



October 2017 News

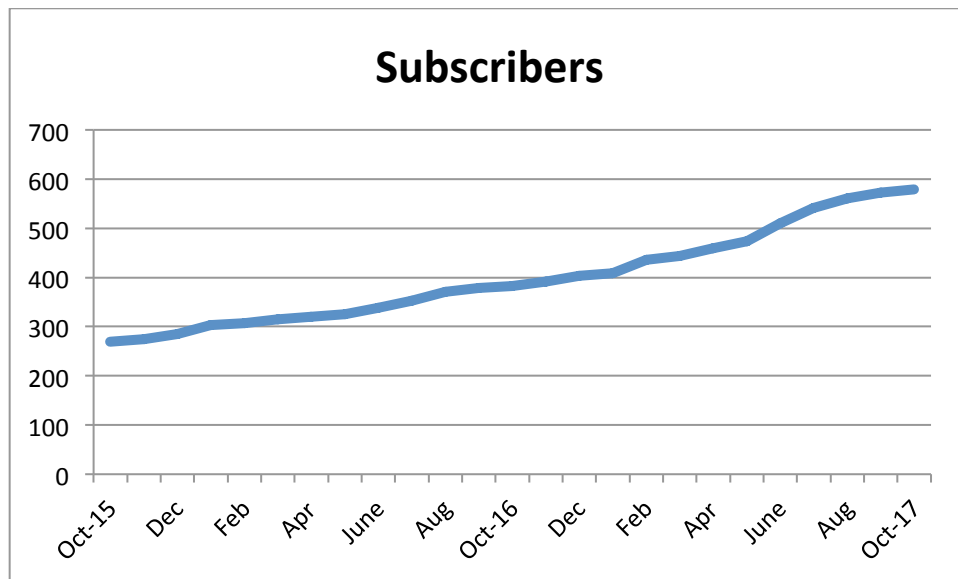
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WIKISTIM MEMBERSHIP CONTINUES TO GROW

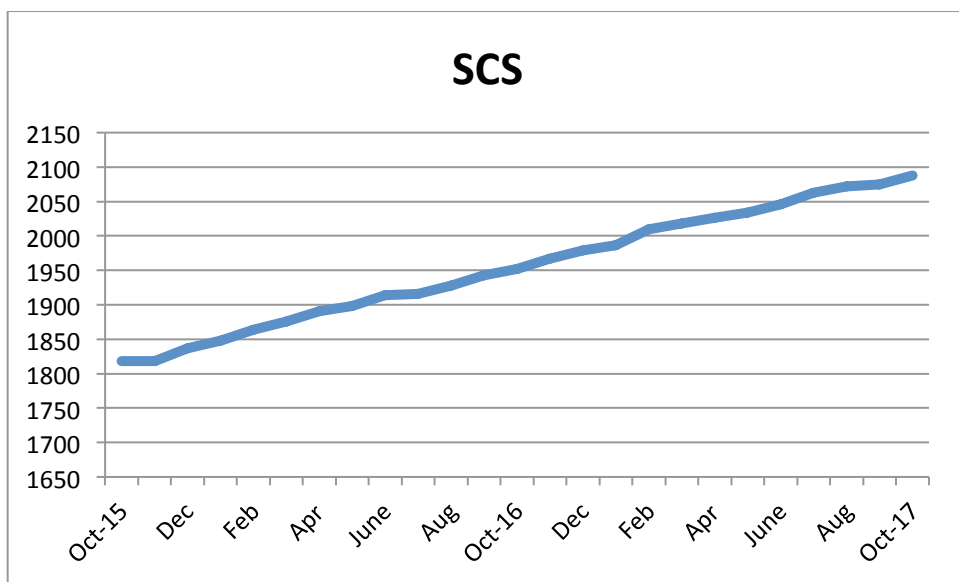
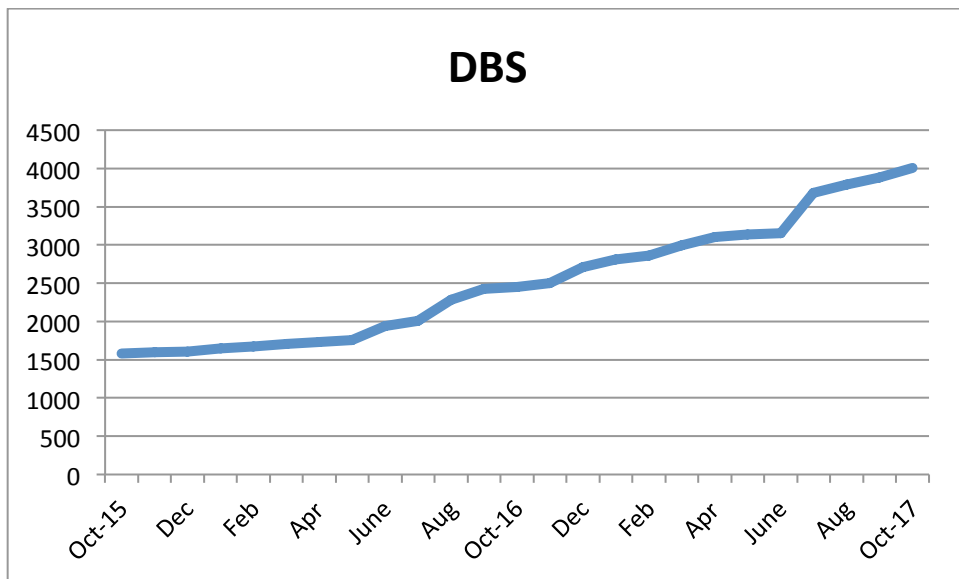
Please continue to spread the word about WIKISTIM by sharing this email with your colleagues. Our growth in the past year was approximately twice that of the preceding year. Our new total is 579.



