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Disclosures

• None relevant
Introduction

• Over last decade, there has been much change in neurosurgery resident education

Duty Hours  Case Volume  Academics

• Focus: enhancing residents educational experience
Methods

• Official annual records manually searched and analyzed (2009-2019)

Accreditation Council for Graduate Medical Education (ACGME)
- Resident Demographics
- Program Demographics
- Attrition Rate

National Resident Matching Program (NRMP)
- Match Rate
- Match Statistics

American Board of Neurological Surgeons (ABNS)
- Case Logs
- Qualitative Changes
Results: Program and Resident Demographics

• Between 2009-2019 in United States
  
  ➢ More programs (100 to 115)
  
  ➢ More residents (1112 to 1462)
  
  ➢ More women (12.7% to 17.6%)
  
  ➢ Attrition rate decreased (3.0% to 1.6%)
Results: Match statistics

• Between 2009-2019 in United States
  
  ➢ Applicants/year stable (324 applicants)
  
  ➢ Match rate stable (Overall 64%)
Results: Qualitative changes to residency

• Between 2009-2019 in United States

  ➢ 2009: Resident Boot Camp
  ➢ 2012: Milestone project
  ➢ 2013: Mandatory 7-year training
Results: Resident case logs

Values after 2011-2012 reflect Senior and Lead Surgeon roles
*Due to changes in ACGME case log classifications, values for “Total Spine” prior to 2012-2013 reflect the sum of procedures classified as Spinal Procedures - “disc and/or spondylosis,” “tumor/vascular lesion,” and “trauma”
**Values for ventriculostomy reflect all clinical roles
Discussion

• Between 2009-2019, enhanced standardization of neurosurgical training
  • Boot camp
  • Milestones

• Case volumes increased in: Endovascular, Functional, Trauma, Spine

• Increase in female residents, decrease in international applicants
Summary Points

1. Neurosurgery residency applicants increased; match rate stable

2. Female residents increased; ethnic breakdown remains unchanged

3. Case volumes increasing for select specialities

4. Standardization of residency education