EXECUTIVE SUMMARY

The Department of Surgery had a challenging FY 2016. The Department continues to increase and strengthen its core mission of education, patient care, and research. The entire departmental faculty has contributed to these activities. The past fiscal year included recruitments of high quality faculty, clinical program development, investment in research programs, and success in attaining research funding. We added thirteen faculty to the Department, seven of which were recruited to the Trauma Program. The past year also included transition as we received ten resignations.

CLINICAL OVERVIEW

Overall, the clinical mission of the department did not meet our targets in FY 2016. We experienced a great many challenges in FY2016 that affected our overall clinical productivity. These challenges included the EPIC rollout, the elimination of the United Healthcare MCO, continued growth restrictions with GBR, the fire in our clinic building, the winter blizzard, unrest in the City, the Amerigroup ASC requirements and our lack of unregulated surgery centers for both our adult and pediatric patient population. Despite all the challenges, the Department of Surgery continued our strategy to build referrals and to move volume to off campus locations. In doing so, we ended the year with much less of a negative variance than projected.

The clinical programs primary case volume at UMMC in FY 2016 was 8,783 representing a 1.7% decrease from FY 2015. Overall case volume at system and non-system hospital (both billable and unbillable) decreased to 12,899 representing a 0.6% decrease from FY 2015. Locations that showed case growth included; UMMC-Cath Lab (36.8%), UMSJ (7.6%), UMSH-Easton (5.8%), UMROI (24%), Dimensions Health (26.7%), Sinai (17.1%) and the VA (15.4%). Our increase in the UMMC Cath Lab is attributed to transferring cases from the O.R. to a more cost effective and efficient location. Clinical Revenue decreased by $510,024, representing a 2.2% reduction over FY 2015. Our faculty wRVU productivity also decreased slightly by 0.2% over FY 2015. We have not yet closed our financial books for FY16, so we do not have a profit and loss statement to share at this time.
COST SAVINGS INITIATIVE (CSI)

- With implementation of Maryland’s All-Payer Hospital System Modernization Initiative, the HSCRC has initiated a model with a shared goal to develop a health care system that enhances patient care, improves health outcomes and lowers costs.
- In FY16 the Department of Surgery continued to partner with the UMMC to develop a shared cost savings initiative with the goal to review all inpatient operations and incorporate efficiencies to reduce UMMC’s surgical costs while maintaining patient safety, improving quality and outcomes.
- Dr. Bartlett commissioned Cardiac, Thoracic, Transplant & Vascular surgery to take on this challenge for FY16.
- Each Division Chief, selected faculty and Department Administrative Leadership met with the UMMC Financial, Quality and Operations teams each month to review LOS, readmissions, supply chain standardization, blood usage and pharmaceutical expenses.
- The Department worked with the UMMC to diligently review pre-operative and post-operative LOS patterns, changing rounding times and working closely with nursing, rehab, case management and patient’s families to discuss patient needs so efficient patient discharges could be achieved.
- Due to the implementation of EPIC, the UMMC Financial Office has not yet been able to determine the FY16 savings to UMMC generated by the work of the Department of Surgery. However, we anticipate that the savings in FY16 will be greater than in FY15 as FY15 was a partial year.
  - FY15 savings to UMMC = $2,338,425
  - FY15 Incentive to Surgery = $467,685
- The Department will continue this initiative in FY17

RESEARCH OVERVIEW

Overall, the research mission of the department had a very successful year in FY 2016. We increased new award dollars by 26.66%, increased our revenue from awards by 13.51% and increased submissions by 1.83%. Our overall revenue from Federal awards increased slightly as well. In FY2017 we are adding research expectations to our faculty incentive plan.

RESEARCH

- 111 Grant Applications this Fiscal Year
- 18 New NIH applications
- 17 NIH sub-contract applications
- 18 other-Federal applications
- 58 Corporate and Foundation sponsored applications
- 45 new awards TO Date
- 6 NIH awards/sub-contracts
- 5 other-Federal awards
- 34 Corporate or Foundation award
- Department of Surgery ranked 22nd in NIH funding for all Departments of Surgery in CY 2015 up from 24th in CY2013

Notable New Awards:

- A $5-year, $1.7M NIH R01 award for Dr. Bromberg’s project, “Induction and Migration of Regulatory T cells: role of lymphotoxin.”
- Awards form Mt. Sinai Icahn School of Medicine for Dr. Griffith, Dr. Taylor and Dr. Gammie for their Cardiothoracic Surgical Trials Network (CTSN) studies.
- Extension of Dr. Lal’s NIH contract for “Evaluation of Intimal Medial Thickness”
- Department of Defense grant awards for Dr. Crawford and Dr. Siddiqui for their respective studies, “Adjunctive therapy to improve functional recovery after limb ischemia” and “Using metabolic pathways to improve diagnosis and risk stratification of prostate cancer.”
- Dr. Siddiqui is the Co-PI for an NIH R21 Hyperpolarized 13C imaging of mitochondrial metabolism for improved characterization of prostate cancer
- Subawards from MD TEDCO grants to Dr. Bromberg for “Intra lymph node controlled release to combat autoimmunity” and to Dr. Bluebond-Langner for “Operative Entrustability System.”
- A 3-year $5.2M award from Lung Biotechnology PBC for Dr. Pierson’s “Lung Xenotransplantation with Tolerance” project.
- A NIH T32 award for Dr. Strickland’s “Training program in cardiovascular cell biology.”

Submitted NIH RO1 Proposals, Pending Review

- Dr. Kaushal: “A stem cell trial in hypoplastic left heart syndrome”
- Dr. Sarkar: “PLGA nanoparticles for delivery of P53 inhibitors to promote arteriogenesis”
- Dr. Monahan: “The effect of myristolated alanine-rich CKinase substrate on kinase interacting with stathmin”
- Dr. Lal: “CREST 2: Carotid plaque vulnerability study (CREST-P)”
- Dr. Lal: “CREST 2: Transcarotid v. transfemoral carotid revascularization (CREST-T)”
DIVISION AWARDS

GENERAL
- Dr. Nariman Balenga received an Institutional Research Grant from the Greenebaum Cancer Center/ACS to study the mechanisms of RGSS-mediated tumorigenesis in the parathyroid gland.

TRAUMA
- Dr. Deborah Stein received a new award from the Air Force Office of Scientific Research for “Assessing the accuracy and impact of ventricular drainage on intercranial pressure measurements.”
- Dr. Stein also received a subaward from a Dept. of Defense grant to study “sigh ventilation to prevent and treat acute respiratory distress syndrome”.

UROLOGY
- Dr. Minhaj Siddiqui received an Institutional Research Grant from the Greenebaum Cancer Center/ACS to study metabolic correlates of prostate cancer aggressiveness.

VASCULAR
- Dr. Thomas Monahan received a subaward from a NIH SBIR grant for an experiment design to test dHACM on neovasculation in vitro.

