Traveling CME Neurosciences 2015—2016

Date: Upon request
Location: Your practice

Who: Internists, family physicians, neurologists, naturopathic doctors, nurse practitioners, physical and occupational therapists, residents, fellows, physical therapists, registered nurses, medical and nursing students

1.0 AMA PRA Category 1 Credit™
Traveling Neurosciences CME — OHSU Brain Institute Faculty

Prakash Ambady, M.D.
Assistant professor, Neuro-oncology, Neuro-oncology, neurological surgery

Noah Beadell, M.D.
Assistant professor, Neurology, stroke

Lissa Baird, M.D.
Assistant professor, Department of Neurosurgery, Pediatric neurological surgery

Dennis Bourdette, M.D., F.A.A.N, F.A.N.A.
Chair and Ray and Eulalia Swank Family Research Professor, Neurology
Executive director, OHSU Multiple Sclerosis Center (Multiple sclerosis, neuroimmunology, neurology)

Hormozd Bozorgchami, M.D.
Assistant professor, Neurology, stroke, interventional radiology

Matthew Brodsky, M.D.
Associate professor, Neurology (Parkinson’s and movement disorders)

Kim Burchiel, M.D., F.A.C.S.
Chair, Department of Neurological Surgery, John Raaf Professor
(Movement disorders and Parkinson’s, neurological surgery)

Justin Cetas, M.D., Ph.D.
Assistant professor, Neurosurgical Surgery, Chief, Neurological Surgery, Portland VA Medical Center
(Cerebrovascular, neuro-oncology skull base, neurological surgery)

Jason Chang, M.D.
Assistant professor, Neurological Surgery (Complex neurological surgery, spine surgery, spine oncology, cervical spine disorders)

Kathryn Chung, M.D.
Assistant professor, Neurology (Parkinson’s and movement disorders)

Jeremy Ciporen, M.D.
Assistant professor, Neurological Surgery, Director of Neurosurgical Oncology
(Cerebrovascular, neurosurgery)

Wayne Clark, M.D.
Professor, Neurology, Director, OHSU Stroke Center (Neurology, stroke)

Marien Dale, M.D.
Assistant professor, Neurology (Parkinson’s and movement disorders)

Alexandra Dimitrova, M.D., M.A.
Assistant professor, Neurology (Neurology)

Aclan Dogan, M.D.
Associate professor, Neurological Surgery (Cerebrovascular, neuro-oncology skull base, neurosurgery)

Lia deLeon Ernst, M.D.
Assistant professor, Neurology (Neurology, epilepsy, seizure disorders, clinical neurophysiology)

Maria Fleseriu, M.D., F.A.C.E.
Professor, Medicine, Endocrinology, and Neurological Surgery
Director, OHSU NW Pituitary Center (Neuroendocrinology, pituitary and adrenal disorders)

Amie Hiller, M.D.
Assistant professor, Neurology (Parkinson’s and movement disorders)

Jeffrey Kaye, M.D.
Professor, Neurology and Biomedical Engineering, Director, Oregon Center for Aging and Alzheimer’s Disease Center
Director, Oregon Center for Aging and Technology (Aging and Alzheimer’s)

Julie Khoury, M.D.
Assistant professor, Neurology (ALS/MDA, neuromuscular)
Edward Kim, M.D.
Assistant professor, Neurology
(Multiple sclerosis and neuroimmunology)

Jeff Kraakevik, M.D.
Assistant professor, Neurology
(Parkinson’s and movement disorders)

Helmi Lutsep, M.D.
Professor and Vice Chair, Neurology
Associate director, OHSU Stroke Center
(Stroke, neurology)

Paul Motika, M.D.
Assistant professor, Neurology
(Neurology, epilepsy, seizure disorders, clinical neurophysiology)

Gary Nesbit, M.D.
Professor, Dotter Institute and Interventional Radiology
(Neurology, stroke)

John Nutt, M.D.
Professor, Neurology
Director Emeritus, Parkinson Center of Oregon
(Parkinson’s and movement disorders)

Ronald Pfeiffer, M.D.
Assistant professor, Neurology
(Parkinson’s and movement disorders)

Joseph Quinn, M.D.
Professor, Neurology
Director, Parkinson Center of Oregon
(Parkinson’s and movement disorders, aging and Alzheimer’s)

