School of Medicine
ANNUAL REPORT
2018/2019

<table>
<thead>
<tr>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter from the Vice Chancellor</td>
<td>2</td>
</tr>
<tr>
<td>UMMC Quality and Safety Data for Academic Year 2019</td>
<td>3</td>
</tr>
<tr>
<td>Department of ANESTHESIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>Department of CELL AND MOLECULAR BIOLOGY</td>
<td>8</td>
</tr>
<tr>
<td>Department of DERMATOLOGY</td>
<td>10</td>
</tr>
<tr>
<td>Department of EMERGENCY MEDICINE</td>
<td>14</td>
</tr>
<tr>
<td>Department of FAMILY MEDICINE</td>
<td>18</td>
</tr>
<tr>
<td>Department of MEDICINE</td>
<td>21</td>
</tr>
<tr>
<td>Department of MICROBIOLOGY AND IMMUNOLOGY</td>
<td>27</td>
</tr>
<tr>
<td>Department of NEUROBIOLOGY AND ANATOMICAL SCIENCES</td>
<td>29</td>
</tr>
<tr>
<td>Department of NEUROLOGY</td>
<td>32</td>
</tr>
<tr>
<td>Department of NEUROSURGERY</td>
<td>38</td>
</tr>
<tr>
<td>Department of OBSTETRICS AND GYNECOLOGY</td>
<td>42</td>
</tr>
<tr>
<td>Department of OPHTHALMOLOGY</td>
<td>46</td>
</tr>
<tr>
<td>Department of ORTHOPEDIC SURGERY AND REHABILITATION</td>
<td>50</td>
</tr>
<tr>
<td>Department of OTOLARYNGOLOGY AND COMMUNICATIVE SCIENCES</td>
<td>53</td>
</tr>
<tr>
<td>Department of PATHOLOGY</td>
<td>56</td>
</tr>
<tr>
<td>Department of PEDIATRICS</td>
<td>61</td>
</tr>
<tr>
<td>Department of PHARMACOLOGY AND TOXICOLOGY</td>
<td>68</td>
</tr>
<tr>
<td>Department of PHYSIOLOGY AND BIOPHYSICS</td>
<td>71</td>
</tr>
<tr>
<td>Department of PREVENTIVE MEDICINE</td>
<td>76</td>
</tr>
<tr>
<td>Department of PSYCHIATRY AND HUMAN BEHAVIOR</td>
<td>78</td>
</tr>
<tr>
<td>Department of RADIATION ONCOLOGY</td>
<td>83</td>
</tr>
<tr>
<td>Department of RADIOLOGY</td>
<td>85</td>
</tr>
<tr>
<td>Department of SURGERY</td>
<td>92</td>
</tr>
</tbody>
</table>
Fall 2019

Enclosed here is the School of Medicine Annual Report for 2018–19. It gives a snapshot of the incredible breadth of work accomplished in our mission areas of education, health care, and research through the departments. In addition, the annual report highlights the commitment of the administrative leadership to collectively advance the missions while improving the quality of all services.

Quality improvement in each of the mission areas is paramount. Quality improvement in education is evidenced by the initiatives noted by each department with a focus on student and/or resident education. Major increases in externally-funded research demonstrate faculty members’ increased scholarly activity and UMMC’s capacity building in our research mission. The advances that have been made in patient safety in health care are highlighted in the quality and safety data report from the CMO Office.

As you read the report we want you to be aware of the commitment and pride that faculty and staff have for the work that they are doing. They are delighted to share this document to facilitate the recruitment of others in these efforts to continue to move the school and state forward.

Sincerely,

LouAnn Woodward, MD
Vice Chancellor for Health Affairs and Dean, School of Medicine
For the past four years, UMMC’s number one strategic priority has been quality and patient safety. As an organization, we have made significant strides on our quality metrics that we report on our internal scorecard and to the Centers for Medicare and Medicaid Services (CMS). The overarching goal of UMMC quality improvement efforts has been to engage all caregivers in driving quality with the following aims:

- What is good for patients
- Improve UMMC reputation scores
- Positively impact Pay-for-Performance programs.

UMMC has focused on the three main areas below for improvement:

- Patient Safety
- Patient Outcomes
- Patient Experience

Work in 2019 has focused on leaders understanding these principles and agreeing on a common language. As part of UMMC’s High Reliability journey, one focus of 2019 is change management and performance improvement. Change management starts with leaders and leaders set the tone by attending a two-day training session on “Leaders Facilitating Change.” The next wave of training will continue instilling the principles of change management with the next generation of Change Leaders, and the development of “The UMMC Method for Performance Improvement.”

There is also a continued focus to drive improvement utilizing UMMC’s institutional quality metrics. Each focus area has associated metrics with defined baseline data and specific targets for improvements. Metrics include: hand hygiene, hospital acquired infections, patient safety indicators, 30 day readmission rates, hospital mortality and patient experience. UMMC overall has seen the following improvement in the selected goals over the past 3½ years:

- Hand Hygiene has improved from 53% to 89% compliance.
- Hospital Acquired Infections (HAIs) have been reduced from 46 to 18 per month. The long-range goal is zero hospital-acquired infections.
- Patient Safety Indicators (PSIs) were reduced from 34 to 8 per month in two years and are now off the scorecard because of the sustainability of the reductions.
- 30 day Readmission Rates are stable around 11%: patients with diabetes have a 5% higher rate than those without diabetes.
- Hospital Mortality Observed: Expected ratio fluctuates by quarter between 1.0 and 1.15.
- Over the past two years, significant work has occurred in the area of patient experience. This work includes establishing a dedicated Office of Patient Experience to lead the organization to embrace the role of patient and family perspectives in driving quality, cultural and operational improvements. The voice of patients and families help UMMC make improvements. Patient Experience overall hospital rating has improved from the 30th to 45th percentile ranking among a large national database.

Department specific data is sent to departments monthly. Departments receive hand hygiene compliance rates, the number (and a patient specific list) of HAIs, readmissions, deaths, and their latest performance on patient experience surveys. Departments use this data to educate faculty and to continue to drive improvements of UMMC’s quality efforts at both departmental and institutional levels.
LEADERSHIP ROLES

- Douglas R. Bacon, MD, Department Chair
- Arthur L. Calimaran, MD, Vice Chair for Education and Assistant Residency Program Director
- Bryan Hierlmeier, MD, Residency Program Director
- Y. Melissa Chan, MD, Associate Residency Program Director
- Ike Eriator, MD, M.PH., Pain Medicine Fellowship Director
- Anesh Rugnath, MD, Pain Medicine Fellowship Assistant Director
- Chawla LaToya Mason, MD and Kristen Shae Bell, MD, Medical Student Education Directors
- John Adams, MD, MBA, Pediatric Fellowship Program Director
- Sara Ball-Robertson, MD, Pediatric Anesthesiology Fellowship Assistant Program Director
- Vanetta Levesque, MD, Cardiothoracic Anesthesiology Fellowship Program Director
- Daniel Castillo, MD, Cardiothoracic Anesthesiology Assistant Fellowship Program Director

