

**2009-2010**  
**Summary of Scholarly Activities**  
**Department of Neurology**

**I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS**

Bassam BA, Bertorini TE. Neuromuscular manifestations of acquired metabolic, endocrine, and nutritional disorders. In: Bertorini TE, editor. Neuromuscular disorders: treatment and management. St. Louis: Elsevier Saunders; 2010. Chapter 20. p. 373-94.

Bertorini TE, Yingjun DL, Bassam BA, Mitchell CW. Perioperative management of patients with neuromuscular disorders. In: Bertorini, TE Editor. Neuromuscular disorders: treatment and management. St. Louis: Elsevier Saunders; 2010. Chapter 10. p. 155-68.

Darbin O, Risso JJ, Rostain JC. Dopaminergic control of striatal 5-HT level at normobaric condition and at pressure. Undersea Hyperb Med 2010 May-Jun;37(3):159-66.

Lim J, Sanghera MK, Darbin O, Stewart RM, Jankovic J, Simpson R. Nonlinear temporal organization of neuronal discharge in the basal ganglia of Parkinson's disease patients. Exp Neurol 2010 Aug;224(2):542-4.

Richard HT, Harrison JF, Abel TW, Maertens P, Martino AM, Sosnowski JS. Pediatric gliomatosis cerebri mimicking acute disseminated encephalomyelitis. Pediatrics 2010 Aug;126(2):e479-82. Available from: <http://pediatrics.org/cgi/content/full/126/2/e479>

**II. PUBLISHED ABSTRACTS**

Beard W, Dearmon MB, Overs S, Maertens P, Martino A. Autosomal dominant foramen magnum dysplasia, another neurocrestopathy? J Child Neurol 2010 Jun;25:788.

Dees D, Maertens P. Iron overload in an epileptic with hemochromatosis. Epilepsia 2009; 50 (Suppl 11):247. Abstract 2.198.

Koper-Skladaniec I, Maertens P, Currie J, Falkos S, Vidal R. Neuroimaging in children with tongue fasciculations. J Neuroimaging 2010 Jan;20(1):104. Abstract no. 63.

Maertens P, Dees D. Levetiracetam-induced optic neuropathy. Epilepsia 2009 Dec;50 (Suppl 11):246. Abstract no. 2.195.

Maertens P, Overs S, Dees D, Funk Z, Vick L. Cerebrospinal Fluid (CSF) flow across the aqueduct of sylvius (AS) in neonates is induced by respiration. J Neuroimaging 2010 Jan 20;(1):102. Abstract no. 55.

Overs S, Maertens P, Sosnowski J, Oh SJ, McGrath T. Giant axonal neuropathy. J Child Neurol 2010 Jun;25:790.

Sabatini JB, Maertens P, Overs S, Estrada B. Spinal intramedullary neurocysticercosis due to raw cabbage ingestin. J Child Neurol 2010;Jun 25:789.

### **III. PUBLISHED BOOKS**

### **IV. INVITED PRESENTATIONS**

Bassam BA. Invited speaker. Nerve conduction pitfalls. American Association of Neuromuscular and Electrodiagnostic Medicine 32<sup>nd</sup> Annual Meeting; 2009 Oct 7; San Diego, CA.

Bassam BA. Invited speaker. Motor neuron disease. Southern Clinical Neurological Society 37<sup>th</sup> Annual Meeting; 2010 Jan 20; Curacao, Netherlands Antilles.

Bassam BA. Invited speaker. Muscle cramps and hyperactivity. Southern Clinical Neurological Society 37<sup>th</sup> Annual Meeting; 2010 Jan 20; Curacao, Netherlands Antilles.

Naritoku D. Invited speaker. New developments in epilepsy. The Epilepsy Foundation of Alabama; 2009 Nov 12; Mobile, AL.

Naritoku D. Invited speaker. Parkinson's disease/MPTP treated primates research collaboration with UAB; 2010 Jan 13; Birmingham, AL.

Naritoku D. Invited speaker. EEG-common mistakes and errors (and how to avoid them). Wake Forest University 12<sup>th</sup> Pediatric Epilepsy Symposium; 2010 Feb 26; Asheville, NC.

Naritoku D. Invited speaker. Genetics of epilepsy. UAB Epilepsy Group; 2010 Apr 7; Birmingham, AL.

Naritoku D. Invited speaker. Case sessions. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 2; Winston-Salem, NC.

Naritoku D. Invited speaker. Case sessions. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 3; Winston-Salem, NC.

Naritoku D. Invited speaker. Clinical use of AEDs. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 3; Winston-Salem, NC.

