COURSE HIGHLIGHTS
- Program provides updates on the recent advances in the field of neurosurgery
- Focus on discussions concerning the management of cranial, spinal, cerebrovascular and pediatric disorders, as well as technological advancements
- Provides a mixture of didactic lectures, case-based and evidence-based guideline review, as well as panel discussions

TARGET AUDIENCE
This course is designed for neurosurgeons, neurosurgery residents, nurse practitioners, physician’s assistants and other allied health professionals.

LEARNING OBJECTIVES
Upon conclusion of this program, participants should be able to:
- Review the latest surgical techniques for the management of cerebrovascular disorders
- Appraise the recent data with regard to clinical trials in management of brain tumors
- Utilize case studies to discuss current techniques and controversies
- Analyze the role of complex spinal neurosurgery, its indications and risks
- Illustrate the latest in the management of pediatric disorders
- Examine the latest in functional neurosurgery, epilepsy, and pain

COURSE DIRECTORS
Rabih G. Tawk, M.D.  
Alfredo Quiñones-Hinojosa, M.D.

COURSE CO-DIRECTOR
Belinda G. Bradley, A.R.N.P.

ONLINE REGISTRATION  CE.MAYO.EDU/NSUPDATE2017
The registration fee includes tuition, comprehensive electronic course syllabus, continental breakfasts, break refreshments, and lunch.

$300 USD  Physicians and Scientists  
$200 USD  ARNPs & PAs, Residents, Fellows, RNs, Allied Health, and Retirees

GUEST FACULTY
- Philipp R. Aldana, M.D.  
  UF Health Jacksonville
- Alexandra D. Beier, D.O.  
  UF Health Jacksonville
- Stephen Pirris, M.D.  
  St. Vincent’s Medical Center

PROGRAM AGENDA
- 7:00 am  Registration & Continental Breakfast
- 7:50 Welcome
- 8:00 Updates on Deformity Correction  
  Mark A. Pichelmann, M.D.
- 8:20 Updates on Minimally Invasive Spine Surgery  
  Selby Chen, M.D.
- 8:40 Diagnosis and Management of Craniovertebral Junction Disorders  
  H. Gordon Deen, M.D.
- 9:00 Updates on Pain Management  
  Salim Ghazi, M.D.
- 9:20 Updates on Parkinson Disease  
  Ryan Uitti, M.D.
- 9:40 Q & A Panel  
  Drs. Pichelmann, Chen, Deen, Ghazi, Uitti and Pirris
- 10:00 Coffee Break & Exhibitors
- 10:15 Updates on Endovascular Management of Stroke  
  David Miller, M.D.
- 10:35 Update on Technologies for Treatment of Aneurysms  
  Rabih G. Tawk, M.D.
- 10:55 Updates on Cerebral Arteriovenous Malformations  
  Benjamin Brown, M.D.
- 11:15 Updates in Neurocritical Care  
  James Meschia, M.D.
- 11:35 Updates in Treatment of Carotid Disease  
  Robert Wharen, M.D.
- 11:55 Q & A Panel  
  Drs. Pichelmann, Chen, Deen, Ghazi, Uitti and Pirris
- 12:15 pm Buffet Lunch
- 1:15 Updates on Brain Tumor Resection  
  Alfredo Quiñones-Hinojosa, M.D.
- 1:35 Updates on Low Grade Tumors  
  Betty Kim, M.D., Ph.D.
- 1:55 Updates on Radiation Therapy for Brain Tumors  
  Jennifer Peterson, M.D.
- 2:15 Neuroanatomic Acupuncture in Surgical Patients  
  Ronald Reimer, M.D.
- 2:35 Q & A Panel  
  Drs. Quiñones-Hinojosa, Kim, Peterson and Reimer
- 2:55 Coffee Break & Exhibitors
- 3:10 Updates on Brain Tumor Resection  
  Alfredo Quiñones-Hinojosa, M.D.
- 3:30 Updates on Low Grade Tumors  
  Betty Kim, M.D., Ph.D.
- 3:50 Updates on Radiation Therapy for Brain Tumors  
  Jennifer Peterson, M.D.
- 4:10 Neuroanatomic Acupuncture in Surgical Patients  
  Ronald Reimer, M.D.
- 4:30 Updates on Deep Brain Stimulation  
  Robert Wharen, M.D.
- 4:50 Q & A Panel  
  Drs. Aldana, Beier, Bechtle, Wharen and Watridge
- 5:10 Adjourn

CANCELLATION POLICY
Visit ce.mayo.edu for more information.

CREDIT
Mayo Clinic College of Medicine and Science is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other Health Care Professionals: A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.