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 0
Number of elective courses/clerkships taught in the SOM: 6
- ANES 630 Survey of Anesthesia
- ANES 651 Clinical Anesthesiology
- ANES 652 Pain Management
- ANES 653 Anesthesiology & Peri-Operative Medicine
- ANES 851 Anesthesia Extramural
- ANES 852 Anesthesia Extramural

Number of course or co-course directors: 0
Number of program or associate program directors: 4 Program Directors and 5 Associate/Assistant Program Directors

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

“The Department of Anesthesiology’s goal remains to provide the best possible training for those interested in a career in anesthesiology.” – Douglas Bacon, MD, MA, Professor and Chair of Anesthesiology

Accomplishments:
- For the past 4 years, the ACGME’s Review Committee commended the program for its demonstrated substantial compliance with the ACGME’s Program Requirements and/or Institutional Requirements without any new citations.
- Leadership positions and active participation of faculty and residents to several key committees in state, regional, and national anesthesiology societies.
- Three faculty are active members of the Association of University Anesthesiologists. This organization was started in the 1950s and has the leaders in education and research in the country in academic anesthesiology.
- Increasing number of scholarly activities such as scientific abstracts, research publications, and book chapters by residents.
- Successfully held the 5th Annual Dr. Brunson’s teaching/research day.
- Application for Critical Care Medicine fellowship was submitted to ACGME

Developments
- Plan to start additional fellowship programs in Obstetric anesthesiology and Clinical Informatics
- For ACGME’s Next Accreditation System, the department has adapted the use of outcomes-based milestones as a framework for determining resident performance with the six ACGME core competencies.

Challenges
- Like in most academic medical centers, the department is confronted with the challenge of finding resources needed to maintain and foster a high level of faculty and resident engagement.
- The department is committed to recruit and prepare trainees, despite present and future challenges, to propel them on a path of mastering their craft, so that they can provide the highest quality health care to our patients.

CLINICAL
CLINICAL PERFORMANCE

Patient Safety:
- Case review committee: in depth group review of reported cases to select cases for M&M presentation and inform practice
- M&M conferences (increasingly interdisciplinary)
• Collaboration with Pharmacy to improve medication safety by:
  o Drug infusion standardization
  o Utilizing new OR anesthesia carts and working on increasing the availability of IV infusion pumps and syringe-pumps.
• Equipment Committee:
  o New anesthesia machines
  o New quantitative neuromuscular monitors

**Quality:**
Alignment with UMMC priorities:
• Infection Prevention in Anesthesia: new internal guideline to prevent cross contamination prepared in collaboration with Infection Prevention and including a checklist for room turnover
• Prevention of Surgical Site Infection: several members of our department have contributed to:
  o The definition and current implementation of a colon surgery bundle
  o First the drafting and now the implementation of the first UMMC Surgical Antibiotic Prophylaxis in adult surgical cases.
• Prevention of Readmissions: we are collaborating with the CMO-led efforts to increase the timely identification and optimize the management of diabetic patients in the perioperative setting.
• Supervision of Procedural Sedation Activities: our department, in collaboration with UMMC Procedural Sedation Committee is working on standardizing documentation procedures across all locations to improve compliance with regulatory requirements. The plan is to eventually be able to audit 100% of elective sedation cases for compliance and collection of QI data.
• Participation in the national Registry NACOR managed by the Anesthesia Quality Institute
• Increasing implementation of ERAS protocols developed in collaboration with Surgical Divisions and Pharmacy/Epic Team.

**CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
• Recruitment of New Faculty
  o Patricia Amolenda, MD
  o Matthew Buck, MD
  o Christiano Dos Santos E Santos, MD
  o Forrest Duncan, MD
  o Patrick Newman, MD
  o Jeremy Rainey, MD
• Implemented additional ERA protocols for surgical lines resulting in reduced length of stay
• Stream-lined CRNA leadership roles to augment clinical care delivery
• Expanding departmental clinical footprint across the campus
• Expanded our Acute/Inpatient Pain Service to capture more regional block opportunities in an effort to better manage pre and post-operative pain
• Adopted a more liberal scheduling policy for surgical cases to ensure ORs are better utilized

**Developments:**
• Department continues to recruit vigorously in local community and beyond to expand our clinical footprint
• Continue to identify and target off campus clinical opportunities

**Challenges:**
• Multiple locations are recognized as challenging without adequate staffing
• Identifying more diverse revenue streams
• PACU remains undersized and stressed due to overloading with acute patients

**RESEARCH**

**FACULTY SCHOLARLY PRODUCTIVITY**
Faculty with primary appointments: 51
• Articles in peer-reviewed journals: 5
• Books published: 0
• Books chapters published: 0
• Members of national study sections or national or international committees: 2
• Journal editors: 2
• Members of editorial boards: 0
• PIs on extramural grants or editorial boards: 1
• Number of Patents: 1

**TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):**
• Total Federal Funding (Direct + Indirect): $76,422
  NIH – $7,491
  DOD – $68,931
  Other – $0
• Total Non-Federal Funding (Direct + Indirect): $0
  AHA – $0
  NSF – $0
  Other – $0

**TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):**
IRSP – $0
FSE – $0
Other – $0
RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Research Name – N/A
- Funding Amount – N/A
- Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- The data from the IRSP grant was submitted for an NIH RO1 grant application. NIH – Tucci, NIH-RO1 Grant, Multifunctional Composites for Craniofacial Tissue Engineering, Role: Co-Investigator (PI: Amol Janorkar), Submitted 2/17/2019.
- Drs. Tucci and Kurnutala worked with two residents on basic science research during the fall and spring semesters. The research was presented at resident teaching day and the students won 1st and 2nd place.
- Christiano Dos Santos E Santos, working under the direction and supervision of Bernadette Grayson, won the gold medal at the “World Congress on Neurology and Brain Disorders” in Paris for the best research presented. His paper was entitled “Metabolic Biomarkers for Injury Progression in a Rodent Model of Spinal Contusion”.
- Dr. Michelle Tucci operates as Conference Chair for the 35th Southern Biomedical Engineering Conference in Hattiesburg, MS

Developments:
- Hired a Vice Chair of Research, Laura Cavallone, MD. She will begin her appointment in the fall of 2019.
- Increasing collaboration in basic research and preparing two DOD grants.

Challenges:
- The main challenges have been the time that the attending physicians and residents have to complete research. Majority of their time is devoted to Clinical output.

