

Department of Neurology Education Update

Ralph F. Józefowicz, MD
Associate Chair for Education
September 23, 2016

Education Team

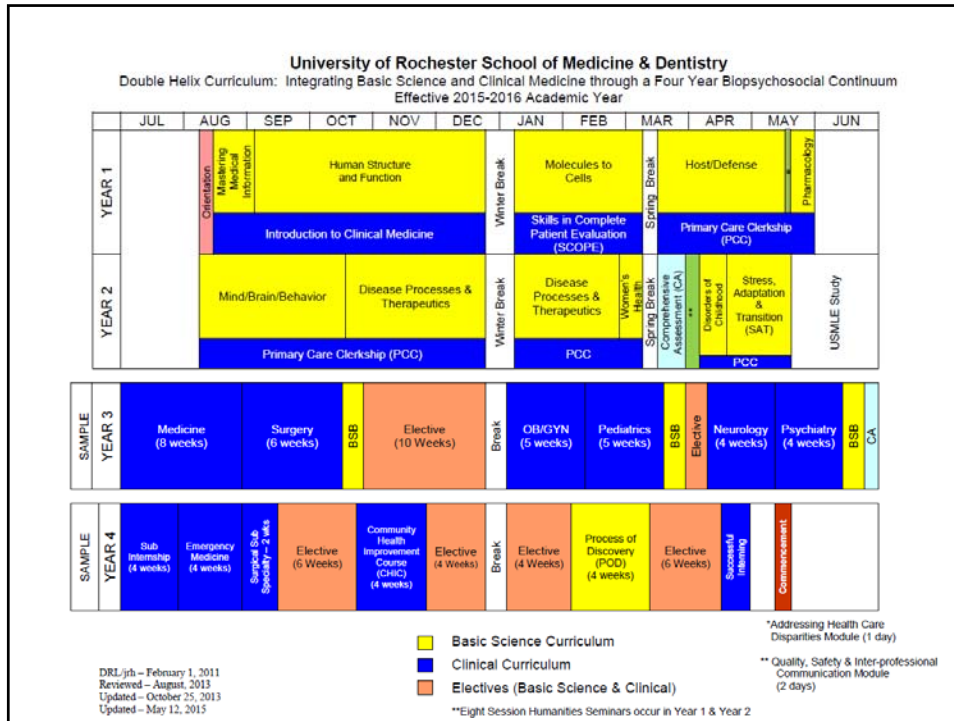
- Adult neurology residency program
 - Adam Kelly, Clara Vigelette
- Child neurology residency program
 - Rob Stone, Magda Ramzy
- Neurology clerkship
 - Rob Stone, Fred Marshall, Lorie Wolfanger

Fellowship Directors

- Erika Augustine
- Emma Ciafaloni
- Andrew Goodman
- Robert Griggs
- Lynn Liu
- Eric Logigian
- Fred Marshall
- Nimish Mohile
- Irene Richard
- Bogachan Sahin
- Michael Yurcheshen

Medical School Programs





The Continuum of Neurologic Education in the UR Double Helix Curriculum

- Second Year Mind, Brain and Behavior I
PCC – Neurology
- Third Year Mind, Brain and Behavior II
- Fourth Year Neurology Electives

Neural Science Course History

- 1970's – First neural science course established by Robert Joynt and David Goldblatt
- 1988 – David Felten recruited to take over the course
- 2000 – “Mind, Brain and Behavior” course debuts, as part of the Double Helix Curriculum

Mind, Brain and Behavior I Course Content

- Neural Sciences
- Neuropathology
- Neuropharmacology
- Psychopathology
- Psychopharmacology
- Neuromuscular Diseases

