



July 2019 News

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### **REPORT ON THE STATUS OF WIKISTIM**

This month we welcomed our 1000th subscriber. We are pleased that our membership continues to grow and that. We send each new subscriber an email explaining how to use WIKISTIM and asking for his or her support.

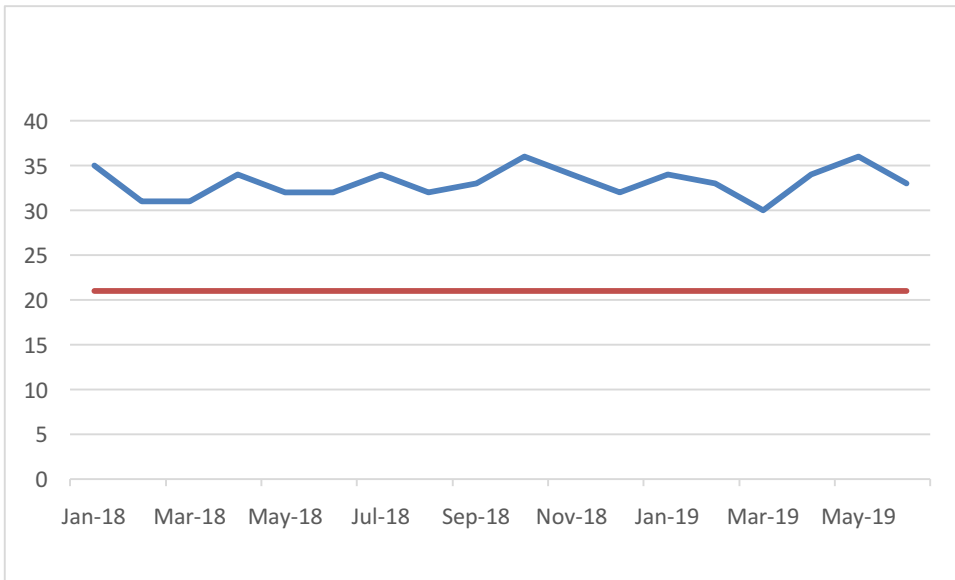
In 2018, WIKISTIM's parent non-profit, the Neuromodulation Foundation, Incorporated, was pleased to receive financial support for WIKISTIM from NANS in the amount of \$50,000. Since that time, we have received \$17,500 from NEVRO, \$5,000 from Nuvectra, \$50,000 from Medtronic, and \$1,750 from individual donors. Because we have been able to keep our expenses at less than \$120,000/year, these contributions have assured our continued ability to update and improve WIKISTIM.

Thus, we have added new citations every month and updated "epub" to definitive citations as they become available on a quarterly basis. In the past year, the number of citations has grown by nearly 800.

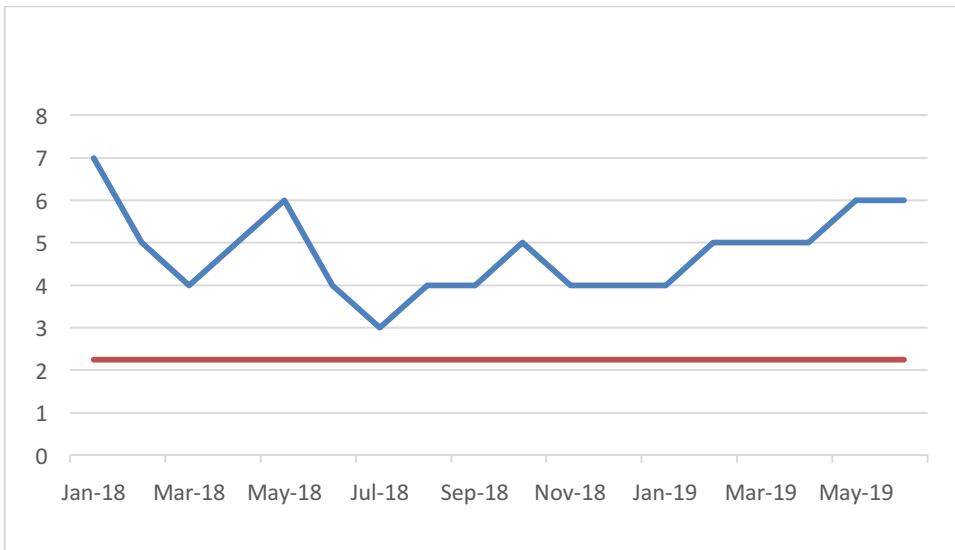
We are in the process of developing a new, easier method of uploading data to create WIKISTIM abstracts. This new scheme is under review and will benefit from the comments of our Editorial Board members. This online form will include checkboxes with suggested entries as well as the capacity for free text entries. We will also retain a downloadable spreadsheet format that anyone can fill in off-line and submit by email for upload (as occurs now).