Ahmed Raslan, M.D.
Assistant professor, Neurological Surgery
(Neurological surgery)

Christina Sayama, M.D., M.P.H.
Assistant professor, Neurological Surgery
(Pediatric surgery)

Nathan Selden, M.D., Ph.D., F.A.C.S., F.A.A.P.
Professor, Neurological Surgery
Campagna Chair, Pediatric Neurosurgery
(Pediatric neurological surgery)

Lynne Shinto, N.D., M.P.H.
Associate professor, Neurology
(Naturopathic medicine, neurology and women’s health)

Lisa Silbert, M.D., M.C.R.
Associate professor, Neurology
(Aging and Alzheimer’s, clinical neurophysiology)

David Spencer, M.D.
Professor, Neurology
Director, OHSU Comprehensive Epilepsy Center
(Neurology, epilepsy, seizure disorders, clinical neurophysiology)

Khoi Than, M.D.
Assistant professor, Neurosurgery
(Neurosurgery, spine surgery)

Victoria Wong, M.D.
Assistant professor, Neurology
(Neurology, epilepsy, seizure disorders, clinical neurophysiology)

Vijayshree Yadav, M.D., M.C.R.
Associate professor, Neurology
Clinical Director, OHSU Multiple Sclerosis Center
(Multiple sclerosis, neuroimmunology)

Chris Yedinak, M.N., F.N.P., D.N.P.
Assistant professor, Neurological Surgery
Family Nurse Practitioner
(Neurological surgery)

(Speakers subject to change)
AGING, ALZHEIMER’S AND DEMENTIA

Dementia: Overview and Management
Speakers: Jeffrey Kaye, M.D.; Joseph Quinn, M.D.; Lisa Silbert, M.D., M.C.R.
Objectives: Participants will learn to conduct basic diagnostic evaluation of cognitive disorders, be able to identify appropriate candidates for specialty referral, be able to review medical options for managing cognitive decline and common behavioral problems in dementia, and be better able to identify resources for providing ancillary services (e.g., education, support groups, driving evaluations) to dementia patients and caregivers.

ALS AND NEUROMUSCULAR

Dystrophic and Non-Dystrophic Myotonic Disorders
Speakers: Julie Khoury, M.D.
Objectives: Discuss the presenting symptoms and physical examination findings of myotonic disorders, review the genetic basis of these diseases and discuss symptomatic treatment for myotonic disorders.

Multiple Faces of Diabetic Neuropathies
Speakers: Julie Khoury, M.D.
Objectives: Participants will be able to recognize the presentation of diabetes-related autonomic neuropathy, small fiber neuropathy, radiculoplexus neuropathy and others.

Neuromuscular Emergencies
Speakers: Julie Khoury, M.D.
Objectives: Recognize and diagnose the neuromuscular conditions that cause respiratory failure such as Guillain-Barré syndrome and myasthenic crisis.

Neuromuscular Neurology for the Primary Care Physician: Case Presentations
Speakers: Julie Khoury, M.D.
Objectives: Review symptoms of common and some uncommon neuromuscular disorders, recognize the important physical examination findings in these disorders, and review laboratory, imaging and EMG findings as well as treatment.

Proximal Weakness — Approach with the Adult Patient
Speakers: Julie Khoury, M.D.
Objectives: Cases of patients presenting with proximal weakness will be reviewed with focus on differential diagnosis and diagnostic evaluation.

Recognizing the Muscular Dystrophies
Speakers: Julie Khoury, M.D.
Objectives: Review the typical presentations of adult-onset muscular dystrophies and approach to diagnostic evaluation when muscular dystrophy is suspected, and understand recent updates in treatment of Duchenne muscular dystrophy.

CEREBROVASCULAR

Acute Stroke Treatment
Speakers: Noah Beadell, M.D.; Hormozd Bozorgchami, M.D.; Wayne Clark, M.D.; Helmi Lutsep, M.D.
Objectives: Describe current selection of patients for intravenous rtPA treatment, review the results of major intra-arterial mechanical embolectomy device trials in acute stroke and discuss potential future approaches to acute stroke care, including imaging selection.
Cerebral Aneurysms
Speakers: Justin Cetas, M.D.; Aclan Dogan, M.D.
Objectives: Analyze individual patients and develop more informed treatment recommendations, evaluate latest advances and available outcomes data to determine their significance for ruptured and un-ruptured intracranial aneurysms, assess treatment failures in intracranial aneurysms treated with either modality, and assemble strategies for treatment and salvage of recurrent and difficult intracranial aneurysms.

