University of Kentucky Hospital

Kentucky Neuroscience Institute
2016 Match

- 105 Neurosurgery programs
  - 216 positions offered nationwide; only 1 unfilled program
- We received over 200 applications
  - 48 invitations offered, 35 interviewed
UK Neurosurgery Match 2016

• Neurosurgery matched from the University of Kentucky and the University of Louisville
• Nine US graduates and three IMGs:
  – University of Louisville, East Tennessee State University COM, Northeast Ohio Medical, University of Kentucky, Albany SOM, The Brody SOM, West Virginia SOM, Aga Khan Medical College, Trinity College Dublin, University of Jordan SOM
Operative Experience

Senior level residents are assigned to the tumor and trauma cases while mid-level residents are assigned spine, endovascular, and pediatrics. PGY2-3 will be assigned PN and functional cases as well as Gamma Knife. Your field of interest will also determine the amount of exposure to cases.

2015-16 Graduating Residents

<table>
<thead>
<tr>
<th>Adult</th>
<th>Pediatric</th>
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<tbody>
<tr>
<td>Tumor – 204, 166</td>
<td>Tumor – 21, 21</td>
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<tr>
<td>Trauma – 177, 159</td>
<td>Trauma – 18, 18</td>
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<tr>
<td>Vascular</td>
<td>Spine – 9, 15</td>
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<tr>
<td>• Endo – 180, 12</td>
<td>Shunts – 36, 43</td>
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<td>• Extracranial – 11, 15</td>
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<td>ACDF – 129, 149</td>
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<tr>
<td>PLIF – 37, 47</td>
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<tr>
<td>LMD – 306, 301</td>
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<tr>
<td>Fusion – 258, 315</td>
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University of Kentucky patient room

Kentucky Neuroscience Institute
Program Overview

- Seven Years of Training
  - 1 year: General Surgery and Neurosciences
  - 6 years: Neurosurgery Residency

Kentucky Neuroscience Institute
Program Overview
PGY-1

Clinical Neuroscience
- Neurology
  - 3 months
    - Outpatient
    - Inpatient

Surgery
- General Surgery
  - 3 months: 2 Critical Care and 1 General Surgery
- Neurosurgery
  - 6 months

Kentucky Neuroscience Institute
Program Overview
PGY-2 and PGY-3

- Adult and Pediatric Neurosurgery at UKMC
- Neuro critical care (1 month; PGY2)
- Neuro radiology (1 month; PGY3)
- Neuro Anatomy & Neuro Pathology (1 month; PGY3)
Program Overview

PGY-4

- “Floor chief”
- Q4 call with PGY2 residents
**Program Overview**

**PGY-5 and PGY-6**

- **PGY5**
  - 6 months at VA Hospital
    - Every aspect of VA NS service managed by PGY5
  - 6 months on research
    - Research mentor selected
    - Must write & publish chapter/article and present at regional/national meeting

- **PGY6**
  - 6 months at UK
  - 6 months subspecialty training or research
    - Subspecialty training can be done at another institution

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*Kentucky Neuroscience Institute*
Program Overview
PGY-7

• Chief Resident/Senior Year
  – Alternate administrative duties every three months
  • Call schedules, resident assignments, and assumes overall ownership of UK neurosurgery service
  – Knowledgeable of entire patient census
Thursday Conferences

7:30am
• 1st – Case Discussion
• 2nd – Morbidity and Mortality
• 3rd – Neuroradiology
• 4th – Journal Club

8:30am
• 1st – Neuropathology
• 3rd – Endovascular Case Discussion
• 4th – Critical Care with Anesthesiology team

9:30am
• Grand Rounds
Neurosurgery Resident Space

Kentucky Neuroscience Institute
Alumni

1997  Warren Boling (Texas Tech) – Redlands, CA
1998  John Johnson (University of Alabama) – Huntsville, Alabama
1999  Thomas Becherer (University of Kentucky) – Louisville, Kentucky
      Richard Broderick (Loyola University) – Arlington Heights, IL
2000  Victor Freund (East Carolina University) – High Point, NC
      Nathan Avery (University of Arizona) – Flagstaff, AZ *deceased*
2001  David Sacco (Loyola University) – Dallas, TX
      Reza Shahim (University of Arkansas) – Little Rock, AR
2002  Bradley Nicol (Medical College of Wisconsin) – Flagstaff, AZ
2003  Thad Jackson (Indiana University) – Elizabethtown, KY
      Thomas Anderson (University of South Carolina) – Mt. Pleasant, SC
2004  Shaad Bidiwala (University of Louisville) – Dallas, TX
2005  David Weaver (University of Kentucky) – Newburgh, IN
      Robert Owen (Indiana University) – Lexington, KY
2006  John Cole (University of Kentucky) – Louisville, KY