RESEARCH TABLES:

Table 1: New Awards Comparison – Fiscal Year 2016 vs. Fiscal Year 2015

<table>
<thead>
<tr>
<th>New Sponsor Award</th>
<th>FY2015</th>
<th>FY2016</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIH direct awards</td>
<td>$5,002,041</td>
<td>$4,319,304</td>
<td>-$682,737</td>
</tr>
<tr>
<td>NIH sub-contracts</td>
<td>$4,086,192</td>
<td>$1,030,198</td>
<td>-$3,055,994</td>
</tr>
<tr>
<td>Corporate</td>
<td>$958,834</td>
<td>$8,292,905</td>
<td>$7,334,071</td>
</tr>
<tr>
<td>DOD direct and sub-contracts</td>
<td>$2,263,538</td>
<td>$2,589,729</td>
<td>$326,191</td>
</tr>
<tr>
<td>Foundation, State, Other Non-profit</td>
<td>$605,790</td>
<td>$127,747</td>
<td>-$478,043</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$12,916,395</strong></td>
<td><strong>$16,359,883</strong></td>
<td><strong>$3,443,488</strong></td>
</tr>
</tbody>
</table>


### Table 2: Revenue from Awards - Fiscal Year 2015 vs. Fiscal Year 2016

<table>
<thead>
<tr>
<th></th>
<th>FY2015</th>
<th>FY2016</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Trust</td>
<td>$57,834</td>
<td>$340</td>
<td>-$57,494</td>
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<tr>
<td>Federal Standard:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOD</td>
<td>$1,489,326</td>
<td>$1,521,664</td>
<td>$32,338</td>
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<tr>
<td>IPA/Contract</td>
<td>$660,248</td>
<td>$537,390</td>
<td>-$122,858</td>
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<tr>
<td>NIH</td>
<td>$5,426,215</td>
<td>$6,053,236</td>
<td>$627,021</td>
</tr>
<tr>
<td>Non-Gov. Deliverable:</td>
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<td></td>
<td></td>
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<tr>
<td>Corporate</td>
<td>$1,919,768</td>
<td>$2,995,436</td>
<td>$1,075,668</td>
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<td>DOD Subcontract</td>
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<td>$32,412</td>
<td>$32,412</td>
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<tr>
<td>Foundation</td>
<td>$287,445</td>
<td>$250,000</td>
<td>-$37,445</td>
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<tr>
<td>Other non-profit</td>
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<td>$0</td>
<td>-$2,000</td>
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<tr>
<td>NIH Subcontract</td>
<td>$137,003</td>
<td>$33,159</td>
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<tr>
<td>Non-Gov. Standard:</td>
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<tr>
<td>Corporate</td>
<td>$76,684</td>
<td>$307,005</td>
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<tr>
<td>DOD Subcontract</td>
<td>$250,578</td>
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<tr>
<td>Foundation</td>
<td>$115,988</td>
<td>$98,708</td>
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<td>Other non-profit</td>
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<td>JPA</td>
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<td>NIH Subcontract</td>
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<td>State Deliverable:</td>
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<td>State Standard:</td>
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<tr>
<td>MD TEDCO</td>
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<td>DOD Subcontract</td>
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<td>$123,653</td>
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<tr>
<td>Other</td>
<td>$70,000</td>
<td>$9,901</td>
<td>-$60,099</td>
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<tr>
<td>Totals</td>
<td>$12,417,983</td>
<td>$14,264,431</td>
<td>$1,846,448</td>
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</table>

### Table 3: Revenue from Awards by Type - Fiscal Year 2015 vs. Fiscal Year 2016

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<thead>
<tr>
<th></th>
<th>FY2015</th>
<th>FY2016</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total NIH</td>
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<tr>
<td>Total Other Federal</td>
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<tr>
<td>Total Other</td>
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<td>$4,173,228</td>
<td>$1,283,613</td>
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<tr>
<td>TOTAL</td>
<td>$12,417,983</td>
<td>$14,264,431</td>
<td>$1,846,448</td>
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</table>
Table 4: Grant Proposal Submissions (excluding non-competitive renewals & transfers)
Fiscal Year 2016 vs. Fiscal Year 2015

<table>
<thead>
<tr>
<th>Type</th>
<th>FY2016</th>
<th>FY2015</th>
<th>FY2016</th>
<th>FY2015</th>
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</thead>
<tbody>
<tr>
<td></td>
<td># submitted</td>
<td># funded</td>
<td>TO DATE</td>
<td># submitted</td>
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<tr>
<td>NIH direct -Research</td>
<td>18</td>
<td>0</td>
<td>19</td>
<td>3</td>
</tr>
<tr>
<td>NIH direct - Training</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
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<tr>
<td>NIH direct - Fellowship</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>NIH subcontract -Research</td>
<td>12</td>
<td>2</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>NIH subcontract -Clin.Trial</td>
<td>5</td>
<td>4</td>
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<tr>
<td>Other Federal direct -Research</td>
<td>9</td>
<td>3</td>
<td>9</td>
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<tr>
<td>Other Federal direct -IPA</td>
<td>3</td>
<td>0</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Other Federal direct -Clin. Trial</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Other Federal subcontract -Research</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Other Federal subcontract -Training</td>
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<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>ALL FEDERAL</strong></td>
<td>53</td>
<td>11</td>
<td>52</td>
<td>21</td>
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<tr>
<td>MD TEDCO direct -Research</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>MD TEDCO direct -Fellowship</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>MD TEDCO subcontract -Research</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Corporate - Research</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Corporate - Clin. Trial</td>
<td>19</td>
<td>19</td>
<td>26</td>
<td>22</td>
</tr>
<tr>
<td>Corporate - Fellowship</td>
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<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assoc./Foundation direct -Research</td>
<td>15</td>
<td>3</td>
<td>11</td>
<td>7</td>
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<tr>
<td>Assoc./Foundation direct -Fellowship</td>
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<td>2</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Assoc./Foundation direct -Clin. Trial</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assoc./Foundation direct -IPA</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assoc./Foundation subcontract -Research</td>
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<td>0</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Hospitals</td>
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<tr>
<td>Public Universities</td>
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<td>2</td>
<td>1</td>
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<tr>
<td>UMD internal seed funding</td>
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<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>ALL NON-FEDERAL</strong></td>
<td>58</td>
<td>34</td>
<td>57</td>
<td>38</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>111</td>
<td>45</td>
<td>109</td>
<td>59</td>
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</table>
Table 5: Revenue from Federal Awards by Department/Program
Fiscal Year 2015 vs. Fiscal Year 2016

<table>
<thead>
<tr>
<th>FY15 Revenues from Federal Awards by Department/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surgery</strong></td>
</tr>
<tr>
<td>NIH- direct</td>
</tr>
<tr>
<td>NIH –subcontract</td>
</tr>
<tr>
<td><strong>Total NIH</strong></td>
</tr>
<tr>
<td>Other Federal- direct</td>
</tr>
<tr>
<td>Other Federal- subcontract</td>
</tr>
<tr>
<td><strong>Total Other Federal</strong></td>
</tr>
<tr>
<td><strong>TOTAL FEDERAL</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FY16 Revenues from Federal Awards by Department/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surgery</strong></td>
</tr>
<tr>
<td>NIH- direct</td>
</tr>
<tr>
<td>NIH –subcontract</td>
</tr>
<tr>
<td><strong>Total NIH</strong></td>
</tr>
<tr>
<td>Other Federal- direct</td>
</tr>
<tr>
<td>Other Federal- subcontract</td>
</tr>
<tr>
<td><strong>Total Other Federal</strong></td>
</tr>
<tr>
<td><strong>TOTAL FEDERAL</strong></td>
</tr>
</tbody>
</table>

**EDUCATION**

- Strong match with class of interns for FY 2017 from the following programs: Drexel University College of Medicine, Universita degli Studi de Verona, Eastern Virginia Medical School, Georgetown University School of Medicine, University of Michigan Medical School and West Virginia University School of Medicine.

- Incoming Preliminary General Surgery Residents matched from the following programs: American International Medical University, University of Khartoum Faculty of Medicine, Temple University School of Medicine, University of Bristol Faculty of Medicine, The University of Pittsburgh School of Medicine, Trinity School of Medicine, and University of Dammam College of Medicine.