Cerebral and Spinal AV Fistula: Understanding a Complex Disease
Speaker: Gary Nesbitt, M.D.
Objectives: Understand the variety of arteriovenous fistula of the brain and spine, and their confusing clinical presentation, discuss imaging strategies, treatment paradigms and outcomes expectations.

Carotid Stenosis and the Prevention of Stroke
Speaker: Gary Nesbitt, M.D.
Objectives: Understand the variety of non-invasive methods of evaluation and risk analysis of symptomatic and asymptomatic carotid stenosis, discuss the management options and outcomes of data medical therapy, endarterectomy and angioplasty and stenting.

Painful Vertebral Compression Fractures
Speaker: Gary Nesbitt, M.D.
Objectives: Understand the clinical and imaging methods of evaluation of vertebral compression fractures to determine their relationship to severe back pain, discuss the management options and outcomes data of medical therapy, kyphoplasty, vertebroplasty in osteoporotic and pathologic compression fractures.

Stroke Prevention
Speakers: Noah Beadell, M.D.; Hormozd Bozorgchami, M.D.; Wayne Clark, M.D.; Helmi Lutsep, M.D.
Objectives: Review the results of recent stroke prevention studies, describe the aggressive medical management protocol for intracranial stenosis and discuss the status of carotid endarterectomy and stenting.

Subarachnoid Hemorrhage and Cerebral Vasospasm
Speaker: Justin Cetas, M.D., Ph.D.
Objectives: Define the terms delayed ischemic neurological deficits (DIND) and cerebral vasospasm in the setting of subarachnoid hemorrhage, describe the time course and associated signs of delayed ischemic neurological deficits, describe the current medical therapies for the prevention of DIND and describe the interventional therapies available for the treatment of cerebral vasospasm and DIND.

Subarachnoid Hemorrhages: Treatment of Aneurysms
Speakers: Justin Cetas, M.D., Ph.D.; Aclan Dogan, M.D.
Objectives: Explain the components of a dual-trained endovascular neurosurgeon’s practice; examine how dual-trained neurosurgeons use their open and endovascular skill sets to evaluate and treat CV disease; recognize the special features of aneurysms at specific sites, recognize potential pitfalls for safe lesion treatment; identify new methods of intervention for cerebral aneurysms, assess treatment failures in intracranial aneurysms, treated with either modality; and assemble strategies for treatment and salvage of recurrent and difficult intracranial aneurysms.
Traumatic Brain Injury
Speakers: Justin Cetas, M.D., Ph.D.; Ahmed Raslan, M.D.
Objectives: Identify patients at risk for elevated intracranial pressure following head trauma, understand the role for invasive intracranial pressure monitoring and describe the Glasgow Coma Scale.

The Unruptured Cerebral Aneurysm
Speaker: Gary Nesbitt, M.D.
Objectives: Understand the imaging and risk analysis of an unruptured aneurysm, discuss the management options and outcomes data of surgical and interventional therapy and the decision-making strategy of a multidisciplinary team.

EPILEPSY

Medication Management for Epilepsy
Speakers: Lia deLeon Ernst, M.D.; Justin Meuse, M.D.; Paul Motika, M.D.; David Spencer, M.D.; Victoria Wong, M.D.
Objectives: Review currently available anti-epileptic medications, discuss the importance of defining the seizure syndrome when choosing a medication, understand medication selection and discuss the importance of considering side effect profiles.

Seizure Types and Epilepsy Syndromes
Speakers: Justin Meuse, M.D.; Paul Motika, M.D.; David Spencer, M.D.; Victoria Wong, M.D.
Objectives: Differentiate between and recognize different types of seizures and epilepsy syndromes (as well as seizure mimics), apply basic principles of epilepsy management including use of anti-seizure medications, additional treatment options and knowing when to refer to a specialist.

