Personal Statement – Keith P. Cross

For consideration for promotion to Associate Professor of Pediatrics with Tenure

My average assignment (2010 – 2014) was 52% clinical, 5% non-clinical, 23% teaching, and 20% research.

I have pursued a wide range of clinical, educational and research interests to date at University of Louisville since joining the faculty in 2010. The bulk of this work has had direct impact on the Kosair Children’s Hospital pediatric emergency department in three areas including 1) process flow and quality assurance, 2) pain control and sedation, and 3) the application of new technologies (particularly ultrasound). As noted below, these clinical initiatives along with my work to improve pediatric medical education and my scholarship on disaster management have led to publications and presentations at the national level.

# Excellence in Clinical Service/Leadership Roles

1. Supervised the development and ongoing operation of a two-week procedure rotation that has to date trained 73 Pediatric and Med-Peds residents who average 68 live procedures per trainee during the rotation.
2. Drove an “Ultrasound Infrastructure” program to support, improve, and expand bedside ultrasound care of patients, training for residents, and credentialing of providers, including achieving two grants for associated equipment and software totaling **$125,415**.
3. Co-developed proposal and received approval from American Board of Pediatrics for Pediatrics MOC Part 4 Portfolio Status for Kosair Hospital/UofL Pediatrics, and developed three initial QI projects for this program (with Vicki Montgomery).
4. Awarded a grant for **$69,335** and subsequently supervised installation and have developed policy for using trauma video in the Kosair ED for educational and QI purposes. Has provided guidance, data analysis, and teaching support to the Trauma Management Improvement Project.
5. Co-developed the policy and facilitated the approval and training/roll-out of propofol as an additional sedative agent for use in the KCH ED.
6. Led a performance analysis and presented Kosair ED performance data (eventually with 2 publications) resulting in significant operational and staffing changes. Subsequently, average wait times decreased and annual left without being see rates fell from ~4.3% (2010) to ~0.4% (2014).
7. Developed and now maintain the Kosair emergency medicine provider “Mass Text” system (used frequently to advise entire division of need for additional resources for volume surges or high acuity/disaster situations)
8. Developed the protocol and training/rollout/QI monitoring of regional anesthesia techniques in the Kosair ED – particularly femoral nerve blocks for femur fractures. Has been invited to present this topic nationally on two occasions, and supervised subsequent fellow project and publication.
9. Provides direct patient care average of 22 clinical hours per week in the KCH and KCMC emergency departments

# Non-clinical

1. Developed contractual relationship between UofL and ReelDx for providing training content for ReelDx Online Video Case Studies, peer-reviewed and published at [www.reeldx.com](http://www.reeldx.com). Personally contributed 14 video-education cases during 2014. Principal contributor in 2015 to a special ultrasound case library at <https://meded.reeldx.com/libraries/ultrasound/cases>.
2. Representative to the Kosair Sedation committee (6 meetings annually) and supervised sedation credentialing for UofL EM residents at Kosair
3. Representative to the Kosair Transport committee (10 meetings annually)
4. Representative on the Kosair Disaster group (ad hoc meetings)

# Proficiency in Teaching

1. Won several teaching awards at UofL:
   1. Faculty Peer Clinician-Teacher Excellence award for Mid-level Faculty in 2014
   2. PEM Fellows’ Teacher of the Year in 2014
   3. Med-Peds Program Teacher of the Year in 2013
   4. Faculty Peer Clinician-Teacher Excellence award for New Faculty in 2011
2. Ongoing supervision of the Procedural Rotation for pediatrics residents (~25 Residents take the course annually).
3. Assist organization and instruction of the Practical Pediatric elective for MS-4 students annually.
4. Co-developed in 2014 and taught a new Pediatric Clinical Ultrasound elective for pediatrics residents (with David McLario)
5. Co-developed in 2014 and taught a new PEM Fellows ultrasound curriculum (with David McLario)
6. Scholarly Oversight Committee (SOC) for multiple fellows in Pediatric Emergency Medicine and Pediatric Critical Care
7. Member of the Med-Peds Core Curriculum Committee (CCC)
8. Facilitator of the Med-Peds Journal Club and the PEM Fellows Journal Club
9. Supervise residents in the KCH emergency department from the following School of Medicine clinical departments: Pediatrics, Emergency Medicine, Family Medicine, and Anesthesia
10. Significant teaching in multiple settings throughout the year:
    1. Pediatric Emergency Medicine Fellows’ Conferences
    2. Categorical Emergency Medicine Residents lecture series
    3. Med-Peds Resident Workshops
    4. PALS courses

# Proficiency in Research/Scholarship

1. Completed a variety of peer-reviewed publications:
   1. 3 original research papers on bedside ultrasound for musculoskeletal injuries and femoral nerve blocks (#6, 8, and 15 on CV)
   2. 1 case report (#16 on CV)
   3. 1 original research paper on ED performance improvement (#7 on CV)
   4. 3 original research papers on disaster medicine (#9, 11, 12 on CV)
   5. 3 original research papers on various other topics (#10, 13, 14 on CV)
2. Scientific abstract presentations at national meetings
   1. 2 Platform presentations (#3 and 4 on CV)
   2. 7 Poster presentations (#5 – 11 on CV)
3. Co-developer (with In Kim) of new multi-center study of bedside ultrasound for intussusception (“InBUS”) through the PEMCRC – the AAP’s Section on Emergency Medicine multi-center study group.
4. Set up and currently working on 2 education-related studies: outcomes from the Pediatric Procedural Rotation and outcomes from the Pediatric Clinical Ultrasound rotation.
5. Funding to support clinical research includes:
   1. Trauma Video Equipment Grant: $69,335 Crusade for Children
   2. Zonaire US machine and three US probes Grant: $95,515 Children’s Hospital Foundation
   3. QPath software package for bedside US studies: $30,900 Children’s Hospital Foundation

# Emerging National Reputation

1. National presentations at scientific meetings on disaster medicine
2. Development of Ultrasound Guided Femoral Nerve Block protocol; scholarship and invited national lectures
3. Development of Pediatric Resident Procedure rotation with national presentations