OCTOBER 2017 STATUS OF CITATION LISTS

- DBS 4004
- DRG 60
- GES 481
- PNS 49
- SCS 2088
- SNS 856

The charts below use our two largest sections to illustrate the growth in the number of citations with primary data that we have identified in the past two years. Any plateaus that occurred were the result of cleaning the databases to remove duplicates (as is current for all databases).



ACCOMPLISHMENTS IN THE PAST MONTH

This month, in addition to our usual updates, we completed several data sheets, including those for the ACCURATE and SUNBURST reports (as well as the SUNBURST protocol paper). We are grateful to everyone who helps us complete data sheets. We also updated all epubS to reflect definitive citation information when available, added DBS for headache, and searched DBS far enough back in time so that next month we will no longer have to conduct searches of DBS based on the various indications.

ONGOING EFFORTS

We continue to work on 1) a new version of WIKISTIM that will enhance its appearance and functionality on small screens and 2) improvements to the wiki-abstraction data entry process.

LONGER-TERM GOALS

- Continue building the PNS section.
- Build the non-invasive brain stimulation section.
- Add additional sections (e.g., VNS).

DONATIONS

Please visit the [DONATE](#) link on the WIKISTIM homepage for information on tax-deductible donations! Our goal is to keep WIKISTIM available free of charge. And please consider including Wikistim's parent non-profit, charitable corporation, The Neuromodulation Foundation, Inc., in your estate planning as Dr. Richard North has done.

FINANCIAL SUPPORT FROM BEGINNING TO DATE

- Boston Scientific
- B. Todd Sitzman, MD, MPH
- Greatbatch
- Medtronic
- NEVRO
- Richard B. North, MD
- St Jude
- The NANS Foundation, now the Institute of Neuromodulation
- Thomas Abell, MD

In-kind support:

- The International Neuromodulation Society (publicity and conference registration)
- The Neuromodulation Foundation (parent non-profit: overhead and development)
- The North American Neuromodulation Society (publicity and conference registration)

CITATIONS OF NEW PAPERS THAT REPORT PRIMARY DATA ADDED OCTOBER 2017

DBS (the WIKISTIM database is as comprehensive as we can make it for all approved and emerging indications)

1. Ahsan SF, Luo H, Zhang J, Kim E, Xu Y. An animal model of deep brain stimulation for treating tinnitus: a proof of concept study. Laryngoscope 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28925013>
2. Akram H, Sotiropoulos SN, Jbabdi S, Georgiev D, Mahlke P, Hyam J, Foltynie T, Limousin P, De Vita E, Jahanshahi M, Hariz M, Ashburner J, Behrens T, Zrinzo L. Subthalamic deep brain stimulation sweet spots and hyperdirect cortical connectivity in Parkinson's disease. Neuroimage 2017 158:332-345 <https://www.ncbi.nlm.nih.gov/pubmed/28711737>
3. Albanese A, Di Giovanni M, Amami P, Lalli S. Failure of pallidal deep brain stimulation in DYT12-ATP1A3 dystonia. Parkinsonism Relat Disord 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28941827>
4. Alptekin O, Kocabicak E, Gubler FS, Ackermans L, Kubben PL, Temel Y. Perioperative technical complications in deep brain stimulation surgeries. Turk Neurosurg 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28770553>
5. Amara AW, Walker HC, Joop A, Cutter G, DeWolfe JL, Harding SM, Standaert DG. Effects of subthalamic nucleus deep brain stimulation on objective sleep outcomes in Parkinson's disease. Mov Disord Clin Pract 2017 4(2):183-190 <https://www.ncbi.nlm.nih.gov/pubmed/28924578>

