June 2017 News **PLEASE FORWARD TO YOUR COLLEAGUES** **www.wikistim.org**

If you are reading this newsletter for the first time, please visit the ABOUT section on the WIKISTIM home page, which describes WIKISTIM's unique resources and is accessible without registration.

ANOTHER RECORD MONTH FOR GROWTH IN MEMEBERSHIP

In the past month, we have had the largest one-month bump in WIKISTIM registration since the site went live in October 2013. We attribute this to our presence at the INS meeting in Edinburgh, which gave us the opportunity to display a paper poster and to make a platform presentation. We are also grateful to everyone who is helping us spread the word about WIKISTIM. Each month, after this newsletter goes out, we get new registrants, and this can be happening only because you are sharing this email with your colleagues.

INS PRESENTATIONS LEAD TO OPPORTUNITIES

A professor at a teaching hospital attended the session at which Jane presented WIKISTIM. Afterwards, he said he will assign the completion of WIKISTIM data sheets to his more than 50 students. This, of course, will encourage them to read scientific papers carefully and critically and will be a wonderful learning experience even as it helps the entire neurostimulation community by making these data available in a format that facilitates comparison, assessment, and analysis of data.

During the paper poster presentation earlier, two epidemiologists told Jane that WIKISTIM is on a list of resources they were given to consult. Also, the CEO of an small tech company indicated his willingness to make a reasonable donation to WIKISTIM. Many of the people who viewed the poster said that they had heard about WIKISTIM when Dr. Konstantin Slavin mentioned it during his presentation. Dr. Slavin does this routinely (as does Dr. North). We are grateful to the INS and to all of our supporters.

SMALL ENHANCEMENTS TO IMPROVE YOUR EXPERIENCE ON THE SITE

The list of citations that appears after a fruitful search now includes "status" as a line item. This will introduce an empty field if the paper has not yet been hyper-abstracted or will indicate that abstraction is "partial" or "completed."

Those of you who (like us) scroll through 400 entries at a time in the lists of papers can now simply hit the up arrow in the lower right-hand corner of your screen to return to the top of the list.

Most accented names now appear in the proper place in the alphabetical lists. Those that we are still working on are listed in the introductory page for the sections where they occur (5 in DBS and 1 in SNS).

GOALS
Improve data entry for wiki-abstraction.
Expand the DBS list to additional indications.
Give the PNS list the attention it deserves.
Make WIKISTIM appear in a coherent fashion on small screens.
Build the non-invasive brain stimulation section.

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 The Neuromodulation Foundation, Inc. in your estate planning as Dr. Richard North has done.

JUNE 2017 STATUS

- 510 subscribers
- DBS citations 3151
- DRG citations 49
- GES citations 477
- PNS citations 48
- SCS citations 2046
- SNS citations 833

CITATIONS OF NEW PAPERS THAT REPORT PRIMARY DATA ADDED JUNE 2017

DBS (the WIKISTIM database is as comprehensive as we can make it for depression, epilepsy, OCD, and Parkinson's—we are in the process of adding other indications)

1. Aiello M, Eleopra R, Foroni F, Rinaldo S, Rumiati RI. Weight gain after STN-DBS: the role of reward sensitivity and impulsivity. Cortex 2017 92:150-161 https://www.ncbi.nlm.nih.gov/pubmed/28494345
2. Blume J, Lange M, Rothenfusser E, Doenitz C, Bogdahn U, Brawanski A, Schlaier J. The impact of white matter lesions on the cognitive outcome of subthalamic nucleus deep brain stimulation in Parkinson's disease. Clin Neurol Neurosurg 2017 159:87-92 https://www.ncbi.nlm.nih.gov/pubmed/28582689
3. Chockalingam A, Belasen A, Chen N, Ramirez-Zamora A, Youn Y, Feustel P, Wilock ME, Shin DS, Pilitsis JG. Effect of eye opening on single-unit activity and local field potentials in the subthalamic nucleus. Neuromodulation 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28493348
4. Deng ZD, Li DY, Zhang CC, Pan YX, Zhang J, Jin H, Zeljec K, Zhan SK, Sun BM. Long-term follow-up of bilateral subthalamic deep brain stimulation for refractory tardive dystonia. Parkinsonism Relat Disord 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28552340
5. Dupre DA, Nangunoori R, Koduri S, Angle C, Cantella D, Whiting D. Disease stabilization of DYT1-positive primary generalized dystonia with deep brain stimulation of the globus pallidus interna: a 15-yr follow-up. Oper Neurosurg (Hagerstown) 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28586458
6. Ewert S, Plettig P, Li N, Chakravarty MM, Collins L, Herrington TM, Kühn AA, Horn A. Toward defining deep brain stimulation targets in MNI space: a subcortical atlas based on multimodal MRI, histology and structural connectivity. Neuroimage 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28536045