Mind, Brain and Behavior I

Course Format

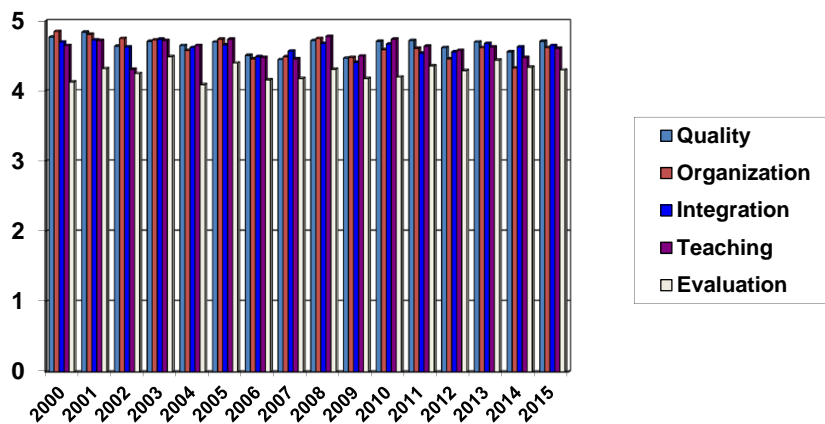
- 200 hours (10 weeks, 20 hours per week)
- Weekly schedule:
 - 10 lectures (2 daily)
 - 2 laboratories
 - 3 PBL's
- 3 examinations

PROTOTYPICAL WEEK – MBB I					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00 am	PBL TUTORIAL	LECTURE	PBL TUTORIAL	LECTURE	PBL TUTORIAL
10:00 am	LECTURE	LABORATORY	LECTURE	LABORATORY	LECTURE
12:00 noon			Advisory Groups		
1:00 pm	BIOPSYCHOSOCIAL INTEGRATION CONFERENCE	ACE	PBL SELF STUDY	ACE	PBL SELF STUDY
4:00 pm			MEDICAL HUMANITIES SEMINARS		
5:00 pm					
6:00 pm					

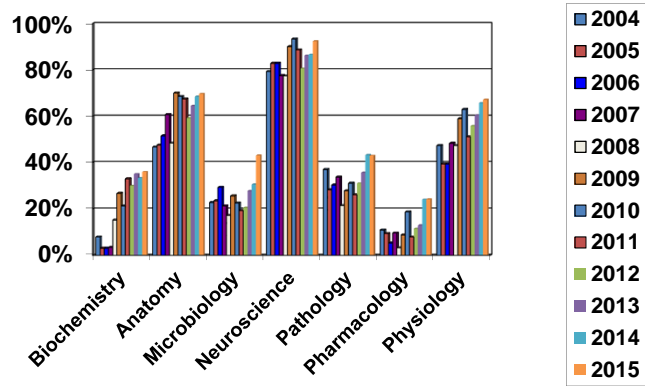
Neurology Faculty Teaching in MBB I

- Erika Augustine
- Michel Berg
- Emma Ciafaloni
- Charles Duffy
- David Gill
- Robert Gross
- David Herrmann
- Ralph Józefowicz
- Eric Logigian
- Jonathan Mink
- Christopher Tarolli
- Rabi Tawil
- Charles Thornton

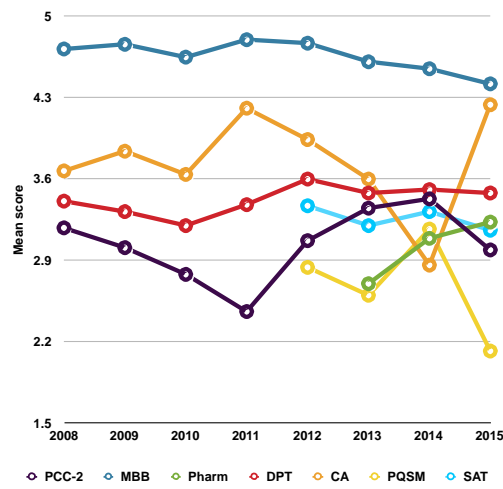
MBB Course Attributes



Basic Science Preparation AAMC UR Graduation Questionnaire % Excellent Rating



Overall 2nd Year Course Quality



1 = poor; 5 = excellent

Neurology Clerkship History

- 1970's – Neurology Clerkship established by David Goldblatt; Adele Cook is first clerkship coordinator
- 1980's – Neurology becomes a “selective”
- 1994 – Neurology becomes a 4th year required clerkship
- 1996 – Nancy Benjamin becomes clerkship coordinator
- 2000 – Neurology clerkship moves into the 3rd year
- 2001 – “MBB II” debuts, pairing the Neurology and Psychiatry Clerkships with a Basic Science Block
- 2014 – Lorie Wolfanger becomes clerkship coordinator