Naritoku D. Invited speaker. Experimental models of epilepsy. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 3; Winston-Salem, NC.

Naritoku D. Invited speaker. Generic antiepileptic drugs. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 3; Winston-Salem, NC.

Naritoku D. Invited speaker. Epilepsy in the elderly. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 4; Winston-Salem, NC.

Naritoku D. Invited speaker. Genetics of epilepsy. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 4; Winston-Salem, NC.

Naritoku D. Invited speaker. Navigating the alumni website. Residents Epilepsy Education Program Mini-Fellowship, Wake Forest University; 2010 Jun 4; Winston-Salem, NC.

Naritoku D. Invited speaker. Challenges of Parkinson's disease. Med School Café Lecture Series; 2010 Jun 16; Mobile, AL.

Naritoku D. Invited speaker. Case presentations. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 23; Winston-Salem, NC.

Naritoku D. Invited speaker. Case presentations. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 24; Winston-Salem, NC.

Naritoku D. Invited speaker. Clinical use of AEDs. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 24; Winston-Salem, NC.

Naritoku D. Invited speaker. Experimental models of epilepsy. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 24; Winston-Salem, NC.

Naritoku D. Invited speaker. Genetics of epilepsy. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 24; Winston-Salem, NC.

Naritoku D. Invited speaker. Epilepsy in the elderly. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 25; Winston-Salem, NC.

Naritoku D. Invited speaker. Epilepsy in the multiply handicapped. Advances in Epilepsy (CME Program), Wake Forest University; 2010 Jul 25; Winston-Salem, NC.

## V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam served as American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM) Workshop committee chairperson, Scientific Annual Program Coordination committee member, and neuromuscular Update Course committee member; served as American Board of Electrodiagnostic Medicine (ABE) national board examiner and Examination Committee member (ABEM) national board examiner; and served as American Academy of Neurology (AAN) Guidelines Reviewers member.

Paul Maertens served as editor and member of the Editorial Board of the *Journal of Neuroimaging*; served as member of the Examination Committee of the Society of Neuroimaging (question design and evaluation for Neurosonology Exam); served as secretary and board member for the Southern Pediatric Neurology Society; served as a member of the Membership Committee of the American Epilepsy Society; served as member of the Program Committee for the American Society of Neuroimaging.

Dean K. Naritoku was selected by peers to be included in the *Best Doctors in America® 2009-2010* database; served on the Board of the American Board of Clinical Pharmacology; and served on the Editorial Board of *Neurology Research*.

## VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology has continued its foundation building for future growth. Most notable was recruitment of Dr. Juan Ochoa, who is an associate professor of Neurology. Dr. Ochoa has vast experience in epilepsy management and in particular, searchable epilepsy evaluations. He will assume the directorship of our in-patient epilepsy monitoring unit. Dr. Ochoa also has assumed the residency director position. He has considerable experience in medical education and has added several innovative approaches to education including web-based curriculum for the residents.

The Department of Neurology has identified and sourced key equipment for the new epilepsy monitoring unit at the University of South Alabama Medical Center. The equipment currently under acquisition features the ability to perform high-density recordings as well as state of the art source localization by which signals can be projected onto brain images such as MRI for more accurate localization of seizure foci. It is anticipated that this four bed unit will be running within the next six months.

With the acquisition of the new neurophysiology equipment, the department will be able to perform specialized brain monitoring protocols for critical care patients. This should augment our ability to take care of critically ill patients within our medical ICU.

The department EMG Laboratory equipment was updated to encompass advanced as well as standard electro diagnostic studies. Our Autonomic Laboratory is now providing autonomic testing for both clinical services and research projects.

The Department of Neurology has been building its research productivity. The department has phase I pharmacological study capability and has taken on two phase I studies over the last year. Dr. Olivier Darbin, our translational research faculty member, has initiated several projects of high promise and has submitted several grant applications for funding.

The department is working to strengthen ties with our clinical faculty. Dr. Dean Naritoku met with each adjunct faculty and encouraged continued active participation in our residency and clerkship programs as well as our grand rounds program. The response has been very favorable.

The department has implemented the Eran and N.Q. Adams Endowed Scholarship Award. The first recipient, Mrs. Tyler Gaston, is currently a 4<sup>th</sup> year medical student at USA and plans to enter neurology as a career. She will be working with our faculty member, Dr. Olivier Darbin, on a project involving diabetes associated dysautonomia.

The department anticipates the addition of two or three faculty over the next year which will include important sub-specialties of movement disorders, stroke and epilepsy. We are also actively recruiting an interventional neurologist who will be able to form state of the art treatments for acute stroke and other brain disorders.