

2022 ASNM Elections Information Form

Name (as you would like it to appear on the ballot): Jeffrey R. Balzer

Credentials: PhD, FASNМ, DABNM

Position and Organization: Associate Professor of Neurological Surgery, Neuroscience and Acute and Tertiary Care Nursing, Director of Clinical Services, Center for Clinical Neurophysiology, Director, Cerebral Blood Flow Laboratory, University of Pittsburgh Medical Center

Education: BS, MS, PhD, University of Pittsburgh, Neuroscience

Professional Affiliations: ASNМ, ASET

Publications, Awards & Appointments: See below

1. How do you feel you can contribute to the leadership of ASNМ? What strengths/passions/talents do you hold that would benefit ASNМ? I am a past-President, past-board member and current board member. I bring experience and excitement to the board. I would like to continue on the board particularly continue to lead the Education Committee in guiding speakers and content for future meetings.
2. With changes in health care service delivery and reimbursement, what and how do you feel you can contribute to keep ASNМ moving forward in the right direction? I think education and awareness are paramount, we need to keep our members informed.
3. ASNМ constantly seeks ideas of how to better serve our membership through education, resources, representation to other professional entities, connections and networking or other means of advancement. What do you think ASNМ could offer its members that would provide value? Education and training are paramount. The ASNМ needs to continue to offer quality IONM programs but also potentially organize formal training and guidelines for specific procedures.
4. How do you see the role of the ASNМ in advocating for the profession on intra-operative neuromonitoring? The role is significant. As the premier educator of IOM, the ASNМ needs to bring awareness to surgeons, hospitals, and patients.
5. Describe you academic or professional contributions to the field of intra-operative neuromonitoring (this can include publications, reviews, research contributions, creating or advancing professionalism in a service that is dedicated to intra-operative neuromonitoring, education, outreach, presentations, running or organizing meetings (in-house, local, national, international), societal contributions ...)

Chair, ASNМ Educational Committee

Program Committee, 2021 ISIN Meeting
Co-Editor, The Neurodiagnostic Journal
Co-Course Director, 2021, Principles and Practice of Intraoperative Neuromonitoring,
University of Pittsburgh Medical Center, Pittsburgh, PA

Most recent 10 publications:

Thirumala PD, Altibi AM, Chang R, Saca EE, Iyengar P, Reddy R, Anetakis K, Crammond DJ, **Balzer JR**, Sekula RF. 2020. The utility of intraoperative lateral spread recording in microvascular decompression for hemifacial spasm: A systematic review and meta-analysis. *Neurosurg* 87:E473-E484.

Melachuri SR, Stopera C, Melachuri MK, Anetakis K, Crammond DJ, Castellano JF, **Balzer JR**, Thirumala PD. 2020. The efficacy of somatosensory evoked potentials in evaluating new neurological deficits after thoracic fusion and decompression. *J Neurosurg Spine* 6:1-6.

Melachuri SR, Melachuri MK, Mina A, Anetakis K, Crammond DJ, **Balzer JR**, Shandal V, Thirumala PD. 2021. Optimal "low" pedicle screw stimulation Threshold to predict new post-operative lower extremity neurological deficits during lumbar spinal fusions. *World Neurosurg* 16:S1878-1895.

Melachuri SR, Melachuri MK, Anetakis K, Crammond DJ, **Balzer JR**, Thirumala PD. 2021. Diagnostic accuracy of thresholds less than or equal to 8 mA in pedicle screw testing during lumbar spine procedures to predict new postoperative lower extremity neurological deficits. *Spine* 46:E139-E145.

Reddy RP, Chang R, Rosario BP, Sudadi S, Anetakis KM, **Balzer JR**, Crammond DJ, Shaw JD, Thirumala PD. 2021. What is the predictive value of intraoperative somatosensory evoked potential monitoring for postoperative neurological deficit in cervical spine surgery?-a meta-analysis. *Spine J* 21:555-570.

Senthamarai SSP, Bata A, Anetakis K, Crammond DJ, **Balzer JR**, Snyderman C, Gardner P, Thirumala PD. 2021. Role of intraoperative neurophysiological monitoring in internal carotid artery injury during Endoscopic Endonasal Skull Base Surgery. *World Neurosurg* 148:e43-e57.