Another enhancement on its way is an improvement to our search engine that it will allow it to yield a result for a search by a field name (e.g., "infection") if that field is filled in. At present, the word "infection" must appear in a value that fills a field. Thus, if a title includes the word "infection," the citation will appear, but if (for an entry with a completed data sheet) the infection field is filled in only by a number, and the word doesn't appear elsewhere, the search engine will not yield that result.

We continue to send out these monthly newsletters, which we archive and make available without subscription at <https://www.wikistim.org/news/>. As illustrated below, our newsletter consistently outperforms the "Medical, Dental, and Health Care" sector mean for percent opened and percent who clicked a link.



Percent who opened email (blue) versus "Medical, Dental, and Health Care" sector mean (orange) (<https://mailchimp.com/resources/research/email-marketing-benchmarks/>)



Percent who clicked a link (blue) versus "Medical, Dental, and Health Care" sector mean (orange) (<https://mailchimp.com/resources/research/email-marketing-benchmarks/>)

Our efforts to publicize WIKISTIM this year included publishing a paper in *Neuromodulation*. We were pleased that this paper elicited a letter to the editor, which allowed us to expound on some of the things we covered in the paper. We made poster or platform presentations about WIKISTIM at the annual NANS conference, bi-annual INS conference, and the 2018 Neuroventions conference. We also participated in the joint meeting of the Initiative on Methods, Measurement, and Pain Assessment in Clinical Trials/Institute of Neuromodulation/International Neuromodulation Society on "Research Design

Considerations for Randomized Clinical Trials of Spinal Cord Stimulation for Pain.” We are also pleased to note that Rui Duarte and others who also attended this meeting are publishing a systematic review and meta-analysis of placebo/sham RCTs of SCS for neuropathic pain and have recognized WIKISTIM in their citation list.

Finally, we should note that NEVRO has consistently had a researcher complete a data sheet for publications of interest to that company. Watch this space next month for links to the latest NEVRO sponsored completed data sheets.

We plan to continue to maintain WIKISTIM while working to improve the way you interact with the site and to add new sections. For example, Dr. Jonathan Young is working with a group of medical students at Duke to fill in data sheets for his section on noninvasive brain stimulation, which will be the newest addition to WIKISTIM. Dr. Young has also presented one abstract on his work developing this new section and is in the process of preparing another for presentation. Many of our colleagues have asked us to create a section on vagus nerve stimulation, which we will do when we receive sufficient dedicated funding.

In short, we are pleased with the way that WIKISTIM is developing and have ideas for enhancements and the requisite energy to carry them out. We are grateful for the support we have received and hope that our collaboration with the professional societies and others working in our sector will continue to grow.

