July 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.

NEW THIS MONTH!
We added a downloadable Powerpoint presentation describing WIKISTIM to the ABOUT section. Please share this with your colleagues.

EDITORIAL IN *Trials* CALLS FOR MORE STRUCTURE IN RESEARCH REPORTS
In a 2015 Editorial (Altman, DG. Making research articles fit for purpose: structured reporting of key methods and findings. Trials 16:53, 2015), Douglas G. Altman of Oxford decries the "current standard story-telling format [of research reports] that embeds factual information and numerical results within the narrative text, making some details hard to extract and, crucially, masking the absence of essential material." He quotes Riveros et al. (Riveros C, Dechartres A, Perrodeau E, Haneef R, Boutron I, Ravaud P. Timing and completeness of trial results posted at ClinicalTrials.gov and published in journals. PLoS Med 10:e1001566, 2013), who propose that "using templates with mandatory reporting of some elements may facilitate the work of researchers by reminding them what they need to report and by standardizing their reporting." WIKISTIM offers such a template to neurostimulation researchers. Even as we are using our customized templates (and refining them, see below) to make published primary data more accessible and more easily analyzable, we are encouraging researchers designing studies and/or writing up their results to refer to our templates to facilitate their work.

NANS2/NIC
The NANS2/NIC conference that took place in June in Baltimore was a huge success. We have witnessed the expansion of this annual meeting, beginning in the 1970's with the Neural Prosthesis Workshop at NIH, from a small agenda of funded project updates to a broad agenda covering a range of new technical and clinical developments. The proximity of this year's conference to Washington, DC facilitated attendance by NIH, FDA and other DC area groups. More than 500 people attended, including more than 100 students, and more women than we have ever seen at a NANS meeting! We congratulate everyone involved.

We had the pleasure of organizing an hour session on maximizing the value of neural interface data, beginning with a presentation on WIKISTIM and followed, by way of example, by an FDA presentation.

PLANS FOR THE NEAR FUTURE
We are continuing our work to develop a form for easy online data entry (filling in datasheets for each

citation listed). Challenges include dealing with the huge number of options that we must offer for various fields (e.g., inclusion criteria and, especially, outcome measures). This form will combine check boxes and the ability to enter free text. We believe the new method of data entry will make using WIKISTIM more enjoyable even as it increases in value to the neurostimulation community. We are also taking advantage of this opportunity to add and rearrange data fields, and would be pleased to consider any suggestions you might have. Filling in the data for a published paper (including your own work) is a convenient and rewarding way to earn CME credits.

Our ideas for additional WIKISTIM enhancements continue to outstrip our financial resources. For example, eventually we plan to create a section for VNS, optimize performance on various platforms (screen sizes, browsers, operating systems), link the data fields to additional information (e.g., descriptions and preferred uses of study designs and outcome criteria, authors' CVs, etc.), incorporate data visualization graphics that will update immediately as data are extrapolated from papers and uploaded, and offer a dynamic user experience, including the ability to save searches and customize the way the site behaves.

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

July 1st numbers (see the appendix for the list of new citations.)

- 352 subscribers (14 new) Please continue to encourage your colleagues to register for access to our free resource.
- SCS citations 1916 (2 new)
- DBS citations 2006 (62 new: 2 depression; 0 epilepsy; 1 OCD; 51 PD)
- SNS citations 779 (5 new)
- PNS citations 42 (3 new)
- DRG citations 36 (0 new)
- GES citations 477 (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 July 7, 2016

DBS Depression (updating our comprehensive list for DBS/Depression)

1. Rummel J, Voget M, Hadar R, Ewing S, Sohr R, Klein J, Sartorius A, Heinz A, Mathé AA, Vollmayr B, Winter C. Testing different paradigms to optimize antidepressant deep brain stimulation in different rat models of depression. J Psychiatr Res 2016 81:36-45 http://www.ncbi.nlm.nih.gov/pubmed/27367210
2. Fenoy AJ, Schulz P, Selvaraj S, Burrows C, Spiker D, Cao B, Zunta-Soares G, Gajwani P, Quevedo J, Soares J. Deep brain stimulation of the medial forebrain bundle: distinctive responses in resistant depression. J Affect Disord 2016 203:143-151 http://www.ncbi.nlm.nih.gov/pubmed/27288959