Mind, Brain and Behavior II

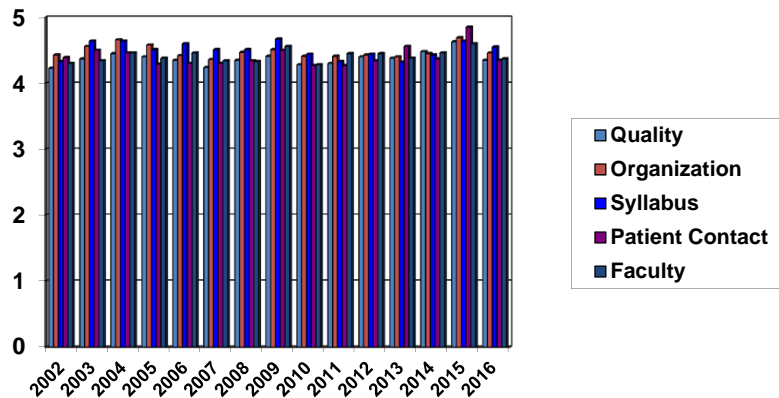
- Neurology clerkship 4 weeks
- Psychiatry clerkship 4 weeks
- Basic science correlation 2 weeks

- Integrated conference series 8 weeks

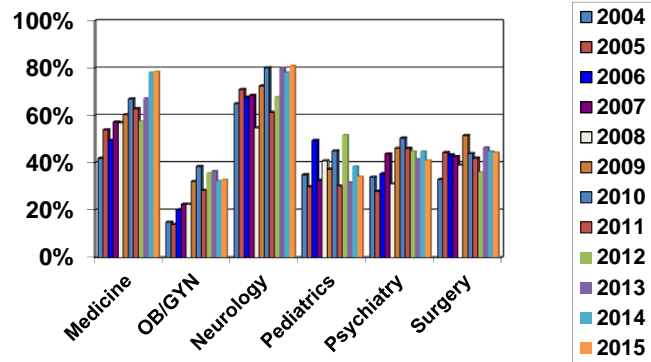
Neurology Clerkship Sites

- SMH inpatient neurology 8 students
- SMH child neurology 2 students
- SMH Neuromedicine ICU 2 students
- HH consultation service 1 student
- Bushnell's Basin practice 1 student
- Private practice 0-2 students

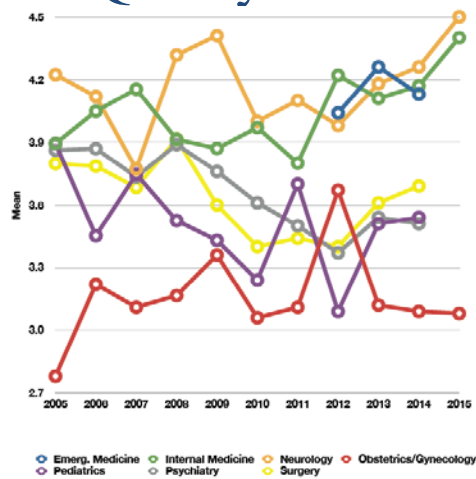
Neurology Clerkship Evaluation



Clerkship Quality AAMC UR Graduation Questionnaire % Excellent Rating



Overall Quality of Clerkships



1 = poor; 5 = excellent

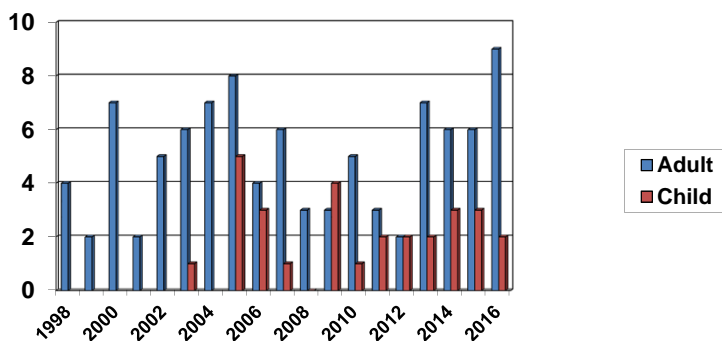
What were the strengths of the clerkship?

“I was impressed by how knowledgeable the faculty was. Every attending and resident I worked with was very thorough and practiced using the latest evidence.”

“Attendings are willing to spend time during rounds to teach. Residents appreciate the need to give us a role within the team. I evaluated more new patients on this clerkship than in any one so far.”

“This was my first clerkship, and I imagine that every subsequent clerkship will suffer in comparison.”