- Our graduating FY16 class matched into the following fellowships:
  - University of Southern California-Plastic Surgery
- Medical Student shelf exam scores of 56th percentile nationally.
- The undergraduate and graduate educational programs continue to provide quality learning experiences. The residency program graduates successfully match into quality fellowships and the fellowship graduates attain excellent employment opportunities.

**Sponsored Lectures and Symposiums:**

- Buxton Research Symposium – 6/23/16, Speaker Bartley Griffith, MD
- Abramson Distinguished Lectureship – 9/15/16, Speaker William E. Cohn, MD
- Ganey - Maryland Surgical Society – 9/22/16, Speaker Brian Eatridge, MD

**FY2016 FACULTY RECRUITMENTS**

- The Cardiac Surgery Division added Dr. Zachary Kon. Dr. Kon is a graduate of the University of Maryland, School of Medicine and is our first Cardiothoracic Surgery Resident.

- The Pediatric Surgery Division added Dr. Helene Crowley. Dr. Crowley completed her M.D., Internship and Residency at Tufts University, School of Medicine. She also completed her Ph.D. in Immunology from Tufts, Sackler School of Graduate Biomedical Sciences. She completed her Pediatric Surgery fellowship at the Nationwide Children’s Hospital. She comes to us from Drexel University College of Medicine, where she had worked since 8/2012 as an Assistant Professor.

- The Surgical Transplant Division added Dr. David Bruno and Dr. Soo Yi. Dr. Bruno completed his M.D., Internship and Residency from Georgetown University, School of Medicine. He completed a Research Fellowship at the NIH, NIDDKD, Transplantation Branch, then returned to Georgetown University to be the Chief Resident. Dr. Bruno completed his Liver, Kidney, Pancreas Transplantation Fellowship at Emory University, Department of Surgery. He comes to us from Wayne State University, where he has worked since 2014 as an Assistant Clinical Professor. Dr. Yi completed her M.D. and Residency from The Robert Wood Johnson Medical
School. She completed her Abdominal Organ Transplant Surgery Fellowship at the Columbia University College of Physicians and Surgeons. She comes to us from Colombia University, where she has worked since 2013 as an Instructor in Clinical Surgery.

- The Vascular Surgery Division added Dr. Tanya Flores and Dr. Areck Ucuzian. Dr. Flores completed her M.D. from Drexel University College of Medicine. She completed her Internship, and Residency from the University of Virginia Health System. She also completed both her Research Fellowship in Transplant Surgery and her Clinical Fellowship in Vascular and Endovascular Surgery at the University of Virginia Health System. Dr. Ucuzian completed his M.D. from Tufts University, School of Medicine. He completed his Residency and his Ph.D. in Cell Biology, Neurobiology and Anatomy at Loyola University Medical Center and his Fellowship in Vascular Surgery at the University of Pittsburgh Medical Center.

- The Trauma Surgery Program added Dr. Cherisse Berry, Dr. Mary Boggs, Dr. Kyle Cunningham, Dr. Molly Deane, Dr. Jeffrey Lodermeier, Dr. Amelia Pasley, and Dr. Carrie Valdez in FY2016

**FY2016 Departures**

- Alexander, Richard B. Urology
- Chun, Jeannie Pediatric
- Chun, John General
- Gopal, Kapi Vascular
- Holton, Luther Plastic
- Lamond, Katherine General
- Martin, Linda Thoracic
- Rajagopal, Keshava Cardiac
- Sanchez, Pablo Cardiac
- Singh, Devinder Plastic

**DIVISIONAL UPDATES:**

**Cardiac Surgery:**

**Bradley Taylor, MD:**

Co-Director of the University of Maryland Center for Aortic Disease. He will join Robert Crawford, MD, current Co-Director, in this important effort. Received the Golden Apple Teaching Award from residents
Sunjay Kaushal, MD:

First stem cell HLHS trial patient was successful. ECHO showing RV improvement. first trial in the nation of its kind.
First Heartware device in a child (age 9) which has never been performed here (only in teenagers). Listed for heart transplant at the present time.
Continue with strong outcomes. LOS and Mortality rates less than the national average. I can provide details.
Academically, 12 publications and numerous national and international presentations.

Zachary Kon, MD:

Growing minimally invasive VAD Program.
Developing a minimally invasive approach to surgical Embolectomy
With Si Pham doubled heart and lung transplant volumes with high-risk recipients with better than expected outcomes for the national average.
Top 3 ECMO volume program in the USA with greater than 80% survival in VV ECMO patients to discharge.

Murtaza Dawood, MD:

The Atrial Fibrillation Program is gaining momentum with increased referrals for minimally invasive hybrid maze operation as well as stand-alone left atrial appendage management. The relationship between Cardiac Surgery and Electrophysiology is strong and on track to building a successful multi-disciplinary approach for the treatment of atrial fibrillation.

Si Pham, MD:

Highlights for the Heart Lung Transplant services:

From Fiscal year 2015 (7/1/2014 to 6/30/2015) to 2016 (7/1/2015 to 6/30/2016):

Increased the volume of heart transplants by 153% (from 15 to 38). This put the heart transplant program into the top 10% programs worldwide

Increase the lung transplant volume by 79% from 29 to 52. This put the lung transplant program into the top 7% of programs in the world.

ECMO volume increases by 88% from 92 to 173.
Philanthropic Effort:

Dorothy & Edwin Heller Heart Transplant Research Fund honors Dorothy Heller’s heart transplant surgery, and her memory and is restricted to the Pham Lab for research to reduce dependency on immunosuppressant drugs following an organ transplant ($85,000 received, additional pledge of $765,000 per year over 9 years)

Erik Compton Foundation honors Eric Compton’s heart transplant surgery and restricted to Pham Lab. ($25,000)

Robin Pierson, MD:

U19 grant was renewed in 2016 (>2.3 million, >450K per year directs for 5 years)

Signed a 3-year sponsored research agreement with United Therapeutics/ Lung LLC (>1.6 million per year for 3 years) [2016-2018] Initiated the Perfusix EVLP trial (now called Lung BioEngineering EVLP trial,); and now the leading enroller nationally (tied with Mayo Jacksonville)

News story in Nature featured our lung xeno work.

Peer reviewed articles from the Pierson/ Azimzadeh lab, and 3 clinical papers


**Review articles**

Zhang T, Pierson RN 3rd, Azimzadeh AM. Update on CD40 and CD154 blockade in transplant models. Immunotherapy. 2015; 7(8):899-911. PMID: 26268734


**James S. Gammie, MD:**

Led the development of a prospective randomized trial assessing the worth of tricuspid valve repair in patients undergoing mitral valve surgery. This is a 400 patient international NHLBI/Cardiothoracic Surgical Trials Network- sponsored trial. Enrolled the 1st patient at the University of Maryland Medical Center.

Performed 20 Harpoon beating mitral valve repairs in Europe. Initial clinical expertise published in *Circulation* last week. Senior Author - Mehrdad Ghoreishi, M.D., 4th year integrated Cardiothoracic Surgery Resident, Co-Author - Gregory Bittle, M.D., 3rd year Cardiothoracic Surgery Resident.


