**Highlights from the 8th Biennial Barrow Symposium - Gary Jacobson, PhD, Terry D. Fife, MD, and Scott D.Z. Eggers, MD**

Illustrate use of cervical vestibular evoked myogenic potentials to determine function of the otolithic organs; Review the major causes of postconcussion dizziness; Summarize possible therapies for vertigo in trauma patients; Characterize, describe, and classify various patterns of nystagmus; Explain various forms of treatment available for nystagmus.

**Headache Update, Part 1 - K. Michael Welch, MB, ChB and Alexander Mauskop, MD**

Identify risk factors for cerebrovascular and cardiovascular disease in patients with migraine; Illustrate the electrical brain changes that occur during migraine; Review the implications of structural changes seen on magnetic resonance images of patients with migraine with aura; Determine the safety and efficacy of various alternative treatments for prevention and treatment of migraine; Summarize the hypothesized mechanisms of action of herbal supplements in the management of migraine.

**Headache Update, Part 2: Headache in Children - Jack Gladstein, MD and A. David Rothner, MD**

Provide appropriate and timely management for children and adolescents with acute migraine headache; Review the major variants of migraine that occur in pediatric patients; Explain the common characteristics and features of CDH in children; List pharmacologic interventions available for the treatment of headache in children; Choose acute and preventive headache medications on the basis of their efficacy and side-effect profiles.

**Seizures - Jan Claassen, MD, PhD and Alberto Pinzon Ardila, MD, PhD, MSBE**

Characterize, describe, and classify various patterns of status epilepticus; Administer appropriate emergent initial and urgent control therapy to patients with status epilepticus; Recognize clinical characteristics of refractory status epilepticus and evaluate suitable treatments; Recount the pathophysiology of tumor-related seizures; Discuss and describe different antiepileptic drugs available for the treatment of patients with brain tumors and seizures.
Fundamentals of Neuro-critical Care - Barak Bar, MD, Nicholas C. Cavarocchi, MD, and Jan Classem, MD, PhD
List options for monitoring intracranial pressure and cerebral blood flow; Choose multimodality options on the basis of their advantages and limitations; Differentiate the indications and contraindications for therapeutic hypothermia; Appropriately manage patients undergoing therapeutic hypothermia; Describe applications for continuous electroencephalographic monitoring in critically ill patients.

Stroke Rehabilitation and Prevention - Richard V. Riggs, MD and Anthony S. Kim, MD, MS
Monitor rates of readmission to acute care during recovery from stroke; Identify and prevent common causes of readmission in stroke patients; Assess established high-impact interventions for prevention of stroke; Cite recent clinical evidence about prevention of stroke in patients with atrial fibrillation (AF); Review extended cardiac monitoring for AF in patients with cryptogenic stroke.

Dizziness - Scott D.Z. Eggers, MD and Terry D. Fife, MD
List the differential diagnosis of dizziness; Formulate a treatment program for a patient with vestibular migraine (VM) based on symptoms and comorbidities; Explain recent revisions to the definition of VM and the overlap of signs and symptoms of VM with those of other conditions; Diagnose and treat a patient with vestibular neuritis; Manage a patient with Chiari malformation.

Parkinson Disease - Mark Stacy, MD
Assess the value of standardized patient questionnaires in identifying wearing-off symptoms in patients being treated for Parkinson disease; Summarize the pathophysiology of the wearing-off phenomenon; Identify strategies and pharmacologic treatments for wearing-off symptoms; Describe the behaviors seen in impulse control disorders (ICD) in patients being treated for PD; Propose management plans for PD patients with ICD.

Stroke Updates - Dmitri S. Kolychev, MD, MS and Elisabeth B. March, MD
Differentiate between ischemic and nonischemic acute neurologic events; Illustrate common pitfalls encountered during the management of stroke and stroke mimics; Discuss contraindications for tissue plasminogen activator; Examine the indications for anticoagulation in the acute treatment of stroke; Compare the advantages and disadvantages of the newer oral anticoagulants.
Highlights from Epilepsy in Adults with Intellectual and Developmental Disabilities - Heather A. Lau, MD, MS, Eric H. Kossoff, MD, and Miya Asato, MD

Recognize presentations of IDD and epilepsy most likely to be associated with a genetic etiology; Identify genetic mutations likely to have a causative role in a patient’s IDD or epilepsy through the use of new screening and sequencing technologies; Select antiseizure medications most likely to improve seizures without exacerbating behavioral issues; Counsel patients and families on the use of ketogenic diets to reduce seizures and improve functioning with less medication; Guide patients with IDD and their caregivers through the transition from pediatric to adult providers.

NE 05 - 18