August 2016 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. This section describes WIKISTIM's unique resources and is accessible without registration.

A GENEALOGY INTERNET DATABASE BENEFITTED FROM CROWD-SOURCING

Last month, the free genealogy site, familysearch.org, sent out a request for volunteers to index primary documents. The documents (draft registration cards, marriage records, etc.) had been scanned but needed to be formatted to improve search results and access. This is similar to our intention with WIKISTIM. The documents that our citations point to are available in a wide variety of locations (often for a cost) but exist in a format that is not easy to assess or access. We conceived of WIKISTIM in the belief that the neurostimulation community will help us hyper-abstract its literature, and we continue to expect this to occur eventually. We are currently creating a form that will facilitate this effort. In the meantime, imagine the impact when we can hold an indexing event similar to the successful effort carried out by familysearch.org. In a mere 72 hours, 116,475 participants indexed 10,447,887 documents!

CAVEAT

When searching PUBMED for citations about DBS in Parkinson's Disease on August 15th, we found that using the search terms "Parkinson" and "DBS" yielded 2063 hits whereas "Parkinson's Disease" and "DBS" yielded 2627. Most of the nearly 600 citations won't be added to WIKISTIM because they don't present primary data, but we have to assess all of them. Also, we are continuing to add citations from a few other years. We had been using the shorter search term, expecting the results to include (and exceed) those of the longer term, and unexpectedly missed citations. We are in the process of indexing the additional citations. In contrast, our users may be assured that a search of WIKISTIM using either set of terms yields identical numbers.

QUALITY CONTROL

In July, we scoured the DRG, GES, PNS, SCS, and SNS databases, removing the occasional duplicates, updating epubs with definitive citation information whenever possible, and adding links to full-text papers for those that appear in *Neuromodulation*. The GES section cites a lot of abstracts (courtesy of its editor!), and we removed those that duplicated definitive papers. We also added full-text links for these abstracts when they did not appear on PUBMED. After we finish building the DBS database, we will do the same for those citations.

WISH LIST—WE NEED YOUR VOTE!

Please send a short email to wikistim@gmail.com telling us which WIKISTIM enhancement you think we

should pursue as resources become available:

- A section on vagal nerve stimulation
- A section on noninvasive brain stimulation
- Optimized performance on various platforms (screen sizes, browsers, operating systems)
- Linking the data fields to additional information (e.g., descriptions and preferred uses of study designs and outcome criteria, authors' CVs, etc.),
- Incorporating data visualization graphics that will update immediately as data are extrapolated from papers and uploaded, and
- Offering a dynamic user experience, including the ability to save searches and customize the way the site behaves
- Your new idea!

REMINDER: DONATIONS WELCOME

We are grateful for any donation in any amount from those who use this free resource. All donations are 100% deductible for those of you who file US income tax and itemize deductions.

CURRENT STATUS

August numbers (see the appendix for the list of new citations.)

- 371 subscribers (19 new)
- SCS citations 1928 (17 new)
- DBS citations 2286 (277 new: 0 depression; 2 epilepsy; 0 OCD; the rest PD or other)
- SNS citations 776 (2 new)
- PNS citations 45 (1 new)
- DRG citations 36 (1 new)
- GES citations 467 (2 new)

HOW THE NEUROSTIMULATION COMMUNITY CAN HELP

- Submit extracted data from published reports of your choice, or use our datasheets as a guide when you plan your study and write your paper, and then submit the datasheet to us upon journal acceptance.
- Notify us about any reports we might have missed that contain primary data on SCS, SNS, DRG, PNS, GES, DBS/OCD, DBS/Epilepsy, or reports you would like to see added for DBS/PD.
- Suggest website improvements.

FINANCIAL SUPPORT FOR 2015 to 2016

(Listed alphabetically by first name):

- B. Todd Sitzman, MD, MPH
- Greatbatch
- Medtronic
- The NANS Foundation (3-year grant commitment started 2014)
- NEVRO
- Richard B. North, MD
- 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)

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

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APPENDIX: Citations of papers that report primary data added Aug 16, 2016

DBS Epilepsy (adding to our comprehensive list)

1. Jiltsova E, Möttönen T, Fahlström M, Haapasalo J, Tähtinen T, Peltola J, Öhman J, Larsson EM, Kiekara T, Lehtimäki K. Imaging of anterior nucleus of thalamus using 1.5T MRI for deep brain stimulation targeting in refractory epilepsy. Neuromodulation 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27398710
2. Sweeney-Reed CM, Lee H, Rampp S, Zaehle T, Buentjen L, Voges J, Holtkamp M, Hinrichs H, Heinze HJ, Schmitt FC. Thalamic interictal epileptiform discharges in deep brain stimulated epilepsy patients. J Neurol 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27485172

