CK, Khurana N, Aliakbar RT, Poblete RA. **Neuromodulation to Promote Recovery Following Traumatic Brain Injury: A Narrative Review of Current Pharmacologic and Non-Pharmacologic Approaches.** Brain Sci 2026 PubMed Free Full Text

180. Xie S, Shi L, Xiong W, Fan Y, Chen L, Li X, Tong Y, Yang A, Meng F, Wang A, Zhang J, Han R. **Choice of Anesthesia in Microelectrode Recording-guided Deep Brain Stimulation Surgery for Parkinson's Disease (CHAMPION): A Noninferiority Randomized Controlled Trial.** Anesthesiology 2026 epub PubMed

181. Xu B, Li P, Ma A, Yuan Q, Jiang C. **Digital Twin Modeling of MR Gradient Coils for Accurate Gradient Safety Evaluation of Implantable Medical Devices.** IEEE Trans Biomed Eng 2026 epub PubMed

182. Yamashiro M, Hashimoto T, Miyamoto R, Miyagi Y, Tachibana K, Izumi Y, Okada K. **Marked Improvement after Globus Pallidus Deep Brain Stimulation in Dystonia-24 with a Novel ANO3 Variant: A Case Report and Literature Review.** J Mov Disord 2026 epub PubMed

183. Yang B, Bledsoe IO, Deutsch S, Mikhael D, Riemer S, Wiltshire A, Wang S, Reid L, Starr PA, Graham SJ, San Luciano M, Morrison MA. **Cerebellar Deep Brain Stimulation during fMRI: Initial Findings and Simulation-Informed Thermal Assessment.** AJNR Am J Neuroradiol 2026 47(7):1933-1939 PubMed Free Full Text

184. 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

185. Yeche M, Collomb-Clerc A, Lehongre K, Bourilhon J, Mullié Y, George N, Grabli D, Tan H, Tempier N, Romanato M, Olivier C, Belaid H, Lau B, Karachi C, Welter ML. **Distinct roles of the human cuneiform and pedunculopontine nuclei in gait and freezing of gait.** Brain 2026 epub PubMed

186. Zach RV, Kelbert J, Bina RW, Vajjala V, Murthy G. **Sequential deep brain stimulation of anterior and centromedian nuclei in juvenile myoclonic epilepsy: illustrative case.** J Neurosurg Case Lessons 2026 PubMed Free Full Text

187. Zaghlula N, Kinsman K, Phillips O, Hong J. **Deep brain stimulation battery longevity: a cohort study comparing impact of anaesthesia modality and anatomic target.** BMJ Neurol Open 2026 8(2):e001632 PubMed Free Full Text

188. Zaidan SK, Ghaith HS, Abdelkader K, Lopez Ramos CG, Shafie B, Zook ZA, Cahill J, Gendreau J, Nugent JG, Greisman JD, Abaricia JO, Yamamoto EA, Collins KL, Raslan AM. **Invasive Neuromodulation of Drug-Resistant Epilepsy in Pediatric Populations: A Comprehensive Systematic Review and Meta-Analysis.** Neuromodulation 2026 epub PubMed

189. Zaidi T, Marturano F, Sanpitak P, Ullah S, Bhusal B, Tummala A, Bonmassar G, Golestanirad L. **A Novel Lead Construct to Reduce MRI-Induced RF Heating: Construction, In Vitro Validation, and In Vivo Predictions.** IEEE Trans Biomed Eng 2026 epub PubMed

190. Zang D, Hasuike K, Qi Z, Yu Y, Gui P. **Deep Brain Stimulation for Disorders of Consciousness: From Mesocircuit Mechanisms to Circuit-Guided Precision Neuromodulation.** Neurosci Bull 2026 42(9):2057-2075 PubMed

191. Zeng Q, Fei X, Zhou Q, Li W, Wang J, Gao Y, Hu Y. **Research waste of randomized controlled trials related to deep brain stimulation: a cross-sectional analysis.** Front Aging Neurosci 2026 18:1818434 PubMed Free Full Text

192. Zeng Z, Lin Z, Huang P, Pan Y, Zhang C, Sun B, Li D. **Effect of high, low, and asymmetric frequency stimulation of the subthalamic nucleus in Parkinson's disease.** Brain Stimul 2026 19(4):103121 PubMed Free Full Text

193. Zhang S, Huang QR, Li D, He W, Zhang Z, Huang Z, Chen S, Hou ST. **Therapeutic hypothermia via hypothalamic neuromodulation: A new approach for stroke brain protection.** J Cereb Blood Flow Metab 2026 epub 271678X261468884 PubMed Free Full Text

194. Zhang W, Wu X, Tang C, Sang W, Ye Y, Gan H, Chen T, Yuan TF, Zhai R, Jiang H, Xiong ZQ, Zhao M. **State-Dependent Modulation of a Theta-Responsive Subnetwork by High-Frequency Stimulation of the Ventral Striatum.** Neurosci Bull 2026 epub PubMed

195. 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

196. Zhou L, Saw YL, Aquili L, Kocabicak E, Temel Y, Zhang Y, Lu JT, Kalueff A, Lu Z, Tang X, Lim LW. **Deep brain stimulation and neuroimmune mechanisms in major depressive disorder.** Prog Neuropsychopharmacol Biol Psychiatry 2026 149:111851 PubMed

197. Zhu Y, Zhang H, Zhang Z, Song G, Fu J, Wang H. **The role of ultrasound in addressing neurodegenerative diseases: A review of mechanisms, applications, and challenges.** Neuroscience 2026 606:126-137 PubMed

198. Ziechmann R, Hines K, Matias C, Sharan A, Wu C. **Surgical Technique for Repositioning Deep Brain Stimulation Electrodes.** Oper Neurosurg 2026 31(1):28-35 PubMed