UR Students Matching in Neurology



UR Students Matching in Adult Neurology – 2001-2016

• U Rochester	25	• U Florida	2
• U Virginia	5	• U Vermont	2
• Harvard BI	4	• Duke	1
• U Penn	4	• Harvard MGH	1
• UCSF	4	• Mayo Clinic	1
• Johns Hopkins	3	• Mount Sinai	1
• U Maryland	3	• Northwestern U	1
• U Michigan	3	• Stony Brook	1
• U Utah	3	• UC Irvine	1
• Einstein	2	• U Cincinnati	1
• Cornell	2	• U North Carolina	1
• NYU	2	• U Pittsburgh	1
• UC Davis	2	• UT Southwestern	1
• UCLA	2	• U Washington	1
Total = 81		• Wake Forest	1

UR Students Matching in Child Neurology – 2001-2016

• U Rochester	7	• Harvard MGH	1
• CHOP	3	• Nationwide OH	1
• Northwestern	2	• NYU	1
• Cincinnati	2	• St. Louis Children's	1
• Johns Hopkins	2	• U Colorado	1
• Baylor	1	• U New Mexico	1
• Boston Children's	1	• U Pittsburgh	1
• Case Western	1	• Wake Forest	1
• CNMC DC	1	• Wash U	1
Total = 29			

Residency Programs



Neurology Residency History

- 1967 – Neurology residency established – David Marsh is first program director; Jerry Honch and Marvin Goldstein are among first residents.
- 1985 – Clara Vigelette appointed program coordinator
- 1987 – Roger Kurlan appointed program director
- 2003 – Child neurology residency re-established
- 2004 – Night float rotation debuts
- 2006 – Residency becomes 4-year categorical program
- 2013 – Rob Stone appointed CN program director

Neurology Residency Program

- Four year program
 - Adult neurology 6 residents per year
 - Child neurology 2 residents per year
- Clinical sites
 - Strong Memorial Hospital
 - Highland Hospital

UR Neurology Residency Program Accreditation Status

- July 2010 site visit
- Continued Full Accreditation
- Cycle length – 5 years
- 0 citations, 3 commendations
- Next RRC review – 2020 (NAS self study)

Adult Neurology Residency Program Application Data

	2010	2011	2012	2013	2014	2015	2016
Applications	383	447	402	422	466	446	574
Invited	52	74	66	71	67	77	73
Interviewed	42	57	52	58	51	60	62
US grads	34	54	49	54	48	56	57
USMLE 1	227	229	226	229	233	234	235

Adult Neurology Residency Interviews – 2016

Applications received	574
US graduates	202
LCME accredited schools	168
AOA	14
Invited to interview	73
Interviewed	62

Child Neurology Residency Program Application Data

	2010	2011	2012	2013	2014	2015	2016
Applications	18	28	65	98	92	121	122
Interviewed	5	14	15	16	19	22	32
Matched	0	2	2	2	2	0	2

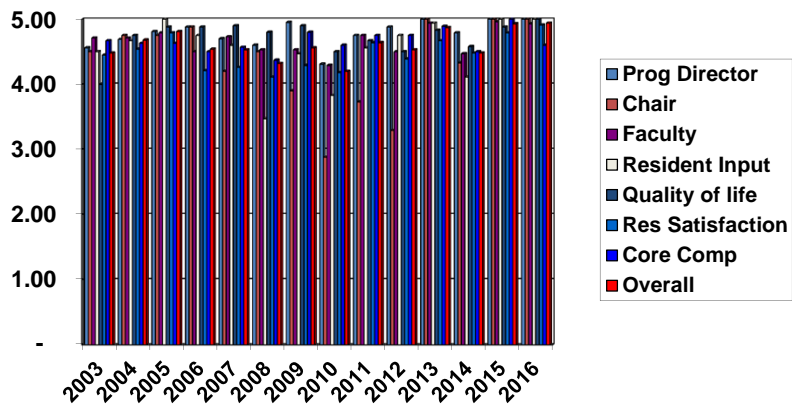
Child Neurology Residency Interviews – 2016

Applications received	122
US graduates	41
LCME accredited schools	36
AOA	5
Invited to interview	37
Interviewed	32

