

LETTER FROM THE CHAIR

“The Staff” Makes a Difference...Victors for Michigan Neurosurgery



Dr. Karin Muraszko

Dear Friends and Colleagues,

Every encounter within the Health System here at the University of Michigan is punctuated by a human to human contact. It is with this knowledge that we in the Department of Neurosurgery seek in this newsletter to help recognize the many faces of Neurosurgery that are part of the UMHS. Although we have many great surgeons and researchers here within the Department of Neurosurgery that help create our reputation as

a leader of innovation and patient care, there are many other individuals who make up the department. Collectively called “**The Staff**” these individuals are the heart and soul of our department.

The Staff diligently work on a daily basis to see that the operations of the department are carefully achieved. They help to facilitate the transfer of patients and records to the University of Michigan and provide organization to our department in ways that are too numerous to count.

Often, it is these individuals who represent the department on a regular basis to our patients. Whether it is the warmth of a simple “hello” when they greet a patient arriving at the front desk of our clinic or the kindness that is shown to a grieving family member who has had a loved one die at the University Hospital, whether it is our nurses who act as educators and caregivers, or our administrative assistants who help organize our lives while maintaining the highest standards of professionalism for our patients; these staff represent the character and spirit of this department.

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In dealing with the myriad of demands from our patient population as well as physicians and researchers, the staff always seeks to “do the right thing” and are sources of tremendous pride for myself and the entire department. They create a warm and supportive environment for all.

We hope that this newsletter will be enlightening. There are many, many, talented people working here in the Department of Neurosurgery. Because of their talents, their global interests, and their outstanding abilities to teach and treat, we are fortunate that our department is consistently viewed as one of the best departments to call “home” within the institution. Sprinkled throughout this newsletter are vignettes of some of our staff and their stories. Hopefully, it will prove useful and also prove that the true heart of any institution lies within the many hearts of its dedicated, hardworking, kind, and wonderfully caring faculty and staff.

We look forward to helping you explore the many faces of the Department of Neurosurgery here at the University of Michigan. We hope you enjoy the newsletter as we highlight development, research, our clinical endeavors including clinical trials and the accomplishments of our faculty, residents, and staff. Please don't hesitate to call or drop us a line via email.

Sincerely,



Karin Muraszko, M.D.

Julian T. Hoff Professor and Chair

Thank you to all our
faculty and staff

MEDICAL EDUCATION UPDATE

Chief Resident Graduates 2013

Shawn Hervey-Jumper, M.D. and Emily Levin, M.D.

One of the highlights of each academic year is to gather and celebrate the graduation of the chief residents as they complete their seven-year neurosurgical training program. On Saturday, June 15, 2013, faculty, residents, staff, friends and family gathered in the beautiful Omenn Atrium of the Biomedical Science Research Building for an evening of recognition and celebration honoring Drs. Shawn Hervey-Jumper and Emily Levin. The evening was true to form with poignant speeches, laughs, tears and, of course, the historical “roasting” of the chiefs by the junior residents.

Both Drs. Hervey-Jumper and Levin took the opportunity to further enhance their education with subsequent fellowships, both at the University of California, San Francisco (UCSF). Dr. Hervey-Jumper is in the midst of a one year neuro-oncology fellowship working with Dr. Mitchel Berger, and Dr. Levin, doing a one year functional neurosurgery fellowship under the tutelage of Dr. Philip Starr.



Chief Graduate Shawn Hervey-Jumper, M.D.
Program Director, B. Gregory Thompson, M.D.
Chief Graduate Emily Levin, M.D.

PROGRAM DIRECTOR'S CORNER

SAVE THE DATE: 1st Annual Neurosurgery Resident Research Symposium

Mark your calendar for the first annual Neurosurgery Resident Research Symposium to be held on May 23, 2014 in the Biomedical Science Research Building, Kahn Auditorium. We are pleased to have Dr. Michael T. Lawton, Professor and Vice Chair of Neurosurgery at University of California, San Francisco, as our inaugural speaker. Dr. Lawton is also our 2014 Elizabeth Crosby Visiting Lecturer. We are delighted that Dr. Lawton is joining us in both capacities. This first annual Neurosurgery Resident Research Symposium has been established to stimulate and promote our residents' academic productivity.

Intern Skills Month Update

The Neurosurgery Intern Skills month is now in its fifth year of training our first year neurosurgery residents (interns). This year's content included several procedural simulations (from cricothyroidotomy to cerebral angiogram), several workshops (from suturing to neuroanatomy), multiple neurological exam and radiology didactic lectures, and five practicums (order writing, end of life, ventilator introduction and basics of EEG). The interns also received practical experience in rounding, dictating, scrubbing into the OR, and shadowing an on-call resident. Overall, the Intern Skills Month has grown into a one-of-a-kind powerhouse of preparation for the transformation of interns into prepared residents.

The Next Accreditation System

In preparation for the Accreditation Council for Graduate Medical Education's (ACGME) next accreditation system, various specialty groups have developed outcomes-based milestones for resident performance within the six domains of clinical competence. The Milestones Project was developed to give residents more timely and granular feedback regarding the trajectory of their professional development in their specialty. One of our neurosurgical alumni, Dr. Nathan Selden (residency 1993-1999), was tasked with chairing The Neurological Surgery Milestone Project, and two of our current faculty, Dr. Karin Muraszko and Dr. Oren Sagher, were members of the Neurological Surgery Milestone Working Group and were authors on the final document jointly approved by the ACGME and the American Board of Neurological Surgery.

As part of this new evaluative process, Clinical Competency Committees (CCC) were formed to assess resident performance milestones on a biannual basis. To educate faculty within our department on the new CCC process, we convened clinical and research faculty in June 2013 for several meetings. During these meetings, each resident was assessed on each milestone for the previous six month period. Subsequent to those initial meetings, senior faculty were appointed to the official CCC and that group is scheduled to meet again in December to complete the second biannual milestone assessment of each resident. These first two rounds of assessments will be submitted by December 31st when the first report is due to the ACGME.

“A clear demonstration of the department's dedication to our education can be shown by the scheduled didactic sessions with the leaders from other departments here at U of M.”

— Brandon Smith, MD, MS, PGY 1 Resident

NEW NEUROSURGERY RESIDENTS 2013

We are pleased to announce the 2013 arrival of Drs. Todd Hollon, Jay Nathan, and Brandon Smith to our residency training program.



Todd Hollon, M.D.

Medical School: Ohio State University
Undergraduate: University of Michigan
Hometown: Ionia, Michigan

Why Neurosurgery? I knew before I entered medical school that the brain and nervous system was the organ system that fascinated me the most and the area of medicine that I wanted to dedicate my life to. I developed a special interest in brain tumors and decided that the best way to pursue my interest was through neurosurgery. Since that time I have developed a broader interest in neurosurgery as a whole. I enjoy coming into the hospital every day because of the patients we have the opportunity to treat and it is a pleasure being around my co-residents and faculty.

Why UM? In addition to having national prestige, the University of Michigan Department of Neurosurgery was a place I felt most at home. Being both a Michigan native and getting a strong sense of family within the department, I knew that it was a place I would be happy to spend seven years in training. As a resident, we get outstanding clinical experience, as well as ample research opportunities to explore our own interests.

Hobbies or Interests: I spend the majority of my free time reading, watching movies, spending time with my fiancée and co-residents.



Jay Nathan, M.D.

Medical School: Stanford University School of Medicine
Undergraduate: University of California, Berkeley
Hometown: San Diego, California

Why Neurosurgery? I've been fascinated by neuroscience for as long as I can remember. Learning more about it was never tiring, as new knowledge only bolstered my curiosity. And whether it was building models as a child or working in lab as an undergrad, I found great enjoyment in methodically following steps to perform a manual task. Upon entering medical school, I gravitated toward neurosurgery as a way to combine these passions. The research projects I became involved with were captivating, but once I experienced the operating room and clinical neurosurgery, I was sold.

Why UM? Community. From just a brief introduction to the department during my interview, I could tell that the collegiality of the program was genuine. Neurosurgery residency is a long, arduous process, as it should be, but I knew that if I were fortunate enough to work here, I would be supported by faculty and fellow residents as much as possible. Combined with the breadth of exposure to clinical and academic neurosurgery, I could ask for no better place to train.

Hobbies or Interests: Prior to starting medical school, I earned my private pilot license, and aviation has always been a love of mine. I've had many memorable flights, including a round-trip between San Diego and Charlotte, North Carolina. The most rewarding aspect of flying has been sharing the skies with friends and family.



Brandon Smith, M.D., M.S.

Medical School: University of Michigan
Graduate School: University of Michigan
Undergraduate: Alma College
Hometown: Alcona County, Michigan

Why Neurosurgery: After spending a week with the pediatric neurosurgeons in medical school, I knew that I had discovered my life's work. Neurosurgery combines the patients that I'm passionate about treating, the topics that I'm obsessed about learning, and techniques that are constantly progressing and pushing boundaries.

Why UM: As a 4th year medical student I rotated at two other institutions and interviewed at many more. When I came back to Michigan for my formal interview, I knew that I was home. I could not find another institution with the same mixture of both clinical excellence and departmental camaraderie. I knew that training at Michigan would give me the opportunity to become the best possible surgeon that I can be.

Hobbies or Interests: During my free time, I often find myself on the river, either chasing fish or simply enjoying nature. I also enjoy cooking, watching movies, and spending time with my friends.