199. Zvarova P, van der Linden C, Li N, Butenko K, Berger T, Meyer GM, Sahin IA, Goede LL, Bahners BH, Hollunder B, Dembek TA, Pines AR, Reich M, Volkmann J, Odekerken VJJ, de Bie RMA, Xu X, Ling Z, Yao C, Kühn AA, Soekadar SR, Ritter K, Barbe MT, Visser-Vandewalle V, Fox MD, Petry-Schmelzer JN, Rajamani N, Horn A. **Multimodal Image Guidance in Subthalamic Deep Brain Stimulation for Parkinson's Disease.** Ann Neurol 2026 100(1):22-35 PubMed Free Full Text

200. [No authors listed]. **Mapping deep brain stimulation-modulated circuits via precision neuroimaging.** Nat Neurosci 2026 29(7):1532-1533 PubMed

201. Çavdar S, Altınöz D, Özkan M, Erkan E, Güzel A, Güneş YC, Algın O. **The Anatomical Connections of Nucleus Accumbens with Brainstem and Cerebellum in the Rat and Human Subjects.** Cerebellum 2026 PubMed

SPINAL CORD STIMULATION · 4,024 citations

1. Alpaugh EE, Vaidya EA, Kilgore JS, Provenzano DA. **Incidence and etiology of impediments to spinal cord stimulator trial progression.** Interv Pain Med 2026 5(3):100803 PubMed Free Full Text

2. Bergeron D, Barthélemy D, Hadjinicolaou A, Bonizzato M, Martinez M, Dancause N, Weil AG. **Motor Recovery After a Hemispherectomy: Review of Mechanisms and the Potential of Neuromodulation to Enhance Motor Outcomes.** J Child Neurol 2026 41(6):892-910 PubMed Free Full Text

3. Beucler N, Tournebise H, Fawaz R, Fontaine D, Desse N. **Spinal Cord Stimulation for Painful Neuropathic Cauda Equina Syndrome Following Ballistic Penetrating Lumbar Spine Injury: Proof-of-Concept Case.** Mil Med 2026 191(7-8):e1756-e1759 PubMed

4. Bharmauria V, Oya H, Bezchlibnyk Y, Shaheen N, Ghaderi A, Belkacemi YY, Johari K, Singh A, Green AL, Kawasaki H, Sarica C, Dalm B, Lozano AM, Howard MA, Flouty O. **High-Frequency Spinal Cord Stimulation Modifies Tibial Nerve-Stimulation-Evoked Cortical Theta-Gamma Coupling in Sheep Cortex.** Eur J Neurosci 2026 64(2):e70628 PubMed Free Full Text

5. Borda L, Verma N, Sorensen E, Carranza E, de Freitas R, Ensel S, Boos A, Gerszten PC, Fields DP, Wittenberg GF, Fisher LE, Pirondini E, Capogrosso M, Weber DJ. **Spinal cord stimulation modulates post-synaptic inhibition to improve arm neuromotor control after chronic stroke.** Cell Rep Med 2026 7(8):102925 PubMed Free Full Text

6. Brenner S, Schilling A, Krauss P, Ratliff M, Kinfe T. **Molecular Inflammatory Characteristics of Patients With Chronic Pain Under Burst Spinal Cord Stimulation: An Exploratory Study.**

Neuromodulation 2026 epub PubMed Free Full Text

7. Brito R, Lima FA, Ribeiro AC, Fabrício JV, Melo D, Guerra S, Sacchi M, Barreto G, Baltar A, Tanaka C, Monte-Silva K. **Brief protocol to improve ataxia symptoms via cerebello-spinal direct current stimulation during gait training.** Clin Neurophysiol 2026 187:2111882 PubMed

8. 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. **Corrigendum to "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 98:104094 PubMed Free Full Text

9. Chandrasekaran S, Wandelt SK, Jangam A, Elias Z, Ibroci E, Maffei C, Rosenthal IA, Ramdeo R, Kim JW, Xu J, Glasser MF, Neuwirth A, Goldstein TA, Crone NE, Fifer MS, Tostaeva G, Bickel S, Griffin D, Funaro M, Carras NG, Pruitt R, Ben-Shalom N, Stein AB, Mehta AD, Bouton CE. **A neuroprosthesis for restoring hand movement and sensation in a person with complete tetraplegia.** Nat Med 2026 32(7):2591-2601 PubMed Free Full Text

10. Chhabra HS, Kalidindi KKV, Garg N, Sharma A, Chhibber B, Kumar H, Vishwakarma G, Gupta M, Bhat MR. **Spinal epidural electrical stimulation for the recovery of motor function in lower limbs after spinal cord injury: A pilot study.** J Spinal Cord Med 2026 49(4):692-703 PubMed Free Full Text

11. Christie B, Wang S, Ledbetter H, Diaz L, Nguyen H, Forrest GF, Torgerson N, Angeli CA, Johnson EC, Harkema SJ, Tenore FV. **Automated epidural spinal cord stimulation for cardiovascular regulation in spinal cord injury: from optimization to real-time implementation.** medRxiv 2026 epub PubMed Free Full Text

12. Chugg C, Bowden J, Anderson B. **Spinal cord stimulation for atypical anterior chest wall complex regional pain syndrome: illustrative case.** J Neurosurg Case Lessons 2026 PubMed Free Full Text

13. Darie R, Parker SR, Calvert JS, Tiwari E, Abdelrahman N, Syed S, Shaaya E, Fridley JS, Merlo MW, Halpern I, Borton DA. **A modular, high-bandwidth, bidirectional implantable device for neural interrogation.** J Neural Eng 2026 PubMed Free Full Text

14. de Freitas RM, Bhatia S, Sorensen E, Verma N, Carranza E, Ensel S, Borda L, Boos A, Goldsmith J, Fisher LE, Fields DP, Powell MP, Gordon S, Balzer J, Friedlander RM, Wittenberg GF, Gerszten PC, Krakauer JW, Pirondini E, Weber DJ, Capogrosso M. **Spinal cord stimulation for upper limb motor function in people with chronic post-stroke hemiparesis: a feasibility trial.** Nat Med 2026 32(7):2579-2590 PubMed Free Full Text