6. Atkinson A, Pedrosa D. Optimum design and sequential treatment allocation in an experiment in deep brain stimulation with sets of treatment combinations. *Stat Med* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28960373>
7. Balestrino R, Baroncini D, Fichera M, Donofrio CA, Franzin A, Mortini P, Comi G, Volontè MA. Weight gain after subthalamic nucleus deep brain stimulation in Parkinson's disease is influenced by dyskinesias' reduction and electrodes' position. *Neurol Sci* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28913772>
8. Bargiotas P, Muellner J, Schuepbach WMM, Bassetti CL. Parasomnia overlap disorder, Parkinson's disease and subthalamic deep brain stimulation: three case reports. *BMC Neurol* 2017 17(1):137 <https://www.ncbi.nlm.nih.gov/pubmed/28720127>
9. Beck AK, Lütjens G, Schwabe K, Dengler R, Krauss JK, Sandmann P. Thalamic and basal ganglia regions are involved in attentional processing of behaviorally significant events: evidence from simultaneous depth and scalp EEG. *Brain Struct Funct* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28871419>
10. Blomstedt P. Hyperhidrosis caused by deep brain stimulation in the posterior subthalamic area. *J Neurol Sci* 2017 380:277-279 epub <https://www.ncbi.nlm.nih.gov/pubmed/28739206>
11. Blume J, Schlaier J, Rothenfußer E, Anthofer J, Zeman F, Brawanski A, Bogdahn U, Lange M. Intraoperative clinical testing overestimates the therapeutic window of the permanent DBS electrode in the subthalamic nucleus. *Acta Neurochir (Wien)* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28699067>
12. Boccard SGJ, Prangnell SJ, Pycroft L, Cheeran B, Moir L, Pereira EAC, Fitzgerald JJ, Green AL, Aziz TZ. Long-term results of deep brain stimulation of the anterior cingulate cortex for neuropathic pain. *World Neurosurg* 2017 106:625-637 <https://www.ncbi.nlm.nih.gov/pubmed/28710048>
13. Brodsky MA, Anderson S, Murchison C, Seier M, Wilhelm J, Vederman A, Burchiel KJ. Clinical outcomes of asleep vs awake deep brain stimulation for Parkinson disease. *Neurology* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28986415>
14. Carlson JD, McLeod KE, McLeod PS, Mark JB. Stereotactic accuracy and surgical utility of the O-arm in deep brain stimulation surgery. *Oper Neurosurg (Hagerstown)* 2017 13(1):96-107 <https://www.ncbi.nlm.nih.gov/pubmed/28931260>
15. Chakraborty D, Truong DQ, Bikson M, Kaphzan H. Neuromodulation of axon terminals. *Cereb Cortex* 2017 epub 1-9 <https://www.ncbi.nlm.nih.gov/pubmed/28655149>
16. Chen YC, Zhu GY, Wang X, Shi L, Du TT, Liu DF, Liu YY, Jiang Y, Zhang X, Zhang JG. Anterior thalamic nuclei deep brain stimulation reduces disruption of the blood-brain barrier, albumin extravasation, inflammation and apoptosis in kainic acid-induced epileptic rats. *Neurol Res* 2017 epub 1-11 <https://www.ncbi.nlm.nih.gov/pubmed/28918702>
17. Chen YF, Chang YY, Lan MY, Chen PL, Lin CH. Identification of VPS35 p.D620N mutation-related Parkinson's disease in a Taiwanese family with successful bilateral subthalamic nucleus deep brain stimulation: a case report and literature review. *BMC Neurol* 2017 17(1):191 <https://www.ncbi.nlm.nih.gov/pubmed/28985717>
18. Deeb W, Patel A, Okun MS, Gunduz A. Management of elevated therapeutic impedances on deep brain stimulation leads. *Tremor Other Hyperkinet Mov (NY)* 2017 epub 7:493 <https://www.ncbi.nlm.nih.gov/pubmed/28983423>
19. Dietvorst S, Decramer T, Lemmens R, Morlion B, Nuttin B, Theys T. Pocket pain and neuromodulation: negligible or neglected? *Neuromodulation* 2017 20(6):600-605 <https://www.ncbi.nlm.nih.gov/pubmed/28699685>
20. Dodani SS, Lu CW, Aldridge JW, Chou KL, Patil PG. A computerized microelectrode recording to magnetic resonance imaging mapping system for subthalamic nucleus deep brain stimulation surgery. *Oper Neurosurg (Hagerstown)* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28961898>

