

**2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF NEUROLOGY**

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.

J. Boggs, E. Waterhouse, and R.J. Delorenzo. The Use of Antiepileptic Medications in Renal and Liver Disease. IN: Elaine Wyllie (Ed.) The Treatment of Epilepsy: Principles and Practice, 3rd Edition, Williams & Wilkins, 54:795-809 (2001).

R. Kesler and R.M. Zweifler. Case and comment: (1) Transient Global Amnesia. 34:117-118; and (2) Venous Sinus Thrombosis. 34:223-224. Patient Care (2000).

J.E. Mendizabal. (Invited Review) A Practical Approach to Migraine Headache. Compr. Ther. 26(4):263-268 (2000).

J.E. Mendizabal, D.N. Lurie, F.G. Greiner, A.K. Shah, and R.M. Zweifler. Baseline CT Findings and Clinical Outcome After Thrombolysis With rt-PA in Acute Ischemic Stroke. J. Neuroimaging 11:101-104 (2001).

K. Onuka, W.J. Nowack, M.V. Doran, and M.J. Niccolai. The Use of Haptic Information To Develop a Cognitive Map. IN: K. Akingobehin (Ed.) Proc., 18th Int. Conf., AOM-IAOM, Maximillian Press 18(3), pp. 120-122 (2000).

J. Rothrock. What's in a Name? Tension Type Headache vs Migraine. Curr. Pain Headache Rep. 5:463-466 (2001).

S. Walczak and W.J. Nowack. An Artificial Neural Network Approach to Diagnosing Epilepsy Using Lateralized Bursts of Theta EEGs. J. Med. Syst. 25(1): 9-20 (2001).

B. Articles in press.

J.G. Boggs. Managing Epilepsy and Co-Existing Disorders. A. Ettinger, Butterworth Heineman (2001).

J.G. Boggs. Seizures: Medical Causes and Management. Norman Delanty, Humana Press (2001).

R. Evans and J. Rothrock. Migraine Aura Without Headache Versus Transient Ischemic Attack During Pregnancy. Headache (2001).

J.E. Mendizabal, D.E. Herbert, and J.F. Rothrock. Risk of Ischemic Stroke in Migraineurs: A Meta-analysis. *Headache* (2001).

W.J. Nowack. EEG in Status Epilepticus Polysomnograph. *Psychiatric Complications in Epilepsy. First Seizure in Adults*. IN: E-Medicine Textbook of Neurology (2001).

R.M. Zweifler. Membrane Stabilizer: Citocoline. *Curr. Med. Res. Opin.* (2001).

R. Zweifler, J. Mendizabal, A. Shaw, S. Cunningham, and J. Rothrock. A Community-Based Analysis of Hospital Presentation Times Following Acute Stroke: the Mobile Stroke Project. *South. Med. J.* (2001).

II. PUBLISHED ABSTRACTS.

J.G. Boggs, W.J. Nowack, and C.R. Drinkard. Analysis of the Honeymoon Effect in Adult Epilepsy Patients. *Epilepsia* 41(suppl 7) pp. 222 (2000).

S. Chaturvedi, S. Cohen, C. Jackson, C. Sila, A. Woofenden, R. Zweifler, and D. Wiseman. Prevalence of Extracranial Carotid Stenosis in Patients With Symptomatic Intracranial Disease. *Neurology* 56 (Suppl. 3): A287 (2001).

R. Drinkard, J. Boggs, W.J. Nowack, and P. Maertens. Ordering Practices of Antiepileptic Drug Levels in Adult and Pediatric Patients. *Epilepsia*, Abstr. 3.230, Vol. 41 (Suppl. 7), pp. 233 (2000).

P. Maertens and B. Wilson. Topiramate for Weight Loss. *J. Child Neurol. Abstr.* 10, Vol. 16, pp. 284 (2001).

P. Maertens and M. Mahmood. Mild Hypothermia Prevents Status Epilepticus in Neonates With Ischemic-Hypoxic Insult. *J. Child Neurol.* Vol. 15, pp. 256 (2000).