ADMINISTRATION

FACULTY IN EACH DIVISION
- Douglas R. Bacon, MD, MA, Chair
- John Adams, MD, MBA
- Suwarna Anand, MD
- Harris Baig, MD
- Kristen Bell, MD
- Ines Berger, MD
- John Bethea, MD
- Frank Bonvillain, MD
- Philip Boysen, MD
- Claude Brunson, MD, MS
- Arthur L. Calimaran, MD
- Daniel Castillo, MD
- Y. Melissa Chan, MD
- Hyung Sun Choi, MD
- Xiaoli Dai, MD
- Raouf Daoud, MD
- Ike Eriator, MD, M.PH.
- Tanith Graham, MD
- Zurab Guruli, MD
- William Gusa, MD
- Bryan Hierlmeier, MD
- William Hulett, MD
- Joseph King, MD
- Lakshmi Kurnutala, MD
- Chester Lake, MD
- Vanetta Levesque, MD
- Natesan Manimekalai, MD
- Douglas Maposa, MD
- C. Latoya Mason, MD
- Garland Milner, MD
- Prabhat Mishra, MD
- Olga Ostrovsky, MD
- Kenneth Oswalt, MD
- Leticia Otchere-Darko, MD
- Kim Poteet-Schwartz, M.D
- Anand Prem, MD
- Iliana Ramirez-Saldana, MD
- Sanja Raucher, MD
- Randall Kirk Reid, MD
- Roberts, Rachel, MD
- Charles Robertson, MD
- Hess Robertson, MD
- Sara Robertson, MD
- Anesh Rugnath, MD
- Joseph Saenz, MD
- Michelle Sheth, MD
- Ramaroa Takkallapalli, MD
- Douglas Tucker, MD
- Shelly Tucci, MD
- Channing Twynner, MD
- Henrique Vale, MD
- Andrea Vannucci, MD
- Cynthia Vaughn, MD
- Aubrey Duane Williamson, MD
- Mack Woo, MD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Kasey Broussard, Business Administrator
- Hayden West, Assistant Director of Business Administration and Finance
- Valarie Tatum, Supervisor of Business Operations
- Cathy Braboy, Sr. Education Administrator
- Ellecia Cooper, Education Administrator
- Tammy Holliman, Executive Assistant
- Antoinette Newsome, Program Administrator
- Cathy Randall, Business Analyst
- Shimika Scott, Administrative Assistant III
- Brittany Daniels, Administrative Assistant I
- Ramon Jackson, Researcher III
- Gwendolyn Varnado, Certified Coder
DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: Brunson Fund
Amount: $15,000

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Successfully hosted the Southern University Department of Anesthesia Chairs Conference (SUDAC). Hosted 16 Academic Department of Anesthesia Chairs in a two day conference held at the Westin Jackson, Two MS Museums and UMMC Campus.
• Integrated the Qgenda scheduling software for the CRNA group.
• CRNA organization restructured to better administer the Clinical, Quality and Safety and Educational aspects of the CRNA role.
• Instituted a weekly huddle with staff members to increase level of communication amongst the group. Allow time in the meeting for recognition and a positive message to start the week.

Development:
• Continue to seek education opportunities to help our administrative staff improve technical, cognitive and communication skillsets.
• Group continues to identify areas of opportunity where improvement projects are needed.

Challenges:
• Transition from Lawson to Workday.

• Growing administrative duties for Clinicians has increased the demand on the administrative staff. Headcount needs to increase and budgetary constraints are making this very challenging.
LEADERSHIP ROLES

- Chairman, Jane F. Reckelhoff, PhD
- Co-Directors of Med/Grad Biochemistry (CMB610/710), Michael Hebert, PhD/David Brown, PhD
- Coordinator Dental Biochemistry (CMB604), Drazen Raucher, PhD
- Coordinator of Cellular Biochemistry (CMB743), Damian Romero, PhD
- Coordinator of Molecular Biology (CMB724), Maureen Wirschell, PhD
- Coordinator of Biochemical Methods (CMB740), Michael Hebert, PhD
- Coordinator of Cell & Molecular Biology Journal Club, Omar Logue, PhD
- Coordinator of Physical Biochemistry (CMB 715), Jack Correia, PhD
- Coordinator of Enzymes (CMB 711), Jon Hosler, PhD
- Chair of Department APT Committee, David Brown, PhD
- Director of Department Graduate Program, Michael Hebert, PhD
- Director of Medical Biochemistry certificate online course (CMB705,706,707,708), Bettye Sue Hennington, PhD
- Chair of the Preclinical Curriculum Coordination Subcommittee of the SOM curriculum committee, Michael Hebert, PhD

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
Program – N/A
Residency – N/A
Fellowship – Postdoctoral fellows: 3

Accreditation status
Program: N/A
Residency: N/A
Fellowship: N/A

Board pass rate
(Provide explanation; e.g., first-time takers, 3- or 5-year average, etc.)
Program: N/A
Residency: N/A
Fellowship: N/A

Number of graduate students: 5

EDUCATIONAL EFFORT

Number of required courses/ clerkships taught in the SOM: 1
Required courses/ clerkships: 1
- CMB 610 Medical Biochemistry

Number of elective courses/ clerkships taught in the SOM: 0

Number of course or co-course directors: 2
Number of program or associate program directors: N/A

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
We have implemented new recruitment efforts in order to attract highly qualified applicants to the CMB PhD program. Our current students have published in internationally recognized journals and presented their work at national meetings.

Developments:
We successfully developed Medical Biochemistry certificate online education program. Students were enrolled for Summer 2019. Course director: B.S. Hennington, PhD with Instructor, Maryam Syed, PhD

Work in progress seminar series started to provide faculty/fellows/students with updated information on research programs to further potential collaborations within our department and others.

Challenges:
Graduate students are now required by the CMB program to submit an application for funding after they have been admitted to candidacy. These efforts have not been successful thus far, but we are hopeful that future applications will be funded.

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 18
- Articles in peer-reviewed journals: 43
- Books published: 0
- Books chapters published: 2
- Members of national study sections or national or international committees: 4
- Journal editors: 1
- Members of editorial boards: 15
- PIs on extramural grants: 6 PIs Co-PIs
- Number of Patents: 1

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect):
  NIH – $2,949,851
  DOD – $0
  Other – $0
- Total Non-Federal Funding (Direct + Indirect):
  AHA – $0
  NSF – $0
  Other – $10,620

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
- IRSP – $30,000
- FSE – $0
- Other – $0
RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- The Department of Cell and Molecular Biology provides support for developmental projects using State funds: $198,870
  - Research Name – N/A
  - Funding Amount – N/A
  - Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
New R21 funding for Dr. Raucher
New COBRE project funding for Drs. Logue and Romero

Developments:
New Confocal Microscopy Core developed with Dr. Brown in charge.

Challenges:
Renovation of research space on 3rd floor Research wing has not happened yet.

ADMINISTRATION

FACULTY IN EACH DIVISION
- Jane F. Reckelhoff, PhD, Chair
- John J. Correia, PhD
- David T. Brown, PhD
- Michael D. Hebert, PhD
- Jonathan P. Hosler, PhD
- Drazen Raucher, PhD
- Betty S. Hennington, PhD
- Dr. Licy Yanes Cardozo, PhD
- Dr. Rodrigo Maranon, PhD
- Omar Logue, PhD
- Jung Su Ryu, PhD
- Maryam Syed, PhD
- Stephanie Tanner, MD
- James Petell, PhD
- Yann Gibert, PhD
- Maureen Wirschell, PhD
- Licy Yanes Cardozo, PhD
- Omar Logue, PhD
- Jung Su Ryu, PhD
- Maryam Syed, PhD
- Stephanie Tanner, MD
- James Petell, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- David Brown, chair
- Jonathan Hosler
- Drazen Raucher
- Michael Hebert
- John Correia

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Kennsie Johnson, MS, Manager of Business Operations
- Pamela Keys, Business Analyst
- Cherese Kelly, MS, Administrative Assistant III

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
Discovery U: Students of the Department of Cell and Molecular Biology served in the DiscoveryU event that taught nearly 400 elementary students how to extract DNA. The event was sponsored by UMMC SGSHS at the Mississippi Children’s Museum.