DBS OCD (updating our comprehensive list for DBS/OCD)

1. Coenen VA, Schlaepfer TE, Goll P, Reinacher PC, Voderholzer U, Tebartz van Elst L, Urbach H, Freyer T. The medial forebrain bundle as a target for deep brain stimulation for obsessive-

compulsive disorder. CNS Spectr 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27268576

DBS PD (adding to 2016 citations)

1. Antosik-Wójcińska AZ, Święcicki Ł, Bieńkowski P, Mandat T, Sołtan E. Othello syndrome after STN DBS - psychiatric side-effects of DBS and methods of dealing with them. Psychiatr Pol 2016 50(2):323-327 http://www.ncbi.nlm.nih.gov/pubmed/27288677
2. Cozac VV, Ehrensperger MM, Gschwandtner U, Hatz F, Meyer A, Monsch AU, Schuepbach M, Taub E, Fuhr P. Older candidates for subthalamic deep brain stimulation in Parkinson's disease have a higher incidence of psychiatric serious adverse events. Front Aging Neurosci 2016 8:132 http://www.ncbi.nlm.nih.gov/pubmed/27375478

1. Gee LE, Walling I, Ramirez-Zamora A, Shin DS, Pilitsis JG. Subthalamic deep brain stimulation alters neuronal firing in canonical pain nuclei in a 6-hydroxydopamine lesioned rat model of Parkinson's disease. Exp Neurol 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27373204
2. Gerard CS, Metman LV, Pal G, Karl J, Sani S. Severe, symptomatic, self-limited unilateral DBS lead edema following bilateral subthalamic nucleus implantation: case report and review of the literature. Neurologist 2016 21(4):58-60 http://www.ncbi.nlm.nih.gov/pubmed/27348140
3. Mathkour M, Garces J, Scullen T, Hanna J, Valle-Giler E, Kahn L, Arrington T, Houghton D, Lea G, Biro E, Bui CJ, Sulaiman OA, Smith RD. Short and long-term outcomes of deep brain stimulation in Parkinson's disease patients 70-years and older. World Neurosurg 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27297246
4. Pepper J, Meliak L, Akram H, Hyam J, Milabo C, Candelario J, Foltynie T, Limousin P, Curtis C, Hariz M, Zrinzo L. Changing of the guard: reducing infection when replacing neural pacemakers. J Neurosurg 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27315022
5. Przybyszewski AW, Ravin P, Pilitsis JG, Szymanski A, Barborica A, Novak P. Multi-parametric analysis assists in STN localization in Parkinson's patients. J Neurol Sci 2016 366:37-43 http://www.ncbi.nlm.nih.gov/pubmed/27288773
6. Ramirez-Zamora A, Smith H, Youn Y, Durphy J, Shin DS, Pilitsis JG. Hyperhidrosis associated with subthalamic deep brain stimulation in Parkinson's disease: insights into central autonomic functional anatomy. J Neurol Sci 2016 366:59-64 http://www.ncbi.nlm.nih.gov/pubmed/27288777
7. Seinstra M, Wojtecki L, Storzer L, Schnitzler A, Kalenscher T. No effect of subthalamic deep brain stimulation on intertemporal decision-making in Parkinson patients. eNeuro 2016 3(2) http://www.ncbi.nlm.nih.gov/pubmed/27257622
8. Swann NC, de Hemptinne C, Miocinovic S, Qasim S, Wang SS, Ziman N, Ostrem JL, San Luciano M, Galifianakis NB, Starr PA. Gamma oscillations in the hyperkinetic state detected with chronic human brain recordings in Parkinson's disease. J Neurosci 2016 36(24):6445-6458 http://www.ncbi.nlm.nih.gov/pubmed/27307233

DBS PD (catching up—this month adding citations from 2004)

1. Alberts JL, Elder CM, Okun MS, Vitek JL. Comparison of pallidal and subthalamic stimulation on force control in patient's with Parkinson's disease. Motor Control 2004 8(4):484-499 http://www.ncbi.nlm.nih.gov/pubmed/15585903
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3. Alterman RL, Shils JL, Gudesblatt M, Tagliati M. Immediate and sustained relief of levodopa-induced dyskinesias after dorsal relocation of a deep brain stimulation lead. Case report. Neurosurg Focus 2004 17(1):E6 http://www.ncbi.nlm.nih.gov/pubmed/15264775