## **July 2019 STATISTICS**

### **Most clicked PUBMED links during the past month from previous newsletters**

1. Anderson DJ, Kipke DR, Nagel SJ, Lempka SF, Machado AG, Holland MT, Gillies GT, Howard MA 3rd, Wilson S. Intradural spinal cord stimulation: performance modeling of a new modality. *Front Neurosci* 2019 epub 13:253 <https://www.ncbi.nlm.nih.gov/pubmed/30941012>
2. Levy R, Deer TR, Poree L, Rosen SM, Kapural L, Amirdelfan K, Soliday N, Leitner A, Mekhail N. Multicenter, randomized, double-blind study protocol using human spinal cord recording comparing safety, efficacy, and neurophysiological responses between patients being treated with evoked compound action potential-controlled closed-loop spinal cord stimulation or open-loop spinal cord stimulation (the Evoke study). *Neuromodulation* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/30828946>
3. Perper Y. Prevention of lead migration during spinal cord stimulation trials through the creation of the subdermal security loop. *Pain Pract* 2019 19(4):457-458 <https://www.ncbi.nlm.nih.gov/pubmed/30957946>
4. Alpaugh M, Saint-Pierre M, Dubois M, Aubé B, Arsenault D, Kriz J, Cicchetti A, Cicchetti F. A novel wireless brain stimulation device for long-term use in freely moving mice. *Sci Rep* 2019 9(1):6444 <https://www.ncbi.nlm.nih.gov/pubmed/31015544>
5. Akçakaya MO, Saryyeva A, Heissler HE, Hermann EJ, Krauss JK. Glial tumors and deep brain stimulation: an increasingly recognized association? *J Clin Neurosci* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31029525>

### **Most clicked external links during the past month**

[26th Annual NAPA Pain Conference](#), August 15-18, 2019, Napa, California.

[Neuromodulation: The Science & NYC Neuromodulation](#), October 4-6, 2019, Napa, California.

## **Membership**

In June, the number of our subscribers grew to 1010. Thank you for helping us exceed the 1,000 milestone!

### **Number of citations in each section**

- DBS 4963, with 2 completed WIKISTIM abstracts
- DRG 104, with 9 completed WIKISTIM abstracts
- GES 486
- PNS 56 (limited to peripheral nerve field stimulation)
- SCS 2345, with 129 completed or partially completed WIKISTIM abstracts
- SNS 950

### **SUPPORT FOR WIKISTIM**

Please consider making a donation via PAYPAL using this [DONATE](#) link or by sending a check to The Neuromodulation Foundation, 117 East 25<sup>th</sup> Street, Baltimore, MD 21218. Please encourage institutional and corporate sponsors as well. We'd love to add your name and theirs to our list of financial supporters below!

### **Individual supporters in 2018**

- Richard B. North, MD
- B. Todd Sitzman, MD, MPH

### **Industry support 2018-19**

- Boston Scientific
- Medtronic
- Nevro
- Nuvectra

### **Nonprofit support**

- The International Neuromodulation Society (publicity and conference registration)
- The Neuromodulation Foundation, Inc. (WIKISTIM's parent organization)
- The North American Neuromodulation Society