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
 Major Fundraising Development: None
Amount: $0

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Hire of new assistant professor, Omar Logue, PhD
- Hire of new associate professor, Yann Gibert

Development:
- None

Challenges:
- Hiring of additional faculty to obtain extramural research funding and be able to teach. We interviewed several candidates, made offers, but were only able to attract one faculty member who will be an excellent teacher, but is currently unfunded. We intend to revamp our interview process, bring spouses to interview to visit Jackson, make offer during the visit if we are interested, and require commitment within 2–3 weeks.
- Move to Guyton 1st floor was not accomplished until after July 1, 2019.
- We have been waiting for space for Dr. Logue’s lab since January 15, when he joined the dept.
LEADERSHIP ROLES
- Chair, Robert T. Brodell, MD
- Vice Chair, Jeremy D. Jackson, MD
- Residency Program Director, Nancee K. Mcowan, MD
- Assistant Residency Program Director, Jeremy D. Jackson, MD
- Director of Dermatologic Surgery, William H. Black, MD
- Director of Cosmetic Dermatology, Kimberley H.M. Ward, MD
- Director of Pediatric Dermatology, Ashley N. Emerson, MD
- Director of Cutaneous Lymphoma, Jeremy D. Jackson, MD
- Director of Occupational Dermatology and Patch Testing, Stephen E. Helms, MD
- Director of Dermatopathology, Robert T. Brodell, MD
- Director of Teledermatology, Jasmine C. Hollinger, MD
- Director of Skin of Color and Vitiligo, Jasmine C. Hollinger, MD
- Director of Rural Dermatology, Adam C. Byrd, MD
- Director of VA Dermatology Service, Jeremy D. Jackson, MD
- Grand Rounds Lead Physician, Jeremy D. Jackson, MD
- Continuing Medical Education Lead Physician, Stephen E. Helms, MD
- Editor, Dermatology Connection, Stephen E. Helms, MD
- Director, M-3/M-4 Dermatology Curriculum, Jeremy D. Jackson, MD

Accreditation status
Program: Full
Residency: Full
Fellowship: Full

Board pass rate
Residency: 100% (7/7 over 3 years)
Fellowship: 1st fellow examinations summer 2019

Number of graduate students: 0

EDUCATIONAL EFFORT
- Number of required courses/clinship taught in the SOM: 0
- Number of elective courses/clinship taught in the SOM: 5
- Two dermatology lectures in General & Systemic Pathology Course 621
- M3 year:
  DERM 640 – Dermatology, Dr. Jeremy Jackson
  DERM 641 – Rural Dermatology, Dr. Adam Byrd
- M4 year:
  DERM 664 – Dermatology, Dr. Jeremy Jackson
  DERM 665 – Dermatology Research, Dr. Jeremy Jackson
  DERM 667 – Rural Dermatology, Dr. Adam Byrd
- Number of course or co-course directors: 3
- Number of program or associate program directors: 3

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- 10 Year approval by Residency Review Committee with commendation/no citations
- 9 “regular” slots
- 3 rural dermatology slots
- 3 internship slots
- Annual Dermatology Symposium for Primary Care Physicians Fall 2014–19
- Annual Dermatology Symposium for Dermatologists Spring 2015–19
- Founding member, Southern Dermatology Consortium Annual Resident Research Day (2015–19)
- Monthly Resident-Driven Clinical Learning Environment Review (CLER) Program – Quality Assessment/Quality Improvement Initiatives
- 15 affiliate faculty from private practice settings teach residents/medical students (C. Ralph Daniel II, MD, Gary Bolton, MD, Jennifer Schulmeier, MD, Billy Walker, MD, Buu Duong, MD, Jim Brock, MD, Angela Wingfield, MD, William Waller, MD, Vinny Nahar, MD, PhD, Patrick Boler, MD, Laura Dixon, PhD, Kenneth Saul, MD, Sabra Sullivan, MD, Anna Asher, MD, and Chemene Quinn, MD)
- 5 Dermatology Nurse Practitioners (Angela Jackson, NP, Leslie Partridge, NP, Helen “Denise” Gipson, NP, Carmen Matzek, NP, Amanda Stewart, NP)
- UMMC Grand Rounds presentations in other departments: 7
- Chairperson American Academy of Dermatology Annual Meeting (2019 and 7 lectures performed by faculty)
- Quarterly dermatology faculty development lectures
- Engagement of chief residents as educational leaders in teaching program
- Dermatology Education and Research of Mississippi (DERM) Funds in the UMMC Foundation
- Louis J. “Skip” Wise visiting professor fund

EDUCATION RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program (Dermatology Residency) – 15 (includes primary care internship)
Fellowship – Dermatopathyology – 1
Mohs Micrographic Surgery and Dermatologic Oncology – 1
Department of Dermatology

- James Grant Thompson MD Textbook Fund
- C. Ralph and Melissa Daniel, MD resident travel fund
- C. Ralph Daniel, II Resident Research Day Prizes
- Resident teaching
  - Bimonthly dermatology journal club
  - Weekly Kodachrome conference
  - Weekly dermatopathology lectures
  - Weekly Bologna textbook reading club
  - Weekly Therapeutic Conference
  - Every-other-month dermatologic ethics lecture
  - Monthly Grand Rounds with CME
- Dermatopathology Elective
  - 2 UMMC medical students (’18) matriculating to dermatology residencies
  - 5 UMMC medical students applying for dermatology residency in 2020
  - 11 national dermatology leaders brought to UMMC for Grand Rounds each year
  - Dermatology ethics curriculum that has served as a national model

 Developments:
- New Teledermatology program at the GV “Sonny” Montgomery VA Medical Center
- Recruitment of Allison Cruse, MD, a second UMMC dermatopathologist
- Recruitment of Chelsea Mockbee, MD, a second contact dermatitis/patch testing expert
- Matched first resident to rural dermatology track
- A record number of UMMC medical students (20) and non-UMMC students (10) completed 3rd and 4th year dermatology electives in 2018–19 academic year.