15. Dickerson D, Lim K, Tourjé C, Naidu R, Cianni L, Kibler AB. **From behavioral signals to therapy management: a real-world pilot implementation of human-in-the-loop AI workflow in proactive patient care.** Front Digit Health 2026 8:1887889 PubMed Free Full Text

16. Fabregat-Cid G, Escrivá-Matoses N, De Andrés J. **From Association to Prediction: Translational Barriers in Pain Biomarker Research.** J Pers Med 2026 PubMed Free Full Text

17. Falowski S, DeRidder D. **BurstDR and multi-area Burst DR spinal cord stimulation for the treatment of chronic pain: "less is more".** Pain Manag 2026 16(7):721-735 PubMed Free Full Text

18. Franco MJ. **Modern Management of Complex Regional Pain Syndrome: A Practical Evidence-Based Review for Hand and Upper Extremity Surgeons.** Cureus 2026 18(7):e113271 PubMed Free Full Text

19. Gawne F, Cashmore GR, Ichiyama RM, Astill SL. **A Systematic Review of Stimulation Parameters Used in Transcutaneous Spinal Cord Stimulation for Upper Body Rehabilitation in People with Cervical Spinal Cord Injury.** Neuromodulation 2026 epub PubMed Free Full Text

20. González Garcés M, Cárdenas Montoya J, Concha Fernández V, Andrés Torres Torres M, Hernández Rincón EH. **Artificial intelligence for prediction of clinical response and therapeutic value in interventional pain management: a scoping review.** Front Digit Health 2026 8:1833918 PubMed Free Full Text

21. Gupta P, Sastri V, Sharobim A, Gang B, Davis J, Paul G, Farid SD. **Invasive Spinal Neuromodulation for Chronic Pain in Pediatric Patients: A Scoping Review.** Pain Pract 2026 26(6):e70180 PubMed

22. Harland TA, Johnson D, Dalfino J, Pilitsis JG, Field N. **Intradural Fibrosis Following Percutaneous Spinal Cord Stimulator Placement: A Case Report.** Pain Pract 2026 26(6):e70181 PubMed

23. Hon K, Warman P, Venkatraman V, Suarez AD, Kelly-Hendrick M, Teshome S, Dharmapurikar R, Haglund MM, Lad SP. **A Competency-Based Approach to Functional Neurosurgery Training: Insights From the Surgical Autonomy Program.** Neuromodulation 2026 29(5):750-761 PubMed

24. Huang HL, Chen YC, Wang PK, Wu MY, Yan LC, Wu CC, Lin SZ, Tsai ST. **Long-term functional recovery and immediate neuromuscular facilitation following epidural spinal cord stimulation in chronic spinal cord injury: a pilot cohort study.** Front Neurol 2026 17:1881610 PubMed Free Full Text

25. Hurley RW, Patel JS, Bintrim DJ, Oliver JB, Miranda A, Rahmah T, Hamsher CP. **Dermabond Versus Suture Fixation for Spinal Cord Stimulator Trial Lead Anchoring: A Randomized Within-Patient Controlled Trial.** Pain Med 2026 epub PubMed Free Full Text

26. Jia Y, Wang J, Zhang T, Zhu S, Wang N, He Q, Cao T, Chai X, Zhai Y, Yang Y. **Spinal cord stimulation for concurrent improvement of consciousness and spasticity following severe traumatic brain injury: a case study.** Front Neurosci 2026 20:1866882 PubMed Free Full Text

27. Jin H, Cowman AW, Singh R, Habib G, Gujral T, Heidari K, Lee WM, Ross NM, Shojaei S, Lubera V, Tratt M, Wu HH, Oh MY. **A Systematic Review of Gastrointestinal Changes Related to Spinal Cord Stimulation.** Neuromodulation 2026 epub PubMed

28. Jung B, Sharma V. **Unintended Gluteal Muscle Spasms Associated With Thoracic Spinal Cord Stimulation in the Absence of Electrode Migration.** Neuromodulation 2026 epub PubMed

29. Ke P, Wang L, Song Y, Xu W, Xu GH. **Temporary Spinal Cord Stimulation versus Dorsal Root Ganglion Pulsed Radiofrequency for Preventing Postherpetic Neuralgia: A Propensity-Score-Matched Real-World Study.** Neuromodulation 2026 epub PubMed

30. Keller A, Kumar PA, Bradfield X, Hemmerle D, Huie JR, Hinson HE, Saigal R. **Safety of transcutaneous electrical stimulation potentiating recovery in acute spinal cord injury syndromes: a trial protocol.** Front Neurosci 2026 20:1875365 PubMed Free Full Text

31. Lansbergen CS, Veenhuizen AW, Fronczek R, Huygen FJPM, de Vos CC. **High Cervical 10 kHz Spinal Cord Stimulation After Occipital Nerve Stimulation Failure in Medically Intractable Chronic Cluster Headache: A Retrospective Study.** Neuromodulation 2026 epub PubMed Free Full Text

32. Larson EM, Dalm BD, Townsend KL. **Neuromodulation therapies for diabetic neuropathy: mechanisms, efficacy, and impacts on nerve health: a narrative review.** Front Neurol 2026 17:1892683 PubMed Free Full Text

33. Li C, Dou X, Liu W, Liu C, Shi Q, Zhang Y, Li Y, Fan B, Mao P. **Short-term spinal cord stimulation vs. pulsed radiofrequency in acute/subacute herpes zoster pain.** Front Med (Lausanne) 2026 13:1859392 PubMed Free Full Text

