Department of/Office of Neurology

Annual Report

2015

Glen D. Solomon, M.D.
Professor and Interim Chair

For the period including
January 1, 2015 — December 31, 2015
Statement from the Chair/Associate Dean
## Programs/Divisions

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Neurology Clerkship</td>
<td>Cassandra Milling, M.D.</td>
<td>2008/2009 -</td>
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<tr>
<td>Neurology Residency Program</td>
<td>Bradley Jacobs, M.D.</td>
<td>July 1, 2014 -</td>
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</tbody>
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## Fully Affiliated Faculty

<table>
<thead>
<tr>
<th>Name and Academic Position</th>
<th>Clinical Interests</th>
<th>Research Interests</th>
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<tbody>
<tr>
<td>Mark N. Friedman, D.O. Assistant Professor of Medicine</td>
<td>Clinical Neuroendocrinology Develop new and innovative teaching programs for residents in all specialties. New program development to enhance the educational experience for residents. Development of assessment methods. Clinical neuroendocrinology/advanced general neurology fellowship (consideration for future development).</td>
<td>Medical education research studies</td>
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<tr>
<td>Bradley Jacobs, M.D. Associate Professor Neurology Residency Program Director</td>
<td>Stroke, Hypercoagulability Stroke epidemiology, Acute stroke management, stroke prevention, Stroke biomarkers including micro particles and metabolomics</td>
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<td>Eleina Mikhaylov, M.D. Assistant Professor</td>
<td>Inpatient/Ambulatory General Neurology</td>
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<tr>
<td>Cassandra Milling, M.D. Assistant Professor</td>
<td>Epilepsy, Sleep Medicine, Genera. Neurology Epilepsy (non-epileptic seizures, non-convulsive status, nocturnal seizures, the use of the sleep EEG in the pre-surgical evaluation</td>
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<tr>
<td>Name and Academic Position</td>
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<tr>
<td>Barbara Phillips, M.D.</td>
<td>Epilepsy and Neurodiagnostics</td>
<td>Resident research project in non-convulsive status epilepticus- being developed.</td>
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<td>Assistant Professor</td>
<td>Appointed Director of EEG/Epilepsy at TCNI</td>
<td>Awaiting final IRB approval for chart review of EEG and medication and outcomes.</td>
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<td>Established subspecialty clinic in epilepsy, took over bulk of patients from Dr.</td>
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<td>Moore’s practice.</td>
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<td>Established WSU/PH Comprehensive Epilepsy Center achieved National Association of Epilepsy Centers (NAEC) Level 3 epilepsy program status.</td>
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<td>Established weekly rotations for EEG, long term monitoring with call for continuity of care along with epilepsy team.</td>
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<td>EEG review and teaching for resident rotation.</td>
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<td>Regular resident teaching conferences for epilepsy and EEG.</td>
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<td>Established multi-disciplinary Epilepsy Conference for review of potential epilepsy surgery candidates.</td>
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<td>Worked with neurodiagnostic lab to re-establish evoked potential testing at MVH.</td>
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<td>Worked with neuropsychologist to establish specialist neuropsych testing and Wada testing procedure here for work-up of potential surgical epilepsy candidates.</td>
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Teaching

Baccalaureate

Graduate students, including thesis supervision

Bradley Jacobs, M.D. – Ph.D. committee, Jinju Wang, Dept. of Pharmacology and Toxicology

Cassandra Milling, M.D. – Graduate student education including thesis supervision (masters, doctors, and post-doctoral).

Undergraduate medical education

Bradley Jacobs, M.D.

NRL 891 – Neuroscience Clerkship
- Lectures to 3rd year medical students; attending physician and preceptor for 3rd and 4th year medical students
- Weekly Neurology case conference
- Supervise monthly Neurological Localization conference
- Supervise monthly Journal Club
- Attending Physician for inpatient General Neurology and Stroke service at Miami Valley Hospital, teaching 3rd year medical students.

Eleina Mikaylov, M.D.
- Year 4 elective faculty-Inpatient neurology rotation attending
- Year 3 clerkship-Inpatient neurology rotation attending

Cassandra Milling, M.D.
- Participation in Clinical course:
  - ICM 1 – Two yearly lectures covering the Neurology Exam.
  - ICM 2 – One lecture covering the Neurology Exam in case-based format.
  - Psychiatry Clerkship
    - Didactic case conference q rotation incorporating the interface between Neurology and Psychiatry.
  - Neuroscience Clerkship (NRL-891):
    - Didactic Curriculum for MS3 and 4 Neurology course (new structure as of 2014-2015).
      - Moved inpatient experience to the MS3 year and created new MS3 Neurology Curriculum
      - New MS3 Curriculum includes interactive learning/TBL modules in Neurology Exam, The Coma Exam, Epilepsy, Stroke and Neuromuscular disease.
      - New Text and reading suggested with creating new quiz and reworking of other quizzes.
    - Reorganization of MS3 clinical experiences to integrate with new residency program.
    - Reorganization of MS4 clinical outpatient experiences including addition of new outpatient sites to meet (MVH and preparation for 5 Rivers) 3rd year medical students: attending physician and preceptor for 3rd and 4th year medical students.
o Supervision/Administration of NRL-891.

o Supervision of NRL electives and preparation for addition of 3 new electives in the 2016-17 year.