FELLOWSHIPS

Complex and Reconstructive Spine Surgery



We are pleased to welcome **Chad Farley, MD** as a Clinical Lecturer in the Department of Neurosurgery from July 1, 2013 through June 30, 2014. Dr. Farley is with the Neurosurgery Service in a clinical fellowship in complex and reconstructive spine surgery. Dr. Farley received his Bachelors of Science Degree with Honors from the University of Arizona where he graduated magna cum laude. He attended medical school at that same University, receiving his MD degree with AOA honors in May 2007. He completed his residency training at the University of Cincinnati, Department of Neurosurgery, in June of this year. Dr. Farley is focusing on learning sophisticated spinal surgery techniques under the direct supervision of Dr. Frank La Marca, with assistant supervision by Dr. Paul Park. His clinical interests include tumors, trauma, degenerative disease, spinal surgery for scoliosis and kyphosis, artificial disc replacement and minimally invasive spinal techniques.

Cerebrovascular Fellowship



We are delighted to have **Dr. Christopher Roark** join us for a 24-month educational clinical cerebrovascular neurosurgery fellowship. Dr. Roark received his Bachelor of Arts degree from the University of Kansas in May of 2000. He then attended medical school at that same institution from 2001 through 2005. He subsequently completed a one year general surgery internship at Hennepin County Medical Center in Minneapolis and then entered the University of Minnesota's residency training program in neurosurgery, which he successfully completed in June of 2011. After graduation he was a practicing neurosurgeon at the University of Minnesota before joining us at the University of Michigan in 2013 for the two-year fellowship. Dr. Roark is focusing his time on learning sophisticated neurovascular techniques. He is under the direct supervision of Drs. Greg Thompson and Aditya Pandey. His clinical interests include AVMs, pharmacologic VTE prophylaxis in neurosurgical patients and evidence-based medicine.

Neurocritical Care



We are pleased to have **Dr. Craig Williamson** join our department as our second Neurocritical Care Fellow. Dr. Williamson will be with us for a two-year fellowship running from July 1, 2013 through June 30, 2015. He attended medical school at the University of California San Francisco, receiving his MD degree in June 2009. He subsequently did an Internal Medicine internship from 2009 to 2010 at Alameda County Medical Center in Oakland, California followed by his neurology residency training at Massachusetts General Hospital and Brigham and Women's Hospital in Boston for which he graduated this past June. Dr. Williamson works under the direct supervision of Drs. Teresa Jacobs and Krishna Rajajee learning the diagnosis and treatment of critically ill neurosurgical and neurological patients. He is participating in learning diagnostic pathways, bedside surgical procedures, and advance treatment strategies for intensive care patients. Dr. Williamson's clinical interests include the evaluation and treatment of seizures in the ICU as well as ICU care in the developing world.

Residents Retreat to Harbor Springs

The Neurosurgery Residents along with their Program Director, Gregory Thompson M.D., took a Fall Retreat to beautiful Harbor Springs in northern Michigan. Dr. Thompson and his wife, Ramona, hosted the weekend event. The retreat not only served as a tremendous team-building activity, but it also provided a much-needed and relaxing get-away for our hard-working residents.



MEDICAL EDUCATION AWARDS

Chandler-McGillicuddy Resident Leadership Award Shawn Hervey-Jumper, MD

New this past year was the establishment of the Chandler-McGillicuddy Resident Leadership Award. Drs. Chandler and McGillicuddy have been paragons of professionalism for U-M Neurosurgery Residents for many years. As Dr. Chandler joined Dr. McGillicuddy in retirement, the department sought to honor their legacy by establishing an annual Chandler-McGillicuddy Resident Leadership Award. This award recognizes a resident who exhibits exemplary leadership in maintaining the highest standards of professionalism, so evident in the practices of Drs. Chandler and McGillicuddy. The award will annually serve as a fitting complement to the Hoff Teaching Awards.

Julian T. Hoff Teaching Award Steve Sullivan, MD

The Julian T. Hoff Teaching Award is given each year to a junior faculty member within the department with an exemplary record in teaching our residents.

Max Peet Resident Teaching Award Shawn Hervey-Jumper, MD & Emily Levin, MD

The Max Peet Teaching Award is given annually to a resident who has distinguished themselves in the arena of teaching other residents and medical students.

Friend of Neurosurgery Award Jonathan Trobe, MD

The Friend of Neurosurgery Award is given each year to a faculty member outside of our department who is instrumental in teaching our neurosurgical residents.



Visiting Professors

Edgar Kahn Visiting Professor

2012 **Jacques Morcos, MD**, Professor of Clinical Neurosurgery and Otolaryngology, University of Miami. Titles (1/31/13): (1) "Cerebral Veins: Friends or Foes" (2) "Cavernous Sinus Surger: Myth or Reality?" (3) "Surgical Approach to Anterior Skull Base Tumors: Endonasal Endoscopic or Transcranial?"

2013 **Ziya Gokaslan, MD**, Donlin M. Long Professor, Vice Chairman Department of Neurosurgery, and Director, Neurosurgical Spine Program, Johns Hopkins University. Title (8/8/13): "Current Surgical Treatment of Spinal Neoplasms"

James Taren Visiting Professor

2012 **Dennis Spencer, MD**, The Harvey and Kate Cushing Professor of Neurosurgery Chairman, Department of Neurosurgery, Yale University School of Medicine. Title (2/28/13): "Intracranial Electrodes"

Dr. Spencer's wife, **Mary Louise Spencer**, Executive Director of the American Board of Neurological Surgery, accompanied Dr. Spencer and gave a lecture entitled "How to Become Certified and Enter MOC"

2013 **Martin Weinand, MD**, FACS, Program Director and Associate Chief Division of Neurosurgery, The University of Arizona Health Sciences Center. Title (8/22/13): "Surgical Treatment of Medically Intractable Temporal Lobe Epilepsy"

Elizabeth Crosby Visiting Professor

2013 **R. Shane Tubbs, MS, PA-C, PhD**, Director of Research Section of Pediatric Neurosurgery, Children's Hospital, Birmingham, AL. Title (5/9/13): "Reverse Translational Research in Neuroanatomy: Quo Vadis?"

Joan Venes Visiting Professor

2013 **Mark Souweidane, MD, FACS, FAAP**, Professor and Vice Chairman, Director, Pediatric Neurosurgery, Department of Neurological Surgery, Weill Medical College. Titles (5/30/13): (1) "Optimizing Local Drug Delivery in Children with Diffuse Intrinsic Pontine Glioma" (2) "A Reappraisal of Colloid Cyst Management in the Endoscopic Era"

Julian T. Hoff Visiting Professor

2013 **James Markert, MD**, Division Director, Neurosurgery, James Garber Galbraith Professor of Neurosurgery, Physiology and Pediatrics, and Cell Biology, University of Alabama, Birmingham. Titles (9/5/13): (1) "The Odyssey-Development of oncolytic viruses as potential therapeutics to improve outcomes in malignant glioma" (2) "Outliers- Increasing neurosurgical resident participation in research"

RESIDENT NEWS AND NOTES



Wajd Al-Holou, MD was awarded the Congress of Neurological Surgeons Tumor Fellowship. Dr. Al-Holou was one of 36 residents selected to participate in the AANS Fundamentals of Spinal Surgery Course (November 14-16, 2013) in Houston, TX.



Nicole Bentley, MD received the Society of Neurological Surgeons Research Update in Neuroscience for Neurosurgeons (RUNN) Award for her project, *Optogenetic alteration of proprioceptive inputs to motor cortex for the development of neuroprosthetic devices*.



Brandon Smith, MD, MS received the Department of Neurosurgery's Edgar A. Kahn Award for Excellence in Neurosurgery. This award is given at commencement each year to a graduating medical student for outstanding performance during their clinical and laboratory experience.



Jennifer Strahle, MD participated on an NIH T32 training grant, Training in Clinical and Basic Neurosciences. In addition, Dr. Strahle presented "Early treatment of neonatal intraventricular hemorrhage-associated hydrocephalus with systemic deferoxamine" at the 2013 AANS/CNS Section on Pediatric Neurological Surgery Meeting and was the recipient of the 2013 Hydrocephalus Association Award.



Anthony Wang, MD was awarded the Best Basic Science Paper at the North American Skull Base Society Meeting in Miami, FL in February, and received a Public Service Citation from the American Association of Neurological Surgeons. In addition, Dr. Wang was awarded a Michigan Institute for Clinical and Health Research (MICHR) Pilot Grant in 2013.



TJ Wilson, MD has been selected to participate on an NIH T32 training grant, Training in Clinical and Basic Neurosciences, with support from 7/1/13 through 6/30/14.

2nd Annual U-M and OSU Cranial Base Cadaver Course



On February 22 and 23, 2013, the second annual University of Michigan and Ohio State University cranial base cadaver course was held for the residents from the respective institution's Departments of Neurosurgery. The first course was held in Ann Arbor in 2012, and OSU reciprocated by hosting our residents this year. Several of our residents, along with a few faculty, made the trip to Columbus on Friday evening and attended the OSU vs. U-M hockey game in a beautiful suite at the Schottenstein Center. On Saturday, various skull base approaches, including open and endonasal, were taught in lecture format followed by practical, cadaveric dissection sessions at the skull base lab. The course also included a 3D skull base anatomy demonstration. The intensive course was a great mix of medical education and hands-on surgical training.

The third annual course is scheduled back in Ann Arbor for 2014 where the "rivalry" will continue with more education, training and social events. As a side note, U-M athletic teams are now 2 for 2, with victories in both 2012 and 2013 at the sporting events attended by the residents from these two institutions...let the tradition continue, and Go Blue!!!

STAFF KUDOS



Becky Sigler was promoted to Executive Assistant in January. In her new role, Becky provides administrative support to the Chair and Chief Department Administrator in the Department of Neurosurgery.



Dawn Johnson, Operations Manager, graduated from Cleary University in June 2013 with a Bachelor of Business Administration in Business Management.

INAUGURAL SAEED M. FARHAT M.D. ENDOWED LECTURE



The first Saeed Farhat M.D. Endowed Lecture took place on June 27, 2013. Dr. Steven Swanson was the inaugural speaker and he gave an inspiring lecture entitled, *“Physician Leadership: A Trilogy (mentorship, leading in ambiguity, the patient).”* The evening preceding Dr. Swanson’s lecture, faculty, residents, colleagues and friends of neurosurgery enjoyed an informal dinner.