 Challenges:
- Improve the culture of the Department of Dermatology
- Provide a clinical dermatology experience for every medical student who wants one as class size increases
- Attract a fellowship-trained certified Pediatric Dermatologist
- Raise funds for the Dermatology Education and Research of Mississippi (DERM) fund of the University of Mississippi Foundation
- Establish a functioning ECHO program to improve primary care physicians dermatology skills throughout Mississippi

 CLINICAL

 CLINICAL PERFORMANCE

 Patient Safety:
- The Knock hand hygiene program
- 92% of patients referred for Mohs Surgery present with a clinical image to identify the exact location of biopsy
- Collaboration with Psychiatry Department to identify and refer patients at risk for suicide

 Quality:
- Improve access to dermatology services through Rapid Access Clinic
- Increase volume of dermatology care to rural Mississippi through store and forward teledermatology program
- Reduction of false medication alerts in EPIC by 50%
- Implement dermpath specimen labeling process to reduce labeling errors
  - Piloting in Suite K (Pavilion)

 CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

 Accomplishments:
- Annual free skin cancer screening held at Pavilion Suite K since 2013
- Collaboration: Provision of space in Pavilion Suite K for Pathology Fine Needle Aspiration (FNA) clinic
- Collaboration: Provision of space in Face and Skin Center for Oculoplastic Surgery specialist
- Successful implementation of a hospitalist dermatology program at UMMC

 Developments:
- Open new dermatology clinic at Jackson Medical Mall summer 2019
- Collaboration with Pediatrics: Opening dermatology in Manning Clinic
- Two new faculty joining Dermatology Department in August 2019 (Chelsea Mockbee, MD and Allison Cruse, MD)
- Clinical metrics
  - More than 40,000 patients annually
  - More than 4,800 dermatopathology cases annually
  - More than 1,500 Mohs cases annually

 Challenges:
- Initiation of an effective program to minimize mislabeled pathology specimens
- Continue working in collaboration with the American Cancer Society to pass legislation to limit tanning of minors
- Develop new flagship space to replace aging Pavilion clinic

 RESEARCH

 FACULTY SCHOLARLY PRODUCTIVITY
- Faculty with primary appointments: 12
- Articles in peer-reviewed journals: 65
- Books published: 1
- Books chapters published: 14
- Members of national study sections or national or international committees: 5
• Chair, International Multicenter Trial Safety Committee: 1 (Sanofi-Regeneron-REGEN3500/Atopic Eczema)
• Journal editors: 1
• Members of editorial boards: 3
• PIs on extramural grants or editorial boards: 0
• Number of Patents: 0
• First University Epic system in the country tied into the American Academy of Dermatology DataDerm Clinical Registry

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
• Total Federal Funding (Direct + Indirect):
  • NIH – $0
  • DOD – $0
  • Other – $0
• Total Non-Federal Funding (Direct + Indirect): (Please include breakdowns of AHA, NSF, etc. to equal total non-federal funding above.)
  • AHA – $0
  • NSF – $0
  • Other: Galderma Skinpact Award to support Study of Barriers to Teledermatology in rural Mississippi $10,000

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
(please include breakdown of IRSP, FSE, etc. to equal total intramural funding above.)
• IRSP – $0
• FSE – $0
• Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Research Name – N/A
• Funding Amount – N/A
• Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• 100% faculty involved in research effort
• Wide-ranging publications in all areas of dermatology
• Hired Vinayak K. Nahar, MD, PhD, first full-time clinical researcher in the Department of Dermatology

Developments:
• First textbook published in Department of Dermatology: Tips and Tricks in Procedural Dermatology (JayPee publishers) July 2019

Challenges:
• Recruitment of a clinical trials lead physician has not yet been possible
• Basic science research program not yet established.

ADMINISTRATION

FACULTY IN EACH DIVISION
• William H. Black, MD
• Robert T. Brodell, MD
• Ashley N. Emerson, MD
• Stephen E. Helms, MD
• Jasmine C. Hollinger, MD
• Jeremy D. Jackson, MD
• Nancye K. McCowan, MD
• Rodolfo Trujillo, MD
• Kimberly H.M. Ward, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
• Kim Ward, MD, Professor (committee chair)
• Robert T. Brodell, MD Professor and Dermatology Chairperson
• Stephen E. Helms, MD, Professor
• Nancye McCowan, MD, Professor

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
• William “Taylor” Sisson, DHA, MBA, CMPE, Department Business Administrator
• Peg V. Farnham, Supervisor – Business Operations
• Margaret A. Kovar, Education Administrator
• Jennifer B. Bryant, Director – Operations
• Mary Ann Craft, Supervisor – Clinic Operations

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
• The American Cancer Society, Relay For Life ($8,000 raised) – Spring 2019
• The American Academy of Dermatology, Free Skin Cancer Screening Pavilion Suite K– May 2017
• Dermatology Clinic, Rolling Fork High School in collaboration with UMMC Nurse Practitioners

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: DERM fund for 14-headed microscope
Amount: $20,010

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• 6th year of Semi-annual publication of Dermatology Connection delivered to friends of the Department around the state
• 4th class of dermatology residents graduated June 2019
• 1st Mohs surgery fellow graduated June 2019
Department of Dermatology

- 1st Dermatopathology fellow graduated June 2019

**Development:**
- The Skin Cancer Center opening beneath Face and Skin Center in Ridgeland to expansion Mohs surgery footprint
- New office in Jackson Medical Mall summer 2019
- Website improvements to make it more comprehensive and easier to use

**Challenges**
- Continuing to manage clinical, educational, and research enterprise in an environment of shrinking health care dollars
- Rapid growth makes it difficult to provide space, support staff, and administrative staff needed to support the department
LEADERSHIP ROLES

- Dr. Alan E. Jones, MD, Department Chair
- Brian Tollefson, MD, Vice-Chair of Education, Director Sports Medicine Fellowship
- Sarah Sterling, MD, Residency Program Director, Associate Research Director
- John Petey Sandifer, MD, Associate Residency Program Director
- Neal Glover, MD, Associate Residency Program Director
- Jenner Tiscareno, MD, Associate Residency Program Director
- Jonah Gunalda, MD, Clerkship Director
- Allison Barrett, MD, Assistant Clerkship Director
- Nick Hoda, MD, Assistant Clerkship Director
- L. Kendall McKenzie, MD, Executive Vice-Chair of Administration, EMS Fellowship Director
- Erin Dehon, PhD, Co-Director of Faculty Development, Director of Behavioral Science Education
- Risa Moriarity, MD, Vice-Chair of Faculty Affairs, Co-Director of Faculty Development
- James Galbraith, MD, Vice-Chair of Research
- James Kolb, MD, Vice-Chair of Clinical Affairs, Medical Director of Adult Emergency Department

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
Program – 44
Residency – 42
Fellowship – 2

Accreditation status
Program: Continued accreditation
Residency: Continued accreditation
Fellowship: Continued accreditation

Board pass rate
Program: 94.05%
Residency: (5-year passage rates)
Qualifying Examination – 88.1%
Oral Examination – 100%
Fellowship: Sports Medicine – 100%
(5-year range)

Number of graduate students: 0

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 0
Number of elective courses/clerkships taught in the SOM: 7
Elective courses/clerkships:
- EM680 Emergency Medicine
- EM851 Emergency Medicine Extramural
- EM852 Emergency Medicine Extramural
- EM682 Toxicology
- EM683 Research
- EM 630 Emergency Medicine Life Skills
- CONJ 654 Sports Medicine

Number of course or co-course directors: 2
Number of program or associate program directors: 1PD, 3 APDs