Kentucky Neuroscience Institute
Alumni

2007  Christopher Neumann (University of Illinois) – Cincinnati, OH
      Christian Ramsey (University of Kentucky) – Lexington, KY

2008  Heather Hedstrom (Indiana University) – Panama City, FL

2009  Matthew Werthammer (Marshall University) – Barboursville, WV

2010  Matthew Tutt (University of Kentucky) – Lexington, KY

2011  Eric Goebel (Indiana University) – Evansville, IN
      Joel Norman (East Tennessee State) – Knoxville, TN

2012  Justin Whitlow (University of South Florida) – Salina, KS

2013  Justin Davis (University of Kansas) – Overland Park, KS
      Lindsey Tyler (Brody School of Medicine) – Rocky Mountain, NC

2014  Wissam Asfahani (American University of Beirut) – Sioux Falls, SD
      Barrett Brown (University of Kentucky) – Knoxville, TN

2016  Jonathan Mannas (University of Oklahoma) – Lubbock, TX
      Stephen Grupke (New York Medical College) – Lexington, KY
Centers of Excellence
Comprehensive Stroke Center

UK HealthCare is one of more than 60 U.S. institutions and the only in Lexington to be awarded this designation, which is the highest honor The Joint Commission awards to stroke centers.

Comprehensive Stroke Center Certification recognizes those hospitals that have state-of-the-art infrastructure, staff and training to receive and treat patients with the most complex strokes, including advanced imaging capabilities, 24/7 availability of specialized treatments, and staff with the unique education and competencies to care for complex stroke patients.

Total stroke patients: 1311 *includes 65 SAH and 167 ICH*
Total IV tPA cases: 123 *49 at UK and 74 at OSH*

2015 data
Comprehensive Epilepsy Center

UK HealthCare Comprehensive Epilepsy Center is recognized by the NAEC as a level 4 epilepsy center. Multidisciplinary team – EMUs, neurosurgeon, neuroradiologist, nurse, and neuropsychologist

• Adult and peds epilepsy monitoring unit, capability to monitor remotely (brain telemetry)
• Upcoming 24/7 EEG tech coverage

Diagnosis ➔ surgery ➔ clinical trial
NCI Center Designation

Kentucky’s only National Cancer Institute-designate cancer center

- NCI-designated centers offer more treatment options and 25% better survival rates.
- Our patients will have access to clinical trials and new drugs offered only at NCI centers.
Research Centers
Established in 1999 to promote individual and collaborative studies on injuries to the spinal cord and brain that result in paralysis or other loss of neurologic function.
While DBS is effective in managing symptoms, it does not change the course or outcome of the disease. This clinical trial is exploring a possible way to alter the course of the disease by supplementing the DBS procedure with a patient’s own peripheral nerves with a nerve graft.
Stroke Research Team

Research Team
Gregory Bix, Justin Fraser, Jill Roberts, Stephen Grupke, Michael Maniskas, Katie Guell, and Aileen Marcelo

Research Interest
• Role of extracellular matrix proteins in stroke
• Development of clinically relevant rodent models of stroke
• Intra-arterial selective infusion of therapeutic agents in rodent models of stroke
• Translational research in neuroprotection strategies

Departmental Affiliations
Anatomy & Neurobiology, Neurology, and Neurosurgery

Kentucky Neuroscience Institute
In 2009, per the US Census Bureau the Lexington-Fayette County Population was 557,224

Weather
Spring: 34-74 °
Summer: 61-90 °
Fall: 36-79 °
Winter: 15-54 °
Childcare

http://www.uky.edu/hr/work-life/resources-for-parents/childcare-options

• The UK Early Childhood Laboratory (ECL)
• Woodland Early Learning Center at the University of Kentucky
• Child Development Center of the Bluegrass

*UK does not endorse any of the child care providers on this site. We provide the link as a tool to help you make a selection*
# Fayette County Schools

## Public

- [www.fcps.net](http://www.fcps.net)
- 35 elementary schools
- 10 middle schools
- 5 high schools

## Magnet schools

- Lexington Traditional
- Dixie Elementary
- Maxwell Spanish Immersion

## Private

- [http://www.privateschoolreview.com/county_private_schools/stateid/KY/county/21067#!all](http://www.privateschoolreview.com/county_private_schools/stateid/KY/county/21067#!all)
- The Lexington School
- Sayre School
- Other
  - Clays Mill Road Christian Academy
  - Lexington Christian Academy
  - Trinity Christian Academy
  - Christ The King Catholic School
  - Lexington Catholic School
  - Mary Queen Of The Holy Rosary School
  - Ss. Peter & Paul Catholic School
  - Seton Catholic School