21. Doshi PK, Ramdasi RV, Karkera B, Kadlas DB. Surgical interventions for task-specific dystonia (writer's dystonia). *Ann Indian Acad Neurol* 2017 20(3):324-327
<https://www.ncbi.nlm.nih.gov/pubmed/28904473>
22. Farrand S, Evans AH, Mangelsdorf S, Loi SM, Mocellin R, Borham A, Bevilacqua J, Blair-West S, Walterfang MA, Bittar RG, Velakoulis D. Deep brain stimulation for severe treatment-resistant obsessive-compulsive disorder: an open-label case series. *Aust NZ J Psychiatry* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28965430>
23. Fattahi M, Riahi E. Does high-frequency deep brain stimulation in dorsal regions of the ventral striatum impair extinction of morphine-induced place preference? *Biol Psychiatry* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28673443>
24. Ferreira ES, Vieira LG, Moraes DM, Amorim BO, Malheiros JM, Hamani C, Covolan L. Long-term effects of anterior thalamic nucleus deep brain stimulation on spatial learning in the pilocarpine model of temporal lobe epilepsy. *Neuromodulation* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28960670>
25. Fiechter M, Nowacki A, Oertel MF, Fichtner J, Debove I, Lachenmayer ML, Wiest R, Bassetti CL, Raabe A, Kaelin-Lang A, Schüpbach MW, Pollo C. Deep brain stimulation for tremor: is there a common structure? *Stereotact Funct Neurosurg* 2017 95(4):243-250
<https://www.ncbi.nlm.nih.gov/pubmed/28772275>
26. Fischer P, Pogosyan A, Herz DM, Cheeran B, Green AL, Fitzgerald J, Aziz TZ, Hyam J, Little S, Foltynie T, Limousin P, Zrinzo L, Brown P, Tan H. Subthalamic nucleus gamma activity increases not only during movement but also during movement inhibition. *Elife* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28742498>
27. Fiveland E, Madhavan R, Prusik J, Linton R, Dimarzio M, Ashe J, Pilitsis J, Hancu I. EKG-based detection of deep brain stimulation in fMRI studies. *Magn Reson Med* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28766824>
28. Fluri F, Mützel T, Schuhmann MK, Krstić M, Endres H, Volkmann J. Development of a head-mounted wireless microstimulator for deep brain stimulation in rats. *J Neurosci Methods* 2017 291:249-256
<https://www.ncbi.nlm.nih.gov/pubmed/28842194>
29. Foki T, Hitzl D, Pirker W, Novak K, Pusswald G, Auff E, Lehrner J. Erratum to: Assessment of individual cognitive changes after deep brain stimulation surgery in Parkinson's disease using the Neuropsychological Test Battery Vienna short version. *Wien Klin Wochenschr* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28741045>
30. Forstmann BU, Isaacs BR, Temel Y. Ultra high field MRI-guided deep brain stimulation. *Trends Biotechnol* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28942267>
31. Ghahremani A, Chen R. Deep brain stimulation modulates the shape of cortical beta oscillations in Parkinson's disease. *Mov Disord* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28880422>
32. Hassan S, Lagrata S, Levy A, Matharu M, Zrinzo L. Microvascular decompression or neuromodulation in patients with SUNCT and trigeminal neurovascular conflict? *Cephalalgia* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28975844>
33. Hauser RA, Pahwa R, Tanner CM, Oertel W, Isaacson SH, Johnson R, Felt L, Stempien MJ. ADS-5102 (amantadine) extended-release capsules for levodopa-induced dyskinesia in Parkinson's disease (EASE LID 2 Study): interim results of an open-label safety study. *J Parkinsons Dis* 2017 7(3):511-522
<https://www.ncbi.nlm.nih.gov/pubmed/28777755>
34. Heldman DA, Urrea-Mendoza E, Lovera LC, Schmerler DA, Garcia X, Mohammad ME, McFarlane MCU, Giuffrida JP, Espay AJ, Fernandez HH. App-based bradykinesia tasks for clinic and home assessment in Parkinson's disease: reliability and responsiveness. *J Parkinsons Dis* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28922169>