### **CITATIONS ADDED from search on June 25, 2019**

#### **DBS**

1. Ahn JH, Kim AR, Kim NKD, Park WY, Kim JS, Kim M, Park J, Lee JI, Cho JW, Cho KR, Youn J. The effect of globus pallidus interna deep brain stimulation on a dystonia patient with the GNAL mutation compared to patients with DYT1 and DYT6. *J Mov Disord* 2019 12(2):120-124 <https://www.ncbi.nlm.nih.gov/pubmed/31158945>
2. Atchley TJ, Laskay NMB, Sherrod BA, Rahman AKMF, Walker HC, Guthrie BL. Reoperation for device infection and erosion following deep brain stimulation implantable pulse generator placement. *J Neurosurg* 2019 epub:1-8 <https://www.ncbi.nlm.nih.gov/pubmed/31174189>
3. Athawale TM, Johnson KA, Butson CR, Johnson CR. A statistical framework for quantification and visualisation of positional uncertainty in deep brain stimulation electrodes. *Comput Methods Biomech Biomed Eng Imaging Vis* 2019 7(4):438-449 <https://www.ncbi.nlm.nih.gov/pubmed/31186994>
4. Bally JF, Rohani M, Ruiz-Lopez M, Paramanandam V, Munhoz RP, Hodaie M, Kalia SK, Lozano AM, Burkhard PR, Poncet A, Fasano A. Patient-adjusted deep-brain stimulation programming is time saving in dystonia patients. *J Neurol* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31197514>
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- consequences of deep brain stimulation with magnetoencephalography. *Neuroimage* 2019 199:366-374 <https://www.ncbi.nlm.nih.gov/pubmed/31154045>
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  7. Cao C, Huang P, Wang T, Zhan S, Liu W, Pan Y, Wu Y, Li H, Sun B, Li D, Litvak V. Cortico-subthalamic coherence in a patient with dystonia induced by chorea-acanthocytosis: a case report. *Front Hum Neurosci* 2019 epub 13:163 <https://www.ncbi.nlm.nih.gov/pubmed/31191273>
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  10. Daida K, Nishioka K, Shimo Y, Umemura A, Yoshino H, Hattori N. Deep brain stimulation shows high efficacy in two patients with GCH1 variants. *Parkinsonism Relat Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31178337>
  11. de Almeida Marcelino AL, Horn A, Krause P, Kühn AA, Neumann WJ. Subthalamic neuromodulation improves short-term motor learning in Parkinson's disease. *Brain* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31169872>
  12. DePaoli D, Goetz L, Gagnon D, Maranon G, Prud'homme M, Cantin L, Parent M, Côté DC. Intraoperative fiber optic guidance during chronic electrode implantation in deep brain stimulation neurosurgery: proof of concept in primates. *J Neurosurg* 2019 epub:1-10 <https://www.ncbi.nlm.nih.gov/pubmed/31151099>
  13. di Giacopo A, Baumann CR, Kurthen M, Capecci F, Sürücü O, Imbach LL. Selective deep brain stimulation in the substantia nigra reduces myoclonus in progressive myoclonic epilepsy: a novel observation and short review of the literature. *Epileptic Disord* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31225807>
  14. Dobiszewski S, LoBuono D, Hurley L, Mahler L, Xu F, Delmonico M, Lofgren I. Assessing cardiovascular disease risk factors in Parkinson's disease by treatment: levodopa alone versus deep brain stimulation with levodopa (P12-047-19). *Curr Dev Nutr* 2019 3(Suppl 1) <https://www.ncbi.nlm.nih.gov/pubmed/31224091>
  15. Doldersum E, van Zijl JC, Beudel M, Eggink H, Brandsma R, Piña-Fuentes D, van Egmond ME, Oterdoom DLM, van Dijk JMC, Elting JWJ, Tijssen MAJ. Intermuscular coherence as biomarker for pallidal deep brain stimulation efficacy in dystonia. *Clin Neurophysiol* 2019 130(8):1351-1357 <https://www.ncbi.nlm.nih.gov/pubmed/31207566>
  16. Erdogan S, Savas A, Aydin N, Akbostanci MC. Predictive factors for favorable outcome from subthalamic nucleus deep brain stimulation in Parkinson's disease. *Turk Neurosurg* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31192443>
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25. Lee EJ, Oh JS, Moon H, Kim MJ, Kim MS, Chung SJ, Kim JS, Jeon SR. Parkinson disease-related pattern of glucose metabolism associated with the potential for motor improvement after deep brain stimulation. *Neurosurgery* 2019 epub <https://www.ncbi.nlm.nih.gov/pubmed/31215629>
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#### **DRG**

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#### **GES**

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#### **PNS**

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## SNS

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B. Todd Sitzman, MD, MPH, At Large

[Konstantin Slavin, MD, PhD](#), Deep Brain Stimulation

[Kristl Vonck, MD, PhD](#), Deep Brain Stimulation for Epilepsy

Richard Weiner, MD, Peripheral Nerve Stimulation

[Jonathan Young, MD](#), Noninvasive Brain Stimulation

To be determined, Vagus Nerve Stimulation

### **Managing editor**

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### **Disclosure**

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

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