Surgical Treatment of Epilepsy for Neurologists
Speakers: Lia deLeon Ernst, M.D.; Justin Meuse, M.D.; Paul Motika, M.D.; David Spencer, M.D.; Victoria Wong, M.D.
Objectives: Improve early recognition of medically refractory epilepsy and identify patients who should be referred for surgical management, become familiar with the range of surgical options for the treatment of epilepsy, understand the risks and benefits associated with epilepsy surgery in the context of the risks of ineffective long-term medical therapy, and recognize barriers to effective surgical treatment of epilepsy.

GENERAL NEUROLOGY

Medical Acupuncture for the Treatment of Pain: Applications and Mechanism of Action
Speaker: Alexandra Dimitrova, M.D., M.A.
Objectives: Discuss various evidence-based applications of acupuncture for the treatment of headache and pain, as well as its mechanism of action at the level of the peripheral and central nervous system.

GENERAL WELLNESS

Wellness and Neurological Diseases
Speaker: Lynne Shinto, N.D., M.P.H.
Objectives: Review diet, physical activity, and stress reduction and discuss commonly used dietary supplements (e.g., omega-3 fatty acids, vitamins and minerals).
MULTIPLE SCLEROSIS

Imaging and Multiple Sclerosis for Neurologists
*Speakers: Dennis Bourdette, M.D., F.A.N.A., F.A.A.N.; Edward Kim, M.D.; Vijayshree Yadav, M.D.*
Objectives: Become familiar with the key imaging technologies utilized in MS diagnosis and disease monitoring.

Overview and Symptomatic Treatment of Multiple Sclerosis for Neurologists
*Speakers: Dennis Bourdette, M.D., F.A.N.A., F.A.A.N.; Edward Kim, M.D.; Vijayshree Yadav, M.D.*
Objectives: Understand common symptoms, current pathogenesis, become familiar with the newer approved treatment options and how to effectively manage those symptoms with primary care providers.

NERVE

Peripheral Nerve
*Speaker: Kim Burchiel, M.D., F.A.C.S.*
Objectives: List common peripheral nerve entrapment syndromes and their surgical management, describe the principle of nerve transfer and describe the role of surgery in nerve tumors.

NEURO-ONCOLOGY / SKULL BASE

Acoustic Neuromas
*Speakers: Jeremy Ciporen, M.D.; Aclan Dogan, M.D.*
Objectives: Identify the indications for operative treatment, radiation treatment, drug treatment and observation, apply technical details of acoustic tumor surgery, discuss how to avoid complications and study the outcome of surgery, radiation treatment and observation.

NEW

Advances in the Management of High-Grade Glioma
*Speaker: Prakash Ambady, M.D.*
Objectives: Discuss the updates in the classification of high-grade gliomas with emphasis on the importance of molecular classification, and review the standard of care and emerging therapies for treatment of high-grade gliomas.

NEW

Minimally Invasive Approaches to Brain Tumors
*Speaker: Jeremy Ciporen, M.D.*
Objectives: Understand the initial diagnosis and work up, identify the sometimes subtle, clinical presentations patients may have with a serious neurosurgical problem, learn the treatment options and outcomes these patients can expect, learn about resources to better care for patients.

NEW

Neurosurgery Update: Cutting-Edge Techniques in the Treatment of Brain Tumors
*Speaker: Jeremy Ciporen, M.D.*
Objectives: To familiarize the attendees with the initial diagnosis and work up, identify, the sometimes subtle, clinical presentations patients may have with a serious neurosurgical problem, educate attendees on the treatment options and outcomes these patients can expect, summarize and answer any questions attendees may have and provide them with resources to better care for their patients.
Role of Novel Imaging Biomarkers in Management of Brain Tumors

Speaker: Prakash Ambady, M.D.
Objectives: Review the role of various imaging modalities for diagnosis, follow up and response assessment in brain tumors, introduction to high resolution steady state MRI with ferumoxytol and its role in the management of brain tumors.

Traumatic Brain Injury

Speakers: Justin Cetas, M.D., Ph.D.; Ahmed Raslan, M.D.
Objectives: Identify patients at risk for elevated intracranial pressure following head trauma, understand the role for invasive intracranial pressure monitoring and describe the Glasgow Coma Scale.