With partner Mark Vesely (interventional cardiologist) - performed 20 percutaneous mitral valve repairs (mitraclips)
Publications:


General and Oncologic Surgery:

Promotions:
- Stephen Kavic, MD - Promoted to Professor
- Jonathan Pearl, MD – Promoted to Associate Professor, Section Chief General Surgery
- H. Richard Alexander – Section Chief Oncological Surgery

Successes:
- Successful residency match with all incoming interns in AOA
- Our faculty involvement in the UM Cancer Network which per Kevin Cullen played a key role in our Cancer Center's elevation to Comprehensive status and our improved US News rank.
- Continued expansion of our clinical footprint in Maryland to include Waterloo, Hagerstown, Easton, etc.

Dr. H. Richard Alexander:

Publications:

1. **Endothelial Nitric Oxide Synthase Traffic Inducer (NOSTRIN) is a Negative Regulator of Disease Aggressiveness in Pancreatic Cancer.**


Dr. Cherif Boutros:

National Service

2016 Editorial Board, Journal of Surgical research
Publications

Peer Reviewed Journal Articles

1. Sarcina, a new threat in the bariatric era. S. Sopha, A. Manejwala, C. Boutros. Hum Pathol. 2015 Sep;46(9):1405-7


Published multimedia

1. Minimally invasive surgery for to treat gastrointestinal cancers
   http://medschool.umaryland.edu/facultyresearchprofile/viewprofile.aspx?id=23299
   https://www.youtube.com/watch?v=gOaFwGCFXkI

2. Robotic Assisted Esophagectomy
   http://medschool.umaryland.edu/facultyresearchprofile/viewprofile.aspx?id=23299
   English narration https://www.youtube.com/watch?v=_HxFB1RMQA0
   French narration https://www.youtube.com/watch?v=69jS7QdJvCg
   Arabic narration https://www.youtube.com/watch?v=abPZZCu127Y

Published Abstracts

MAJOR INVITED SPEECHES

2016 Contemporary Minimally Invasive Surgical Oncology. SinoAmerica Conference, Beijing, China

Oral Presentations


Dr. Nada Hanna:

Peer Reviewed Publications:


International invited lectures:
1. Surgical Management of Pancreatic Cancer; Predictors of outcomes. 15th Annual conference of Egyptian Society of Surgical Oncology. Cairo, Egypt 3/30/2016

National/regional invited lectures:
1. Improving Outcomes in Pancreatic Cancer. 3rd NCI-Pancreatic cancer symposium. September 28, 29. 2015, NCI, Bethesda, MD.
2. Recent Advances in Management of GI Cancers. Grand Rounds Speaker, Prince George’s Hospital Center. 1/20/2016.

Activities:
2015-2016 Vice Chair, International Fellowship Subcommittee, American College of Surgeons
2016 Co-Chair, HIPEC symposium at International Congress of Hyperthermic Oncology meeting. New Orleans, USA 4/2016

Dr. Stephen Kavic:

Publications:


Dr. Susan Kesmodel:

Publications:


Books:

Handbook of Breast Cancer and Related Breast Diseases; Created in conjunction with the breast multidisciplinary group and currently in the final editing stages. Served as one of the 3 editors with Kate Tkaczuk and Steve Feigenberg and wrote multiple sections with residents including those on DCIS, early stage breast cancer, breast cancer management after neoadjuvant systemic therapy and management of stage IV breast cancer.

Invited Talks:

Medical Student Talks:
1. Lecturer, Structure and Development Course, Breast and Axillary Anatomy, August 2015.
2. Lecturer, Structure and Development Course, Breast Cancer Clinical Correlates, November 2015.

Resident Teaching:

Media Presentations:

Abstracts:
7. Rosenblatt PY, Kesmodel SB, Bellavance E, Nichols EM, Feigenberg SJ, Tait N, Lewis J, Sivisailam SS, Couzi R, Goloubeva O, Tkaczuk KHR. Phase II study of trastuzumab and pertuzumab alone and in combination with hormonal therapy or chemotherapy with eribulin in women aged ≥ 60
with HER2/neu overexpressed locally advanced and/or metastatic breast cancer. San Antonio Breast Cancer Symposium, December 2015.


**Clinical Trials:**

A Prospective Study of Neoadjuvant Non-steroidal Aromatase Inhibitors in Postmenopausal Women with Operable Hormone Receptor-Positive Breast Cancer to Evaluate the Anti-Proliferative Response in Obese and Overweight Patients. Role: PI

**Dr. John Olson:**

Publications:


Prospective Validation of a 21-Gene Expression Assay in Breast Cancer.


Invited lectures:

University of Miami
University of Alabama, Birmingham

**Dr. Jonathan Pearl:**

Publications:

Pearl J¹, Fellinger E², Dunkin B³, Pauli E⁴, Trus T⁵, Marks J⁶, Fanelli R⁷, Meara M⁸, Stefanidis D⁹, Richardson W¹⁰. Guidelines for privileging and credentialing physicians in gastrointestinal


Reviewer for Surgical Endoscopy: Reviewed 10 papers over 12 months

Chaired 2 sessions at SAGES

Named to 3 committees for SAGES

Upcoming R21 submission

**Pediatric:**

- The Division started new coverage contract St. Joseph Medical Center, January 2016
- The Division opened Columbia practice at Waterloo.
- The Division expanded Towson practice at Lutherville

**Dr. Helene Crowley:**

Joined the Division and is working in Dr. Jonathan Bromberg’s research lab

**Dr. Eric Strauch:**

2016 Fellow of the Academy of Educational Excellence, Received the Pass & Susel Teaching Award

**Dr. Kim Lumpkins:**

Royal College of Surgeons(Eng) Gold Medal Winner for Pediatric Urology. Published 2 book chapters and one manuscript. Working to submit K08 grant with Marc Simard as mentor.

**Plastic Surgery:**

- The Plastic Surgery Division covers much of the state by going to Easton, Chester River, UM-BWMC, UMROI, UM-Midtown, UMSJ, and GBMC as well as the UMMC.
- We had a busy year with over 900 primary cases for four surgeons, and many more secondary cases as we reconstruct wounds for other services.
- We continue to train residents; this is the 27th year of our city wide Maryland/Hopkins plastic surgery training program.
Dr. Sheri Slezak:
Completed her year as Chair of the American Board of Plastic Surgery
Elected to the RRC-Plastic Surgery for 2017
Headed a panel on Why Women should Embrace Leadership for the American Society of Plastic Surgery.
Named as a Baltimore Top Doc again in 2016
Continues as the Chair of the Medical School Advancement Committee and the second year Project Feast.

Dr. Nelson Goldberg:
Took Maryland medical students on two international surgical mission trips this year to South America.
Continues as chief of surgery at Chester River and chief of plastic surgery at BWMC.