35. Hirschmann J, Schoffelen JM, Schnitzler A, van Gerven MAJ. Parkinsonian rest tremor can be detected accurately based on neuronal oscillations recorded from the subthalamic nucleus. *Clin Neurophysiol* 2017 128(10):2029-2036 <https://www.ncbi.nlm.nih.gov/pubmed/28841506>
36. In MH, Cho S, Shu Y, Min HK, Bernstein MA, Speck O, Lee KH, Jo HJ. Correction of metal-induced susceptibility artifacts for functional MRI during deep brain stimulation. *Neuroimage* 2017 158:26-36 <https://www.ncbi.nlm.nih.gov/pubmed/28666879>
37. Irmen F, Huebl J, Schroll H, Brücke C, Schneider GH, Hamker FH, Kühn AA. Subthalamic nucleus stimulation impairs emotional conflict adaptation in Parkinson's disease. *Soc Cogn Affect Neurosci* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28985419>
38. Katlowitz K, Pourfar MH, Israel Z, Mogilner AY. Intraparenchymal cysts following deep brain stimulation: variable presentations and clinical courses. *Oper Neurosurg (Hagerstown)* 2017 13(5):576-580 <https://www.ncbi.nlm.nih.gov/pubmed/28922879>
39. Klanker M, Feenstra M, Willuhn I, Denys D. Deep brain stimulation of the medial forebrain bundle elevates striatal dopamine concentration without affecting spontaneous or reward-induced phasic release. *Neuroscience* 2017 364:82-92 <https://www.ncbi.nlm.nih.gov/pubmed/28918253>
40. Ko AL, Ibrahim A, Magown P, Macallum R, Burchiel KJ. Factors affecting stereotactic accuracy in image-guided deep brain stimulator electrode placement. *Stereotact Funct Neurosurg* 2017 95(5):315-324 <https://www.ncbi.nlm.nih.gov/pubmed/28889124>
41. Koirala N, Fleischer V, Glaser M, Zeuner KE, Deuschl G, Volkmann J, Muthuraman M, Groppa S. Frontal lobe connectivity and network community characteristics are associated with the outcome of subthalamic nucleus deep brain stimulation in patients with Parkinson's disease. *Brain Topogr* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28986718>
42. Kozák G, Berényi A. Sustained efficacy of closed loop electrical stimulation for long-term treatment of absence epilepsy in rats. *Sci Rep* 2017 7(1):6300 <https://www.ncbi.nlm.nih.gov/pubmed/28740261>
43. Kroneberg D, Plettig P, Schneider GH, Kühn AA. Motor cortical plasticity relates to symptom severity and clinical benefit from deep brain stimulation in cervical dystonia. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28961350>
44. Leber M, Bhandari R, Mize J, Warren DJ, Shandhi MMH, Solzbacher F, Negi S. Long term performance of porous platinum coated neural electrodes. *Biomed Microdevices* 2017 19(3):62 <https://www.ncbi.nlm.nih.gov/pubmed/28688070>
45. Lehn AC, O'Gorman C, Olson S, Salari M. Thalamic ventral intermediate nucleus deep brain stimulation for orthostatic tremor. *Tremor Other Hyperkinet Mov (NY)* 2017 epub 7:479 <https://www.ncbi.nlm.nih.gov/pubmed/28983421>
46. Lehto LJ, Idiyatullin D, Zhang J, Utecht L, Adriany G, Garwood M, Gröhn O, Michaeli S, Mangia S. MB-SWIFT functional MRI during deep brain stimulation in rats. *Neuroimage* 2017 159:443-448 <https://www.ncbi.nlm.nih.gov/pubmed/28797739>
47. Lendvai IS, Kinfé TM. Migraine improvement after anterior thalamic deep brain stimulation for drug-resistant idiopathic generalized seizure: a case report. *Headache* 2017 57(6):964-966 <https://www.ncbi.nlm.nih.gov/pubmed/28466541>
48. Liu R, Crawford J, Callahan PM, Terry AV Jr, Constantinidis C, Blake DT. Intermittent stimulation of the nucleus basalis of Meynert improves working memory in adult monkeys. *Curr Biol* 2017 27(17):2640-2646 <https://www.ncbi.nlm.nih.gov/pubmed/28823679>
49. Luthra NS, Mitchell KT, Volz MM, Tamir I, Starr PA, Ostrem JL. Intractable blepharospasm treated with bilateral pallidal deep brain stimulation. *Tremor Other Hyperkinet Mov (NY)* 2017 7:472 <https://www.ncbi.nlm.nih.gov/pubmed/28975046>
50. Matias CM, Frizon LA, Asfahan F, Uribe JD, Machado AG. Brain shift and pneumocephalus assessment during frame-based deep brain stimulation implantation with intraoperative

magnetic resonance imaging. *Oper Neurosurg (Hagerstown)* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28973421>