Treatment Options and Approaches to Primary Brain Tumors, Metastatic Disease and Infections

Speakers: Jeremy Ciporen, M.D.; Aclan Dogan, M.D.
Objectives: Understand the initial diagnosis and work up, identify the sometimes subtle, clinical presentations patients may have with a serious neurosurgical problem, learn treatment options and outcomes patients can expect, learn about resources to better care for patients.

PAIN

Facial Pain

Speaker: Kim Burchiel, M.D., F.A.C.S.
Objectives: Describe how facial pain is classified, describe the role of advance imaging in facial pain and understand the major surgical approaches to facial pain.

Neuromodulation and Chronic Pain: Can Neurosurgeons Help?

Speaker: Ahmed Raslan, M.D.
Objectives: Understand the history of neurosurgery and pain, review the anatomy and physiology of pain perception and the physiology of neuromodulation of pain, understand the two main neurosurgical approaches to pain treatment (modulation and ablation) and review indications and candidacy to neurosurgical management.

Surgical Management of Cancer Pain

Speaker: Ahmed Raslan, M.D.
Objectives: Review the anatomy and prevalence of cancer pain and the guidelines for treatment of cancer pain, understand indications for ablative neurosurgery for cancer pain, review the candidacy and the available ablative neurosurgical options for cancer pain and review and analyze the existing data to support ablative neurosurgery for cancer pain.

PARKINSON’S AND MOVEMENT DISORDERS

Clinical Assessment of Falls

Speaker: Jeff Kraakevik, M.D.
Objectives: Identify common causes of falls in neurologic diseases, describe necessary components of the history and physical examination in a person with balance complaints, clinically differentiate classic gait patterns on examination and appropriately outline a tailored treatment plan for future fall prevention.
Comprehensive Care for Parkinson’s Disease
Speakers: Matthew Brodsky, M.D.; Kathryn Chung, M.D.; Marion Dale, M.D.; Amie Hiller, M.D.; Jeff Kraakevik, M.D.; John Nutt, M.D.; Ronald Pfeiffer, M.D.
Objectives: Identify diagnostic criteria for Parkinson’s disease, identify appropriate medical therapy options at different stages of disease, understand recent developments and indications for surgical therapy, discuss team approach for rehab therapy.

Movement Disorder Surgery
Speakers: Kim Burchiel, M.D., F.A.C.S.; Ahmed Raslan, M.D.
Objectives: Describe the history of movement disorder surgery, understand the difference between destructive surgery and brain stimulation and understand the current use of deep brain stimulation for movement disorders.

PEDIATRICS
Advances in Pediatric Neurosurgery
Objectives: Identify indications for neurosurgical referral in children, understand uses of modern imaging and computer navigation, learn how best to counsel children and parents about expectations for neurosurgical referral and treatment.

Brain Tumors

Epilepsy in Children
Speakers: Colin Roberts, M.D.; Nathan Selden, M.D., Ph.D., F.A.C.S., F.A.A.P.
Objectives: Identify common presentations of epilepsy in children and their medical therapy, understand features of medically refractory epilepsy in children, review types of and outcomes from surgical therapy for pediatric refractory epilepsy.

Hydrocephalus, Shunts and Shunt Malfunction
Speakers: Lissa Baird, M.D.; Nathan Selden, M.D., Ph.D., F.A.C.S., F.A.A.P.
Objectives: Understand the causes and pathophysiology of hydrocephalus, differentiate hydrocephalus from familial macrocephaly and understand the latest endoscopic treatments available.

NEW Lumps and Bumps on the Pediatric Head
Speaker: Lissa Baird, M.D.
Objectives: Recognizing incidental and symptomatic lumps and bumps on the head. When to worry, when to watch, when to refer.

PEDIATRICS – SPINE
Cerebral Palsy and Spasticity
Speaker: Christina Sayama, M.D.
Objectives: Understand cerebral palsy, spasticity, and other movement disorders, learn about baclofen pumps and other surgical treatment options for spasticity.