34. Liu J, Wang Y, Chen X, Hou B, Lin J, Long D, Song W, Xie Y. **Transcutaneous spinal cord stimulation for motor function and functional independence in patients with spinal cord injury: a systematic review.** J Neuroeng Rehabil 2026 epub PubMed Free Full Text

35. Lubin NJ, Robertson J, Janssen M, Mofakham S, Bellber CS, Khan SU, Mikell CB. **Autologous Fat Grafting to Prevent Erosion and Pain Over Neuromodulation Hardware: Technical Case Series.** Neurosurg Pract 2026 7(4):e000267 PubMed Free Full Text

36. Luikku AJ, Martikainen A, Ikäheimo TM, Nissen M, von Und Zu Fraunberg M, Jyrkkänen HK, Huttunen J. **Mortality Outcomes After Spinal Cord Stimulation: A 10-Year Survival Analysis of 330 Patients With Chronic Neuropathic Pain.** Neurosurgery 2026 99(1):202-208 PubMed Free Full Text

37. Mangdow M, Khawaja A, Yang D, Tabatabaei A, Gao H, Eickmeyer S, Nudo R, Liu W. **Transcutaneous spinal cord stimulation for stroke rehabilitation: a scoping review.** Top Stroke Rehabil 2026 epub 1-17 PubMed

38. Mansour N, Keller A, Parr A, Saigal R. **Neuromodulation in Spinal Cord Injury: Clinical Review.** Neurosurg Clin N Am 2026 37(4):649-664 PubMed

39. Marzorati C, Pezzolato M, Didier F, Borgogni F, Fodor CI, Meneghin S, Guardamagna VA, Pravettoni G. **Psychological assessment in patients suffering from chronic pain treated with Spinal Cord Stimulation: A prospective observational study protocol.** PLoS One 2026 21(7):e0352398 PubMed Free Full Text

40. McDonald J, Zaidi M, Javed S. **Spinal Cord Stimulation With Integrated Pain Psychology for Pediatric Refractory Neuropathic Pain: A Case Report.** A A Pract 2026 20(7):e02244 PubMed

41. Mohabbati V, Sullivan R, Yu J, Georgius P, Brooker CD, Siorek M, Ditterline B, Friedman JK, Russo MA. **In-Clinic and At-Home Patient Experiences with Closed-Loop Spinal Cord Stimulation: 12-Month Outcomes from the Closed-Loop Australia Randomized Crossover Trial.** Pain Ther 2026 epub PubMed Free Full Text

42. Nasir A, Khan T, Anam, Asad M, Bakhtawar H, Bai Q. **Insights into neuropathic pain: From disease models to therapeutic interventions.** Neurosci Biobehav Rev 2026 189:106878 PubMed

43. Peene L, Al-Kaisy A, Van Zundert J, Yearwood T, Duarte R, Moens M, Kallewaard JW. **Spinal Cord Stimulation for Persistent Spinal Pain Syndrome Type 1 With Predominant Low Back Pain: A Systematic Review on Holistic Outcome Measurements.** Neuromodulation 2026 epub PubMed

44. Perper Y, Taub A, Perper J. **Combined bidirectional spinal cord stimulation for refractory neuropathic pelvic pain: a case report.** Front Pain Res (Lausanne) 2026 7:1864829 PubMed Free Full Text

45. Sanders J, Panda A, Harper L, Patel B, Sharpe R. **Breast MRI in Patients With Active Implanted Metallic Devices: How We Do It.** AJR Am J Roentgenol 2026 227(1):e2634661 PubMed

46. Saw M, Agababaeva R, Sabri MA, Russo M, Hunter C, Wahezi S, Poree L, Bikson M. **Long Term Pain Reduction and Explantation Rates of Spinal Cord Stimulation: A Systematic Review and Meta-Analysis.** Neuromodulation 2026 epub PubMed Free Full Text

47. Shamantseva N, Novikov A, Maldova M, Shalmiev I, Bystrova M, Krutikova N, Moshonkina T. **Short-term and long-term outcomes of transcutaneous spinal cord stimulation in SMA: findings from consecutive courses.** J Neural Eng 2026 PubMed

48. Shankar R, Chandran G. **Lower limb rehabilitation in chronic incomplete SCI: a randomized controlled trial protocol comparing combined TMS-tSCS neuromodulation vs. tSCS alone.** Front Neurosci 2026 20:1773917 PubMed Free Full Text

49. Stinson EG, Hubbard AJ, Kleinow JE, Kramer EA, Trzasko JD, Shu Y, Edmonson HA. **RF Noise Artifacts From a High Frequency Spinal Cord Stimulation System: A Retrospective Imaging Cohort With Illustrative Cases.** J Magn Reson Imaging 2026 epub PubMed

50. Tang F, Zhao F. **Postherpetic Neuralgia: Mechanisms, Risk Factors, and Stratified Management-A Narrative Review.** CNS Neurosci Ther 2026 32(7):e71002 PubMed Free Full Text

51. Williamson SD, Andersen MM, Orup Aaby A, Vestergaard MR, Ravn SL. **The Combined Use of Non-Invasive Neurostimulation with Interactive Digital Technologies in Spinal Cord Injury Rehabilitation: A Scoping Review.** J Rehabil Med 2026 58:jrm45747 PubMed Free Full Text

52. Wiśniewski J, Marcinkowska AB, Szczupak M. **Sarcopenia and related musculoskeletal phenotypes in patients considered for spinal cord stimulation: a scoping review.** Front Med (Lausanne) 2026 13:1867982 PubMed Free Full Text

53. Wiśniewski J, Szczupak M, Marcinkowska AB. **Towards Selective Trial Stimulation in Spinal Cord Stimulation: Clinical and Psychological Evidence for an Individualised Implantation**

