



December 2015 News

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NEW SEARCH ENGINE UP AND RUNNING

Our new search engine is free from relevance rules and will reflect changes we make in the database immediately. This removes a lot of the frustration we had with our previous (Google) search engine. A search of a field name (OCD, Infection, etc.), however, will only yield results that include the field name in the field. Thus, even if the infection field contains data, a search of “infection” will return only entries with “infection” in the citation title and those that contain “infection” in the field (e.g., “infection reported in 5 pts”). We plan to find a way to incorporate the field names into fields that contain data (in effect if not in fact) so that the search will yield the results we intend.

MEETING WITH MAJOR GOVERNMENT AGENCY

We were invited to present WIKISTIM to a group of interested scientists who work for a major government agency and recognize the potential for WIKISTIM to have a huge impact on our field. We look forward to additional meetings in the near future (and to being able to name the agency).

MEDTRONIC PROVIDES CONTINUED SUPPORT

We are pleased to announce that Medtronic has continued its vital support of WIKISTIM as we enter our third year. Medtronic also continues to lead the device manufacturing companies in the number of its employees who have subscribed to WIKISTIM from their work email account.

END OF YEAR DONATION REMINDER

Despite the support we have received from Medtronic and our other sponsors (see list below for 2015), we continue to need help meeting our modest budget. All donations to WIKISTIM are tax-deductible and greatly appreciated. For your convenience, the top of the WIKISTIM [home page](#) has a [DONATE](#) button that links to PayPal.

Also, we have grant applications outstanding. If you work for a company in our field or have a relationship with an executive, please suggest that the company favorably consider grant applications from WIKISTIM.

NANS

Please look for us at the 19th Annual Meeting of the North American Neuromodulation Society in Las Vegas, December 10-13, 2015. We will be spreading the word about WIKISTIM and presenting our latest

poster.

CURRENT STATUS

Our 11 new subscribers in November increased our total to 285. Please continue to encourage your colleagues to read [ABOUT](#) WIKISTIM and register for access to our free resource. The [ABOUT](#) section includes descriptions of all of WIKISTIM's unique resources that we have detailed in previous newsletters.

December 1st numbers (see appendix below for list of new citations)

- 285 subscribers (11 new)
- SCS citations 1837 (19 new)
- DBS citations 1606 (12 new)
- SNS citations 743 (9 new)
- PNS citations 26 (list remains preliminary)
- DRG citations 31 (1 new)
- GES citations 469 (1 new)

CONTINUING PLANS FOR THE FUTURE

- Encourage people to earn CME credits by filling in datasheets
- Transform our datasheets into forms that can be completed online easily
- Include additional sections, with VNS next in line
- Optimize performance on various platforms (screen sizes, browser types, etc.)
- Create forms for online data submission, with easy checkboxes when applicable
- Link data fields to additional information (e.g., descriptions and preferred uses of study designs and outcome criteria, authors' CVs, etc.)
- Incorporate cutting edge data visualization graphics that will update immediately as data are extrapolated from papers and uploaded
- Offer a dynamic user experience, including the ability to save searches and customize the way the site behaves
- Secure continued funding
- Continue to make quality improvements

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 (and thanks to those who have done this—we have incorporated your suggestions to the best of our ability).

SUPPORT FOR 2015

Financial support for 2015 (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)

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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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Appendix: Citations added December 1, 2015

SCS

1. Abrecht CR, Gabriel RA, Dutton RP, Kaye AD, Michna E, Urman RD. National perioperative outcomes for intrathecal pump, spinal cord stimulator, and peripheral nerve stimulator procedures. *Pain Physician* 18(6):547-554 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26606006>
2. Al-Mahfoudh R, Chan Y, Chong HP, Farah JO. Twiddler's syndrome in spinal cord stimulation. *Acta Neurochir (Wien)* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26577635>
3. De Ridder D, Vanneste S. Burst and tonic spinal cord stimulation: different and common brain mechanisms. *Neuromodulation* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26586145>