Dr. Swanson trained in neurosurgery at the University of Michigan (1980-1985) and joined Dr. Farhat in practice at St. Joseph Mercy Hospital upon graduation. After many years in Ann Arbor, Steve migrated to a Mayo Clinic facility in Eau Claire, Wisconsin, and took a job as President of the Nasseff Neuroscience Institute in Minneapolis. He provided leadership during his many years of full time practice and now provides even greater leadership in his role of as a full time president and a part time practicing neurosurgeon.

The Saeed Farhat, M.D., Endowed Lecture Fund will be used to support one or more annual lectures, not only to benefit the U-M Department of Neurosurgery, but also for any department within University of Michigan, St. Joseph Mercy and the greater Ann Arbor medical community. Dr. Farhat says “the lectureship will further strengthen the positive relationship between St. Joseph Mercy and the U-M,” a partnership for which he served as a bridge for more than 30 years.

True to his belief in providing “quality care that patients deserve,” Dr. Farhat wants the subject to appeal to a broad range of physicians, with the primary focus of the lectures to be on topics such as ethics in medicine, pros and cons of health care reform, and training of students and residents to understand the business focus of neurosurgery. To those of you who contributed to the endowment for this lectureship, we are extremely grateful. We look forward to many years of inspiring talks on the science and art of medicine. We were delighted to honor Dr. Farhat and to have Dr. Swanson as the inaugural lecturer.

Decades of Legendary Service

A legend in Neurosurgery in Ann Arbor and around the world, Saeed M. “Sid” Farhat, M.D. (Residency 1964), has been an important part of the U-M Medical School for more than four decades as a dedicated teacher and surgeon.

Among his career achievements, Dr. Farhat established the first Neurosurgery service at St. Joseph Mercy Hospital and served as Chief of the service for 34 years. At the same time, he was a part-time Clinical Professor in the U-M Department of Neurosurgery, and accepted a full-time position here in 1998 following his retirement from St. Joseph Mercy.

Dr. Farhat also maintained a private practice and treated patients with a variety of conditions, including vascular lesions, tumors of the brain, and surgical lesions of the spine. A respected mentor and sought-after teacher, he trained more than 60 neurosurgeons during his distinguished career and influenced the career paths of many more medical students.

“I was both pleased and honored to be asked to deliver the inaugural Saeed M. Farhat, MD Endowed Lecture at the University of Michigan Department of Neurosurgery on June 27th, 2013. Mary and I enjoyed the opportunity to connect with friends and colleagues at the reception for donors at Barton Hills Country Club the evening before the lecture and with the University of Michigan Neuroscience community the next morning. Dr. Muraszko and Dr. Thompson planned an outstanding program and I felt very welcomed to the Department. I rotated on Dr. Farhat’s Neurosurgery service at St. Joe’s in 1980 and 1981, and then practiced with him from 1985 until his retirement from the Michigan Brain and Spine Institute in 1998. Sid was my mentor in practice, colleague in the hospital, and close personal friend for life. He and Dorothy graciously included us in many of their family gatherings, and he has always provided me guidance as my career took me back home to Minnesota. We look forward to returning to Ann Arbor on an annual basis to attend the future Farhat Lectures; and I will always consider the invitation to present this lecture as one of the highlights of my neurosurgical career.”

— Steven Swanson, MD, FAANS, FACS President, John Nasseff Neuroscience Institute, Allina Health

“Sid is one of the gentlemen of Neurosurgery who ably serves the long traditions of outstanding Neurosurgery here at Michigan. I have seen Sid survive complex and difficult patients, overcome his own physical limitations and, most importantly, help our residents find an appropriate and balanced approach to patient care.”

— Karin M. Muraszko, MD, FACS, Julian T. Hoff Professor of Neurosurgery Chair of the Department of Neurosurgery

FACULTY UPDATE

Welcome Faculty



Shawn Hervey-Jumper, M.D.

Dr. Hervey-Jumper has been appointed Clinical Instructor in the Department of Neurosurgery. During his first year, he will be engaged in a fellowship in neuro-oncology at the University of California, San Francisco (UCSF), to focus on the diagnosis and treatment of brain tumors. He will be working with Dr. Mitch Berger, Chair of the Department of Neurosurgery, at USCF and one of the nation’s leaders in neuro-oncology. Upon completion of his one-year fellowship, he will return to the University of Michigan to begin a clinical practice in neuro-oncology in the Department of Neurosurgery.

Dr. Hervey-Jumper is a native of Boston Massachusetts and attended Oakwood University followed by medical school at the Ohio State University College of Medicine, graduating magna cum laude. He has achieved numerous academic, research, and teaching awards including the Alpha Omega Alpha Medical Honors Society, Landacre Research Honors Society, Phi Kappa Phi Honors Society, National Scholars Honor Society, Arnold G. Coran Teaching Award, Ruben J Williams (RJW) Foundation Health Policy Scholar, Neurosurgery Research and Education Foundation (NREF)/American Academy of Neurological Surgery (AAcNS) Research Fellowship, and Congress of Neurological Surgeons (CNS) Wilder Penfield Fellowship Congress of Neurological Surgeons (CNS) Wilder Penfield Fellowship. His clinical and research interest are in the development of novel therapeutics for the treatment of malignant central nervous system tumors, the delivery of oncologic care to diverse populations, and in healthcare policy. He has numerous scientific publications and has authored several book chapters. With a commitment to community health and injury prevention he narrated and appeared in *Shattered Dreams*, a diving injury prevention video which was the recipient of 3 national awards including the 2009 Cine Golden Eagle Award and the 2010 Telly Award. Throughout his journey, Dr. Hervey-Jumper has recognized the influence that quality education and mentorship has had in his life. During his Residency, he co-founded STAT - Residents in the Classroom, a program aimed at supporting the local underfunded public education system through providing direct assistance to science, math, and technology teachers.

Dr. Hervey-Jumper has a significant interest in research. The goal of his early research will be to establish a strong academic portfolio with respect to brain tumors basing it on the research that he already started as a Resident here at the University of Michigan. Dr. Hervey-Jumper will help develop the brain tumor program through community outreach and development of clinical trials within the Department of Neurosurgery. Dr. Hervey-Jumper’s aspirations as a clinician-scientist comprise of a well thought out plan which include many necessary building blocks that allow him to develop his role as a clinician, researcher and teacher.



Kyle Sheehan, M.D.

Dr. Sheehan was recently appointed as Clinical Instructor in the Department of Neurosurgery. Dr. Sheehan was our first neurocritical care fellow (24-month clinical fellowship) and completed the fellowship in June, 2013. Dr. Sheehan focused his training on learning the diagnosis and treatment of critically ill neurosurgical and neurological patients. Upon completion, Dr. Sheehan received a faculty appointment and seamlessly stayed on the Neurosurgery Service.

Dr. Sheehan attended medical school at the Indiana University School of Medicine receiving his MD degree in May 2007. He subsequently did an Internal Medicine internship from 2007 to 2008 at St. Joseph Mercy Hospital followed by his neurology residency training here at the University of Michigan from which he graduated in June 2011. Dr. Sheehan’s time here at the University of Michigan is focused on learning the diagnosis and treatment of critically ill neurosurgical and neurological patients. He is partnering with Dr. Teresa Jacobs and Dr. Venkatakrisna Rajajee in the Neurosurgical Intensive Care Unit. Dr. Sheehan is playing a role in the teaching of our neurosurgery residents, as well as neurology residents, anesthesia interns, orthopedics interns, otolaryngology interns, plastic surgery residents, medical students, and paramedical personnel rotating through the Neurosurgery Service and Neurosurgical Intensive Care Unit (NICU). His interests include general neurological critical care, management of status epilepticus, and the reduction of procedure-related complications. Dr. Sheehan is a fantastic physician who is held in high regard by his peers and patients. He is a skilled neurologist who has managed difficult neurological conditions commensurate with his level of training.

FACULTY NEWS & NOTES



Jason Heth, M.D. was promoted from Clinical Assistant Professor to Clinical Associate Professor. Dr. Heth has successfully launched a vaccine trial for glioblastomas.



Pedro Lowenstein, M.D., Ph.D. was appointed by the Board of Regents as the Richard Schneider Collegiate Professor. This appointment was effective October 1, 2013. As a Co-investigator, he has launched the first human trial of retro viral therapy for glioblastoma.



Venkatakrisna Rajajee, M.B.B.S. was promoted from Clinical Assistant Professor to Clinical Associate Professor.



Oren Sagher, M.D. was appointed by the Board of Regents as the William F. Chandler Collegiate Professor of Neurosurgery. This appointment was effective September 1, 2013.



Stephen Sullivan, M.D. was promoted from Clinical Assistant Professor to Clinical Associate Professor. He has taken over the multidisciplinary Pituitary Program from Dr. William Chandler.



Cormac Maher, M.D. was appointed Vice-Chair of Quality Outcomes for the Department of Neurosurgery and also Chairs the Outcome Committee.



Daniel Orringer, M.D., co-authored a paper, featured on the cover of the journal *Science Translational Medicine* (4 September 2013; Vol. 5, Issue 201). The team of University of Michigan Medical School and Harvard University researchers describes how a new laser-based technique allows them to “see” the tiniest areas of tumor cells in brain tissue.



Ariel Barkan, M.D. was elected President of The Pituitary Society. The Pituitary Society is a large international organization that brings together basic scientists as well as clinical endocrinologists, neurosurgeons and neuropathologists whose major interest is in pituitary diseases. Dr. Barkan has a joint appointment in the Department of Internal Medicine and the Department of Neurosurgery.



Maria Castro, Ph.D. was appointed by the Board of Regents as the R.C. Schneider Collegiate Professor. This appointment was effective October 1, 2013. As a Co-investigator, she has launched the first human trial of retro viral therapy for glioblastoma.