7. Fabbri M, Coelho M, Guedes LC, Rosa MM, Abreu D, Gonçalves N, Antonini A, Ferreira JJ. Acute response of non-motor symptoms to subthalamic deep brain stimulation in Parkinson's disease. Parkinsonism Relat Disord 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28528805
8. Herron J, Thompson M, Brown T, Chizeck H, Ojemann J, Ko A. Cortical brain computer interface for closed-loop deep brain stimulation. IEEE Trans Neural Syst Rehabil Eng 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28541211
9. Horn A, Reich M, Vorwerk J, Li N, Wenzel G, Fang Q, Schmitz-Hübsch T, Nickl R, Kupsch A, Volkmann J, Kühn AA, Fox MD. Connectivity predicts deep brain stimulation outcome in Parkinson's disease. Ann Neurol 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28586141
10. Li D, Zhang C, Gault J, Wang W, Liu J, Shao M, Zhao Y, Zeljic K, Gao G, Sun B. Remotely programmed deep brain stimulation of the bilateral subthalamic nucleus for the treatment of primary parkinson disease: a randomized controlled trial investigating the safety and efficacy of a novel deep brain stimulation system. Stereotact Funct Neurosurg 2017 95(3):174-182 https://www.ncbi.nlm.nih.gov/pubmed/28571034
11. Lu M, Wei X, Loparo KA. Investigating synchronous oscillation and deep brain stimulation treatment in a model of cortico-basal ganglia network. IEEE Trans Neural Syst Rehabil Eng 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28541214
12. Mahlknecht P, Akram H, Georgiev D, Tripoliti E, Candelario J, Zacharia A, Zrinzo L, Hyam J, Hariz M, Foltynie T, Rothwell JC, Limousin P. Pyramidal tract activation due to subthalamic deep brain stimulation in Parkinson's disease. Mov Disord 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28590508
13. Mulders AEP, Leentjens AFG, Schruers K, Duits A, Ackermans L, Temel Y. Choreatic side-effects of deep brain stimulation of the anteromedial subthalamic nucleus for treatment-resistant obsessive-compulsive disorder: a case report. World Neurosurg 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28532905
14. Park CK, Jung NY, Kim MS, Chang JW. Analysis of delayed intracerebral hemorrhage associated with deep brain stimulation surgery. World Neurosurg 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28536064
15. Piña-Fuentes D, Little S, Oterdoom M, Neal S, Pogosyan A, Tijssen MAJ, van Laar T, Brown P, van Dijk JMC, Beudel M. Adaptive DBS in a Parkinson's patient with chronically implanted DBS: a proof of principle. Mov Disord 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28589687
16. Ramayya AG, Pedisich I, Levy D, Lyalenko A, Wanda P, Rizzuto D, Baltuch GH, Kahana MJ. Proximity of substantia nigra microstimulation to putative GABAergic neurons predicts modulation of human reinforcement learning. Front Hum Neurosci 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28536513
17. Rasouli J, Ramdhani R, Panov FE, Dimov A, Zhang Y, Cho C, Wang Y, Kopell BH. Utilization of quantitative susceptibility mapping for direct targeting of the subthalamic nucleus during deep brain stimulation surgery. Oper Neurosurg (Hagerstown) 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28531270
18. Romann AJ, Beber BC, Olchik MR, Rieder CRM. Different outcomes of phonemic verbal fluency in Parkinson's disease patients with subthalamic nucleus deep brain stimulation. Arq Neuropsiquiatr 2017 75(4):216-220 https://www.ncbi.nlm.nih.gov/pubmed/28489140
19. Sobstyl M, Michałowska M, Fiszer U, Ząbek M. Deep brain stimulation failure due to external cardioversion in a patient with Parkinson's disease. Neurol Neurochir Pol 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28587730
20. Sridharan KS, Højlund A, Johnsen EL, Sunde NA, Johansen LG, Beniczky S, Østergaard K. Differentiated effects of deep brain stimulation and medication on somatosensory processing in Parkinson's disease. Clin Neurophysiol 2017 128(7):1327-1336 https://www.ncbi.nlm.nih.gov/pubmed/28570866

21. Su XL, Luo XG, Lv H, Wang J, Ren Y, He ZY. Factors predicting the instant effect of motor function after subthalamic nucleus deep brain stimulation in Parkinson's disease. Transl Neurodegener 2017 epub 6:14 https://www.ncbi.nlm.nih.gov/pubmed/28580139
22. Wu G, Wang L, Hong Z, Ren S, Zhou F. Hippocampal low-frequency stimulation inhibits afterdischarge and increases GABA (A) receptor expression in amygdala-kindled pharmacoresistant epileptic rats. Neurol Res 2017 epub 1-11 https://www.ncbi.nlm.nih.gov/pubmed/28502217
23. Zhan S, Sun F, Pan Y, Liu W, Huang P, Cao C, Zhang J, Li D, Sun B. Bilateral deep brain stimulation of the subthalamic nucleus in primary Meige syndrome. J Neurosurg 2017 epub 1-6 https://www.ncbi.nlm.nih.gov/pubmed/28548593

GES (updating our comprehensive list)