4. Desautels TA, Choe J, Gad P, Nandra MS, Roy RR, Zhong H, Tai YC, Edgerton VR, Burdick JW. An active learning algorithm for control of epidural electrostimulation. *IEEE Trans Biomed Eng* 62(10):2443-2455 2015 <http://www.ncbi.nlm.nih.gov/pubmed/25974925>
5. Duato Jané A, Lorente Navarro C, Azcona Elizalde JM, Revilla Martín JM, Marsal Machín T, Buisán Bardají JM. Long-term evaluation of spinal cord electric stimulation in peripheral vascular disease. Spanish. *Angiologia* 45(1):1-6 1993 <http://www.ncbi.nlm.nih.gov/pubmed/8476133>
6. Greenebaum B. Calculated spinal cord electric fields and current densities for possible neurite regrowth from quasi-DC electrical stimulation. *Bioelectromagnetics* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26525912>
7. Jünger M, Hahn M, Hoffmann F, Fenchel G, Schulze M. Epidural electrostimulation of the spinal cord for therapy of Fontaine stage III peripheral arterial occlusive disease. German. *Vasa Suppl* 32:402-405 1991 <http://www.ncbi.nlm.nih.gov/pubmed/1771544>
8. Jünger M, Hahn M, Hoffmann F, Fenchel G, Schulze M. Epidural spinal cord electrical stimulation (ESES) improves skin microcirculation in peripheral arterial occlusive disease with rest pain (Fontaine stage III). German. In: H. Heinle, H. Schulte, HE Schaefer, eds., *Arteriosklerotische Gefäßerkrankungen: Prävention, Pathogenese und Therapieansatz*, Springer Fachmedien Wiesbaden 162-168 1992
9. Orita S, Shiga Y, Fujimoto K, Sainoh T, Kubota G, Inage K, Sato J, Yamauchi K, Aoki Y, Nakamura J, Matsuura Y, Suzuki T, Takahashi K, Ohtori S. Modified and systematically-designed installation procedure for spinal cord stimulation in the decubitus position under local anesthesia: a introductory technical case report. *Int J Clin Exp Med* 8(8):12356-12364 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26550145>
10. Ramos JA, Brull SJ. Perioperative management of multiple noncardiac implantable electronic devices. *A A Case Rep* 5(11):189-191 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26588030>
11. Reddy CG, Dalm BD, Flouty OE, Gillies GT, Howard MA 3rd, Brennan TJ. Comparison of conventional and kilohertz frequency epidural stimulation in patients undergoing trialing for spinal cord stimulation: clinical considerations. *World Neurosurg* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26585728>
12. Scalone L, Zucco F, Ciampichini R, Lavano A, Costantini A, De Rose M, Poli P, Fortini G, Demartini L, De Simone E, Menardo V, Cisotto P, Meglio M, Mantovani LG. Relationship between pain, functional disability and health-related quality of life in patient with failed back surgery syndrome undergoing spinal cord stimulation: results from the Precise study. *Value Health* 18(7):A647 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26533631>
13. Shamji MF, Rodriguez J, Shcharinsky A, Paul D. High rates of undiagnosed psychological distress exist in a referral population for spinal cord stimulation in the management of chronic pain. *Neuromodulation* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26607291>
14. Simopoulos TT, Rosa H, Wootton J, Eichman DS, Gill JS. A survey of spinal cord stimulator use by chronic pain patients while driving. *Neuromodulation* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26559374>
15. Simopoulos TT, Rosa H, Wootton J, Eichman DS, Gill JS. A survey of spinal cord stimulator use by chronic pain patients while driving. *Neuromodulation* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26559374>
16. Tonelli L, Ferrari F, Verrini G, Falasca A, Torcia E, Palladini PD, Merli GA. Efficacy of spinal neurostimulation in the treatment of neurogenic bladder. Italian. *Minerva Urol Nefrol* 39(1):69-72 1987 <http://www.ncbi.nlm.nih.gov/pubmed/3497457>
17. Tonelli L, Torcia E, Falasca A, Calcaterra FM, Banchini E, Caretti L, Santambrogio S, Merli GA. Efficacy of epidural neurostimulation in the treatment of chronic peripheral arteriopathies. Italian. *Minerva Chir* 43(4):257-260 1988 <http://www.ncbi.nlm.nih.gov/pubmed/3259298>

18. Wahezi SE, Shah JM. Hypodermis tension loop: a new preventative measure for lead migration in the morbidly obese. *Pain Physician* 18(6):E1123-E1126 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26606026>
19. Yepes C, Orozco JJ, Valencia J. Cost utility analysis of spinal cord stimulation vs. reoperation in the treatment of failed back surgery syndrome in Colombia. *Value Health* 18(7):A861 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26534605>

SNS

1. Devane LA, Evers J, Scott MS, Knowles CH, O'Connell P, Jones JF. Acute lumbosacral nerve stimulation does not affect anorectal motor function in a rodent model. *Neurogastroenterol Motil* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26612206>
2. Duchalais E, Meurette G, Perrot B, Wyart V, Kubis C, Lehur PA. Exhausted implanted pulse generator in sacral nerve stimulation for faecal incontinence: What next in daily practice for patients? *Int J Colorectal Dis* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26552785>
3. Gorissen KJ, Bloemendaal AL, Prapasrivorakul S, Gosselink MP, Jones OM, Cunningham C, Lindsey I, Hompes R. Permanent sacral nerve stimulation under local anesthesia: feasibility, best practice, and patient satisfaction. *Dis Colon Rectum* 58(12):1182-1185 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26544816>
4. Peters KM, Killinger KA, Gilleran JP, Bartley J, Wolfert C, Boura JA. Predictors of reoperation after sacral neuromodulation: a single institution evaluation of over 400 patients. *Neurourol Urodyn* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26587581>
5. Pochopien M, Plisko R, Drzal R, Baran M, Sekiewicz B, Dudding T, Knowles C, Grifi M, Valyi A. Cost-utility analysis of sacral nerve stimulation for the treatment of fecal incontinence refractory to conservative treatment: looking for optimal treatment path. *Value Health* 18(7):A359 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26532029>
6. Povo A, Arantes M, Matzel KE, Barbosa J, Ferreira MA. Sacral malformations: use of imaging to optimise sacral nerve stimulation. *Int J Colorectal Dis* epub 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26547863>
7. Roth TM. Safe simultaneous use of sacral neuromodulation and vagal nerve stimulation. *Female Pelvic Med Reconstr Surg* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26516808>
8. 't Hoen LA, Groen J, Scheepe JR, Blok BF. Intermittent sacral neuromodulation for idiopathic urgency urinary incontinence in women. *Neurourol Urodyn* epub 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26633852>
9. Williams MJ, Hinnenthal J, Zylstra S, Mangel J, Comiter C, Bird E, Griebing T, Culkin D, Sutherland S, Noblett K, Siegel S. Self-reported medication costs in patients receiving sacral neuromodulation for overactive bladder. *Value Health* 18(7):A352 2015
<http://www.ncbi.nlm.nih.gov/pubmed/26531993>