P. Maertens, N. Bishara, A. Kasmia, and F. Eyal. Cerebral Blood Flow Velocities in Very Premature Neonates Treated With Dopamine. *J. Neuroimaging, Abstr.* 28, Vol. 11, pp. 88 (2001).

P. Maertens, A. Kasmia, and F. Eyal. Effect of Dopamine Therapy on Cerebral Blood Flow in Very Premature Neonates. *J. Child Neurol.* Vol. 15, pp. 255-256 (2000).

P. Maertens and K. Preis. Sagittal Sinus Thrombosis in Sturge-Weber Syndrome. *J. Child Neurol.* Vol. 15, pp. 255 (2000).

P. Maertens, and Pappolla. Hyperthermia, an Early Manifestation of Infantile Brancher-Enzyme Deficiency (Andersen's Disease) and Acid Maltase Deficiency (Pompe Disease). *J. Child Neurol.* Vol. 15, pp. 254 (2000).

M. Mahmood and P. Maertens. Open-Lip Schizencephaly Is Associated With Septo-optic Dysplasia. *J. Child Neurol., Abstr.* 12, Vol. 16, pp. 285 (2001).

J.E. Mendizabal. The Red Priest of Venice: Did Vivaldi Suffer From a Primary Muscular Disorder? *J. Hist. Neurosci.* 9(2): 144-145 (2000).

J.E. Mendizabal. The Ritual of the Bacabs: Epilepsy Among the Mayans. *Neurology* 56(8) (Suppl.3): A93-A94 (2001).

W.J. Nowack, S. Walczak, and J.G. Boggs. Interictal EEG Rhythmicity. *J. Clin. Neurophysiol.* 17:531 (2000).

W.J. Nowack. EEG Artifact. *Clin. EEG* 32:44-45 (2001).

S.D. Silberstein, W.B. Young, J. Mendizabal, J.F. Rothrock, and A.S. Alam. Efficacy of Intramuscular Droperidol for Migraine Treatment: A Dose Response Study. *Neurology* 56(8): A64 (2001).

R.M. Zweifler, D.D. Alday, M.D. Voorhees, and G.A. Carson. A Novel Method to Induce Mild Hypothermia via Surface Cooling. *Neurology* 56 (Suppl. 3): A170 (2001).

III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.

B.A. Bassam. Invited Faculty. Unusual Sensory Conduction Studies. 24th Annu. Course and Workshops of the Am. Assoc., Electrodiagn. Med. (AAEM), Albuquerque, NM (2001).

B.A. Bassam. Invited Speaker. The Floppy Infant Syndrome. *Pediatr. Neurol. Sem., Am. Univ. Beirut, Beirut, Lebanon* (2001).

J.G. Boggs. Invited Speaker. Controversies and Consensus in Epilepsy. *Am. Acad. Neurol., Philadelphia, PA* (2001).

J.G. Boggs. Invited Speaker. (1) Matching the Medicine to the Patient Symposium. Epilepsy in the Elderly; (2) Invited Speaker. Ordering Practices of Antiepilepsy Drug Levels in Adult and Pediatric Patients; and (3) Analysis of the Honeymoon Effect in Adult Epilepsy Patients. Annu. Mtg., Am. Epilepsy Soc., Los Angeles, CA (2000).

J.G. Boggs. Efficacy of AEDs, Epilepsy in the Multiply Handicapped, AED Interaction, Other Uses for AEDs, Women and Epilepsy. Epilepsy Minifellowship Lectures: Bowman-Gray University, Winston-Salem, NC (2000).