1. Wan X, Yin J, Foreman R, Chen JDZ. An optimized IES method and its inhibitory effects and mechanisms on food intake and body weight in diet-induced obese rats: IES for obesity. Obes Surg 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28547565

SCS (updating our comprehensive list)

1. Al Tamimi M, Aoun SG, Gluf W. Spinal cord compression secondary to epidural fibrosis associated with percutaneously placed spinal cord stimulation electrodes: case report and review of the literature. World Neurosurg 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28583460
2. De Carolis G, Paroli M, Tollapi L, Doust MW, Burgher AH, Yu C, Yang T, Morgan DM, Amirdelfan K, Kapural L, Sitzman BT, Bundschu R, Vallejo R, Benyamin RM, Yearwood TL, Gliner BE, Powell AA, Bradley K. Paresthesia-independence: an assessment of technical factors related to 10 kHz paresthesia-free spinal cord stimulation. Pain Physician 2017 20(4):331-341 https://www.ncbi.nlm.nih.gov/pubmed/28535555
3. Hoelzer BC, Bendel MA, Deer TR, Eldrige JS, Walega DR, Wang Z, Costandi S, Azer G, Qu W, Falowski SM, Neuman SA, Moeschler SM, Wassef C, Kim C, Niazi T, Saifullah T, Yee B, Kim C, Oryhan CL, Rosenow JM, Warren DT, Lerman I, Mora R, Hayek SM, Hanes M, Simopoulos T, Sharma S, Gilligan C, Grace W, Ade T, Mekhail NA, Hunter JP, Choi D, Choi DY. Spinal cord stimulator implant infection rates and risk factors: a multicenter retrospective study. Neuromodulation 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28493599
4. Howard-Quijano K, Takamiya T, Dale EA, Kipke J, Kubo Y, Grogan T, Afyouni A, Shivkumar K, Mahajan A. Spinal cord stimulation reduces ventricular arrhythmias during acute ischemia by attenuation of regional myocardial excitability. Am J Physiol Heart Circ Physiol 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28576833
5. Muhammad S, Roeske S, Chaudhry SR, Mehari Kinfe T. Burst or high-frequency (10 kHz) spinal cord stimulation in failed back surgery syndrome patients with predominant back pain: one year comparative data. Neuromodulation 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28544182
6. Paroli M, Bernini O, Carolis G, Tollapi L, Bondi F, Martini A, Dario A, Paolicchi A. Are multidimensional pain inventory coping strategy profiles associated with long-term spinal cord stimulation effectiveness? Pain Med 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28549170
7. Provenzano DA, Rebman J, Kuhel C, Trenz H, Kilgore J. The efficacy of high-density spinal cord stimulation among trial, implant, and conversion patients: a retrospective case series. Neuromodulation 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28547853
8. Wang D, Qureshi M, Smith J, Khetani N. Spinal cord compression related to spinal cord stimulator. Pain Med 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28510735

9. Yusuf E, Bamps S, Thüer B, Mattheussen J, Ursi JP, Del Biondo E, de Smedt K, Van Paesschen R, Berghmans D, Hofkens K, Van Schaeren J, van Havenbergh T, Van Herendael B. A multidisciplinary infection control bundle to reduce the number of spinal cord stimulator infections. Neuromodulation 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28116797

SNS (updating our comprehensive list)

1. Bramall A, Chaudhary B, Ahmad J, Shamji MF. Chronic infection of a Brindley sacral nerve root stimulator. BMJ Case Rep 2016 epub https://www.ncbi.nlm.nih.gov/pubmed/26917791
2. Castaño-Botero JC, Ospina-Galeano IA, Gómez-Illanes R, Lopera-Toro A. Extradural implantation of sacral anterior root stimulator in spinal cord injury patients. Neurourol Urodyn 2016 35(8):970-974 https://www.ncbi.nlm.nih.gov/pubmed/26208239
3. Fuchs ME, Lu PL, Vyrostek SJ, Teich S, Alpert SA. Factors predicting complications after sacral neuromodulation in children. Urology 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28526242
4. Richter HE, Amundsen CL, Erickson SW, Jelovsek JE, Komesu Y, Chermansky C, Harvie HS, Albo M, Myers D, Gregory WT, Wallace D; NICHD Pelvic Floor Disorders Network. Characteristics associated with treatment response and satisfaction in women undergoing onabotulinumtoxinA and sacral neuromodulation for refractory urgency urinary incontinence. J Urol 2017 epub https://www.ncbi.nlm.nih.gov/pubmed/28501541

FINANCIAL SUPPORT TO DATE FOR 2016/17

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

Ongoing 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)

Jonathan Young, MD, Noninvasive Brain Stimulation
To be determined, Vagus Nerve Stimulation

Managing editor
Jane Shipley

Disclosure
WIKISTIM includes citations for indications that are or might be considered off-label in the United States.

Contact
The Neuromodulation Foundation, Inc.
117 East 25th Street
Baltimore, MD 21218
wikistim@gmail.com
wikistim.org
neuromodfound.org