Jonathan D. Trobe, M.D. was the 2013 recipient of the Kaiser Permanente Clinician Award for Excellence in Teaching. The Kaiser Award is the most prestigious teaching award given by the U-M Medical School. Dr. Trobe has a joint appointment in the Department of Ophthalmology and Visual Sciences, and the Department of Neurosurgery.



Hugh J. L. Garton, M.D. was appointed by the Board of Regents as the Richard C. Schneider Professor of Neurosurgery. This appointment was effective October 1, 2013. Additionally, Dr. Garton received the Dean's Outstanding Clinician Award. This award recognizes the exemplary performance of a practicing clinician or program leader of innovation in clinical care.



George Mashour, M.D., Ph.D. was promoted from Assistant Professor to Associate Professor in both the Department of Anesthesiology and Neurosurgery. Dr. Mashour has a joint appointment in the Department of Anesthesiology and the Department of Neurosurgery.



MEDICAL SCHOOL
UNIVERSITY OF MICHIGAN

STAFF FOCUS

Welcome to U-M Neurosurgery



Ron Ball

Ron joined the department in October as a Clinical Research Coordinator. He worked for Henry Ford Health System as a Clinical Trial Coordinator for over eight years, managing multiple clinical trials studying alternative and integrative treatments for chronic pain, stress, and stress-related ill-health conditions. He also has experience working for Blue Cross Blue Shield of Michigan on the Collaborative Quality Initiatives team, where he provided oversight of numerous initiatives that enhance clinical quality, decrease complications and costs, eliminate errors, and improve patient health outcomes. He graduated from the University of Michigan-Dearborn with a dual bachelor's degree in biochemistry and psychology. He has one son, Noah, who turned three years old on Halloween. In his spare time, Ron enjoys spending time with his friends and family, taking walks, reading, and going to concerts.



Marta Dzaman

Marta joined the labs of Maria Castro Ph.D. and Pedro Lowenstein, M.D., Ph.D. in January as a Laboratory Specialist. Marta has an M.D. from the Medical Academy of Lublin, Poland. After moving to Michigan, she worked in Immunohistochemistry, Department Of Pathology, UMHS. She later moved on to research and has work in several laboratories in various capacities, including the following Departments: Otolaryngology, Cell and Developmental Biology, Pediatrics and Pulmonary Medicine, and Internal Medicine and Genetics. In her current laboratory role she is responsible for all aspects of histology, immunohistochemistry, and microscopy. She is the lab's expert for sample preparation and imaging on the Sigma 3View Scanning Electron Microscope.



Tara Egnor, N.P.

Tara Egnor is one of our new Nurse Practitioner's in the Pediatric group. She started in February and is greatly enjoying her new role as a Practitioner. Tara started her nursing career here at Mott Children's Hospital in 2001 where she worked as a floor nurse on 6 MOTT and PCTU for a total of 4 years. She then spent the next 6 years as a travel nurse at various pediatric hospitals around the country with frequent appearances in the PICU and PCTU of Mott. Tara received a Master in Nursing from the University of Pennsylvania. In addition to her experience as a travel nurse here in the states, Tara has also participated in Mission trips in Pakistan, Siberia and the Dominican Republic. Tara has been a faithful volunteer for the past 11 years at Trail's Edge Camp a week long sleep away camp for ventilator dependent children. When not working as a nurse Tara's greatest love is her two nephews whom she visits in Atlanta is often as possible.



Thomas Ferguson, N.P.

Tom has been a Nurse Practitioner with the department since January of this year. Prior to this new role he had been a Registered Nurse in the Neurosurgical ICU here at U-M for the previous six years. Tom has a Master in Nursing from Michigan State University as well as undergraduate degrees from Wayne State University and the University of Michigan. He and his partner of 25 years currently share their home with two Labrador Retrievers and a Bernese Mountain Dog. In his spare time he enjoys many outdoor activities, especially gardening and landscaping on eighteen acres of rural land where he lives.



Sharon Fix

Sharon has been with the department since August of 2012 working as a Medical Assistant. She graduated from Career Quest Learning Center in June 2012 obtaining her RMA as well as certifications in Electronic Health Records, Phlebotomy, Billing and Coding and EKG. She has three children; Bethany (11), Rickey (7), and Melody (6). In her spare time she enjoys swimming, fishing, and kayaking.



Megan E. B. Foldenauer, Ph.D., CMI

Megan has been with the department since July. She defended her dissertation in December 2012, completing her fourth and final degree, a Ph.D. in Anatomy from Wayne State University, School of Medicine. Previously, she has been a staff certified medical illustrator at the Anatomical Chart Company in Chicago, a Visiting Instructor of Anatomy at Purdue University and Eastern Michigan University. She owns a biomedical illustration company, Megalo-Media Illustration, and it recently celebrated its 12th anniversary. She is married to Eric and they have one son, Magnus (3½). In her spare time, Megan is the President and a skater for the local roller derby league, the Ann Arbor Derby Dimes, works on her family's genealogy, draws everything, drinks Diet Coke, and obsesses over music, good food, and science.

CONTINUED FROM PAGE 11



Bret Hendrickson

Bret began working with the Department in May of 2011 as a student intern, and in 2013 he became a permanent employee in the outpatient clinic serving as a Patient Services Associate. Bret grew up in Saline, MI, but ventured to The University of South Florida (USF) where he received a degree in Psychology. While at USF, he worked at the Medical School as a Standardized Patient to provide clinical encounters for medical school students. In his spare time you can find Bret out on the lake during the summer and on the slopes in the winter!



Kelly Lupo, MS, PA-C

Kelly earned her degree from Nova Southeastern University in Fort Lauderdale, FL in 2000. She joined the Neurosurgery Department in January 2013. She spent the first 12 years of her career at the Henry Ford Health System. She comes to us with extensive experience in all phases of Neurosurgery, which included working closely with a Fellowship trained DBS Neurosurgeon. Kelly and her husband, Christian, originally hail from the Upstate New York region. In her spare time, she enjoys cooking, playing golf, and spending time with her husband.



Marty Mangum, N.P.

Marty is a recent addition to the Neuro-ICU team this past September. She most recently worked in the Cardiovascular ICU as a nurse during the last few years. Though she is a native of North Carolina, she has been at U-M since the beginning of 2008. She attended Madonna University for her Acute Care Nurse Practitioner education. Spare time is a new concept after completing her master's degree, so she now enjoys reading for pleasure, trying new things, re-establishing her love-hate relationship with running and working out, and wants to travel the world.



Jennifer Nordin, N.P.

Jennifer is one of the new Nurse Practitioner's in our Pediatrics department. Jennifer began her nursing career in 1992 after graduating from Lake Superior State University. She then joined the United States Navy Nurse corps and was active duty for nearly five years. After her service commitment, Jennifer spent several years working in Pediatric Emergency Departments in Milwaukee and Chicago. She spent several years on the other side of Lake Michigan and returned in 2003, and spent a short period working in the Emergency Department at both Children's Hospital of Detroit and William Beaumont Hospital. She began her University of Michigan career in the PICU in 2005 and has also worked in Pediatric Dialysis and the Mott PACU. She has utilized her nursing skills while on medical missions with Operation Smile in Cambodia and India. She obtained her master's degree in nursing from Wayne State University in August of 2012 and started with Neurosurgery in January of this year. Jen is very excited working with the Pediatric Neurosurgery team. When not working, Jen enjoys spending time with her niece, Kate; nephew, Hayden; and her beloved boxer mix, Bella. She also likes to spend time with friends, riding her bike, running 5k's, eating and traveling!



Jill Seary, R.N.

Jill started in the Outpatient Neurosurgery Clinic as our phone triage nurse in January 2013. Prior to starting in this position, she worked in the Transplant Clinic as a Research Nurse. She worked in the U-M Hospital operating room for the neurosurgical service from 2003-2010. In her spare time, she enjoys spending time with her family, watching Detroit Tigers baseball, and listening to country music.



Nancy Thomas, Ph.D., N.P.

Nancy has been with the Neurosurgery Department, Spine Division, since November 2012. Before moving to Michigan earlier in 2012, she lived in Arkansas for 15 years working in a collaborative private practice environment specializing in Neurology, Pain Medicine, and Sleep Medicine. She earned her PhD and MSN during that time at the University of Arkansas for Medical Sciences. She achieved her BSN at Indiana University. She currently resides with her fiancée in Ann Arbor. For pastime, she enjoys running, music, and traveling.



Brianna Williams

Brianna has been with the department since September 2012. This past March she was hired in to full-time position and as an Administrative Assistant working with Dr. Jason Heth and Dr. Oren Sagher. Previously, Brianna had worked in the inpatient units as a Monitor and EKG Technician at both The University of Toledo Medical Center and Mercy Memorial Hospital collectively for 5 years. Brianna attended Monroe County Community College where she obtained a degree in Applied Science. She is currently learning to speak Italian and has a very spoiled 4-year old toy poodle named Harlow. In her spare time, Brianna enjoys traveling, archery, running and playing guitar.

Adult Neurosurgery Clinic Staff Makes The Grade

The Adult Neurosurgery Clinic staff is comprised of a team of eleven caring and dedicated individuals. **Suzanne Angell, Bret Hendrickson, Pat Kaminsky and Dianna Miller** welcome and assist patients at the front desk. **Sherrill Bird, Sharon Fix, Gloria Haralson and Kathleen Meadows** are the medical assistants who provide patient intake and support for the neurosurgery and pre-op providers staffing the clinic on a daily basis. **Cecelia Hibbert** juggles the patient film loading process, often with the help of Bret Hendrickson. **Amy Steinacker** helps to manage the schedules and work flow in the clinic. The entire clinic staff has done a tremendous job this year of adapting to and fulfilling the increased expectations and duties generated with the addition of the Pre-Operative Surgery Clinic

The new Taubman Center Pre-Operative Surgery Clinic opened its doors within the adjacent space of our Adult Neurosurgery Clinic. This on-site clinic serves as an extension of the Domino's Farms Pre-Operative Clinic and offers the same high level of services (with one exception,

the capability of an on-site anesthesia consult). Patients on the hospital campus have the convenience of a same day pre-operative evaluation on-site. The Pre-Operative clinic is staffed by ten Surgery Physician Assistants who rotate through the clinic on a weekly basis.