Dr. Yvonne Raske:
Research director for the division of plastic surgery
Supervises a research fellow as well as the Kristin Stueber summer scholar, a first year medical student who does a funded FRCT project.
Successfully obtained several small grants

Dr. Rachel Bluebond-Langner:
Successfully launched our transgender program, and coordinates the many specialists involved.
Travelled to Thailand this year to learn new surgical techniques first hand and bring them back to Maryland.
Completed several research papers on these techniques and is evolving as a national leader in transgender surgery.
Secured a grant to study resident operative entrustability assessments

Thoracic Surgery

Awards and Honors:

- **Dr. Whitney Burrows**–University of Maryland School of Medicine 2016 Leonard Tow Humanism in Medicine Award
- **Dr. Whitney Burrows** - University of Maryland School of Medicine 2016 faculty inductee into the Gold Humanism Honor Society
- **Dr. Joseph Friedberg** – Charles Reid Edwards, MD Professorship in Surgery, University of Maryland School of Medicine
Clinical:

- Approval for the second annual University of Maryland Thoracic Oncology CME program, November 11, 2016.
- Reorganization and restructuring the Thoracic Surgery Office to improve and streamline the patient experience, support growth of the division and support outreach clinics
- Developing Telemedicine Program at University of Maryland Medical Center
- Thoracic Outreach clinics started at Union Hospital and Waterloo
- Increased surgical volume by 127 compared to FY15.
- Monthly thoracic surgery nursing education program conducted on the Thoracic IMC unit by Whitney Burrows
- Monthly thoracic surgery SICU advanced practice providers education program conducted by Shamus Carr

Academic Presentations

- **Dr. Joseph Friedberg**: Presenting Author - “A novel System for Identifying Pulmonary Air Leaks with an Inhaled Marker” 96th AATS Annual Meeting, Baltimore, Maryland
- **Dr. Joseph Friedberg**: Grand Rounds at Diagnostic Radiology and Nuclear Medicine, University of Maryland Medical Center, Baltimore, Maryland
- **Dr. Joseph Friedberg**: Grand Rounds at Holy Cross Hospital, Silver Spring, Maryland
- **Dr. Joseph Friedberg**: Grand Rounds at Prince Georges’ Hospital Center, Lanham, Maryland
- **Dr. Joseph Friedberg**: Grand Rounds at Shady Grove Medical Center, Rockville, Maryland
- **Dr. Joseph Friedberg**: Grand Rounds 16th IASLC World Conference on Lung Cancer, Denver, CO
- **Melissa Culligan**: invited speaker at the International Mesothelioma Interest Group – International Conference, Birmingham, United Kingdom, May 2016; A Coordinated Approach to Starting and Managing a Comprehensive Mesothelioma Service.
- **Dr. Joseph Friedberg**: Oral Presentation at Society of Thoracic Surgery 52nd Annual Meeting, Phoenix, AZ, January 2016; **Friedberg JS**, Simone, II C, **Culligan M**, Barsky A, Alley E, Sterm D, Cengel K. An extended-pleurectomy decortication-based treatment for advanced stage, large tumor volume epithelial mesothelioma yielding a median survival of greater than 3 years
- **Dr. Whitney Burrows**: Poster Presentation at Society of Thoracic Surgery 52nd Annual Meeting, Phoenix, AZ, January 2016; **Burrows WM**, **Donahue JM**, Wilson MK, **Carr SR**. Open Repair is Ideal for Type III/IV Paraesophageal Hiatal Hernias: A Modern Series of 96 Consecutive Patients
- **Dr. James Donahue**: Presentation at AACR Noncoding RNAs and Cancer meeting in Boston, MA December 4-7, 2015; Phatak P, Byrnes KA, Rao JN, Turner DJ, Wang JY,
Donahue JM. Overexpression of microRNA (miR) 199a-3p reduces proliferation through the induction of G2/M arrest in esophageal cancer cells by targeting cyclin D1.

- **Dr. James Donahue** - Presentation at Lillehei Forum, AATS meeting, Baltimore, MD May 14-18, 2016; Mansour D, Byrnes KA, Phatak P, Turner DJ, Battafarano RJ,

Donahue JM. Overexpression of the RNA-binding protein CUG-BP1 promotes esophageal cancer cell proliferation by enhancing mTOR expression.

**Publications**


- Stinchcombe TE, Carr SR, Loo BW. Multiple primary lung cancers. In: *UpToDate*, Ross ME (Ed), UpToDate, Waltham, MA, 2016.


- Culligan M, Friedberg JS. Conducting Surgery-based Clinical Trials for Malignant Pleural Mesothelioma; The Ethical, Scientific and Practical Challenges. Accepted for publication the *International Journal of Clinical Research and Trials*

- Friedberg JS, Simone, II C, Culligan M, Barsky A, Alley E, Sterman D, Cengel K. An extended-pleurectomy decortication-based treatment for advanced stage epithelial mesothelioma yielding a median survival of greater than 3 years. Accepted for publication in *Annals of Thoracic Surgery*

Abstracts Submitted

- Abstracts submitted by the Division of Thoracic Surgery for the IASLC 17th World Conference on Lung Cancer
  - WINNERS Study: Does a formal pre-operative/perioperative interactive patient education program positively impact patient outcomes and satisfaction following thoracic surgery
  - TeleNursing: A thoracic surgery nursing initiative aimed at decreasing hospital readmissions and increasing patient satisfaction

Research

The National Mesothelioma Virtual Bank (NMVB) Grant submission – PENDING approval

Launch of the Division of Thoracic Surgery Research Program in May 2016 with the following clinical trials under development:

- Multicenter, International Pilot Feasibility Study of Extended Pleurectomy-Decortication, Hyperthermic Pleural Lavage with Povidone-iodine in Patients with Stage IVa Thymic Malignancies
- Extended Pleurectomy-Decortication and Hyperthermic Pleural Lavage with Povidone-iodine in Patients with Pleural Malignancies
- WINNERS Trial – Walking Integrating Nursing and Respiratory Services
- TeleNursing: A thoracic surgery nursing initiative aimed at decreasing hospital readmissions and increasing patient satisfaction
- CryoAnalgesia Study for post-thoracotomy pain management
- A pilot study investigating intraoperative identification of parenchymal air leaks with inhaled methylene blue
- VAST Trial – Valves Against Standard Therapy for management of pulmonary air leaks.

Faculty

- Recruitment of Dr. Shelby Stewart, Fellow at Brigham and Women’s hospital in Boston to fill open attending position

Administrative

- Initiation of negotiation with St. Agnes Hospital
- Initiation of weekly Thoracic IMC meetings with attendings and staff
- Melissa Culligan appointed to the International Association for the Study of Lung Cancer (IASLC), Nursing and Allied Health Committee
- Melissa Culligan appointed to the International Association for the Study of Lung Cancer, Nursing and Allied Health Committee’s Research sub-committee
• Melissa Culligan appointed to the IASLC 17th World Conference on Lung Cancer planning committee
• Melissa Culligan appointed as a board member of the International Squamous Cell Lung Cancer Consortium
• Melissa Culligan appointed to the planning committee for the International Mesothelioma Scientific Symposium to be hosted by the NIH and the Mesothelioma Research Foundation in March 2017
• Melissa Culligan appointed to the editorial board of the International Journal of Clinical Research and Trials

Marketing
• Complete restructuring and updating of the Division of Thoracic Surgery and Thoracic Oncology website content
• Physician Liaison marketing initiative launch
• Filming of patient education video’s by each thoracic surgeon for inclusion on the website
• Thoracic IMC webpage updated with Thoracic Surgery content and educational program materials
• Comprehensive Pleural-Peritoneal Mesothelioma Website went live February 2016
• Dr. Joseph Friedberg spotlighted in a social media video post on Facebook and UMGCCC website discussing Lung cancer
• Dr. Joseph Friedberg interviewed regarding Mesothelioma for the Spring/Summer 2016 e-rounds newsletter. Article sent to surrounding physicians and MD offices
• Esophageal patient education handout completed and available for patients

Transplantation:

Dr. Jonathan Bromberg:

Grant Review Committees:
2015  NCI ZCA1 SRB-D (O1) Omnibus R03 & R21 SEP-7 Review
2015  Chair, ZAI1 PA-I (S1) 1 NIAID SBIR Phase II Clinical Trial Implementation Cooperative Agreement and Clinical Trial Planning Grants Review
2015  Dutch Kidney Foundation (Nierstichting Nederland), DKF Kolff Program for individual kidney research grants
2015  Chair, 2016/01 ZAI1 AWA-M (J1) 1 Investigator-initiated Clinical Trials (IICT)- PAR-13-151 and PAR-13-250
2015  Swiss National Science Foundation
2016  CDMRP Reconstructive Transplant Translational Research [Vascularized Composite Allo]transplantion] Panel
2016 NIH ZRG1 DKUS-J(56)
2016 NIAID Clinical Trial Planning Grant (R34) and Implementation Cooperative Agreement (U01) 
Special Emphasis Panel ZAI1-BDP-I-S1, chair
2016 NIH 201610 ZRG1 IMM-C (02), co-chair

New Grants:
Induction and Migration of Regulatory T Cells: Role of Lymphotoxin, NIH 1RO1AI062765, 8/1/15-1/31/20, $1,125,000. (PI)
Harnessing intra-lymph node controlled release to promote myelin-specific tolerance, National Multiple Sclerosis Society, 10/1/15-9/30/18, $150,000. (co-I)
The role of lymphotoxin in Treg migration and suppressor function, Living Legacy Foundation Transplantation Grant, 7/1/15-6/30/16, $114,300. (co-PI and mentor for C. Colin Brinkman, CVID)
Microbiota Structure and Transplant Outcomes: Preclinical Studies, Living Legacy Foundation Transplantation Grant, 7/1/15-6/30/16, $114,300. (co-PI with Emmanuel Mongodin, IGS)
A Multicenter, Prospective, Double-Blind, Randomized, Placebo-Controlled, Phase 3 Study of BB3 to Reduce the Severity of Delayed Graft Function in Recipients of a Deceased Donor Kidney, Angion Biomedica Corp, 10/5/15-12/31/18, $143,040. (site PI)
A Phase 3, Randomized, Double-blind, Placebo Controlled Study to Evaluate the Efficacy and Safety of QPI-1002 for Prevention of Delayed Graft Function in Recipients of a Donation After Brain Death Older Donor Kidney Transplant (ReGIFT), QUARK Pharmaceuticals, Inc., 1/7/16-1/20/20, $366,601. (site PI)
A 12-month randomized, multiple dose, open-label, study evaluating safety, tolerability, pharmacokinetics/pharmacodynamics (PK/PD) and efficacy of an anti-CD40 monoclonal antibody, CFZ533, in combination with mycophenolate mofetil (MMF) and corticosteroids (CS), with and without tacrolimus (Tac), in de novo renal transplant recipients (part 1), Novartis Institutes for BioMedical Research & Clinical Development, 11/6/2014-7/31/16, $406,195. (co-I)
A 12-month randomized, multiple dose, open-label, study evaluating safety, tolerability, pharmacokinetics/pharmacodynamics (PK/PD) and efficacy of an anti-CD40 monoclonal antibody, CFZ533, in combination with mycophenolate mofetil (MMF) and corticosteroids (CS), with and without tacrolimus (Tac), in de novo renal transplant recipients (part 2), Novartis Institutes for BioMedical Research & Clinical Development, 5/17/16-11/30/2018, $271,813.40. (co-I)

Invited Lectures:
Regulatory T Cell Trafficking, University of Virginia, Charlottesville, VA, May 19, 2016.
Top 10 Immunology Papers of the Year, Advanced Immunology Updates for Basic and Clinical Scientists, ATC Postgraduate Course, Boston, MA, June 11,2016.
National and International Service:
Chair, ASTS Grants Committee, 2013-2016
Executive Clinical Editor, Transplantation

Peer Reviewed Manuscripts:

Articles Accepted for Publication:
Scalea JR, Bromberg J, Bartlett ST, Scalea TM. Mechanistic Similarities between Trauma, Atherosclerosis, and other Inflammatory Processes. J. Critical Care
Lal G, Kulkarni N, Nakayama Y, Singh AK, Sethi A, Burrell BE, Brinkman CC, Iwami D, Zhang T, Hehlgans T, Bromberg JS. IL-10 from marginal zone precursor B cells controls the differentiation of Th17, TfH and Tfr cells during costimulatory blockade induced tolerization. Immunology Letters
Brinkman CC, Iwami D, Hritzko MK, Xiong, Y Ahmad, Bromberg JS. Treg engage lymphotixin beta receptor for afferent lymphatic transendothelial migration. Nature Communications

Chapters and Reviews:

Abstracts:

Dr. John LaMattina:

**Major Committee Assignments:**
American Society of Transplant Surgeons, Legislative Committee

**Awards and Honors:**
Poster of Distinction, 2016 American Transplant Congress

**New Grants:**
5/1/16-5/1/17 (PI)
“Molecular mechanisms responsible for the resolution of donor fatty liver disease following liver transplantation”
Living Legacy Foundation of Maryland, Inc.
Annual Direct Costs: $50,000

**Peer Reviewed Manuscripts:**


Ahmad SA, Miller M, Hanish SI, Bartlett ST, Hutson WR, Barth RN, LaMattina JC. Sequential kidney-liver transplantation from the same living donor as a cure for lecithin cholesterol acyl transferase (LCAT) deficiency. Clinical Transplantation. In press.

**Abstracts:**
Masters B, Sparkes T, Hanish S, Potosky D, Hutson W, Barth R, **LaMattina J.** Belatacept Immunosuppression in High Risk Liver Transplant Recipients. International Liver Transplant Society 21st International Congress. 2015 July 8-11; Chicago, IL, USA.

Woodall JD, Langford J, Klassen C, Harrison J, Parsell D, Dhru U, Hanish SI, Barth RN, **LaMattina JC.** Bioengineering liver allografts through organ scaffold recellularization. International Liver Transplant Society 21st International Congress. 2015 July 8-11; Chicago, IL, USA.


Uluer MC, Burdorf L, Parsell D, Sievert E, Chang X, Chang N, Azimzadeh AM, Pierson RN, Barth RN, **LaMattina JC.** Transgenic porcine livers preserve platelet counts during extra-corporeal perfusion with human blood. 2015 IPITA-IXA-CTS Joint Congress 2015 Nov 15-19; Melbourne, Australia.


Cimeno A, Parsell DM, Uluer MC, Burdorf L, Ayares D, Azimzadeh AM, Pierson RN, Barth RN, **LaMattina JC.** hEPCR.hTBM and hEPCR.hTFPI prolong survival of galTKO.hCPRP porcine livers perfused with human blood. American Society of Transplant Surgeons 16th Annual State of the Art Winter Symposium. 2016 January 14-17; Miami, FL, USA.


Masoumi A, Barth RN, **LaMattina JC,** Bruno DA, Hebert L, Ostovitz S, Hanish SI. Risk assessment tool and readmissions among liver transplant patient populations. American Society of Transplant Surgeons 16th Annual State of the Art Winter Symposium. 2016 January 14-17; Miami, FL, USA.

Cimeno A, Parsell DM, Uluer MC, Burdorf L, Ayares D, Azimzadeh AM, Pierson III RN, Barth RN, **LaMattina JC.** hEPCR.hTBM and hEPCR.hTFPI prolong survival of GalTKO.hCPRP porcine livers perfused with human blood. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

LaMattina JC, Siskind E, Barth RN, Bruno DA, Hebert L, Hanish SI. Open or not open - perioperative elevated RIs do not predict hepatic artery thrombosis. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

LaMattina JC, Siskind E, Barth RN, Bruno DA, McDonald T, Hanish SI. Traditionally unacceptable organs for use in patients with hepatocellular carcinoma before and after the implementation of Share 35. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

LaMattina JC, Masoumi A, Barth RN, Bruno DA, Hebert L, Schulterman N, Hanish SI. LACE index risk assessment tool predicts liver transplant readmissions. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.