GES

1. Islam S, McLaughlin J, Pierson J, Jolley C, Kedar A, Abell T. Long-term outcomes of gastric electrical stimulation in children with gastroparesis. *J Pediatr Surg* epub
<http://www.ncbi.nlm.nih.gov/pubmed/26526207>

DBS Epilepsy

1. Donovan C, Sweet J, Eccher M, Megerian C, Semaan M, Murray G, Miller J. Deep brain stimulation of Heschl gyrus: implantation technique, intraoperative localization, and effects of stimulation. *Neurosurgery* 77(6):940-947 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26280116>
2. Tonge M, Ackermans L, Kocabicak E, van Kranen-Mastenbroek V, Kuijf M, Oosterloo M, Kubben P, Temel Y. A detailed analysis of intracerebral hemorrhages in DBS surgeries. *Clin Neurol Neurosurg* epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26513430>

DBS PD and General

1. Bangash OK, Thorburn M, Garcia-Vega J, Walters S, Stell R, Starkstein SE, Lind CR. Drowning hazard with deep brain stimulation: case report. J Neurosurg epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/265662>
2. Gulberti A, Moll CK, Hamel W, Buhmann C, Koeppen JA, Boelmans K, Zittel S, Gerloff C, Westphal M, Schneider TR, Engel AK. Predictive timing functions of cortical beta oscillations are impaired in Parkinson's disease and influenced by L-DOPA and deep brain stimulation of the subthalamic nucleus. Neuroimage Clin 9:436-449 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26594626>
3. Heldman DA, Pulliam CL, Urrea Mendoza E, Gartner M, Giuffrida JP, Montgomery EB Jr, Espay AJ, Revilla FJ. Computer-guided deep brain stimulation programming for Parkinson's disease. Neuromodulation epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26621764>
4. Imbach LL, Baumann-Vogel H, Baumann CR, Sürücü O, Hermsdörfer J, Sarnthein J Adaptive grip force is modulated by subthalamic beta activity in Parkinson's disease patients. Neuroimage Clin 9:450-457 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26594627>
5. Lauro PM, Vanegas-Arroyave N, Huang L, Taylor PA, Zaghoul KA, Lungu C, Saad ZS, Horovitz SG. DBSproc: an open source process for DBS electrode localization and tractographic analysis. Hum Brain Mapp epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26523416>
6. Li B, Jiang C, Li L, Zhang J, Meng D. Automated segmentation and reconstruction of the subthalamic nucleus in Parkinson's disease patients. Neuromodulation epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/2648472>
7. Petraglia FW 3rd, Farber SH, Han JL, Verla T, Gallis J, Likhnygina Y, Parente B, Hickey P, Turner DA, Lad SP. Comparison of bilateral vs. staged unilateral deep brain stimulation (DBS) in Parkinson's disease in patients under 70 years of age. Neuromodulation epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26568568>
8. Strowd RE, Herco M, Passmore-Griffin L, Avery B, Haq I, Tatter SB, Tate J, Siddiqui MS. Association between subthalamic nucleus deep brain stimulation and weight gain: results of a case-control study. Clin Neurol Neurosurg epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26619034>

DBS OCD

1. Kohl S, Gruendler TO, Huys D, Sildatke E, Dembek TA, Hellmich M, Vorderwulbecke M, Timmermann L, Ahmari SE, Klosterkoetter J, Jessen F, Sturm V, Visser-Vandewalle V, Kuhn J. Effects of deep brain stimulation on prepulse inhibition in obsessive-compulsive disorder. Transl Psychiatry 5:e675 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26556284>
2. Makris N, Rathi Y, Mouradian P, Bonmassar G, Papadimitriou G, Ing WI, Yeterian EH, Kubicki M, Eskandar EN, Wald LL, Fan Q, Nummenmaa A, Widge AS, Dougherty DD. Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). Brain Imaging Behav epub 2015 <http://www.ncbi.nlm.nih.gov/pubmed/26518214>