The front desk team does a terrific job with the Revenue Cycle Clinic Payment Collection and Reconciliation Process, consistently maintaining "A" status on the Monthly Grade Reports. With the added duty of performing EKGs for patients in the clinic, the medical assistants impressed all this year. Their ability to coordinate patient flow within the clinic, and skillfully maintain this challenging process, is simply amazing. The film loading team loaded an impressive total of over 5,000 radiologic exams this past year! Their ability to adapt to a multitude of file formats and systems, yet still find a way to get the films loaded and ready for patient visits in clinic is remarkable and adds value to the clinic's patient flow and evaluation.

Caring, dedicated, and skillful.

Adaptive, efficient, productive.

Monthly Grade Reports "A" Status.

5,000 radiologic films uploaded this year.

Together, making it work.



“The Team, The Team, The Team”

— Bo Schembechler

Pediatric Ambulatory Care Unit Flourishes with Interdisciplinary Approach

The Department of Neurosurgery is committed to providing pediatric patients with compassionate and quality care. We offer a variety of specialized clinical programs to treat pediatric patient conditions. Our Pediatric Neurosurgeons and their colleagues from various medical disciplines offer top-tier clinical care in multiple areas, including but not limited to; Brain Tumor and CNS Tumor Clinic, Craniofacial Anomalies Clinic, Myelomeningocele Clinic, Pediatric Spine Clinic, and Pediatric Medically Refractory Epilepsy Clinic. All of our interdisciplinary pediatric clinical programs combine the expertise of multiple medical specialties in order to provide some of the most advanced and comprehensive pediatric care in the United States.

Recently, we have expanded speech services within the Pediatric Ambulatory Care Unit (ACU) by increasing the effort of a speech pathologist. We were able to add appointments for speech therapy, speech evaluations, and group speech therapy within the ACU, thus improving our continuity of care – prior to this we only had the ability to schedule nasoendoscopy testing. In addition, our speech pathologist can now better coordinate with the surgeons when a patient is ready for surgical correction of speech, which can be determined during the therapy sessions.

The welcome addition of Christian Vercler, M.D., Assistant Professor, Plastic Surgery, to the Craniofacial Anomalies team has increased our operating room hours and work units within the clinic. Within the next few months the plan is to add a Craniofacial Anomalies/Neurosurgery clinic day, which will not only improve patient access, but should also increase the number of cranial vault reconstruction surgical cases. Lastly, the enhancement of a craniofacial bio-medical photographer, Brian Reynolds, to the team has tremendously improved the quality of pre and post-surgical photos taken. The augmentation of the photographer has allowed our medical assistants to function within the scope of their roles, which has greatly improved patient flow throughout the clinic.

Making a difference for the patient is of the utmost importance for this team, just this past September the team hosted its first family picnic for our craniofacial patients during Craniofacial Awareness month. We have also started selling craniofacial anomalies program “giving a lifetime of smiles” t-shirts. The proceeds from this sale will help fund future craniofacial family picnics. The t-shirts are available for purchase at <http://www.ivypromo.com/home.aspx> and click on *U of M Mott – Little Victors*. We would also like to recognize Nicole Doemland, Patient Services Assistant; and Medical Assistants Judy Johnson and Jessica Poquette, for receiving “Making a Difference” awards this year. The entire Pediatric ACU Staff making a difference on a daily basis is unmistakable as evident by an overall patient satisfaction rating of 94.4%.



The University of Michigan Health System has a long history of recognizing employee contributions and honoring employee achievements. Such recognitions are our way of taking care of our own.

Sherrill Bird, Medical Assistant Go “Make a Difference”



“Making A Difference” awards, formerly called “You’re Super” awards, are day-to-day awards given to employees who have received nominations from patients, patient family members, visitors, or other staff members, in recognition of great service. Awardees receive a pin, a Making a Difference certificate and are invited to a special awards reception.

Sherrill Bird of Neurosurgery epitomizes what it takes to go and make a difference. Through her work as a Medical Assistant, she aims to inspire others to help create a culture that values service excellence. Sherrill partners with others, at all levels, across the Health System in order to spread the mission and vision of service excellence. She leads by example, always putting the patient first. Sherrill has received an innumerable amount of Making A Difference / You’re Super awards!

Tara Egnor, Nurse Practitioner Volunteers Annually at Trail’s Edge “Vent” Camp

Tara Egnor, Pediatric Nurse Practitioner in the Department of Neurosurgery, is a loyal volunteer at Trail’s Edge Camp (<http://www.umich.edu/~tecamp>) in Mayville, Michigan. Trail’s Edge is a sleep-away summer camp for children with special medical needs requiring some sort of ventilator support. The children typically are thought to be too “medically fragile” to go to camp because of the specific care they require. Trail’s Edge campers, range from ages 5-18. While at camp participants are given a unique opportunity to experience the joy of the great outdoors. They participate in horseback riding, swimming, boat rides, a ghost hunt, a tree house and tree climbing, arts and crafts, a talent show, campfires, and a big dance the last night of camp.



Tara has been volunteering her time at the “vent” camp for 11 years. She uses her personal vacation time to participate and says “it’s the highlight of my year.” Tara started at the University of Michigan Hospital and Health Systems in 2001 as a first-time nurse. She spent three years on 6th Floor Mott and one year on the PCTU. This is where she became enamored with the patient population and began volunteering at camp. Tara later left the University of Michigan to work as a travel nurse but continued to volunteer at “vent” camp. She returned to U-M this year after completing her graduate studies at the University of Pennsylvania. Tara is an energetic and passionate addition to the Neurosurgery Pediatric Team.

Carrie Lint, Nurse Practitioner Coordinates Aneurysm Support Group



The U-M run Aneurysm Support Group was founded in 2010 by the Department of Neurosurgery’s Dr. Aditya Pandey and Deb Brunelle, N.P. through a grant they received from the Motor City Golf Classic. The group meets every two to three months on a Tuesday evening from 7pm to 9pm at the East Ann Arbor Health Clinic. Carrie Lint, N.P. stepped up as the lead coordinator for Neurosurgery in 2012. Carrie plays a major role in this outreach effort by establishing various educational topics of discussion for the meetings such as; Stress during the Holidays, Physical Therapy benefits, Survivor Stories, Stroke Recovery and Sleep Issues. All patients and family members are welcome and the meeting is free of charge.

Steve Napolitan, Assistant Department Administrator Motor City “Drive” to Give Back



Annually, the Motor City Golf Classic (MCGC - established in 1988) holds a fundraising event in order to give back to the community. Since 2006, the event proceeds have benefitted the Department of Neurosurgery at the University of Michigan. Funds raised go directly to support innovative and unique projects, through an annual grant process, that promote outreach and advocacy efforts in the Motor City community through research and education. These funds offer an opportunity for all levels of faculty and staff to act on their creative ideas. **The MCGC Committee has now awarded 79 grants totaling over \$325,000 to the Department of Neurosurgery.**



Steve Napolitan joined the MCGC Committee in 2009 and has never looked in the rearview mirror — he has only put this event into “drive” to move it forward. Steve has dedicated countless number of hours, often on weekends and in the evenings, to help ensure the success of this event. As a member of the Committee, Steve has taken the event to the next level. He has added a classic car display, a salute to our veterans, a silent auction, an honored patient/Young Hero award, and resurrected the MCGC Salute to Excellence recipient. Along with Dr. William Chandler, Steve has also implemented a new grants review process making it more efficient for the MCGC Committee to distribute the funds. All of these items have helped to make this a special first-rate event, especially the “Young Hero” award. Each year, a “Young Hero” is recognized by the Michigan Air National Guard for exhibiting heroic characteristics and inspiring others while going through a traumatic diagnosis and treatment.



“It has been a great honor and pleasure to work with the other volunteer committee members. They are all wonderful people, who are committed and dedicated, but most importantly they are passionate about the work they do for the MCGC. They give their time and talents for personal gratification, not for recognition. What makes us most proud of our efforts is that 100% of the funds raised are utilized for grants — we essentially have zero administrative overhead. The MCGC grants have been the Faculty and Staff’s fuel and funding vehicle to jump start many outreach, advocacy, education, and research initiatives that otherwise may not have been possible. The results of the grants is what is most important to the MCGC. For me personally, the highlight each year at the event is the presentation of the Young Hero Medal (and salute) delivered by the Michigan Air National Guard to one of our pediatric patients. The children selected for the Young Hero award all have incredible stories that are simply amazing and inspirational. If I had to use one-word to describe these children it’s ‘extraordinary.’”

— Steve Napolitan, Assistant Department Administrator

Charlotte Gunden & Liz Walkowiak, Nurse Practitioners Brain Tumor Support Group



The Brain Tumor Support Group was founded in 1993 by one of the neuro-oncology nurses. Through mutual patients in 1997, Charlotte Gunden, NP in Neurosurgery was inspired to become involved and has been volunteering her time and talent ever since. As a new nurse practitioner with Neurosurgery in 2007, Liz Walkowiak immediately began volunteering her efforts for the Brain Tumor Support Group. Charlotte and Liz both have a tremendous amount of knowledge, compassion, and experience to offer these patients and caregivers.

The support group meets on the third Tuesday of every month from 7 to 8:30 p.m. in the Cancer Center. The meeting is open to all brain tumor patients and caregivers. Typically, there are 10 to 25 participants at each meeting along with a neuro-oncology nurse and social worker. At a typical meeting, it begins as a large group and is then divided into two subgroups to discuss various topics of concern or interest to the patients and their caregivers.