4. Antonini A, Landi A, Mariani C, DeNotaris R, Pezzoli G. Deep brain stimulation and its effect on sleep in Parkinson's disease. Sleep Med 2004 5(2):211-214 http://www.ncbi.nlm.nih.gov/pubmed/15033146
5. Berghmans RL, De Wert GM. Mental competence in the context of deep brain stimulation. Dutch. Ned Tijdschr Geneeskd 2004 148(28):1373-1375 http://www.ncbi.nlm.nih.gov/pubmed/15291417
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7. Capelle HH, Simpson RK Jr, Kronenbuerger M, Michaelsen J, Tronnier V, Krauss JK. Long-term deep brain stimulation in elderly patients with cardiac pacemakers. J Neurosurg 2005 102(1):53-59 http://www.ncbi.nlm.nih.gov/pubmed/15658096
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10. Chou KL, Forman MS, Trojanowski JQ, Hurtig HI, Baltuch GH. Subthalamic nucleus deep brain stimulation in a patient with levodopa-responsive multiple system atrophy. Case report. J Neurosurg 2004 100(3):553-556 http://www.ncbi.nlm.nih.gov/pubmed/15035294
11. Coenen VA, Gielen F, Rohde I, Fromm C, Kronenbürger M, Dammert S, Rohde V. Subthalamic nucleus stimulation for advanced Parkinson's disease: how to find a far medial STN. Minim Invasive Neurosurg 2004 47(6):373-377 http://www.ncbi.nlm.nih.gov/pubmed/15674757
12. de la Fuente-Fernández R. Uncovering the hidden placebo effect in deep-brain stimulation for Parkinson's disease. Parkinsonism Relat Disord 2004 10(3):125-127 http://www.ncbi.nlm.nih.gov/pubmed/15036165
13. Desbonnet L, Temel Y, Visser-Vandewalle V, Blokland A, Hornikx V, Steinbusch HW. Premature responding following bilateral stimulation of the rat subthalamic nucleus is amplitude and frequency dependent. Brain Res 2004 1008(2):198-204 http://www.ncbi.nlm.nih.gov/pubmed/15145757
14. Escamilla-Sevilla F, Mínguez-Castellanos A, Katati MJ, Martín-Linares JM, Meersmans M, Ortega-Moreno A, Arjona V. Clinical utility of deep brain stimulation in an advanced Parkinson's disease. Spanish. Neurologia 2004 19(10):719-727 http://www.ncbi.nlm.nih.gov/pubmed/15568169
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GES (updating our comprehensive list for GES)

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2. Li H, Chen Y, Liu S, Hou XH. Long-pulse gastric electrical stimulation protects interstitial cells of Cajal in diabetic rats via IGF-1 signaling pathway. World J Gastroenterol 2016 22(23):5353-5363 http://www.ncbi.nlm.nih.gov/pubmed/27340351

PNFS (updating our comprehensive list for PNFS)

1. Frahm KS, Hennings K, Vera-Portocarrero L, Wacnik PW, Mørch CD. Muscle activation during peripheral nerve field stimulation occurs due to recruitment of efferent nerve fibers, not direct muscle activation. Neuromodulation 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27353079
2. Jakobs M, Unterberg A, Treede RD, Schuh-Hofer S, Ahmadi R. Subcutaneous trigeminal nerve field stimulation for refractory trigeminal pain: a cohort analysis. Acta Neurochir (Wien) 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27372299
3. Mitchell B, Verrills P, Vivian D, DuToit N, Barnard A, Sinclair C. Peripheral nerve field stimulation therapy for patients with thoracic pain: a prospective study. Neuromodulation 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27376969

SCS (updating our comprehensive list for SCS)

1. Holland MT, Rettenmaier LA, Flouty OE, Thomsen TR, Jerath NU, Reddy CG. Epidural spinal cord stimulation: a novel therapy in the treatment of restless legs syndrome. World Neurosurg 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27268311
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SNS (updating our comprehensive list for SNS)

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release surgery in a patient with interstitial cystitis and persistent arousal. BMJ Case Rep 2016 epub http://www.ncbi.nlm.nih.gov/pubmed/27284095
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