Posner A, Twadell WS, Hanish SI, Bruno DA, Hebert L, Barth RN, LaMattina JC. Resolution of donor non-alcoholic fatty liver disease following liver transplantation. American Transplant Congress. 2016 June 11-15; Boston, MA, USA.


Dr. Silke Niederhaus:

Major Committee Assignments:
Member, UNOS Pancreas Transplant Committee, At-Large Member, and Subcommittee Chair (Pancreas Underutilization and Facilitated Pancreas Allocation)
Abstracts:

Famulski KS, Niederhaus S, Reeve J, Bromberg JS and Halloran PF. “Many Discarded Kidneys Are Similar to Kidneys Accepted for Transplantation as Judged by Their Histologic Lesions and Molecular AKI Scores”, 2016 American Transplant Congress, Boston, MA.


Peer Reviewed Publications:
Greenean G, Ahmad SB, Anders MG, Leeser A, Bromberg JS, Niederhaus SV. Recreational Marijuana Use is Not Associated with Worse Outcomes After Renal Transplantation, in revision, Clinical Transplantation.

Dr. David Leeser:

Peer Reviewed Manuscripts:

Chapter:

Awards:
Outstanding Ambassador of the Year 2104-2015, National Kidney Foundation of Maryland

Abstract Presentations:

**New Research Grants:**

**Programmatic Development:**
Queenstown Surgical Center initiated as a site for access creation. Waterloo Surgical Center initiated as a location for access evaluation and in process to begin access surgeries at Waterloo

**Dr. Steven Hanish:**

**Abstract Presentation:**
Oral abstract at ATC, use of traditionally discarded livers for the patients with hepatocellular cancer

**National Committees and Service:**
ASTS Winter Meeting Planning Committee
ASTS Fellowship Committee
Editorial Board, *Transplantation Reviews*

Organox National Warm Liver Perfusion Trial, Clinical events oversight board

**Peer Reviewed Manuscripts:**


Ahmad SA, Miller M, **Hanish SI**, Bartlett ST, Hutson WR, Barth RN, LaMattina JC. Sequential kidney-liver transplantation from the same living donor as a cure for lecithin cholesterol acyl transferase (LCAT) deficiency. Clinical Transplantation. In press.
Abstracts:
Woodall JD, Langford J, Klassen C, Harrison J, Parsell D, Dhru U, Hanish SI, Barth RN, LaMattina JC. Bioengineering liver allografts through organ scaffold recellularization. International Liver Transplant Society 21st International Congress. 2015 July 8-11; Chicago, IL, USA.


LaMattina JC, Siskind E, Barth RN, Bruno DA, Hebert L, Hanish SI. Open or not open - perioperative elevated RIs do not predict hepatic artery thrombosis. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

LaMattina JC, Siskind E, Barth RN, Bruno DA, McDonald T, Hanish SI. Traditionally unacceptable organs for use in patients with hepatocellular carcinoma before and after the implementation of Share 35. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

LaMattina JC, Masoumi A, Barth RN, Bruno DA, Hebert L, Schulterman N, Hanish SI. LACE index risk assessment tool predicts liver transplant readmissions. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea.

Posner A, Twadell WS, Hanish SI, Bruno DA, Hebert L, Barth RN, LaMattina JC, Resolution of donor non-alcoholic fatty liver disease following liver transplantation. American Transplant Congress. 2016 June 11-15; Boston, MA, USA

Dr. Soo Yi:

Peer Reviewed Manuscripts:


Dr. David Bruno:
Peer Reviewed Manuscripts:


Dr. Rolf Barth:

Published Peer Reviewed Papers:


**Book Chapters:**


**Abstracts:**


Cimeno A, Parsell DM, Uluer MC, Burdorf L, Ayares D, Azimzadeh AM, Pierson RN, Barth RN, LaMattina JC. hEPCR.hTBM and hEPCR.hTFPI prolong survival of galTKO.hCPRP porcine livers perfused with human blood. American Society of Transplant Surgeons 16th Annual State of the Art Winter Symposium. 2016 January 14-17; Miami, FL, USA.

Masoumi A, Barth RN, LaMattina JC, Bruno DA, Hebert L, Ostovitz S, Hanish SI. Risk assessment tool and readmissions among liver transplant patient populations. American Society of Transplant Surgeons 16th Annual State of the Art Winter Symposium. 2016 January 14-17; Miami, FL, USA. Am J Transplant; 16(S1):XX.

Cimeno A, Parsell DM, Uluer MC, Burdorf L, Ayares D, Azimzadeh AM, Pierson III RN, Barth RN, LaMattina JC. hEPCR.hTBM and hEPCR.hTFPI prolong survival of GalTKO.hCPRP porcine livers perfused with human blood. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea. Transplantation, Volume: 100 Supplement: 5 Pages: S97-S97 Meeting Abstract: O-54 Published: MAY 2016


LaMattina JC, Siskind E, Barth RN, Bruno DA, Hebert L, Hanish SI. Open or not open - perioperative elevated RIs do not predict hepatic artery thrombosis. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea. Transplantation, Volume: 100 Supplement: 5 Pages: S114-S115 Meeting Abstract: O-108 Published: MAY 2016

LaMattina JC, Siskind E, Barth RN, Bruno DA, McDonald T, Hanish SI. Traditionally unacceptable organs for use in patients with hepatocellular carcinoma before and after the implementation of Share 35. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea. Transplantation, Volume: 100 Supplement: 5 Pages: S234-S234 Meeting Abstract: P-309 Published: MAY 2016

LaMattina JC, Masoumi A, Barth RN, Bruno DA, Hebert L, Schulterman N, Hanish SI. LACE index risk assessment tool predicts liver transplant readmissions. 22nd International Liver Transplant Society Annual International Congress. 2016 May 4-7; Seoul, South Korea. Transplantation, Volume: 100 Supplement: 5 Pages: S221-S221 Meeting Abstract: P-265 Published: MAY 2016

Presentations:
Barth RN and Drachenberg C. Facial Vascularized Composite Allograft with Large Volume Vascularized Bone Marrow. International Workshop on Vascularized Composite Allotransplantation Histopathology; May 21, 2016; Durham, NC.


Barth RN. CTA-10: Vascularized Bone Marrow Regulates Alloresponses to Vascularized Composite Allografts. Armed Forces Institute of Regenerative Medicine II Investigators Meeting. January 12, 2016: Bethesda, MD.


Barth RN. E-Visits Facilitate Multiple Listing for Liver Transplantation. Lead Presenter, Mid-Atlantic Telehealth Resource Center Telehealth Summit. April 11, 2016: Cambridge, MD.


Barth RN. Introduction to Transplantation. Day of Discovery, School of the Cathedral of Mary Our Queen, February 4, 2016: Baltimore, MD.

Barth RN, Herzog J, Williams L, Funk J, Steiner M. Boundaries of the Body, Limits of Love. The World of the Play Inspired by Under the Skin – A Panel Discussion Series, Everyman Theater. February 6, 2016: Baltimore, MD.

Barth RN. Liver Transplantation. Association of Surgical Technologists, Maryland State Assembly, 2016 Spring Workshop, University of Maryland Medical Center, March 19, 2016: Baltimore, MD.