Strategy. J Clin Med 2026 PubMed Free Full Text

54. Wiśniewski J, Szczupak M, Winklewski PJ, Marcinkowska AB. **From Pain Relief to Multidimensional Outcomes: A Structured Narrative Review of Success Language in a PubMed/MEDLINE Spinal Cord Stimulation Corpus.** J Clin Med 2026 PubMed Free Full Text

55. Yang Y, Chen L, Zhou H, Li X, Ni Y, Huang D, Han R, Huang Y. **Reconfiguration of brain network dynamics by paresthesia-based spinal cord stimulation in herpes zoster-associated neuralgia: evidence from EEG microstate analysis.** Neuroimage 2026 339:122154 PubMed Free Full Text

56. Yuan R, Jiang Y, Hu H, Liu P, Deng Z, Bu Y. **Impacts of Pain Characteristics on the Outcomes of Short-Term Spinal Cord Stimulation for the Treatment of Post-Herpetic Neuralgia: A Prospective Self-Controlled Study.** J Pain Res 2026 19:612963 PubMed Free Full Text

57. Zhang G, Li Z, Yao X, Ding M, Liu X. **Observed changes in clinical proxy measures of airway protection after cervical epidural spinal cord stimulation in neurological disorders: a preliminary retrospective case series.** Front Neurol 2026 17:1875581 PubMed Free Full Text

58. Zhao W, He L, Yang L. **Comparative Efficacy of Short-Term Spinal Cord Stimulation for Subacute Zoster-Associated Pain: A Three-Group Propensity Score-Matched Analysis.** Pain Ther 2026 epub PubMed

59. Zhong J, He H, Zhao Y, Wang Y, Cai Z. **Comparative efficacy and safety of high-frequency, low-frequency, and burst spinal cord stimulation for painful diabetic neuropathy.** Neurosurg Rev 2026 PubMed

SCS META-ANALYSES · 97 citations

1. Gawne F, Cashmore GR, Ichiyama RM, Astill SL. **A Systematic Review of Stimulation Parameters Used in Transcutaneous Spinal Cord Stimulation for Upper Body Rehabilitation in People with Cervical Spinal Cord Injury.** Neuromodulation 2026 epub PubMed Free Full Text

2. González Garcés M, Cárdenas Montoya J, Concha Fernández V, Andrés Torres Torres M, Hernández Rincón EH. **Artificial intelligence for prediction of clinical response and therapeutic value in interventional pain management: a scoping review.** Front Digit Health 2026 8:1833918 PubMed Free Full Text

3. Jin H, Cowman AW, Singh R, Habib G, Gujral T, Heidari K, Lee WM, Ross NM, Shojaei S, Lubera V, Tratt M, Wu HH, Oh MY. **A Systematic Review of Gastrointestinal Changes Related to Spinal Cord Stimulation.** Neuromodulation 2026 epub PubMed

4. Liu J, Wang Y, Chen X, Hou B, Lin J, Long D, Song W, Xie Y. **Transcutaneous spinal cord stimulation for motor function and functional independence in patients with spinal cord injury: a systematic review.** J Neuroeng Rehabil 2026 epub PubMed Free Full Text

5. Peene L, Al-Kaisy A, Van Zundert J, Yearwood T, Duarte R, Moens M, Kallewaard JW. **Spinal Cord Stimulation for Persistent Spinal Pain Syndrome Type 1 With Predominant Low Back**

Pain: A Systematic Review on Holistic Outcome Measurements. Neuromodulation 2026 epub PubMed

6. Saw M, Agababaeva R, Sabri MA, Russo M, Hunter C, Wahezi S, Poree L, Bikson M. **Long Term Pain Reduction and Explantation Rates of Spinal Cord Stimulation: A Systematic Review and Meta-Analysis.** Neuromodulation 2026 epub PubMed Free Full Text
7. Wiśniewski J, Marcinkowska AB, Szczupak M. **Sarcopenia and related musculoskeletal phenotypes in patients considered for spinal cord stimulation: a scoping review.** Front Med (Lausanne) 2026 13:1867982 PubMed Free Full Text
8. Zhong J, He H, Zhao Y, Wang Y, Cai Z. **Comparative efficacy and safety of high-frequency, low-frequency, and burst spinal cord stimulation for painful diabetic neuropathy.** Neurosurg Rev 2026 PubMed

DORSAL ROOT GANGLION STIMULATION · 344 citations

1. Cascella M, De Simone M, Vittori A, Fasolino S, Iaconetta G. **An overview of current and emerging strategies for phantom limb pain.** Expert Rev Neurother 2026 26(9):895-905 PubMed Free Full Text
2. Franco MJ. **Modern Management of Complex Regional Pain Syndrome: A Practical Evidence-Based Review for Hand and Upper Extremity Surgeons.** Cureus 2026 18(7):e113271 PubMed Free Full Text
3. Gupta P, Sastri V, Sharobim A, Gang B, Davis J, Paul G, Farid SD. **Invasive Spinal Neuromodulation for Chronic Pain in Pediatric Patients: A Scoping Review.** Pain Pract 2026 26(6):e70180 PubMed
4. Larson EM, Dalm BD, Townsend KL. **Neuromodulation therapies for diabetic neuropathy: mechanisms, efficacy, and impacts on nerve health: a narrative review.** Front Neurol 2026 17:1892683 PubMed Free Full Text
5. Tabatabaei P, Eriksson M, Awad A, Vänman J. **Long-Term Effectiveness and Safety of Dorsal Root Ganglion Stimulation for Persistent Spinal Pain Syndrome: Results From an Expanded Prospective Registry.** Pain Pract 2026 26(6):e70183 PubMed Free Full Text