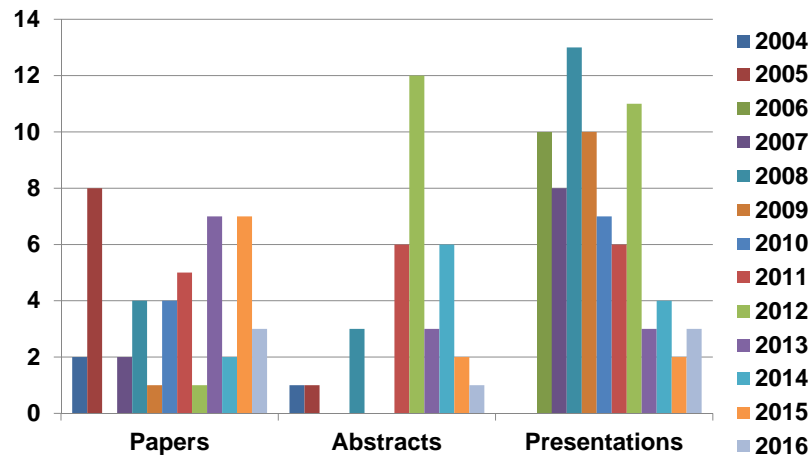
Graduating Residents – 2016



Graduating Residents' Program Evaluation



Resident Research Outcomes



Alpha Omega Alpha Inductees 2000-2015

- Neurology residents 15
- Neurology faculty 3

Arnold Gold Foundation
Humanism in Medicine Awards
2000-2016

- Gold Foundation awardees: 28
- Honorable mention: 7

Class of 1990
Resident Teaching Award
2005-2016

- # of Neurology Resident Awardees 7

Fellowships Pursued by UR Neurology Residency Graduates 2001-2016

University of Rochester	57	Outside Institutions	16
• Neurophysiology	22	• Multiple Sclerosis	2
• Vascular Neurology	8	– Cleveland, UVA	
• Neuroimmunology	1	• Neuromuscular /CNP	4
• Neuromuscular	6	– Mayo Scottsdale, Columbia, Walter Reed, UCSF	
• Sleep Medicine	1	• Movement	1
• Neuro-Oncology	2	– U Penn	
• Experimental Therapeutics	8	• Oncology	1
• Departmental	9	– Sloan Kettering	
		• Sleep	4
		– Michigan, Cleveland, Vanderbilt	
		• Neuroimaging	1
		• Vascular Neurology	2
		– Wash U, U Washington	
		• Headache	1
		– Dent	

Residency Program Initiatives 2015-2016

- Mentoring Program
- Career Development Lecture Series
- Milestones – New Accreditation System

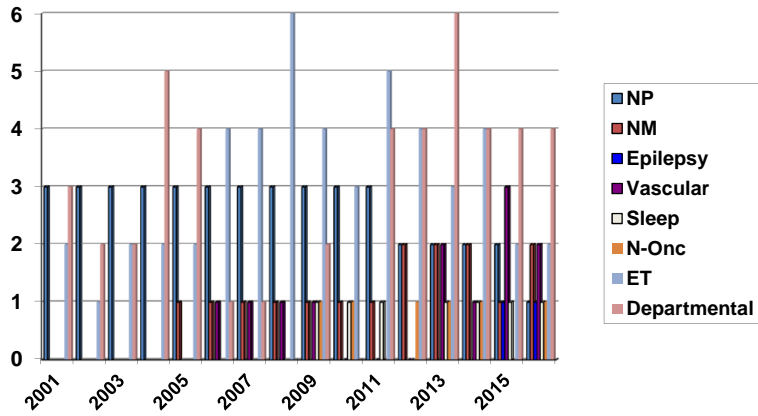
UR Fellowship Programs



Accredited Fellowships

- ACGME
 - Clinical Neurophysiology 2 positions
 - Epilepsy 2 positions
 - Neuromuscular Medicine 2 position
 - Vascular Neurology 2 positions
 - Sleep Medicine 1 position
- UCNS
 - Neuro-oncology 1 position

UR Neurology Fellows



UR Neurology Fellows 2016-2017

Fellowship	# of Fellows
Clinical neurophysiology	1
Neuromuscular medicine	2
Epilepsy	1
Vascular medicine	2
Sleep disorders	1
Neuro-oncology	1
Experimental therapeutics	2
Departmental	4

The 2016 Krakow Stars!



University of Navarra – 2016