Grants Awarded:
2016-2018 Barth, R.N. (PI) Elster, E (Project PI at WRNMMC) Adult Tissue-Derived Stem Cells and Tolerance Induction in Nonhuman Primates for Vascularized Composite Allograft Transplantation Congressionally Directed Medical Research Programs (CDMRP) Total Direct + Indirect Costs: $448,415

2015-2020 Barth, R.N. (Co-Investigator 7.5%; Pierson III,Richard N. PI) Genetically-engineered pig organ transplantation into nonhuman primates National Institutes of Health - 2U19AI090959-06
Total Direct Costs: $473,458
Coagulation Control to Protect GaITKO Lung and Liver Xenografts

**Media Coverage:**


**Editorial Board:**
2014 - Vascularized Composite Allotransplantation

2016 - Current Transplantation Reports, Section Editor Vascularized Composite Allografts

**Study Sections:**
2016 Grant Reviewer, Clinical Rehabilitative Medicine (CRM), United States Army Medical Research and Material Command (MRMC) Broad Agency Announcement (BAA) Extramural Medical Research (EMR) Program

**Recognitions:**
2015-6 Certificate of Appreciation for Mentorship (Irene Lu) in Gifted & Talented Education Program, Atholton High School, Columbia, MD

2015 Inducted into Society of Clinical Surgery (Elected 2014)

**New Clinical Initiatives:**
E-Visits for Liver Transplant Consultations

Liver Transplant Collaboration with George Washington University and possible integration of GI fellow into liver transplant service

Inova Fairfax Liver Transplant Evaluation Clinic
Trauma:

- Brandon Bruns, MD – Promoted to Associate Professor
- David Gens, MD – Received the Golden Apple Teaching Award

Urology:

- Dr. Andrew Kramer continues to have the third largest penile implant practice in the world. He was featured on the Jenny McCarthy show, aired live in February 2016 and was on the Dr. Oz show for the second time in March 2016. He has seven peer reviewed manuscripts.
- Dr. Siddiqui has developed the largest robotic cystectomy practice in the State of Maryland

Vascular Surgery:

Promotions:
- Robert Crawford, MD – Promoted to Associate Professor
- Brajesh Lal, MD – Promoted to Professor, with tenue

Clinical:
- Establishment of the first University of Maryland faculty practice in Hanover, PA with Dr. Daniel Neuzil. He performed more vascular surgery in the month of March 2016 than the hospital did in the past three years.
- Establishment of specialty multi-disciplinary clinics:
  - Limb Preservation Program
  - Thoracic Outlet Clinic
- Recruitment of new faculty member (Sira Duson) and preparation for new vascular surgery practice at Prince Georges Hospital Center.
- Establishment of outreach clinical programs at Charles Regional Medical Center (Drs. Lilly and Flohr)
- Re-accreditation of the Vascular Laboratory by the IAC.

Educational:
- Record attendance at our annual CME course “Advances in Vascular Surgery and Endovascular Therapy” May 2016
- For the fourth year in a row, a graduating vascular surgery fellow has been appointed to a full-time academic position (Adriana Laser, Albany Medical Center)
- 100% pass rate on American Board of Surgery Vascular Qualifying Examination for our fellowship graduates
Research:

- Seven presentations including three plenary oral at the Society for Vascular Surgery Annual Meeting June 2016.
- Department of Defense research grant awarded (PI: Robert Crawford) for study of ethyl pyruvate for prevention of limb ischemia-reperfusion

Baltimore 2015 Best Doctors:

Cardiac:
  Kaushal, Sunjay - Pediatric

General:
  Kavic, Stephen – Minimally Invasive
  Kligman, Mark - Bariatric

Pediatric Surgery:
  Strauch, Eric
  Voigt, Roger - Urology

Plastic Surgery:
  Slezak, Sheri - Breast

Surgical Oncology:
  Hanna, Nada

Transplant: Kidney, Pancreas, Liver:
  Bartlett, Stephen

Trauma:
  Scalea, Thomas
  Stein, Deborah

Urology:
  Kramer, Andrew
The Department of Surgery enters FY 2017 with a strong, efficient and expanding faculty, demonstrated excellence in educational, research and clinical arenas, and with solid partnerships with our School, our Campus and a rapidly expanding Medical System. We have added four promising faculty for FY2017:

Vascular Surgeon - Dr. Sira Duson –
Dr. Duson received her MD from Temple University. She completed her residency in general surgery from the Union Memorial Hospital, here in Baltimore and her vascular fellowship from Georgetown University Hospital and the Washington Hospital Center.

Transplant Surgeon – Dr. Joseph Scalea –
Dr. Scalea received his MD from the University of Maryland, School of Medicine. He completed his residency in general surgery at the University of Maryland and was the executive administrative chief resident at the University of Maryland and the Shock Trauma Center. He completed his research fellowship in transplant biology from the Harvard Medical School, Transplantation Biology Research Center and his clinical fellowship in transplant surgery from the University of Wisconsin.

Thoracic Surgeon – Dr. Shelby Stewart –
Dr. Stewart received her MD from the University of Michigan. She completed her residency in general surgery from the Albert Einstein Medical Center and her cardiothoracic surgery residency from Beth Israel Deaconess Medical Center, Department of Surgery. She completed her clinical fellowship in invasive thoracic surgery from the Brigham and Women’s Hospital, Department of Surgery.

Surgical Oncologist - Dr. Richelle Williams -
Dr. Williams received her MD from the Harvard Medical School. She completed her residency in general surgery from the University of Chicago and her clinical fellowship in complex surgical oncology at Dana Farber Cancer Institute, Brigham and Women’s Hospital and Massachusetts General Hospital. She was successful in securing a K12 award through the BIRWCH.
FY2017 will continue to be a challenging year, but we are optimistic that we will have a successful year. Our Strategic Plan for FY2017 is as follows:

- Align with UMMC on hospital intensive programs; Cardiac, Transplant, Thoracic, Vascular & Oncologic Surgery to increase market share
- Align with the system for outpatient based programs
- Continue to expand service locations throughout Maryland, PA, DC, VA & West Virginia
- Rollout of new Department of Surgery Incentive Plan
- Continue with Cost Saving Initiative (CSI) Plans

In addition we have revised our faculty incentive plan. Currently the plan is based 100% on wRVUs. In FY2017, wRVUs will still be a large portion of the calculation, but will drop to 75%. The balance will be based on financial stewardship, research and academic productivity, quality indicators, citizenship, and divisional and individual profitability.

News Articles

Several news stories featured the Department of Surgery during fiscal year 2016. Inserted below are a sample of some prominent articles.

FISCAL YEAR 2016 SURGERY FACULTY MENTIONS

Dr. Rachel Bluebond-Langner; UMMC: Local doctor performs gender reassignment surgery >WMAR-TV - Apr 25 VIDEO http://umm.gd/1qO6PpQ
See Also: Transgender soldier serves as an advocate for others http://umm.gd/1SKEfCt

Dr. Rachel Bluebond-Langner; UMMC: Healthcare practitioners slowly becoming more sensitive to transgendered patients >Baltimore Sun - Mar 31 http://umm.gd/1RsJRPf

SOM, Dr. Richard Pierson: How This Pig Heart in a Baboon Body Could Save Your Life >Science.Mic – Apr 7 http://umm.gd/1YiyHgs

Dr. David Leeser, UMMC: Mom gives son the gift of life before Mother's Day >WBAL-TV – May 6 http://umm.gd/1QUro9q

Dr. Jonathan Bromberg; UMMC: University of Maryland Medical Center leads in kidney transplants for blacks >Baltimore Times - Mar 25 http://umm.gd/22NzNEq