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Successful launch of PGY1-3 residency program
- Successful execution of ACGME’s 2-year site visit for newly accredited EMS fellowship
- Effective program directorship transition plan enacted
- Current EM resident complement of 15 as highest since program’s inception
- Highest in-service training examination score in program history (>99th percentile)

Developments:
- Change of ITE-preparation client (from ACEP’s PEER IX to Rosh Review)
- ACGME 10-year site visits (EM, PCSM fellowship) early in next academic year
- New Vice Chair of Education: Brian Tollefson, MD
- New residency PD: Sarah Sterling, MD
- New residency APD: Jenner Tiscareno, MD
- Student rotation scheduling: from calendar month to 4-week blocks

Challenges:
- Certainty in recruitment: minimal # of UMMC students interested in EM next academic year
- Acclimating to new student 4-week blocks
- Continued successful program management: new Vice Chair of Ed., new PD, new APD

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
- Improved medication reconciliation with medication technician checking medications on admitted patients
- New Physician at triage process to assure medical screening for all patients

Quality:
- Implemented BPA for releasing borders patient orders at 4 hours
- Continue to use ultrasound by physicians for all central line insertions
- Implemented nurse use of ultrasound for peripheral IV insertion
Development of protocol for fixed dose K-centra
New central line dressings implemented
New disposable bronchoscopes for use in ED obtained
Obtained 95–100% compliance with procedural sedation documentation
Patient experience academy training for all physicians

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Re-designed flow process and NP at triage over the last year to start evaluations and do medical screening examinations
• Improvement in left without being seen rates
• Implemented sitter program for psychiatric patients
• Developed new processes for flow of transfer of psychiatric patients and co-management with Psychiatry
• Implemented central telemetry monitoring for patients in chest pain and observation area
• Developed new algorithm for transferring patients to another hospital
• Contribution of 2.0 FTE of attending physician effort to staff Children’s ED

Developments:
• Work in progress and continues to add diagnoses managed in the ED observation unit
• Slated to begin construction on ED holding area of admitted patients

Challenges:
• Aging equipment and replacement process
• Hospital capacity continues to be a challenge in managing our daily volumes

RESEARCH FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 38
• Articles in peer-reviewed journals: 44
• Books published: 1
• Books chapters published: 7
• Members of national study sections or national or international committees: 29
• Journal editors: 4
• Members of editorial boards: 3
• PIs on extramural grants or editorial boards: 7
• Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT): $3,908,866
• Total Federal Funding (Direct + Indirect): $3,863,383
(Please include breakdown of NIH, DOD, etc. to equal total extramural funding amount above)
  NIH – $573,729
  CDC – $831,733
  HRSA – $366,041
  DHS – $2,024,998
  Other – $66,882
• Total Non-Federal Funding (Direct + Indirect): $45,483
  Other: Industry Sponsored: $45,483

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Research Name – N/A
• Funding Amount – N/A
• Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• More than 80 study enrollments
• 44 peer reviewed publications
• Dr. Denise Cornelius was awarded the UMMC Bronze Research Excellence Award for research funding
• Dr. Sarah Sterling received continued funding on the Mississippi Center for Clinical Translational Research (MCCTR). Funding was made possible through an IDEA award. Dr. Alan Jones continued serving as mentor to Dr. Sterling as well as Dr. Matthew Kuchter from the Department of Surgery for another MCCTR award
• Dr. Alan Jones continued his leadership position in the MCCTR program (Research Services Core Leader). The MCCTR Research Services Core provided study coordination services to four clinical studies in Emergency Medicine, Trauma Surgery, Cardiothoracic Surgery, and Cardiology, as well as IRB regulatory support to five investigators
• Dr. Alan Jones continued his leadership position in Masters of Science in Clinical Investigation (MSCI) program (Clinical Trials track leader)
• Two medical students in the Medical Student Summer Research Program who were mentored by Dr. Denise Cornelius, Dr. Erin Dehon, and Dr. Sarah Sterling, were accepted into the full option MSRP program
• Study results from the completion of one NIH funded multi-center clinical trial in sepsis were published in the Journal of the American Medical Association
• Dr. Erin Dehon and Dr. Sarah Sterling had an article on racial bias cited in a piece in the New York Times
Developments:
- Dr. Jim Galbraith hired as Vice-Chair of Research for Emergency Medicine
- Dr. Sarah Sterling named Principal Investigator for UMMC’s Medical Student Research Program
- Became an enrolling site of an AHRQ funded heart failure study that examines the longitudinal outcomes of intensive short stay unit (observation unit) heart failure management compared to traditional inpatient management
- Became an enrolling site of the industry-sponsored Math-VTE study that evaluates patients who have blood clots and are treated with the blood thinner Apixaban in the ED
- Became an enrolling site of the NIH funded CLOVERS study, a randomized clinical trial examining either fluid liberal or fluid restrictive interventions for patients with sepsis-induced hypotension
- Members of the Emergency Medicine research team are serving on the newly established UMMC IRB Advisory Board
- The research team is now developing public health service interventions—specifically for HIV, Hepatitis C, and sexually transmitted infections. It is anticipated that these integrated services will be ready for implementation in the coming year.

Challenges:
- Hospital occupancy appears to have had a negative impact on the number of eligible patients presenting and thus study enrollment
- Coordinator turnover requiring training

Administration

Faculty in Each Division
- Andrew Anderson, MD
- Allison Barrett, MD
- Frederick Carlton, Jr., MD
- Elizabeth Clair, MD
- Denise Cornelius, PhD
- Robert Cox, MD, PhD
- Damon Darsey, MD
- Erin Dehon, PhD
- Stephanie DePaepe, MD
- Richard Finley, MD
- James Galbraith, MD
- Robert Galli, MD
- Neal Glover, MD
- Jonah Gunalda, MD
- Nicholas E. Hoda, MD
- Loretta Jackson-Williams, MD, PhD
- Sebastian Jacobi, MD
- Alan E. Jones, MD
- James Kolb, MD
- Brett Marlin, MD
- John McCarter, MD
- L. Kendall McKenzie, MD
- Risa Moriarity, MD
- Brandon Myers, MD
- Utsav Nandi, MD
- Jeffrey Orrledge, MD
- Amit Pandit, MD
- John Petty Sandifer, MD
- Richard Summers, MD
- Emily Tavler, MD
- James Thompson, MD
- Jennifer Tiscareno, MD
- Brian Tollefson, MD
- John Wofford, MD
- LouAnn Woodward, MD

Members of the Promotions and Tenure Committee Most Applicable to Your Faculty
- Erin Dehon, PhD
- Loretta Jackson-Williams, MD
- Alan E. Jones, MD
- Risa Moriarity, MD, Chair
- Sarah Sterling, MD
- Brian Tollefson, MD
- L. Kendall McKenzie, MD