This year Charlotte applied for and received a grant from the Motor City Golf Classic to fund the groups’ annual holiday dinner and summer picnic. The summer picnic is open to family members as well as patients. These social events are extremely popular as evidenced by the high participation rates. The social gatherings are a different venue for patients and their families/caregivers to interact with others who are having similar experiences. Patients have commented that these events provide one of the few social outings that are possible for them because of financial hardship related to their diagnoses.

Laura Zeitlin, Social Worker Parkinson’s Disease & You Annual Symposium & Outreach Program



Parkinson’s Disease & You is a U-M educational initiative for patients with Parkinson’s disease and their families. In its infancy, this outreach program consisted of a weekly 3-hour session for a period of five to six weeks. With the leadership and coordination by Laura Zeitlin, LMSW, and grant funding from the Motor City Golf Classic, the sessions evolved into three lectures between April and August of each year, and an annual day-long symposium. Lecture and conference speakers give presentations relevant to living with Parkinson’s disease. Topics have included symptoms and management, speech and swallowing, therapy options such as music and relaxation, estate planning, home modifications for maintaining mobility, and deep brain stimulation for Parkinson’s. The annual symposium outreach to our Parkinson’s disease community is a huge success and is always filled to capacity. Laura’s phenomenal effort has taken this outreach program to the next level.

Karen Frisch, Clinical Research Project Manager IRBs Steadily Increase Each Year



Karen Frisch came to the Department of Neurosurgery in 2008 with a total of three IRB (Internal Review Board) approved clinical projects within the entire department! In the last six years, Karen has managed to actively work with Faculty to increase the total of IRB approved projects to 78! IRBs protect the rights and welfare of participants in clinical trials and other human subjects research studies ensuring compliance with federal and state laws, university policies, and ethical principles. IRBs are an essential piece for enabling and enhancing the clinical and translational research of the department. In this research we strive for improved health, not only for our local community, but also nationally and globally. When asked what the most challenging IRB project has been for her, with no hesitation Karen stated, “Pedro Lowenstein’s gene transfer trial for glioblastoma” — the first of its kind. The last six years have been challenging for Karen, but also extremely rewarding for her.

Béla Selzer, Nurse Practitioner Sharing Knowledge on Caring for Patients



Bela Selzer has served as an “educator liaison” by making connections between nursing and medical staff. One of the ways she does this is through lectures on caring for neurosurgery patients. Bela has spoken at the annual Survival Flight conference which has a statewide audience of First Responders, and ER nurses. She also has presented at the annual Michigan Council of Nurse Practitioners, as well as to all nurses hired into the Pediatric ICU. Most recently she spoke at a clinical review day for the nurses on a Mott Children’s Hospital general care floor – a unit that receives many of our pediatric neurosurgery patients. Her wealth of experience comes from her work as a nurse practitioner, but she also attributes it to her prior experiences at Mott Children’s Hospital; on the general care floors, Pediatric Intensive Care Unit (PICU), and as the operating rooms service lead for pediatric neurosurgery.

Peggy Hoag, Administrative Assistant Neurosurgery Service Time Champion



Peggy has over 40 years of dedicated and loyal service to the University of Michigan. Peggy has been a valiant member of the Neurosurgery Team, primarily in support of Dr. William Chandler. As Dr. Chandler was retiring (June 2013) from his practice, he and the rest of the Neurosurgery Faculty recognized that Peggy was a “Neurosurgery Champion.” As a group, the Faculty sent Peggy and her husband on a Caribbean cruise in recognition of her stalwart service.

U-M Service Time

In 1969, legendary Michigan football coach, Bo Schembechler delivered a simple message... "Those who stay will be champions!" This slogan is easily applicable to our Neurosurgery Team. It hints that challenges need to be endured for the constant and dramatic culture changes occurring in academic medicine and research. It emphasizes that toughness, and more rigorous practice and training is needed more than ever before. It means commitment leads to success. Our successes (and future success) propel our legacy and push the Michigan Neurosurgery program to further national prominence. Our most important asset is our people. We have 53 employees who have at least 10+ years of service at the University of Michigan, which is a whopping 51% of our Neurosurgery Team. Our Faculty and Staff are champions — champions in patient care, education, and research. Simply stated, they are Victors for Michigan Neurosurgery.

M

40+ years

Saeed Farhat M.D.
John McGillicuddy M.D.
Peggy Hoag

25-29 years

Tammy Whittaker
Sherrill Bird
Bela Selzer N.P.
Dianna Miller
Donna Gauss
Diane Peck
Richard Keep Ph.D.

15-19 years

Dah-Luen Huang
Cheryl Evans
Kristina Haywood
Gloria Haralson
Suresh Ramnath M.B.B.S.
Guohua Xi M.D.
Holly Wagner
Lynda Yang M.D., Ph.D.
Ya Hua M.D.
Paul Park M.D.
B. Gregory Thompson M.D.
Steve Napolitan

30-39 years

Rosemary Lemons
William Chandler M.D.
Sue George
Charlotte Gunden N.P.
Don Tomford

20-24 years

Jill Seary R.N.
Karin Muraszko M.D.
Marti Cotner
Dawn Johnson
Suzanne Angell
Susan Grube R.N., M.S.N
Jianming Xiang M.D.
Karen Frisch
Denise Justice
Oren Sagher M.D.
Heidi Zayan
Laura Smith
Lynnette Rasmussen
Donna Rossini MS, FNP-BC

10-14 years

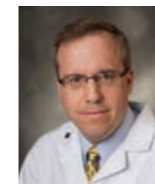
Hugh Garton M.D, M.H.Sc.
Susie Hines
Connie McGovern
Anne Middleton
Chia-Ying Lin Ph.D.
Laurie Olmstead
Miriana Popadich N.P.
Elizabeth Walkowiak N.P.
Jeanette Schultz
Frank La Marca M.D.
Jason Heth M.D.
Cecelia Hibbert

"Those who stay
will be champions."

– Bo Schembechler

ALUMNI UPDATE

News & Notes



Nate Selden, M.D., Ph.D. (residency 1993-1999) will serve as the President of the Congress of Neurological Surgeons (CNS) for 2014-15. Since October of this year he has serving as the President-Elect. Additionally, on March 1, 2013, Dr. Selden was awarded a Parker J. Palmer "Courage to Teach" Award for Program Director Excellence at the Accreditation Council for Graduate Medical Education (ACGME) Awards Luncheon.

Chris Fox, M.D. (residency 2004-2010) and **Keith Lodhia, M.D.** (residency 2000-2006) have successfully completed the American Board of Neurological Surgery (ABNS) board certification process and are now certified Diplomates. They were officially certified in May 2013. Congratulations to Dr. Fox and Dr. Lodiha!

John Ziewacz, M.D. (residency 2006-2012) co-authored a paper that was published in the *New England Journal of Medicine* (368:3, January 17, 2013) titled "Simulation-Based Trial of Surgical-Crisis Checklists."

He Shoots, He Scores!



Eddie Kahn was captain of the 1924 Michigan hockey team. Later in life, he would attribute much of his success as a neurosurgeon to the self-confidence he gained as an athlete... In the Michigan hockey program's 90-year history, some 600 players have scored more than 10,000 total goals. But the man who scored the team's very first goal in January 1923 might still be the most impressive one of the bunch.

...He pioneered the new discipline of neurosurgery, serving 22 years as chief of the department at the University of Michigan Medical Center... But to his teammates, back in 1923, Edgar "Eddie" Kahn, MD '24, was simply an exceptional college hockey player.

...Eddie Kahn was independently wealthy from his father's fortune, he insisted on working for a salary of one dollar a year. "But he never had any money on him!"

For the full article, please go to <http://michigantoday.umich.edu/story.php?id=8556>

Excerpts taken from *Michigan Today*, February 18, 2013, by John U. Bacon

"Great empathy for his patients, honesty, humility, and a fine sense of humor were his hallmarks, in addition to his skillful hands," said his former colleague, Dr. Richard C. Schneider.
"No physician was more deeply admired and loved by his patients."



In Memoriam

It was with great sadness that we learned of the death of three of our resident alumni, **Dr. John Maxwell (1967)**, **Dr. Joseph Hudson (1971)**, and **Dr. Joseph Waltz (1963)**. They follow in a long line of outstanding physicians who have been part of the wonderful legacy and history here at the University of Michigan Department of Neurosurgery. We are saddened by their passing and we know that they will live on in the memory of many.

FOCUS ON PHILANTHROPY

Max Your Brain

Max Merget, in his lifetime battle with brain tumors, has become an icon within the Department of Neurosurgery and UMHS at large, as part of the Michigan Difference Campaign (our previous campaign), as well as the Victors for Michigan Campaign (our current campaign). His story has served to inspire so many. When Max was a toddler, he was diagnosed with a brain tumor the size of a grapefruit. At age four and again at age seven he had recurrences and underwent surgery and treatment.

In January of 2013, ten years after being in remission, Max's brain tumor came back. Max remained optimistic and positive, despite his lifelong battle with brain cancer and has recently discovered that his cancer is gone again! In May of 2013, as part of the high school graduating class of 2013, he selflessly decided to donate all of the funds he would have been gifted for his graduation to the U-M "**MaxYourBrain**" fund. He also started selling bracelets to boost brain tumor awareness and raise research funds. To date, Max and his family have raised more than \$40,000 for brain cancer research in the Department of Neurosurgery! Thanks, Max, for inspiring so many with your **VALIANT** story of courage and strength!



"Rain, Rain, Go Away"

The 2013 **Motor City Golf Classic** (MCGC) tried and tried again, but when it rains it pours. Not only did the scheduled MCGC get rained-out this August, but event participants had to endure a significant amount of moisture during the event's make-up rain date in September! The MCGC wants to thank everyone for their patience, understanding, and perseverance as we all dealt with the elements — and a special thanks to the people at Barton Hills Country Club who did everything in their power to work with us and support our charitable event.