51. Mégevand P, Groppe DM, Bickel S, Mercier MR, Goldfinger MS, Keller CJ, Entz L, Mehta AD. The hippocampus and amygdala are integrators of neocortical influence: a cortico-cortical evoked potential study. *Brain Connect* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28978234>
52. Meoni S, Fraix V, Castrioto A, Benabid AL, Seigneuret E, Vercueil L, Pollak P, Krack P, Chevrier E, Chabardes S, Moro E. Pallidal deep brain stimulation for dystonia: a long term study. *J Neurol Neurosurg Psychiatry* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28972096>
53. Molina R, Okun MS, Shute JB, Opri E, Rossi PJ, Martinez-Ramirez D, Foote KD, Gunduz A. Report of a patient undergoing chronic responsive deep brain stimulation for Tourette syndrome: proof of concept. *J Neurosurg* 2017 epub 1-7 <https://www.ncbi.nlm.nih.gov/pubmed/28960154>
54. Munshi R, Qadri SM, Zhang Q, Castellanos Rubio I, Del Pino P, Pralle A. Magnetothermal genetic deep brain stimulation of motor behaviors in awake, freely moving mice. *Elife* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28826470>
55. Nagasaka K, Watanabe Y, Takashima I. Topographical projections from the nucleus basalis magnocellularis (Meynert) to the frontal cortex: a voltage-sensitive dye imaging study in rats. *Brain Stimul* 2017 10(5):977-980 <https://www.ncbi.nlm.nih.gov/pubmed/28709847>
56. Nakajima A, Shimo Y, Uka T, Hattori N. Subthalamic nucleus and globus pallidus interna influence firing of tonically active neurons in the primate striatum through different mechanisms. *Eur J Neurosci* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28949036>
57. Niketeghad S, Hebb AO, Nedrud J, Hanrahan SJ, Mahoor MH. Motor task detection from human STN using interhemispheric connectivity. *IEEE Trans Neural Syst Rehabil Eng* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28945597>
58. Nowacki A, Debove I, Fiechter M, Rossi F, Oertel MF, Wiest R, Schüpbach M, Pollo C. Targeting accuracy of the subthalamic nucleus in deep brain stimulation surgery: comparison between 3 T T2-weighted magnetic resonance imaging and microelectrode recording results. *Oper Neurosurg (Hagerstown)* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28973406>
59. Park HR, Kim IH, Kang H, Lee DS, Kim BN, Kim DG, Paek SH. Nucleus accumbens deep brain stimulation for a patient with self-injurious behavior and autism spectrum disorder: functional and structural changes of the brain: report of a case and review of literature. *Acta Neurochir (Wien)* 2017 159(1):137-143 <https://www.ncbi.nlm.nih.gov/pubmed/27807672>
60. Park SC, Lee JK, Kim SM, Choi EJ, Lee CS. Systematic stereotactic error reduction using a calibration technique in single-brain-pass and multitrack deep brain stimulations. *Oper Neurosurg (Hagerstown)* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28961863>
61. Pötter-Nerger M, Reese R, Steigerwald F, Heiden JA, Herzog J, Moll CKE, Hamel W, Ramirez-Pasos U, Falk D, Mehdorn M, Gerloff C, Deuschl G, Volkmann J. Movement-related activity of human subthalamic neurons during a reach-to-grasp task. *Front Hum Neurosci* 2017 epub 11:436 <https://www.ncbi.nlm.nih.gov/pubmed/28936169>
62. Rossetti MA, Collins RL, York MK. Performance validity in deep brain stimulation candidates. *Arch Clin Neuropsychol* 2017 epub 1-7 <https://www.ncbi.nlm.nih.gov/pubmed/28961736>
63. Schoen NB, Jermakowicz WJ, Luca CC, Jagid JR. Acute symptomatic peri-lead edema 33 hours after deep brain stimulation surgery: a case report. *J Med Case Rep* 2017 11(1):103 <https://www.ncbi.nlm.nih.gov/pubmed/28407815>
64. Shenai MB, Patel DM, Romeo A, Whisenhunt JD, Walker HC, Guthrie S, Guthrie BL. The relationship of electrophysiologic subthalamic nucleus length as a predictor of outcomes in deep brain stimulation for Parkinson disease. *Stereotact Funct Neurosurg* 2017 95(5):341-347 <https://www.ncbi.nlm.nih.gov/pubmed/28982098>