- Weekly Neurology Case conference.
- Attending Physician for inpatient General Neurology service, EMU service at Miami Valley Hospital, teaching 3rd year medical students.
- Attending Physician supervising 4th year medical students in Continuity Clinic and Epilepsy Clinic.

Barbara Phillips, M.D.
- Medical Student clinical teaching on neurology inpatient service at MVH-involves patient specific neurologic issues, neurologic examination, prepared lectures on disease topics.
- Medical student clinical teaching in outpatient subspecialty clinic in epilepsy and in general neurology resident continuity clinic.

Graduate medical education

Bradley Jacobs, M.D.
- Residency Program Director
- Weekly Neurology case conference
- Precept monthly Neurological Localization conference
- Precept monthly Journal Club
- Organize Daily noon conference schedule
- Supervise and organize Morning Report
- Coordination of internal medicine resident, psychiatry resident, geriatric fellow and pharmacology student Neurology rotations
- Attending Physician for inpatient General Neurology and Stroke services at Miami Valley Hospital, teaching Neurology, Internal Medicine, and Psychiatry Residents.
- Attending Physician supervising Neurology residents in Continuity Clinic and Stroke Clinic

Mark Friedman, D.O.
- Neurology residency outpatient and inpatient teaching service (including rotating medical students).
- Neurology resident conferences
  o Memory disorders
  o Neuroendocrinology

Eleina Mikhaylov, M.D.
- Inpatient Neurology Admitting Service

Cassandra Milling, M.D.
- Weekly Neurology case conference
- Epilepsy surgery conference
- Epilepsy conference
- Attending Physician for inpatient General Neurology and EMU services at Miami Valley Hospital, teaching Neurology, Internal Medicine, and Psychiatry Residents.
- Attending Physician supervising Neurology residents in Continuity Clinic and Epilepsy Clinic
Barbara Phillips, M.D.
- Supervise junior and senior neurology residents as well as medical and psychiatry residents on inpatient neurology admitting service. Supervise residents in subspecialty epilepsy clinic and in general neurology continuity clinic.

Continuing medical education

Bradley Jacobs, M.D.
- Planning committee for Dayton VA Medical Center Stroke Summit
- Invited lecturer, “Acute Stroke Management”, Dayton Veterans Affairs Medical Center, Stroke Summit
- Physician Course Chair for Neurology Grand Rounds CME

2015 Neurology Grand Rounds Presentations:
- January 12, 2015, Presenter – John Terry, M.D. (Premier Health), presented: “Refining the Treatment of Cerebral Intraparenchymal Hemorrhage”
- February 9, 2015, Presenter – James Olson, Ph.D. (WSUBSOM), presented: “Brain Edema and Secondary Brain Injury”
- April 13, 2015, Presenter – Mary K. Foster, Ph.D. (Premier Health), presented: “Neuropsychology in a Nutshell”
- May 11, 2015, Presenter – Mohammed Sohel Ahmed, M.D. (Premier Health), presented: “Management of Intracranial Hypertension”
- September 14, 2015, Presenter – Andrew Voss, Ph.D. (WSUBSOM), presented: “Progressive Defects in Huntington’s Disease Skeletal Muscle Point to a Myopathy”
- October 12, 2015, Presenters – J. Layne Moore, M.D., and Suraj Rajan, MSc., M.D. (WSUBSOM), presented: “Brain on Fire: Kindling in Epilepsy”
- November 9, 2015, Presenter – Tara E. Cook, M.D., Lt. Col. (Wright Patterson AFB), presented: “Warfighter Interface Division: Who We are and What We Do”

Mark Rich, M.D., Ph.D.
- Physician Course Chair for 4th Annual WSU & PH Neuroscience Institute Symposium (October 23, 2015)
- Planning committee member for annual WSU & PH Neuroscience Institute Symposium

4th Annual WSU & PH Neuroscience Institute Symposium (October 23, 2015) Presentations:
- Presenter – Robert M. Lober, M.D., Ph.D. (Pediatric Neurosurgeon, Dayton Children’s Hospital), presented: “Advanced Clinical Imaging of the Pediatric Brain”
- Presenter – Ulas Sunar, Ph.D. (Associate Professor, Ohio Research Scholar for Medical Imaging), presented: “Optical Imaging Guided Brain Function Monitoring and Neurosurgery”
Other

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Scholarly Activity

Funded grants

Bradley Jacobs, M.D.