P. Maertens. TCD in Pediatric Sickle Cell Anemia. 24th Mtg. Am. Soc. Neuroimaging, Las Vegas, NV (2001).

P. Maertens. Cerebral Blood Flow Velocities in Very Premature Neonates Treated With Dopamine. Int. Cerebral Hemodynamics Symp., Las Vegas, NV (2001).

P. Maertens. Ordering Practices of Antiepileptic Drug Levels in Adult and Pediatric Patients. Am. Epilepsy Soc., Los Angeles, CA (2000).

P. Maertens. Open-Lip Schizencephaly Is Associated With Septo-Optic Dysplasia. 26th Annu. Mtg., South. Pediatr. Neurol. Soc., New Orleans, LA (2001).

J. Mendizabal. Invited Speaker. An Update of the Treatment of Migraine With Sumatriptan. New Orleans Neurol. Soc., New Orleans, LA (2000).

J. Mendizabal. Invited Speaker. Treatment of Stroke: An Update. (1) Annu. Conf., Riverside Neurol. Assoc., Covington, KY; and (2) Family Practice Grand Rounds, Eglin AFB, Fort Walton, FL (2001).

J. Rothrock. Acute Stroke Treatment: tPA. Stroke Belt Consortium 7th Annu. Mtg., Orlando, FL (2000).

J. Rothrock. Acute and Chronic Treatment of Migraine. Neurol. Ambassador Prog., Atlanta, GA (2001).

J. Rothrock. Migraine-Associated Stroke. Neurology Grand Rounds, Georgetown University, Washington, DC (2001).

R. Zweifler. Invited Speaker. Antithrombotic Therapy for Stroke Prevention. Neurology Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA (2001).

R. Zweifler. Advances in Stroke Prevention and Intervention. Fla. Acad., Physician Assistants Recertification Review and Winter Clin. Symp., Orlando, FL (2001).

R. Zweifler. *The Latest and Greatest in Stroke Prevention and Intervention*. Ala. Soc., Physician Assistants, Mobile, AL (2001).

R. Zweifler. *Stroke Update*. Georgia State Soc., PAs and NPs, Macon, GA (2001).

R. Zweifler. *Advances in Stroke Prevention*. (1) Medical University of South Carolina, Charleston, SC (2001); and (2) Family Medicine Dept., Keesler AFB, MS (2000).

R. Zweifler. *A Novel Method to Induce Mild Hypothermia via Surface Cooling*. Am. Acad. Neurol. 53rd Annu. Mtg., Philadelphia, PA (2001).

V. NATIONAL PROFESSIONAL RECOGNITION.

B.A. Bassam served in the following capacities: Member, AMA Diagnostic and Therapeutic Technology Assessment (DATTA) Subcommittee and Reference Panel; Liaison and Proctor, American Association of Electrodiagnostic Medicine (AAEM) Training Program Self-Assessment Examination (1994-present); and Committee Member, American Association of Electrodiagnostic Medicine (AAEM) Training Program (1999-present).

J.G. Boggs served in the following capacities: Editorial Board, *Epilepsy Currents*; Board of Directors, Atlantic Institute for Clinical Neurophysiology; Epilepsy and Employment Task Force (AES); and Neuropharmacology Task Force (AAN Practice Committee).

W.J. Hamilton served in the following capacities: Advisory Board, Greater Gulf Coast Epilepsy Chapter; and Educational Advisor, Alabama Osteopathic Medical Association.

P. Maertens served in the following capacities: Member of the Editorial Board of the *Journal of Neuroimaging*; and Committee member of the Examination Committee of the Society of Neuroimaging (question design and evaluation for the neurosonology exam).

J. Mendizabal served as an invited member of the National Sub-Committee for Headache Education in U.S. Medical Schools (American Headache Society).

W.J. Nowack served in the following capacities: Board of Directors, ECNS; Editorial Board, *Clinical EEG*; and Editorial Board, *Journal of Computer Science and Information Management*.