PERIPHERAL NERVE STIMULATION · 1,184 citations

1. Bharmauria V, Oya H, Bezchlibnyk Y, Shaheen N, Ghaderi A, Belkacemi YY, Johari K, Singh A, Green AL, Kawasaki H, Sarica C, Dalm B, Lozano AM, Howard MA, Flouty O. **High-Frequency Spinal Cord Stimulation Modifies Tibial Nerve-Stimulation-Evoked Cortical Theta-Gamma Coupling in Sheep Cortex.** Eur J Neurosci 2026 64(2):e70628 PubMed Free Full Text
2. Blondeau A, Cornu JN, Mazeaud C, Peyronnet B. **Transcutaneous tibial neuromodulation, is the future of neuromodulation here?.** World J Urol 2026 PubMed

3. Cheng F, Sun Y, Zhou Y, Wang D, Zhang Y, Wang P, Song G, Wang J. **Early trajectories and re-evaluation windows after cessation of home-based transcutaneous tibial nerve stimulation in children with overactive bladder: A prospective cohort study.** J Pediatr Urol 2026 22(6):106191 PubMed

4. Chiang MC, Smith MR, Karri J, Hao D. **Longitudinal outcomes following temporary 60-day percutaneous peripheral nerve stimulation for chronic pain: a retrospective analysis.** Reg Anesth Pain Med 2026 epub PubMed

5. Crosby K, Encarnacion JA, Aboujaoude A, Channagiri V, Bawany MH. **Temporary Percutaneous Lateral Femoral Cutaneous Nerve Stimulation for Surgically Refractory Meralgia Paresthetica: A Case Report.** Pain Med Case Rep 2026 10(5):429-433 PubMed

6. D'Alessandro Barbosa MV, Matheus LBG, Garcia PA, Bradaschia JS, da Silva ML, Pereira ECL, Alves AT. **Correction: Randomized trial of transcutaneous tibial nerve stimulation to treat overactive bladder in older women.** PLoS One 2026 21(7):e0353194 PubMed Free Full Text

7. Di Domenico H, Mougin L, Hintzy F, Hayes M, Rupp T. **Blood flow restriction induces similar peripheral stress but greater central drive impairments than systemic hypoxia during repeated cycling sprints.** Eur J Appl Physiol 2026 126(7):4187-4203 PubMed

8. Gogoi R, Bogdady M, Mahmood S, Lawandy M, Sperber K. **Novel Use of Temporary Percutaneous Peripheral Nerve Stimulation for Middle Cluneal Neuralgia: A Case Report.** Pain Med Case Rep 2026 10(5):409-412 PubMed

9. Huber RL, Rattenbacher D, Guerin B, Hong H, Pizzuti A, Gulban OF, Lo TW, Mareyam A, Droppa K, Yao J, Analoro C, Wighton P, Feinberg D, Wald LL, Stirnberg R. **Peripheral Nerve Stimulation Optimized Pulses for EPI (POPE) allows high-resolution fMRI.** bioRxiv 2026 epub PubMed Free Full Text

10. Jin L, Shang D, Deng H, Li C, Wang Z, Li H, Liao L, Guo Y, Li X. **Optimizing Percutaneous Tibial Nerve Stimulation Intensity for Overactive Bladder Using a Motion Capture System.** Neuromodulation 2026 epub PubMed

11. Lansbergen CS, Veenhuizen AW, Fronczek R, Huygen FJPM, de Vos CC. **High Cervical 10 kHz Spinal Cord Stimulation After Occipital Nerve Stimulation Failure in Medically Intractable Chronic Cluster Headache: A Retrospective Study.** Neuromodulation 2026 epub PubMed Free Full Text

12. Larson EM, Dalm BD, Townsend KL. **Neuromodulation therapies for diabetic neuropathy: mechanisms, efficacy, and impacts on nerve health: a narrative review.** Front Neurol 2026 17:1892683 PubMed Free Full Text

13. Latella D, Scorza C, Bonanno M, Calderone A, Quartarone A, Quattrini F, Calabrò RS. **Neurogenic Pelvic Floor Dysfunctions Across Neurological Disorders: Mechanisms, Phenotypes, and Precision Rehabilitation Pathways-A Narrative Review.** J Clin Med 2026 PubMed Free Full Text

14. Lauinger B, Elnahla A, Mbanugo C, Mumtaz N, Haddad R. **Peripheral Nerve Stimulation of the Dorsal Scapular Nerve for Atypical Shoulder Pain Treatment: A Case Report.** Pain Med Case Rep 2026 10(5):435-437 PubMed

15. Li S, Li W, Huang J, Zeng D, Lin J, Zhang H, Chen M, Liu X, Fu W, Xu N, Liu J. **Distal Electroacupuncture Modulates Maladaptive Brainstem and Motor Cortex Plasticity to Alleviate Hemifacial Spasm.** Mov Disord 2026 epub PubMed

16. 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

17. McCormick ZL, Gilmore CA, Gutierrez GG, Engle MP, Pingree MJ, Pope JE, DiBenedetto DJ, Kissoon NR, Huffman WJ, Crosby ND, Boggs JW. **Sustained relief of chronic headache using percutaneous 60-day peripheral nerve stimulation treatment: 12-month results from a multicenter, prospective clinical study.** Interv Pain Med 2026 5(3):100806 PubMed Free Full Text

18. Mekhail N, Botros M. **Altius Direct Electrical Nerve Stimulation for the treatment of lower extremity post-amputation pain: a device and literature review.** Expert Rev Med Devices 2026 23(9):999-1007 PubMed

19. Messak M, Omar YM, Mosad N, Ahmed O, Makhlouf HA. **Peripheral nerve stimulation for essential tremor: a GRADE-assessed systematic review and meta-analysis.** Neurosurg Rev 2026 PubMed Free Full Text

20. Nagy T, Allen W, Parkin K, Karantanis E, Moore KH, Chen Z. **Clinical Outcomes of Transcutaneous Tibial Nerve Stimulation: Face-to-Face Versus Telehealth Tuition.** Int Urogynecol J 2026 37(7):2045-2051 PubMed