65. Storzer L, Butz M, Hirschmann J, Abbasi O, Gratkowski M, Saupe D, Vesper J, Dalal SS, Schnitzler A. Bicycling suppresses abnormal beta synchrony in the Parkinsonian basal ganglia. *Ann Neurol* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28892573>
66. Stypulkowski PH, Stanslaski SR, Giftakis JE. Modulation of hippocampal activity with fornix deep brain stimulation. *Brain Stimul* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28927833>
67. Tham JCW, Howard A, Ilcewicz-Klimek M, Hurwitz TA. Bifrontal electroconvulsive therapy in a patient with subcallosal cingulate deep brain stimulation for depression. *J ECT* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28767529>
68. Toda H, Asanuma K, Kondo T, Terada Y, Saiki H. Tongue tremor as a manifestation of atypical Parkinsonism treated with coaxial deep brain stimulation of thalamus and subthalamic area. *Parkinsonism Relat Disord* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28867163>
69. Tsiokos C, Malekmohammadi M, AuYong N, Pouratian N. Pallidal low β -low γ phase-amplitude coupling inversely correlates with Parkinson disease symptoms. *Clin Neurophysiol* 2017 128(11):2165-2178 <https://www.ncbi.nlm.nih.gov/pubmed/28942154>
70. Tymchak Z, Vitali A. What's the twist? Twiddler's syndrome in deep brain stimulation. *Can J Neurol Sci* 2017 epub 1-2 <https://www.ncbi.nlm.nih.gov/pubmed/28903798>
71. Urakov TM, Jagid JR. Mathematical equation for precise burr hole placement in stereotactic deep brain stimulation lead placement. *J Neurol Surg A Cent Eur Neurosurg* 2017 78(6):607-609 <https://www.ncbi.nlm.nih.gov/pubmed/28750452>
72. Vega-Zelaya L, Torres CV, Navas-Garcia M, Sola RG, Pastor J. New thalamic potential associated with somatosensory evoked potentials. Spanish. *Rev Neurol* 2017 65(7):322-326 <https://www.ncbi.nlm.nih.gov/pubmed/28929474>
73. White-Dzuro GA, Lake W, Neimat JS. Subpectoral implantation of internal pulse generators for deep brain stimulation: technical note for improved cosmetic outcomes. *Oper Neurosurg (Hagerstown)* 2017 13(4):529-534 <https://www.ncbi.nlm.nih.gov/pubmed/28838110>
74. Wloch A, Blahak C, Abdallat M, Heissler HE, Wolf ME, Krauss JK. Development of hyperkinesias after long-term pallidal stimulation for idiopathic segmental dystonia. *Tremor Other Hyperkinet Mov (NY)* 2017 epub 7:480 <https://www.ncbi.nlm.nih.gov/pubmed/28975047>
75. Zazo SE, Fernandez FS, Liebana ES, Ayala AS, Aragonese BL, Campa JMT, Portilla PG, Vega MA. Deep brain stimulation in patients with Parkinson's disease: effect on psychiatric symptoms and quality of life. *J Neurol Surg A Cent Eur Neurosurg* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28962066>
76. Zhang C, Huang Y, Zheng F, Zeljic K, Pan J, Sun B. Death from opioid overdose after deep brain stimulation: a case report. *Biol Psychiatry* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28882316>

DRG (updating our comprehensive list)

1. Falowski SM, Dianna A. A prospective analysis of neuromonitoring for confirmation of lead placement in dorsal root ganglion stimulation. *Oper Neurosurg (Hagerstown)* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28973357>
2. Mol FMU, Roumen RMH. DRG spinal cord stimulation as solution for patients with severe pain due to anterior cutaneous nerve entrapment syndrome: a case series. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28940994>

GES (updating our comprehensive list)

1. Hobson DTG, Gaskins JT, Frazier L, Francis SL, Kinman CL, Meriwether KV. Current practice patterns and knowledge among gynecologic surgeons of InterStim® programming after implantation. *Int Urogynecol J* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28975361>

PNS (no new peripheral nerve field stimulation papers to report)

SCS (updating our comprehensive list)