This event annually funds a number of projects through a grant process that enables Neurosurgery Staff the ability to make a difference and be Neurosurgery Victors for Michigan. Nearly 80 grants totaling \$325,000 have been awarded within Neurosurgery since 2007. Please save the date for supporting the **25th MCGC** (9th benefiting U-M Neurosurgery) **on Monday, August 18, 2014**. It will be a special and fantastic day, even if our request to Mother Nature is denied.



Leah's Happy Hearts



After the loss of their daughter, Leah's parents decided to try and turn their grief into doing something positive for others, and Leah's Happy Hearts was established. Leah's Happy Hearts is a foundation whose mission is to "preserve the memory of Leah by dedicating themselves to promoting awareness, funding research for pediatric brain tumors, and by giving children who are living with life-threatening illnesses opportunities for hope, love, and laughter." Leah's Happy Hearts has continuously made significant monetary contributions to C.S. Mott Children's Hospital and the Department of Neurosurgery to fund research and other special projects, such as funding a children's book project to help kids dealing with a new diagnosis of a brain tumor to cope. Most recently, Leah's Happy Hearts made a financial commitment of \$40,000 to fund brain tumor research in the neuro-oncology labs of Maria Castro, PhD. and Pedro Lowenstein, M.D., PhD. We are incredibly grateful for the generosity of Leah's Happy Hearts and look forward to a successful future of working together to combat brain tumors.

Link to Photos of 2013 Leah's Happy Hearts (on Facebook):
<https://www.facebook.com/#!/media/set/?set=a.653351631344276.1073741829.221893511156759&type=3>

Steve Papadopoulos, MD, MBA



Dr. Papadopoulos, is the newly elected President of the U-M Medical Center Alumni Society (MCAS) and a former faculty member of the Department of Neurosurgery where he was instrumental in developing a state-of-the-art Image-Guided Surgery program at the University of Michigan. He is a pioneer in the field of computer augmentation to assist in neurosurgical procedures and has served as President of the Congress of Neurological Surgeons. He graduated from the Neurosurgery Residency Program in 1988 and has since been an advocate for maintaining excellence at the University of Michigan. As part of his desire to give back to his alma mater, Dr. Papadopoulos recently funded lifetime memberships to the Alumni Association for all of our current 16 neurosurgery residents. Thanks, Dr. Papadopoulos, for this generous gift to our residents and we wish you the utmost success as the President of MCAS!

Jennifer Edwards Senior Director, Neuroscience



Jennifer leads the newly formed team of development professionals who represent the Neuroscience areas, including the Departments of Neurosurgery, Neurology and Psychiatry and the U-M Depression Center, in developing a successful team approach between the UMHS Development Office and Department Chairs, Administrators, Faculty and Staff to ensure progress on mutually established fundraising goals. With more than 12 years of professional development experience, Jennifer most recently spent the past seven years as the lead major gift officer for the U-M Department of Obstetrics & Gynecology and the Von Voigtlander Women's Hospital. She also spent four years with the Neuroscience Institute at Henry Ford Health System. Jennifer is a proud Michigan alumna and lives in Ann Arbor with her husband and two young sons.

Halla Jomaa Development Officer, Neurosurgery and Neurology



Halla has been a Development Officer with the Department of Neurosurgery for a year now, joining the team in December of 2012. She comes to us from Oakwood Healthcare in the Metro-Detroit area where she was employed for over six years. Halla is also a U-M Alumnus, graduating with a BA in Health Policy Studies, with a concentration in Business Management. In her role, she works with generous individuals interested in financially supporting the Department of Neurosurgery. Halla can be reached at: 734-763-5121 or hnojomaa@umich.edu.

RESEARCH NEWS

Resident Research

During their elective rotation time, the neurosurgical residents are undertaking exciting research in a wide range of neurological conditions:



Jennifer Strahle: During my research time in the laboratory of Dr. Guohua Xi, I have developed a neonatal animal model of intraventricular hemorrhage (IVH)-induced hydrocephalus to investigate underlying mechanisms and potential treatments. I have found that iron released from the hemorrhage plays a key role in ventricular enlargement, with an iron chelator reducing ventricular size and cell death in IVH animals. I am now looking into the mechanisms of hydrocephalus in this model.



T.J. Wilson: My work, being performed in the lab of Dr. Pedro Lowenstein and Dr. Maria Castro, focuses on the heterogeneity of states of differentiation of cells within gliomas. We are working to characterize the states of differentiation that are present as well the signaling mechanisms at play that drive transition from state to state. We hope that understanding these states of differentiation and the mechanistic drivers of each, will allow therapeutic manipulation. The hope is that it will drive cells into differentiation states with a more benign phenotype, or possibly one that is more sensitive to traditional therapy.



Wajid A-Holou: Currently, my research in the lab of Dr. Alnawaz Rehemtulla focuses on GBM-cancer genetics. We are developing a glioma model using the transposon system, Sleeping Beauty (SB), in neural stem cells to perform a forward genetic screen to identify a list of new candidate genes that most frequently need to be mutated to promote glioma formation and progression. We have also developed a GBM recurrence mouse-model to identify genetic changes in primary and recurrent GBM.



Nicole Bentley: I will begin research in January 2014, working with Dr. Cindy Chestek in the Department of Biomedical Engineering. We will be working on brain-machine interfaces, using optogenetic techniques in a primate model. Specifically, we will be interrogating the role of proprioception in motor activity for the purpose of improving prosthetic arm movements.



Osama Kashlan: In January 2014, I will start my 2-year research period and will be working with Dr. Eva Feldman in the Department of Neurology. I will be involved in the phase II clinical trial going on between Emory University and the University of Michigan determining the efficacy of injecting stem cells into the spinal cord of ALS patients. I will also help with animal studies determining whether stem cells have a role in treatment of other neurodegenerative diseases. Finally, I will also be attending classes with the goal of obtaining an MPH in epidemiology.

Researchers at Spring Arbor University and UMHS to Collaborate on Biomedical Research

Faculty and students at Spring Arbor University (SAU) plan to collaborate with researchers and clinicians at the University of Michigan Brachial Plexus Program to conduct research to improve the lives of patients with a serious childhood disorder, Neonatal Brachial Plexus Palsy (NBPP). NBPP is a chronic, disabling condition that occurs during the perinatal period, resulting in paralysis and loss of sensation in the affected arm. The number of children impacted by this debilitating condition rivals cerebral palsy — one to four of every 1,000 children born in the United States. However, unlike cerebral palsy, NBPP is largely unknown. This anonymity results in a dearth of research as well as treatment options for children who are afflicted.



“We believe the affiliation between Spring Arbor University and the University of Michigan Health System program would not only result in much-needed research to address this debilitating condition, but will also develop the ways and means to improve the quality of life of these patients through new solutions for the management of treatment for NBPP,” says Charles Webb, Spring Arbor University president. The program also will offer SAU students the opportunity to work with and learn from faculty at one of the premier interdisciplinary brachial plexus programs in the US.

Dr. Lynda Yang, Director of the U-M Brachial Plexus Program, states “we are fortunate to partner with Spring Arbor University faculty and students in our mission to improve the lives of patients with NBPP through collaboration, research and innovation.” She is a Board-certified Associate Professor of Neurosurgery in the University of Michigan Health System.

While surgery and physical therapy can improve some of the disablement associated with NBPP, new research is necessary to forward advances in the management of this chronic lifetime condition. Most funding for medical research addresses the cause and cure for the disease, but stops short of supporting research to find what will be required to improve the quality of life and management of the condition for a lifetime. Consequently, the MedSAU fund has been established to step in and make an impact. Supported research will address various aspects of NBPP including: motor and sensory function, psychosocial aspects of childhood disablement, and transitioning into adulthood. MedSAU will also support the production of multimedia patient educational materials created for University of Michigan Health System patients. These publications also can be used to educate patients, medical professionals, school administrators and teachers, as well as the general public about NBPP.

To learn more about MedSAU, visit www.arbor.edu/medSAU.

Donna Gauss, Research Process Senior Manager Grants Guru



February 5th, June 5th and October 5th are dates etched in the brains of researchers across the country. They are the deadlines for NIH R01 grant applications. They are a time of stress, not only for the researchers within the Crosby Neurosurgical Laboratories, but also for Donna Gauss, the “Grants Guru.” While the science of an R01 comprises 12 pages, the whole package may involve another 30-40 associated non-science pages and that might increase to 500 pages for a multi-center clinical grant. These are pages that must be correct to pass the scrutiny of the Medical School, the U-M Office for Research and Sponsored Projects (formerly called DRDA), and the NIH. Hence the need for a grants guru!

Donna has a vast experience at the University of Michigan. She first worked at U-M from 1981-1984 and then rejoined U-M in 1988. She first worked in the Department of Pathology, then the Department of Pediatrics and the Nanotechnology Institute, all before joining the Department of Neurosurgery five years ago. We are fortunate to have her as part of the Neurosurgery team.

Donna isn't just involved in the submission of NIH grants from the Department of Neurosurgery. She's also involved in all the Foundation, Fellowship and Industrial grant applications. For her, the stress of submitting applications rarely ends, and for those lucky applications that get funded, she is then also involved in tracking the grants post-award (financial and progress reports). The Department is incredibly fortunate to have staff, such as Donna. They are a truly vital element of the Department's activities.