21. Nisar F, Suratkal J, D' Alessandro NM, Elsharkawy H. **Peripheral nerve stimulation for refractory headache after whiplash injury: a case report.** Pain Manag 2026 epub 1-6 PubMed

22. Parikh V, Slusarenko A, Spencer J, Hope JM, Aloba FK, Grewal AS, Alterman BL, Batts K, Mason CF, Zajac-Cox L, Caston S, Borich MR, Nocera J, Kesar TM. **Biomechanical and neural correlates of FastFES versus Fast gait training in individuals post stroke: a randomized control trial study protocol.** Front Neurol 2026 17:1792419 PubMed Free Full Text

23. Provencher J, Finn HT, Taylor JL, Gandevia SC, Butler JE, Héroux ME. **Peripheral nerve sensory fibers are recruited with less current and greater selectivity by conventional waveforms compared with high-frequency waveforms.** J Appl Physiol (1985) 2026 141(1):246-260 PubMed Free Full Text

24. Qi F, Nitsche MA, Wang L, Yue T, Zschorlich VR. **Glutamatergic modulation of transcranial direct current stimulation over the premotor cortex combined with peripheral nerve stimulation promotes observation-execution-related cortical excitability and motor performance.** J Physiol 2026 604(14):6177-6195 PubMed Free Full Text

25. Rao SD, Crowther JE, Scemama P. **Peripheral Nerve Stimulation for the Treatment of Parsonage-Turner Syndrome: A Report of Two Cases.** Pain Med Case Rep 2026 10(5):379-383 PubMed

26. Rodríguez-Rosal M, Sanchez-Sixto A, de Hoyo Lora M, Álvarez-Barbosa F. **Acute effects of posterior tibial nerve percutaneous neuromodulation on postural control in individuals with**

chronic ankle instability. J Back Musculoskelet Rehabil 2026 39(4):1205-1215 PubMed

27. Rostami M, Lee A, Frazer AK, Akalu Y, Siddique U, Walker S, Tallent J, Kidgell DJ. **Motor cortical excitability is differentially modulated by HIIT and strength exercise.** J Sports Sci 2026 44(15):1949-1963 PubMed Free Full Text

28. Schwab F, Patel KV, Mekhail N, Langhorst M, Heros RD, Gentile J, Costandi S, Moore G, Gilmore C, Manion S, Chakravarthy K, Meyer SC, Bundy JV, Tate JL, Sanders R, Vaid S, Szentirmai O, Goree J, Patel VV, Lehmen J, Desai MJ, Pope JE, Giuffrida A, Hayek S, Virk SS, Paicius R, Klemme WR, Gilligan C, RESTORE investigators. **Restorative neurostimulation outcomes for mechanical chronic low back pain: delayed-start crossover from optimal medical management and 2-year treatment longitudinal analyses from the RESTORE randomized controlled trial.** Spine J 2026 epub PubMed

29. Silva-Ortiz VM, Abd-Elsayed A, Lopez-Uribe AG, Chapman KB. **Peripheral Nerve Stimulation of the Sacral Lateral Branches for Sacroiliac Joint Pain: A Technical Report.** Pain Pract 2026 26(6):e70188 PubMed

30. Staats PS, Deer T, Li S, Slavin K, Wahezi S, Day M, Christo P, Eldrige JS, Cohen SP, Hah J, Dickerson D, Kalia H, Levy R, Kaye AD, Sanapati MR, Manchikanti L. **Peripheral Nerve Stimulation Is Medically Necessary and Clinically Validated and Can No Longer Be Deemed Experimental.** Pain Physician 2026 29(5):301-306 PubMed

31. Steele AG, Candela MO, Hufft GJ, Howes-Keith A, Martin C, Oh J, Faraji AH, Sayenko DG. **Decoding Overlapping Lower-Limb Afferent Pathways from Human Epidural Spinal Recordings.** Res Sq 2026 epub PubMed Free Full Text

32. Sun WT, Liu J, Jiang YH, Zhao YK, Yi-Cai, Wu YF, Li TL, Chang PF. **Comparative Efficacy and Acceptability of Noninvasive Brain Stimulation for Migraine: A Systematic Review and Network Meta-Analysis of Randomized Controlled Trials.** Brain Behav 2026 16(7):e71566 PubMed Free Full Text

33. Yamaguchi J, Tokumine J, Moriyama K, Nakazawa H. **Anesthetic Management of a Patient with Advanced Anti-Myelin-Associated Glycoprotein Antibody Neuropathy in the Absence of Measurable Quantitative Neuromuscular Responses: A Case Report.** Reports (MDPI) 2026 PubMed Free Full Text

34. Zheng F, Guan Y, Fang W, Lv T, Huang J, Song X, Lv J. **Efficacy and safety of an implantable tibial neuromodulation system for overactive bladder with urgency urinary incontinence: an open-label, single arm trial.** Front Urol 2026 6:1865760 PubMed Free Full Text

35. Zheng Y, Maruf M, Simonato FA, Hendrickson WK, Sheyn D, Hokanson J, Seibel C, Clemens JQ, Sarma A, Ippolito GM. **Use of additional therapies after minimally invasive therapies among women with overactive bladder.** medRxiv 2026 epub PubMed Free Full Text

SACRAL NERVE STIMULATION · 1,430 citations

1. Alam MJ, Wang K, Zhao T, Li F, Chen J. **Sex-specific effects of chronic electrical acustimulation and sacral nerve stimulation in a rodent model of irritable bowel syndrome.** J Pain 2026

44:106298 PubMed

2. Anand A, Kumar V. **Multidisciplinary management of pregnancy in Fowler's syndrome: sacral neuromodulation deactivation and innovative bladder care.** BMJ Case Rep 2026 PubMed Free Full Text

