

## VA PORTLAND HEALTH CARE SYSTEM/OREGON HEALTH AND SCIENCE UNIVERSITY MS FELLOWSHIP TRAINING DIDACTICS

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### MS FACULTY

Each fellow is assigned a one-on-one mentor that they will meet with on a regular basis. Other mentors may also be assigned based on the fellow's needs.

Mentor	Title	Expertise
Jacqueline Bernard, MD, FAAN	OHSU Neurologist	
Dennis Bourdette, MD, FAAN	OHSU Neurologist Chair, OHSU Neurology	bench and clinical research, career development
Michelle Cameron, MD, PT, MCR	OHSU & VA Neurologist Co-Director, MSCoE West Clinical Director, VA MS Clinic	clinical research, balance, falls
Edward Kim, MD	OHSU Neurologist	
Michelle Mass, MD	OHSU Neurologist	clinical research, neuropath
Rebecca Spain, MD, MsPH	OHSU and VA Neurologist Associate Director, MSCoE West	clinical research, lipoic acid
Ruth Whitham, MD	OHSU Neurologist	
Vijayshree Yadav, MD	OHSU and VA Neurologist Associate Director, MSCoE West Clinical Director, OHSU MS Clinic	clinical research, diet, CAM

### CLINICAL RESPONSIBILITIES

Fellows are provided several opportunities to gain clinical skills within a variety of settings. MS Faculty are available at all MS Clinics for staffing and/or discussions.

- VA MS Clinic: Every Friday for a ½ day.
- OHSU MS Clinic: Every Monday and Wednesday for a ½ day.
- Optional ½ Day Other Clinics: Fellows can participate in additional clinics such as neuro-ophthalmology, neuro-rehab, urology, rheumatology or hematology/oncology.
- VA Inpatient Attending: A 1-2-week block is assigned to fellows in year two.
- OHSU Inpatient Night and Weekend Home Attending Call: An average of two 1-week blocks will be assigned each year, with pay.
- OHSU MS/Neuroimmunology Inpatient Consult Service: Fellows share and sign up for coverage in 1-week blocks. Consults occur 9am - 5pm on non-holiday weekdays only.
- MS Study Outcome Assessments: Fellows will be available for EDSS, MSFC, T25FW, TUG, etc.

### GROUP EDUCATION

A series of meetings occur to provide opportunities for learning and collaboration. The first 3 months of the fellowship will be an "MS Boot Camp" that will cover clinic and research logistics as well as general MS care. Outside scientists and providers are selected for presentations throughout the year.

#### Thursdays @ 10:30am - 11am

Week 1: VA MS Staff Meeting (fellows, VA faculty, VA MS support staff)

Week 2: Clinical Case Presentations (fellows, faculty)

Week 3: Research Meeting (research assistants, research faculty, fellows)

Week 4: Research Presentations (fellows, faculty)

### **Thursdays @ 11am - 12pm**

Week 1: Journal Club (fellows, faculty)

Week 2: OHSU MS Center Staff Meeting (fellows, OHSU faculty)

Week 3: Journal Club (fellows, faculty)

Week 4: Clinical Case Presentations (fellows, faculty)

Week 5: Reschedule missed sessions and/or fellow Publications (fellows, faculty)

Additional neurology conferences occur throughout the month. These conferences are not MS specific, but fellows are encouraged to attend.

### **Thursdays @ 12pm - 1pm**

Noon Conference: Neurology topics are presented with M&M occurring once a month

### **Wednesday @ 8am - 9 am (except in summer)**

Neurology Grand Rounds: Neurology topics are presented by faculty

## **RESEARCH**

Fellows are expected to participate in faculty research (e.g. as examining physician, treating physician), including MS study outcome assessments (e.g. EDSS, MSFC, T25FW, TUG). Fellows are encouraged to design their own research study, and ideally complete it.

## **PRESENTATIONS AND PUBLICATION**

Fellows are expected to present a current paper at two MS Journal Clubs each year. Fellows are also expected to present at one Thursday Noon Conference with mentor guidance. Each presentation is one hour, which includes time for discussion. Fellows are also expected to publish at least one first author peer-reviewed paper.

## **NATIONAL CONFERENCES**

Fellows will have several opportunities to attend academic conferences. We will fund up to two meetings per academic year, most likely from ACTRIMS, AAN or CMSC. Fellows should take the CMSC Masters in MS program or ACTRIMS Advanced Curriculum once. Fellows are encouraged to attend the National MS Society "Clinical Fellowship" and "Tykeson" meetings. OHSU hosts the "International Gait and Balance in MS" symposium every fall and the "MS and CNS Neuroimmunology" conference every spring.

## **OHSU HUMAN INVESTIGATIONS PROGRAM**

Fellows will enroll in the Oregon Clinical and Translational Research Institute (OCTRI) Human Investigations Program which offers an integrated clinical and translational research education curriculum. The free courses are chosen by the fellow. Admission into the Master's program (MCR) will require discussion of possible tuition subsidy.

## **VA MULTIPLE SCLEROSIS CENTERS OF EXCELLENCE**

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The VA Multiple Sclerosis Centers of Excellence (MSCoE) are dedicated to furthering the understanding of MS, its impact on Veterans, and effective treatments to help manage the disease and the symptoms of MS. There are two national MSCoE coordinating Centers within the VHA, MSCoE-East located in Baltimore, MD and MSCoE-West jointly located in Seattle, WA and Portland, OR. By partnering with Veterans, caregivers, health care providers and other service organizations MSCoE hopes to minimize impairment and maximize quality of life for Veterans with MS.

## **OHSU ADVANCED IMAGING CENTER**

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The Advanced Imaging Center (AIRC) at OHSU has as its basic mission the advancement of medical imaging. With this charge it has become a center for cutting-edge research in imaging science. It is a research facility independent of existing departments at OHSU. The AIRC has services and equipment to facilitate a wide range of research topics from mechanisms of attention in patients with ADHD to exploring animal models of multiple sclerosis in Japanese Macaque primates. It has established guidelines to help interested investigators maximize the utilization of available resources. The AIRC holds monthly scientific seminars that include scientific presentations by investigators or other experts.

## **HUMAN INVESTIGATIONS PROGRAM (HIP) AT OHSU**

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The Human Investigations Program (HIP) at OHSU, a curriculum resulting in a Certificate in Human Investigations or Master of Clinical Research degree, is designed to meet the growing need for clinical and translational investigators. A non-degree track allows enrollment in individual courses. With increased knowledge of the basic science of disease, clinical and translational scientists can translate these concepts from the bench to the bedside and to the community. This program is targeted to medical or dental residents and fellows, postdoctoral research fellows, faculty of the medical, nursing and dental schools, clinicians and researchers from the community interested in developing research skills in human investigation. HIP strives to provide an educational foundation for successful, comprehensively trained researchers based upon the competencies of clinical and translational research. These competencies include:

- Identify major clinical and public health problems and relevant research questions.
- Interpret and critique literature to assess the state of knowledge regarding a clinical or public health problem.
- Design and write a protocol for a clinical and translational research study.
- Understand different study design options as to their feasibility, efficiency, and ability to derive unbiased inference.
- Use valid and reliable measures and identify and assess threats to study validity such as bias.
- Use descriptive and inferential statistics appropriate for the study design.
- Identify, evaluate and minimize risk to research subjects in a clinical and translational research project.
- Effectively communicate scientific information to the public and to scientific peers.
- Develop and adapt clinical research approaches to engage a diverse population.
- Work effectively in a multidisciplinary team.

<http://www.ohsu.edu/xd/education/schools/school-of-medicine/academic-programs/hip/>