DBS PD (adding to 2015-2016 citations)

1. Abbasi O, Hirschmann J, Schmitz G, Schnitzler A, Butz M. Rejecting deep brain stimulation artefacts from MEG data using ICA and mutual information. J Neurosci Methods 2016 268:131-141 http://www.ncbi.nlm.nih.gov/pubmed/27090949
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disease. J Neural Transm (Vienna) 2016 123(3):231-240 http://www.ncbi.nlm.nih.gov/pubmed/26597125
3. Alesch F, Jain R, Chen L, Brucke T, Seijo F, San Martin ES, Haegelen C, Verin M, Maarouf M, Barbe MT, Gill S, Whone A, Porta M, Servello D, Timmermann L. A comparison of outcomes between deep brain stimulation under general anesthesia versus conscious sedation with awake evaluation. Neurosurgery 2016 63(Suppl 1):155 http://www.ncbi.nlm.nih.gov/pubmed/27399414
4. Alhourani A, Korzeniewska A, Wozny TA, Kondylis E, Lipski WJ, Crammond D, Richardson RM. Movement-related dynamics of beta band causal interactions between subthalamic nucleus and sensorimotor cortex revealed through intraoperative recordings in Parkinson's disease. Neurosurgery 2016 63(Suppl 1):182 http://www.ncbi.nlm.nih.gov/pubmed/27399488
5. Antoniades CA, FitzGerald JJ. Using saccadometry with deep brain stimulation to study normal and pathological brain function. J Vis Exp 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27501123
6. Arocho-Quinones EV, Pahapill PA. Non-infectious peri-electrode edema and contrast enhancement following deep brain stimulation surgery. Neuromodulation 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27098925
7. Asahi T, Kashiwazaki D, Yoneyama T, Noguchi K, Kuroda S. Importance of (123)I-ioflupane SPECT and myocardial MIBG scintigraphy to determine the candidate of deep brain stimulation for Parkinson's disease. Neurol Med Chir (Tokyo) 2016 56(3):125-131 http://www.ncbi.nlm.nih.gov/pubmed/26794041
8. Asha MJ, Kausar J, Krovvidi H, Shirley C, White A, Chelvarajah R, Hodson JA, Pall H, Mitchell RD. The effect of dopaminergic therapy on intraoperative microelectrode recordings for subthalamic deep brain stimulation under GA: can we operate on patients 'on medications'? Acta Neurochir (Wien) 2016 158(2):387-393 http://www.ncbi.nlm.nih.gov/pubmed/26602236
9. Aygun D, Kocabicak E, Yildiz MO, Temel Y. Effect of age and disease duration on the levodopa response in patients with advanced Parkinson's disease for deep brain stimulation of the subthalamic nucleus. Front Neurol 2016 7:97 http://www.ncbi.nlm.nih.gov/pubmed/27445964
10. Belasen A, Youn Y, Gee L, Prusik J, Lai B, Ramirez-Zamora A, Rizvi K, Yeung P, Shin DS, Argoff C, Pilitsis JG. The effects of mechanical and thermal stimuli on local field potentials and single unit activity in Parkinson's disease patients. Neuromodulation 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27284636
11. Bouwyn JP, Derrey S, Lefaucheur R, Fetter D, Rouille A, Le Goff F, Maltête D. Age limits for deep brain stimulation of subthalamic nuclei in Parkinson's disease. J Parkinsons Dis 2016 6(2):393-400 http://www.ncbi.nlm.nih.gov/pubmed/27061064
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13. Chiou SM. Benefits of subthalamic stimulation for elderly parkinsonian patients aged 70 years or older. Clin Neurol Neurosurg 2016 149:81-86 http://www.ncbi.nlm.nih.gov/pubmed/27494146
14. Coenen VA, Rijntjes M, Prokop T, Piroth T, Amtage F, Urbach H, Reinacher PC. One-pass deep brain stimulation of dentato-rubro-thalamic tract and subthalamic nucleus for tremor-dominant or equivalent type Parkinson's disease. Acta Neurochir (Wien) 2016 158(4):773-781 http://www.ncbi.nlm.nih.gov/pubmed/26876564
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