3. Bharucha AE, Lamichhane R, Fletcher JG, Oblizajek NR, Gautam M, Bailey KR, Szarka LA. **Clinical Trial: Effectiveness and Safety of a Novel Anal Insert Device for Treatment of Faecal Incontinence.** Aliment Pharmacol Ther 2026 64(5):603-614 PubMed Free Full Text

4. Burnett AL. **Sacral neurostimulation of penile erection: advancing intraoperative neurophysiological monitoring during pelvic surgeries-a narrative review.** Ther Adv Urol 2026 18:17562872261468106 PubMed Free Full Text

5. Cheeks M, Lee D, Su S, Andebrhan S, Lancki N, Bretschneider CE. **Baseline Anticholinergic Medication Burden in Patients with Overactive Bladder.** Int Urogynecol J 2026 37(7):2027-2033 PubMed

6. Fiorido C, Siqueira MHB, Aldoukhi M, Alamri N, Fields E, Bhojani N, Chughtai B, Buksh O, Shprits S, Lajkosz K, Elterman D. **Long-Term Outcomes of Sacral Neuromodulation Explantation: A 12-Year Experience at a High-Volume Tertiary Center.** Neurourol Urodyn 2026 epub PubMed

7. Lagunas AC, Chen PJ, Bruns TM, Gupta P. **Pudendal nerve stimulation recruits the urethra during awake human cystometry.** medRxiv 2026 epub PubMed Free Full Text

8. Latella D, Scorza C, Bonanno M, Calderone A, Quartarone A, Quattrini F, Calabrò RS. **Neurogenic Pelvic Floor Dysfunctions Across Neurological Disorders: Mechanisms, Phenotypes, and Precision Rehabilitation Pathways-A Narrative Review.** J Clin Med 2026 PubMed Free Full Text

9. Meyer F, Brandon C, Saussine C, Borojeni S, Bosset PO, Campagne-Loiseau S, Cornu JN, Donon L, Even L, Florin M, Hervé F, Hurel S, Klap J, Perrouin-Verbe MA, Plassais C, Richard C, Vidart A, Lebdai S, Levesque A, Thuillier C, Peyronnet B. **Treatment of interstitial cystitis/bladder pain syndrome: Guidelines from the Committee of Female Urology (CUROPF) of the French Association of Urology (AFU).** Fr J Urol 2026 36(9):103169 PubMed Free Full Text

10. Patel K, Korn E, Flynn M, Hall C, Wu E. **Rate of IPG Placement for Sacral Neuromodulation in Patients With CNS Pathology.** Urogynecology (Phila) 2026 epub PubMed

11. Rajan T, Revnew A, Sheyn D, Hijaz A, Abou Ghayda R. **Prior Authorization for Sacral Nerve Stimulation in the Era of WISeR: Evaluation of U.S. Payer Coverage Policies.** Neurourol Urodyn 2026 45(7):1280-1293 PubMed Free Full Text

12. Rotar M, Kogovsek U. **Predictive value of anal sphincter electromyography for sacral neuromodulation test-phase outcomes.** Clin Neurophysiol 2026 191:2112348 PubMed

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

14. Shahid F, Devi A. **Comment on "Long-Term Outcomes of Sacral Neuromodulation Explantation: A 12-Year Experience at a High-Volume Tertiary Center".** Neurourol Urodyn 2026 epub PubMed

15. Stout MA, Corona LE, Huang LC, Koyama T, Gil LA, King S, Whittam BM, Alpert SA, Pope JC. **Sacral Neuromodulation in the Management of Refractory Pediatric Lower Urinary Tract Dysfunction.** Neurourol Urodyn 2026 45(7):1366-1372 PubMed Free Full Text

16. Tang W, Li Y, Yang T, Yang T, Fang K. **Short-term sacral neuromodulation sustained long-term efficacy in the management of postoperative urinary retention after pelvic surgery: a case report.** J Med Case Rep 2026 epub PubMed Free Full Text

17. Wang X, Xu B, Wang G, Yang L, Su D, Chen JDZ. **Sacral nerve stimulation modulates disease activity and autonomic function in active rheumatoid arthritis: a randomized pilot study.** Clin Rheumatol 2026 45(9):5321-5332 PubMed

18. Wright K, Ishak P, Mansouri D, Mackay GJ. **Outcomes of a novel multidisciplinary approach to delivering sacral neuromodulation services away from the operating theatre.** Colorectal Dis 2026 28(7):e70538 PubMed Free Full Text

19. Zheng Y, Maruf M, Simonato FA, Hendrickson WK, Sheyn D, Hokanson J, Seibel C, Clemens JQ, Sarma A, Ippolito GM. **Use of additional therapies after minimally invasive therapies among women with overactive bladder.** medRxiv 2026 epub PubMed Free Full Text

GASTRIC ELECTRICAL STIMULATION · 561 citations

1. Asiedu J, Shadaloey S, Marks A, Kasakewitch JPG, Joutovsky B, Rezkalla J, Ortiz C, Brathwaite CEM. **Symptoms and clinical outcomes of gastric electrical stimulation in treatment-resistant gastroparesis: a systematic review across short- and long-term follow-up.** Surg Endosc 2026 epub PubMed

2. Papadia FS. **From Approval to Evidence: Device Regulation, Long-Term Outcomes, and Conflicts of Interest in Metabolic Bariatric Surgery.** Obes Surg 2026 epub PubMed Free Full Text

3. Sadda VR, Verma R, Aly AE, Zheng P, Ayazi S. **Glycemic Control and Diabetes Outcomes After Surgical Therapy for Diabetic Gastroparesis.** JAMA Surg 2026 161(7):719-726 PubMed Free Full Text

4. Sivakumar J, Furness JB, Fallon J, Grayden DB, Papastratos K, Cottrell J, Zhou J, Dinning PG, Duong CP. **Gastric Emptying in Response to Neural Gastric Electric Stimulation in an Acute Porcine Model.** Neuromodulation 2026 epub PubMed Free Full Text

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