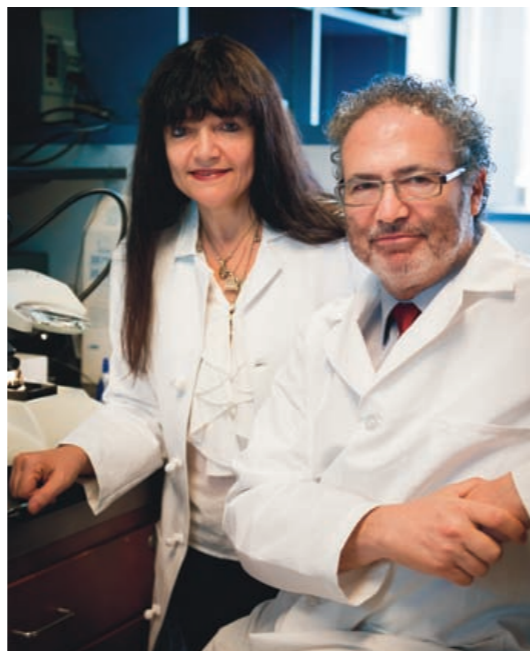
Journey Continues to Cure Brain Tumors through Genetic Engineering

First-in-the-world Clinical Trial

Understanding of the interaction of brain tumor cells along with the cells and structures surrounding them, led to original therapeutic approaches based on gene therapy. A Phase I clinical trial for the treatment of glioblastoma multiforme (GBM) using gene therapy based on discoveries made by **Drs. Pedro Lowenstein and Maria Castro**, was granted IND# 14574 by FDA in April 2011. With funding from the PhaseOne Foundation from Los Angeles, CA, and participation of members from the U-M Departments of Neurosurgery, Neurology, Neuropathology, and Radiation Oncology, this first-in-Michigan, first-in-humans, and first-in-the-world trial started recruiting patients in late 2013 (see ClinicalTrials.gov number NCT 01811992). Basically, the new therapy uses genes to kill existing cancer cells and to destroy other cancerous cells that may recur by making use of the patients own immune system.

The Ann is tracking their work. Here is the link to the first excerpt in the publication:

<http://www.theannmagazine.com/2013/04/25/gene-therapy/>



ALS Stem Cell Trial Begins at UMHS

Two patients with amyotrophic lateral sclerosis (ALS) have received stem cell injections to their spinal cords at the University of Michigan Health System — the first two to receive the experimental injections in Michigan as part of a national clinical trial. Additional patients with the condition, also known as Lou Gehrig's disease, are being evaluated for possible participation in the trial at both U-M and Emory University. The Phase II trial is approved by the U.S. Food and Drug Administration and funded by Neuralstem, Inc., the Maryland-based company whose stem-cell product the trial is testing. It seeks to study any effect that injected stem cells might have on motor neurons — muscle-controlling nerve cells that die in ALS patients, eventually robbing them of the ability to walk, speak and breathe.



Eva L. Feldman, M.D., Ph.D., the Russell N. DeJong professor of neurology at U-M and director of the A. Alfred Taubman Medical Research Institute, is the principal investigator for the trial. Feldman serves as an unpaid consultant to the company, and led the analysis of results from the Phase I trial which concluded in 2012. In data presented earlier this year, spinal cord injections of up to 100,000 cells were delivered safely and tolerated well in a Phase I trial conducted at Emory. The researchers reported possible signs that in one subgroup of participants, ALS progression may have been interrupted.



Parag Patil, M.D., Ph.D., assistant professor of Neurosurgery, Neurology, Biomedical Engineering, and Anesthesiology, and a Young Friends of the Taubman Institute Emerging Scholar at U-M, performed both operations on the U-M trial participants. In each case, the patient's spinal column was unroofed and the spinal cord exposed to receive the cells. The cells are introduced via a custom-designed delivery device that is affixed to the subject's spinal bones so that it moves with the patient's breathing throughout the process. Dr. Patil also serves as a paid engineering consultant to Neuralstem to further develop the cell-delivery device. A third participant in the Phase II trial received the same surgery in September at Emory University in Atlanta, the other site for the trial.

DEPARTMENT EVENTS & OUTREACH

Halloween Bonfire Party at the Old Mill

Both the Michigan fall colors and a towering bonfire were all ablaze on the site of the Old Mill when the Department of Neurosurgery held its biennial Halloween Bonfire Party on October 26, 2013. This fall event which is co-hosted by Dr. Karin Muraszko and her husband Scott VanSweringen has become a favorite department gathering for many of our faculty, residents, staff, their families, and supporters of the Department. Everyone was greeted with a delectable harvest feast. A live band provided entertainment into the night hours to the enjoyment of all. Kids and adults stood in line to have their face painted by an artist clown. The children did not leave empty handed as they were given a glow in the dark trick or treat bag filled with many goodies. Best of all, the bonfire provided warmth for the starlit chilly night and for a great conversation gathering place to relax with coworkers and enjoy the s'mores!



Heal The Children Project Shunt

17th Consecutive Year for Guatemala Volunteer Effort

This year marked the 17th consecutive year that the Department of Neurosurgery has led a trip to perform needed surgeries for underserved Guatemalan children. In early November, 29 members of the University of Michigan Departments of Neurosurgery, Anesthesiology, Pediatrics, and Plastic Surgery made the trip to Guatemala City on the annual Project Shunt mission trip. The team traveled to Guatemala City and upon arrival set off to work unpacking and setting up the operating rooms, pharmacy, and post-operative care unit. The following day the team evaluated 39 patients who came from all over Guatemala. While the team certainly would have liked to have helped all the children who presented to clinic, 13 were offered operations based on what was felt to be appropriate and safe given the resources available to the team. The Pediatric Foundation of Guatemala provided the facilities and conducted the patient recruitment. Over the next several days, 13 successful operations were performed. All of the children did well post-operatively, and many thanks came from the people we served in Guatemala.



Brachial Plexus Palsy Camp 2013

The Brachial Plexus Palsy Program hosted its 5th annual camp. This year's camp featured education sessions designed to teach parents and therapists about brachial plexus palsy. While parents were learning indoors, the patients participating in outdoor activities that included zip line, low ropes course, archery and canoeing. Over 100 patients, families, therapists and volunteers participated in the event. At the camp many patients learn that there are actually others in the world who face the same challenges that they do. For parents, there is an opportunity for listening to and/or sharing of stories that is very healing.

The camp features a Keynote speaker: This year, Adam Perry, an adult with neonatal brachial plexus palsy, spoke about his challenges and successes. His story was inspirational to the children, and the mothers in the room shed a tear or two. It touched upon the emotional challenges of bullying of children with neonatal brachial plexus palsy. The bullying often stems from general ignorance regarding the physical limitations to the upper extremity in children with this disorder. The weakness, lack of active motion in the arm, and the noticeable decrease in size of the affected extremity can lead to misconceptions about the patient. Therefore, we will be producing a video documentary about the condition of neonatal brachial plexus palsy using camp video footage. The goal of this video documentary is to increase awareness about brachial plexus palsy and to educate about the chronic implications of this perinatal disorder. We were able to offer the camp free of charge to the U-M patient attendees due to generous grant funding from the Motor City Golf Classic and the Mott Golf Classic Organizations.



Under The Lights, Take 2

Perfect Time for New Resident and Fellow Welcome Reception

On Saturday, September 7th, the Department of Neurosurgery sponsored a reception welcoming our new interns and fellows who started with us in June. Dr. Greg Thompson and his wife Ramona opened up their home in the lovely Burns Park area for an afternoon tailgate party before the "Under the Lights #2" U-M / Notre Dame football game.

Faculty, residents and their families gathered to welcome our new residents and fellows. Also joining the festivities were U-M Neurosurgery alum Dr. James Markert (residency 1989-1995), his wife Laili and their children; Dr. Markert was "conveniently" visiting with us as our 2013 Julian T. Hoff Visiting Professor and stayed for the game which delighted Mrs. Hoff and Dr. Paul Hoff who were able to drop by to say hello. The weather and company could not have been more splendid and the result of the football game topped off a perfect end to a day!



Softball in Central Park for Brain Tumor Research

Thirty-two teams of neurosurgeons and neurosurgeons-in-training from medical institutions around the United States and Canada competed June 1st in Central Park (New York City) at the 10th Annual Neurosurgery Charity Softball Tournament. Hosted by Columbia University, the event benefits brain tumor research via the Neurosurgery Research and Education Foundation (NREF) of the American Association of Neurological Surgeons (AANS). For the tenth consecutive year, the Steinbrenner family and the New York Yankees have sponsored the tournament.

Supported by NYC Mayor Michael Bloomberg, this date has been declared "Neurosurgery Charity Softball Tournament Day" in the City of New York. The Annual Neurosurgery Charity Softball Tournament has become a tradition within the neurosurgical community and represents the amiable competition, social camaraderie, and charitable nature within our field. The University of Michigan fielded a team this past year. The team enjoyed the camaraderie, experience, support of the cause, and look forward to participating again in 2014!



Now is Our Time.

Never before have we been better positioned to change the face of medicine.
To be the ones who take the lead in where it needs to go.
There are those the world over who need answers... they need breakthroughs... and hope.
They await new thinking. And transformative treatments.
Now is the time for us to seize the moment.

Us.

The Department of Neurosurgery at the University of Michigan and you.
Together we will create the future of health care.
You, and our scientists and surgeons.
Today, we find ourselves at the forefront of realizing unlimited possibilities
and creating unprecedented change.

For the patients... for the mothers and fathers out there... for the sons and daughters and
brothers and sisters, who look to us for answers, now is our time to make
a profound impact and be the victors they need.
Let's finish the work the world needs.

Neurosurgery Needs Victors.



VICTORS FOR MICHIGAN

YOU CAN MAKE A DIFFERENCE...MEDICINE NEEDS VICTORS

Today, at the University of Michigan Health System, we are working toward solutions that bring hope to patients with devastating neurological diseases. With your support, we can advance treatments and accelerate health care toward a better future.

For more information on making a gift to the Department of Neurosurgery at the University of Michigan, please contact:
Halla Jomaa at 734-763-5121 or hnojmaa@umich.edu



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