Pediatric Scoliosis and Other Complex Spine Issues
Speaker: Christina Sayama, M.D.
Objectives: Introduction and overview of more complex pediatric spine issues and how they can be detected, when to refer, and treatment overview.
Pediatric Spine Problems  
**Speaker: Christina Sayama, M.D.**  
Objectives: Identify common spine problems in the pediatric patient, presentation and detection, when to obtain imaging, when to refer and treatment options.

Tethered Spinal Cord and Chiari Malformation  
**Speakers: Lissa Baird, M.D.; Nathan Selden, M.D., Ph.D., F.A.C.S., F.A.A.P.**  
Objectives: Identify common clinical presentations of tethered cord and Chiari I malformation, identify common skin and skeletal markers of dysraphism, understand indications for imaging and neurosurgical referral.

Traumatic Brain Injury in Pediatrics  
**Speakers: Lissa Baird, M.D.; Christina Sayama, M.D., M.P.H.; Nathan Selden, M.D., Ph.D., F.A.C.S., F.A.A.P.**  
Objectives: Identify the causes and manifestations of traumatic brain injury in children, learn the latest recommendations for TBI management in children and discuss the prognosis after various degrees of TBI in children.

PITUITARY/NEUROENDOCRINOLOGY

Acromegaly  
**Speakers: Maria Fleseriu, M.D., F.A.C.E.; Chris Yedinak, M.N., F.N.P., D.N.P.**  
Objectives: Review pathophysiology, morbidity and mortality associated with excess growth hormone exposure, summarize the current criteria for cure in patients with acromegaly, including associated considerations on the interpretation of relevant assays, biochemical measures and clinical outcomes.

Cushing’s Syndrome  
**Speakers: Maria Fleseriu, M.D., F.A.C.E.; Chris Yedinak, M.N., F.N.P., D.N.P.**  
Objectives: Review pathophysiology, morbidity and mortality associated with excess cortisol exposure, learn updated recommendations for the screening and diagnosis of patients who potentially have Cushing’s disease.

NEW

David and Goliath: Approaches to Pituitary Tumors  
**Speakers: Justin Cetas, M.D., Ph.D.; Jeremy Ciporen, M.D.**  
Objectives: Understand the initial diagnosis and work up, identify the sometimes subtle, clinical presentations patients may have with a serious neurosurgical problem, understand the treatment options and outcomes these patients can expect, learn about resources to better care for patients.

Pituitary Tumors and Dysfunction  
**Speakers: Maria Fleseriu, M.D., F.A.C.E.; Chris Yedinak, M.N., F.N.P., D.N.P.**  
Objectives: Understand pituitary incidentaloma, radiographically identify the subtleties of sellar and parasellar masses, diagnose pituitary dysfunction in patients with sellar and parasellar masses, assess the long term risks of dopamine agonist therapy for prolactinomas and when to withdraw therapy.

SPINE

Current Evaluation and Treatment of Lumbar Spinal Stenosis  
**Speakers: Jason Chang, M.D.; Khoi Than, M.D.**  
Objectives: Define lumbar stenosis, understand the several etiologies of lumbar stenosis, learn how to evaluate and refer patients for treatment.
Degenerative Diseases of the Cervical Spine

Speaker: Jason Chang, M.D.

Objectives: Understand the spectrum of degenerative diseases of the cervical spine, describe surgically relevant neurological deficits relative to outcomes, review the radiographic correlates for cervical spondylotic myelopathy.

Spinal Cord Injury

Speakers: Jason Chang, M.D.; Khoi Than, M.D.

Objectives: Define and identify mechanisms of spinal cord injury and current guidelines for treatment and outcomes, discuss surgical and nonsurgical management, understand algorithm for assessment and stabilization, discuss the appropriate spine precautions and transfer.

Spine Surgery

Speakers: Jason Chang, M.D.; Khoi Than, M.D.

Objectives: Identify new innovations in treatment, discuss revision spine surgery, complication avoidance and management and minimally invasive spine surgery.

Spine Tumors

Speakers: Jason Chang, M.D.; Khoi Than, M.D.

Objectives: Define spine tumors, identify primary versus metastatic tumors of the spine, and understand current guidelines for treatment with outcomes.

For more information or to schedule a traveling CME session, please contact OHSU Provider Relations.

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Accreditation

Oregon Health & Science University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit

OHSU School of Medicine, Division of CME, designates this live activity for a maximum of 1.0 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.