R. Zweifler served in the following capacities: Editor, eMedicine Neurology; Fellow, American Stroke Association Stroke Council; Member of the Member Reviewer Network, American Academy of Neurology; National Register's Who's Who in Executives & Professionals; National Registry of Who's Who, Life Member; Royal Society of Medicine, Fellow; Strathmore's Who's Who, Lifetime Member; Stroke Task Force member, American Stroke Association Southeast Affiliate; Alabama Stroke Education Consortium, member, Executive Committee, and Chair of Executive Committee; Alabama Quality Assurance Foundation Stroke/Atrial Fibrillation Study Group, American Heart Association; Member, Alabama Advocacy Committee; and Chair, Operation Stroke (Mobile Region).

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Department of Neurology, has completed one full year in its new office operations at the USA Knollwood Campus. The transition has led to a 10% increase in patients evaluated and has definitely improved our patient mix with regards to insurance reimbursement. Initial difficulties have been corrected, and the clinic operations have markedly improved. In addition, the Department of Neurology has begun admitting patients to USA Knollwood, and the admission numbers are gradually increasing. In conjunction, Dr. Malapira has improved his admissions to the USA Long-Term Care Facility, which assists our department in placing patients. Two of our physicians have left our practice: Dr. Nowack has joined the staff at the University of Kansas at Kansas City; and Dr. Mendizabal has entered private practice in Ocean Springs, Mississippi. This has caused our new patients' being distributed to a smaller number of faculty.

There has been an increase in outside funding, primarily through pharmaceutical sources, for headache and epilepsy. Drs. Malapira and Rothrock, have continued to manage the headache clinic, employing the above research funding. Dr. Malapira, has also begun a Botox treatment program and has already treated several patients, which should enhance his projected charges. Dr. Rothrock has also been appointed the Associate Dean for Clinical Research, which is a 20% commitment. In addition, Dr. Rothrock has also been appointed the editor of the *Headache Journal* and has established an office within our facility. Dr. Bassam continues to perform electromyographic and nerve conduction studies, which is a significant source of revenue. Dr. Boggs, although absent for pregnancy, continues to develop new research protocol for pharmaceutical studies in the treatment of epilepsy. She is complimenting her research by the development of a 24-hour inpatient epilepsy monitoring unit at USAKP, which is now booked in advance. In conjunction, Drs. Boggs and Quindlen have increased their patient numbers of those receiving a vagal nerve stimulator for refractory epilepsy. This novel approach seems to have a niche for some refractory patients. The monitoring of these complex patients is done by Renay Drinkard, a nurse practitioner. Dr. Richard Zweifler, Director of the USA Stroke Center, continues to maintain a prolific record in collaborative and independent clinical research. He also has gained national recognition for his research in stroke and has several ongoing studies in acute stroke treatment and stroke prevention. Dr. Zweifler is assisted by Dr. Malapira and a fellow, Dr. Asim Mahmood. Dr. Hamilton continues to be

the Director of the medical student training program and has been praised for his efforts; Dr. Hamilton has received the red sash from the senior medical students for many years. In addition, Dr. Hamilton is in the planning stages of a multiple sclerosis clinic and, hopefully, will receive outside funding through pharmaceutical companies.

The major thrust for our department is to upgrade our pediatric neurology coverage, as this has become an overwhelming burden, which cannot be satisfactorily covered by Dr. Maertens. Recruitment and/or local assistance, are both being explored.

Our residency training program continues to entice more qualified applicants. Dr. Boggs remains the director of the residency training program, and has organized well, lectures on the neurosciences and clinical neurological applications. Hopefully, our scores on the residency neurology inservice examination will reflect this expanding educational exposure. We are still hampered by not having two PGY I positions, but a solution for this is being explored. Overall, the Department of Neurology has expanded, although we need to recruit a faculty member for epilepsy, and possibly for Pediatric neurology. In conclusion, our department has considerable diversification, increased research activities and funding, and excellence in teaching and neurological care.