- “A Phase IIIb, double-blind, multicenter study to evaluate the efficacy and safety of alteplase in patients with mild stroke: rapidly improving symptoms and minor neurologic deficits (PRISMS)”, Site PI: BS Jacobs, Sponsor: Genentech, Inc.

- Platelet-oriented inhibition in new TIA and minor ischemic stroke (POINT) trial”, Site PI: BS Jacobs, Sponsor: NINDS

- “The Impact of State Stroke Legislation on the Accessibility and Outcomes of Stroke Care”, co-PI: BS Jacobs, Sponsor: American Heart Association

Publications

Papers in refereed journals

Bradley Jacobs, M.D.


Books, chapters, reviews

Mark Friedman, D.O.

- Reviewer for the Medical Science Educator journal.

Bradley Jacobs, M.D.


Published abstracts


Significant presentations


Mikhaylov, E. Neurologic Immune Disorders and treatment, specifically Amyotrophic Lateral Sclerosis, Guillain Barre, Multiple Sclerosis, and Myasthenia Gravis presentation. CNRN/SCRB review course. Berry Center Conference Room at Miami Valley Hospital, Dayton, OH. June, 2015.
Consultantships

Other recognition

Bradley Jacobs, M.D. – Ad-hoc reviewer: Neurology

Eleina Mikhaylov, M.D. – Physician of the month at Good Samaritan Hospital, Dayton, OH

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Summary of Service Activities

Student advising

Barbara Phillips, M.D. – Resident Advisor

Committee membership/officer

Wright State University Boonshoft School of Medicine

Mark Friedman, D.O.
- Pass/Fail Taskforce Committee

Cassandra Milling, M.D.
- B2 committee
- Informal 1-1 advisor sessions and mentoring to multiple 3rd and 4th year medical students interested in Neurology
- SIGN group advisor

Barbara Phillips, M.D.
- Program Evaluation/Clinical Competency Committee – resident evaluation and program review.

Wright State University

Wright State Physicians

Hospital or affiliated institution

Bradley Jacobs, M.D.
- Clinical Neuroscience Chief’s peer review committee
- General Neurology Division chief of Clinical Neuroscience Institute

Eleina Mikhaylov, M.D. – Good Samaritan Hospital, Miami Valley Hospital Inpatient and Ambulatory, Neurology

Barbara Phillips, M.D. - Premier Health NeuroService Line – working on length of stay and decreasing readmissions specifically re seizures.

State
National
Bradley Jacobs, M.D.
- American Academy of Neurology Stroke and Vascular Neurology Section

Other

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Patient Care Summary

Bradley Jacobs, M.D.
- Attending Inpatient General Neurology and vascular Neurology
- Attending Outpatient General Neurology and Vascular Neurology

Cassandra Milling, M.D.
- Attending Inpatient General Neurology and Epilepsy
- Attending Outpatient General Neurology and Epilepsy

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Honors and awards

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Hosted events

Monthly Neurology Grand Rounds (See #4 under Continuing Medical Education)

Annual WSU & PH Neuroscience Institute Symposium (See #4 under Continuing Medical Education)

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Other information

Mark Friedman, D.O.
- Received Master of Science degree in Medical Education Leadership, University of New England (2013-2015), in August, 2015.
**Bradley Jacobs, M.D.**
- “Pilot study of metabolic profiling of ischemic stroke patients and control subjects”. In collaboration with Dr. Nicholas Reo (Dept. of Biochemistry and Molecular Biology).
- “Feasibility study for cerebrovascular health assessment”, PI: Audrey Choh, co-I: BS Jacobs, Sponsor: Department of Community Health.
- “Balance of Angiotensin II/Angiotensin (1-7): A Target in Ischemic Stroke”, Submitted NIH grant application as coinvestigator with Dr. Yanfang Chen.
- Participate in Premier Health Stroke Program, including telemedicine treatment of acute ischemic stroke patients throughout the region.

**Cassandra Milling, M.D.**
- Epilepsy Monitoring Unit – Created this unit at Miami Valley Hospital (MVH) and continue to remain very active with its administration and functioning.
- Epilepsy surgery program – actively involved in moving this program forward at MVH.

**Barbara Phillips, M.D.**
- Achieved National Association of Epilepsy Centers (NAEC) Level 3 epilepsy program status.
- Resident research project in con-convulsive status epilepticus being developed. Awaiting final IRB approval for chart review of EEG and medication and outcomes.
- Working with neurosurgeon, neurodiagnostics, nursing and MVH administration to develop protocols for epilepsy monitoring with intracranial electrodes, evaluation and care of surgical epilepsy patients, equipment, etc.
- Working with MVH neurodiagnostic lab on recruiting technologists.
- Working with WSPI and PH to recruit another epileptologist.