Ferreira CJA, Sherer M, Anetakis K, Crammond DJ, **Balzer JR**, Thirumala PD. 2021. Neurophysiological Characteristics of Cranial Nerves V- and VII-Triggered EMG in Endoscopic Endonasal Approach Skull Base Surgery. *J Neurol Surg B Skull Base* 82(Suppl 3):e342-e348.

Chang R, Reddy RP, Coutinho DV, Chang YF, Anetakis KM, Crammond DJ, **Balzer JR**, Thirumala PD. 2021. Diagnostic Accuracy of SSEP Changes during Lumbar Spine Surgery for Predicting Postoperative Neurological Deficit: A Systematic Review and Meta-Analysis. *Spine* In Press.

Reddy RP, Chang R, Coutinho DV, Meinert JW, Anetakis KM, Crammond DJ, **Balzer JR**, Shaw JD, Lee JY, Thirumala PD. 2021. Triggered Electromyography is a Useful Intraoperative Adjunct to Predict Postoperative Neurological Deficit Following Lumbar Pedicle Screw Instrumentation. *Global Spine J* In Press.

Sultan I, Brown JA, Serna-Gallegos D, Thirumala PD, **Balzer JR**, Paras S, Fleseriu C, Crammond DJ, Anetakis KM, Kilic A, Navid F, Gleason TG. 2021. Intraoperative neurophysiologic monitoring during aortic arch surgery. *J Thorac Cardiovasc Surg* In Press.

6. Personal Statement: Please provide any additional information to the members.

2022 Nominees Conflict of Interest Disclosure categories

- Disclosures
 - **Scientific advisory board:** None
 - **Scientific research:** Lots
 - **Speakers' bureau:** None
 - **Stock holder (only if >5% in the company):** None
 - **Stock options:** None
 - **Company leadership/board of directors:** None
 - **Product Royalties:** None
 - **Travel (paid for by other than your employer):** None
 - **Society leadership and IONM related boards:** ABNM Secretary/Treasurer
 - **Patents:**
 - Patents Issued:
 - USP 7,010,351 March 7, 2006
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Gliner BE, Levy AJ, Morgan CB
 - USP 7,236,831 June 26, 2007
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Gliner BE
 - USP 7,299,096 November 20, 2007
System and Method for Treating Parkinson's Disease and Other Movement Disorders
Balzer JR, Wyler A
 - USP 7,305,268 December 4, 2007

Systems and Methods for Automatically Optimizing Stimulus Parameters and Electrode Configurations for Neuro-Stimulators
Gliner BE, **Balzer JR**, Firlik A

USP 7,577,481 August 18, 2009
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Gliner BE, Levy AJ, Morgan CB, Firlik KS

USP 7,672,730 March 2, 2010
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Gliner BE, Levy AJ

USP 7,945,330 May 17, 2011
Systems and Methods for Automatically Optimizing Stimulus Parameters and Electrode Configurations for Neuro-Stimulators
Gliner BE, **Balzer JR**, Firlik A

USP 7,962,218 June 14, 2011
System and Method for Treating Parkinson's disease and Other Movement Disorders
Balzer JR, Wylar A

USP 8,019,425 September 13, 2011
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Levy AJ, Gliner BE, Firlik KS

USP 8,065,012 November 22, 2011
Methods and Apparatus for Effectuating a Lasting Change in a Neural Function of a Patient
Firlik A, **Balzer JR**, Levy AJ, Gliner BE, Morgan CB, Firlik KS

USP 8,121,695 February 21, 2012
Systems and Methods for Reducing the Likelihood of Inducing Collateral Neural Activity during Neural Stimulation Threshold Test Procedures
Gliner BE, **Balzer JR**, Firlik A

USP 8,195,300 June 5, 2012
Systems and Methods for Automatically Optimizing Stimulus Parameters and Electrode Configurations for Neuro-Stimulators
Gliner BE, **Balzer JR**, Firlik A

USP 8,412,335 April 2, 2013

Systems and Methods for Automatically Optimizing Stimulus Parameters and
Electrode Configurations for Neuro-Stimulators
Gliner BE, **Balzer JR**, Firlik A

USP 10,674,930 June 9, 2020
Single-Unit Leadless EEG Sensory
Sun M, Luan B, Thirumala; P, Jia, Gao; D, **Balzer JR**

– **Employed by:** University of Pittsburgh Medical Center