1. Deer TR, Levy RM, Kramer J, Poree L, Amirdelfan K, Grigsby E, Staats P, Burton AW, Burgher AH, O Bray J, Scowcroft J, Golovac S, Kapural L, Paicius R, Kim C, Pope J, Yearwood T, Samuel S, McRoberts WP, Cassim H, Netherton M, Miller N, Schaufele M, Tavel E, Davis T, Davis K, Johnson L, Mekhail N. Dorsal root ganglion stimulation yielded higher treatment success rate for CRPS and causalgia at 3 and 12 months: randomized comparative trial. *Pain* 2017 158(4):669-681
<http://www.ncbi.nlm.nih.gov/pubmed/28030470>
2. Deer T, Slavin KV, Amirdelfan K, North RB, Burton AW, Yearwood TL, Tavel E, Staats P, Falowski S, Pope J, Justiz R, Fabi AY, Taghva A, Paicius R, Houden T, Wilson D. Success using neuromodulation with burst (SUNBURST) study: results from a prospective randomized controlled trial using a novel burst waveform. *Neuromodulation* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28961366>
3. Dietvorst S, Decramer T, Lemmens R, Morlion B, Nuttin B, Theys T. Pocket pain and neuromodulation: negligible or neglected? *Neuromodulation* 2017 20(6):600-605
<https://www.ncbi.nlm.nih.gov/pubmed/28699685>
4. Elsamadicy AA, Sergesketter A, Ren X, Mohammed Qasim Hussaini S, Laarakker A, Rahimpour S, Ejikeme T, Yang S, Pagadala P, Parente B, Xie J, Lad SP. Drivers and risk factors of unplanned 30-day readmission following spinal cord stimulator implantation. *Neuromodulation* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28961362>
5. Kowalski KE, Romaniuk JR, Kowalski T, DiMarco AF. Effects of expiratory muscle activation via high frequency spinal cord stimulation. *J Appl Physiol (1985)* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28935824>
6. Lad SP, Petrella JR, Xie J, Parente B, Pagadala P, Yang S, Gramer R, Petraglia FW III, Han JL, Farber SH. Long-term cost utility of spinal cord stimulation in patients with failed back surgery syndrome. *Pain Physician* 2017 20(6):E797-E805
<https://www.ncbi.nlm.nih.gov/pubmed/28934786> NOTE: PUBMED's author list differs from that in the journal.
7. Lad SP, Petrella JR, Xie J, Parente B, Pagadala P, Yang S, Gramer R, Petraglia FW III, Han JL, Farber SH. Increasing rates of imaging in failed back surgery syndrome patients: implications for spinal cord stimulation. *Pain Physician* 2017 20(6):E969-E977
<https://www.ncbi.nlm.nih.gov/pubmed/28934801> NOTE: PUBMED's author list differs from that in the journal.
8. Maher DP, Martins YC, Doshi T, Bicket M, Zhang K, Hanna G, Ahmed S. Neuropathic pain medication use does not alter outcomes of spinal cord stimulation for lower extremity pain. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28980364>
9. Paul AR, Kumar V, Roth S, Gooch MR, Pilitsis JG. Establishing minimal clinically important difference of spinal cord stimulation therapy in post-laminectomy syndrome. *Neurosurgery* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28973581>
10. Russo M, Cousins MJ, Brooker C, Taylor N, Boesel T, Sullivan R, Poree L, Shariati NH, Hanson E, Parker J. Effective relief of pain and associated symptoms with closed-loop spinal cord stimulation system: preliminary results of the Avalon study. *Neuromodulation* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28922517>
11. Salavatian S, Beaumont E, Gibbons D, Hammer M, Hoover DB, Armour JA, Ardell JL. Thoracic spinal cord and cervical vagosympathetic neuromodulation obtund nodose sensory transduction of myocardial ischemia. *Auton Neurosci* 2017 epub
<https://www.ncbi.nlm.nih.gov/pubmed/28919363>

12. Sanders RA, Hoelzer BC, Bendel MA, Lamer TJ, Pittelkow TP, Eldrige JS, Pingree MJ, Moeschler SM, Gazelka HM, Mauck WD, Rho RH. Utilization of leads after permanent implant in spinal cord stimulator systems. *Pain Pract* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28941145>
13. Scalone L, Mantovani LG, Lavano A, Costantini A, Fortini G, Zucco F. Clinical use, quality of life and cost-effectiveness of spinal cord stimulation used to treat patients with failed back surgery syndrome. *Letter. Asian Spine J* 2017 11(4):675-676 <https://www.ncbi.nlm.nih.gov/pubmed/28874987>
14. Simopoulos T, Sharma S, Aner M, Gill JS. A temporary vs. permanent anchored percutaneous lead trial of spinal cord stimulation: a comparison of patient outcomes and adverse events. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28901641>

SNS (updating our comprehensive list)

1. Ismail S, Chartier-Kastler E, Perrouin-Verbe MA, Rose-Dite-Modestine J, Denys P, Phé V. Long-term functional outcomes of S3 sacral neuromodulation for the treatment of idiopathic overactive bladder. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28967986>
2. Li X, Uy J, Yu M, Li S, Theisen K, Browning J, Shen B, Wang J, Roppolo JR, de Groat WC, Tai C. Sacral neuromodulation blocks pudendal inhibition of reflex bladder activity in cats: insight into the efficacy of sacral neuromodulation in Fowler's syndrome. *Am J Physiol Regul Integr Comp Physiol* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28931549>
3. Liu LQ, Ferguson-Pell M. Blood perfusion changes during sacral nerve root stimulation versus surface gluteus electrical stimulation on in seated spinal cord injury. *Assist Technol* 2017 epub:1-8 <https://www.ncbi.nlm.nih.gov/pubmed/28960131>
4. Matzel KE, Chartier-Kastler E, Knowles CH, Lehur PA, Muñoz-Duyos A, Ratto C, Rydningen MB, Sørensen M, van Kerrebroeck P, de Wachter S. Sacral neuromodulation: standardized electrode placement technique. *Neuromodulation* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28975677>
5. Siegel S, Kreder K, Takacs E, McNamara R, Kan F. Prospective randomized feasibility study assessing the effect of cyclic sacral neuromodulation on urinary urge incontinence in women. *Female Pelvic Med Reconstr Surg* 2017 epub <https://www.ncbi.nlm.nih.gov/pubmed/28914707>

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