Department’s Administrative Team, with Titles
- Alan Jones, Professor and Chair
- Anne McDonald, Department Business Administrator
- James Galbraith, Vice-chair of Research
- James Kolb, Vice-chair of Clinical Affairs
- Brian Tollefson, Vice-chair of Education
- L. Kendall McKenzie, Executive Vice-chair of Administration
- Risa Moriarity, Vice-chair of Faculty Affairs
- Patrick O’Brien, Education Administrator
- Mary Ann Henriques, QA, Nurse, Patient Services
- Ashton Sumrall, QA, Nurse, Patient Services
- Jane Dussouy, Associate Director Administration and Finance
- Vanessa McCarty, Program Administrator
- Deepti Patki, Clinical Research Coordinator
- Jasmin Kolb, RN, Clinical Researcher
- Rebecca Peacock, RN, Clinical Researcher
- Maggie McCalmon, Clinical Researcher
- Emily Hall, Supervisor of Business Operations, Assistant to Chair
- Sarah Tillman, Education Coordinator
- Demisha Purnell, Administrative Assistant
Department of Emergency Medicine

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
Group volunteers at Stewpot

NON-GRANT DEVELOPMENT (FUNDRAISING)
ACCOMPLISHMENTS
Major Fundraising Development: TelEmergency Grant from the Manning Fund
Amount: $20,000

ADMINISTRATION
ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
• Faculty meetings held monthly as an open forum discussion on departmental and institutional goals
• Annual Faculty Retreat to discuss important items pertinent to faculty
• Public safety division of MCES continues to grow and offer clinical care and education to public safety individuals across the state
• Monthly newsletters published
• Monthly departmental executive leadership meeting
• Renewed grant for ‘First Hands’ from the Department of Homeland Security in support of the public safety division
• Hosted regular faculty development seminars for faculty skills development and retention
• Award and recognition program for highlighting faculty and their achievements implemented
• Continued work for Women in Emergency Medicine Group and Diversity and Inclusion Council

Development:
• Dr. Alan Jones named Chief Operations Physician of the UMMC Adult Hospital
• Successfully recruited and on-boarded three new faculty.
• Successfully recruited two new faculty to begin during the 2019–2020 year.

Challenges:
• Continue to work with other departments and hospital administration to be partners in solving difficult issues that affect many stakeholders
LEADERSHIP ROLES
- Department Chair, Shannon Pittman, MD
- Residency Program Director, Janet Ricks, DO
- Residency Program Associate Director, Ann Kemp, MD
- Osteopathic Residency Program Director, Janet Ricks, DO
- Student Programs Director, Sheree Melton, MD
- Primary Care Health Psychology Fellowship Director, Molly Clark, PhD

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program – MD/DO Residency – 36 Fellowship – none

Accreditation status
Program: Family Medicine Residency Residency: Full

Board pass rate
Program: Family Medicine Residency Residency: 100% (first time takers) Fellowship: N/A

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 1

Required courses/clerkships:
- FM631 Family Medicine Clerkship

Number of elective courses/clerkships taught in the SOM: 8
Elective courses/clerkships:
- CONJ 659 M2/M4 Teaching Track
- FM632 Elective in Medical Ethics

FM651 Family Medicine Preceptorship
FM652 Family Medicine Clerkship
FM656 Family Medicine Inpatient Service
FM851 Family Medicine Extramural
FM852 Family Medicine Extramural
FM662 Advanced Medical Practice

Number of course or co-course directors: 2
Number of program or associate program directors: 2

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- 100% board passage rate for residents for the past six years.
- Residency Programs maintain full accreditation with ACGME and AOA
- Positive Evers Society report ratings and comments
- Strong, positive Faculty Forward data.
- Strong training in psychological sciences.
- Promotion of evidence-based medicine with a focus on guidelines.
- Dr. Shannon Pittman – Serves on AFMRD Education Subcommittee; Council Member for the National Institute for Program Director Development Fellowship.
- Dr. Pittman was selected by Dr. Woodward to chair the University Primary Care Task Force; the main objective being to develop a plan for primary care outlining an institutional vision/mission, creating community collaborations that will promote a healthier Mississippi.
- Dr. Janet Ricks – Former President of MS Osteopathic Association and Chair to MOMA Seminar Program Planning Committee; Delegate to AOA.
- Dr. Ann Kemp – Co-Chair of the CME Planning Committee and the Family Medicine Clinical Competency Committee. Chair of the Opiate Task Force, and member of the UMMC Prescribing Series Planning Committee; Fellow on the American Board of Family Medicine.
- Dr. Molly Clark – Co-Chair, Behavioral Science Group, Society of Teachers of Family Medicine; Vice President of National Institute for Program Director Development Fellowship; Currently serving a 5-year term as Chair of the School of Medicine Appointment Promotions and Tenure (APT) Committee.
- Dr. Joyce Olutade was awarded the GIVE Award for outstanding Achievement in Healthcare Access by the State of Mississippi Governor’s Office.
- Dr. David Norris, MD was nominated for the Pillars Inclusion Award by the UMMC Office of Diversity and Inclusion and a Faculty Honoree for the Arnold P. Gold Humanism in Medicine Honor Society.
- Dr. Ann Kemp and Dr. Molly Clark serve on the School of Medicine Admissions File Review Committee.
- Dr. Sonya Shipley serves as a Steering Committee Member of the Family Medicine Promotion and Tenure Committee. Following her Geriatric Medicine Fellowship, Dr. Shipley became a member of the Geriatric Medicine Program Education Committee.
- Dr. Anthony Cloy was awarded the Golden Stethoscope Award by the 2019 graduating residents.
- Michael Yeung-Lai-Wah was awarded the Arnold P. Gold Foundation Humanism and Excellence in Teaching Award. This award honors residents who have demonstrated an enthusiastic commitment to teaching and who
serve as a role model in the compassionate treatment of patients and families.

**Developments:**
- Partnering with Dermatology for the implementation of an ECHO program
- Family Medicine Sub-Internship course offering

**Challenges:**
- Recruitment and retention of community preceptors for both resident and student education

**CLINICAL**

**Patient Safety:**
- Monthly Patient Safety Conference lead by resident and faculty safety team
- Increase in ICARE reporting with timely review of reports

**Quality:**
- Development of quality dashboards in Epic that are department and provider specific
- Quality 5th Mondays
- Tobacco Cessation QI project collaborative with Preventative Medicine

**RESEARCH**

**FACULTY SCHOLARLY PRODUCTIVITY**
Faculty with primary appointments: 26
- Articles in peer-reviewed journals: 14
- Books published: 1
- Books chapters published: 9
- Members of national study sections or national or international committees: 9
- Journal editors: 6
- Members of editorial boards: 7
- PIs on extramural grants or editorial boards: 0
- Number of Patents: 0

**TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):**
- Total Federal Funding (Direct + Indirect): $106,489
  - HRSA – $106,489 Carolina HealthCare System Federal Clinical Trial: Sickle Cell Treatment Demonstration Project
  - NIH – $0
  - DOD – $0
  - Other – $0
- Total Non-Federal Funding (Direct + Indirect): $35,000
  - AHA – $0

**RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
- CDC Opioid Grant Recipient

**Developments:**
- Recruitment of primary research faculty

**Challenges:**
- Adequate time to develop research initiative and strategy

**ADMINISTRATION**

**FACULTY IN EACH DIVISION**
- Kelley M. Bishop, MD
- Molly S. Clark, PhD
- James A. Cloy, MD
- Ann M. Kemp, MD
- David R. Norris, MD
- Deborah S. O’Bryan, MD
- Holly H. Peeples, MD
- Shannon D. Pittman, MD
- Janet L. Ricks, DO
- Sonya R. Shipley, MD
- Thais B. Tionore, MD
- Irma H. Welch, MD
- Kimberly A. Bibb, MD
MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Molly S. Clark, PhD, Chair
- Shannon Pittman Moore, MD
- Thais Tonore, MD
- Ann Kemp, MD
- Sonya Shipley, MD
- Patrick Smith, PhD, Ad Hoc Member

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Shannon Pittman, Professor and Alma Lowry Hill, Chair
- Billy Permenter, Department Business Administrator
- Paula Denise Mitchell, Ambulatory Operations Director

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
Name of event: Jackson Free Clinic/7
Christmas Foster Family Event/50

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: not applicable
Amount: not applicable

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Please use paragraph text or bullets only

Accomplishments:
- Successful promotion of all faculty submitted for consideration
- Strategic and Effective budgeting for departmental performance and growth
- Recruitment of resident to faculty (internal pipeline)
- Partnership with MS Medical Education Consortium for program director development
- Continued optimization of Qgenda software

Development:
- RPI training for leadership team
- Departmental daily leadership rounds

Challenges:
- Navigating and learning new processes and policies that are every evolving
- Having access to an efficient and timely hiring process
- Adequate administrative support for all missions of the department
LEADERSHIP ROLES
- Javed Butler, MBBS, Department Chair
- Richard Wardrop, MD, Vice Chair Education and Faculty Development
- Michelle Horn, MD, Director of Medical Education 3rd and 4th Year Clerkship Director
- Calvin Thigpen, MD, Residency Program Director, Internal Medicine
- Zeb Henson, MD, Residency Program Director, Medicine-Pediatrics, Director of Introduction to Medical Profession II
- Kimberly Harkins, MD, Associate Program Director Internal Medicine
- Charletta Scott-Bennett, MD, Associate Program Director Internal Medicine, VA Education
- Calvin Thigpen, MD, Associate Program Director Internal Medicine
- Amanda Clark, MD, Associate Program Director Internal Medicine, Director of Communications
- Rahat Noor, MD, Associate Program Director Internal Medicine
- Lyssa Weatherly, MD, Associate Program Director Internal Medicine
- Jimmy Stewart, MD, Associate Program Director Internal Medicine and Medicine-Pediatrics,
- Fred Asher, MD, Associate Clerkship Director

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS

- MED 641 Cardiology
- MED 651 General Medicine Clerkship
- MED 652 Ambulatory Medicine
- MED 653 Special Medicine
- MED 654 Cardiology
- MED 655 Gastroenterology
- MED 657 Infectious Disease
- MED 659 Pulmonary Disease/Critical Care
- MED 660 Nephrology
- MED 661 Geriatrics/Gerontology
- MED 663 Ambulatory Medicine in the Amazon Jungles of Peru
- MED 666 Endocrinology
- MED 667 Medical Consult Service
- MED 668 Rheumatology
- MED 670 Medical Oncology
- MED 673 Rural Internal Medicine Practice
- MED 674 Hospital Medicine
- MED 675 Interventional Cardiology

Number of course or co-course directors: 27
Number of program or associate program directors: 9 Resident, 18 Fellowship

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
The internal medicine training programs, both residency and fellowships, completed an ACGME self-study for our upcoming 10-year site visit. This process included revising our core residency program’s vision, mission, and values; developing program aims, identifying strengths, weaknesses, opportunities, and threats; and mapping out steps to grow our educational impact for each of our training programs.

In addition, the residency program initiated a new procedure policy that reduced the incidence of critical care tower central line associated bloodstream infections to zero, changed its clinic schedule structure.
for the intern class to enhance outpatient education, modified its journal club into a debate format, identified nine new core faculty, and began revising the curriculum for each of its educational experiences.

Developments:
The coming year brings our first experience with a clinician educator track for six of our upper level residents, the initiation of a point of care ultrasound curriculum for all of our residents, a procedure team in the hospital on the majority of months of the academic year, the continued development of a healthcare disparities curriculum, and growth in our resident quality improvement and scholarship opportunities. In addition, we are forging relationships across the state for rural primary care experiences for our primary care track residents and enhancing our feedback and evaluation to ensure the growth of each resident to his or her fullest potential.

Challenges:
Scholarship and the opportunity to present it are vital in the early stages of a physician’s career, and ongoing funding to support our residents in these endeavors is always a high priority. The development of teaching, evaluation, and leadership skills among the residents and the faculty in a structured way is also vital to the short- and long-term success of the entire department. Achieving this in the context of the time pressures of patient care presents an ongoing challenge to the training programs.

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
- Adult Special Care Clinic (ASCC) in the Division of Infectious Diseases worked on cervical cancer screening and influenza vaccination, more than doubling the number of patients up to date with those disease prevention measures. ASCC also demonstrated superior performance in benchmarks for providing HIV care, with rates of antiretroviral treatment, viral load suppression, and engagement in care higher than regional and national averages.
- Several medicine faculty members led or participated in multidisciplinary efforts to improve patient safety and reduce hospital acquired infections.
  - Hand hygiene compliance has continued to improve across the institution, through education, training, monitoring and feedback.
  - Central line-associated bloodstream infection (CLABSI) team worked to standardize line placement and maintenance techniques. They also worked to improve blood culturing practices throughout the institution.
  - Clostridioides difficile infection (CDI) team reduced infection rates through improved education, training and testing practices.
  - Perioperative antibiotic prophylaxis team standardized perioperative antibiotic regimens in a new universal order set, based on published guidelines and local resistance data, and retired outdated order sets from EPIC.
- UMMC’s Infection Prevention, led by a medicine faculty member, conducted regular line necessity rounds to address maintenance and retention of access issues that could lead to patient safety problems including infection and thrombosis.
- UMMC’s Antimicrobial Stewardship Program (ASP), led and run by medicine faculty members, was designated a Center of Excellence by the Infectious Diseases Society of America, on the strength of their commitment to comprehensive patient care and safety, particularly as it pertained to improving appropriate antibiotic use. ASP’s Inpatients with HIV management program reduced antiretroviral prescription and administration errors from 45% to near zero, while ensuring linkage to timely HIV outpatient follow-up.
- Division of Endocrinology has led efforts to expand access to specialized diabetic care for inpatients, adding faculty and advanced practice providers to address issues with diabetic patients nearing discharge with unaddressed hypoglycemia and severe hyperglycemia.

Quality:
- Adult Special Care Clinic (ASCC) in the Division of Infectious Diseases worked on cervical cancer screening and influenza vaccination, more than doubling the number of patients up to date with those disease prevention measures. ASCC also demonstrated superior performance in benchmarks for providing HIV care, with rates of antiretroviral treatment, viral load suppression, and engagement in care higher than regional and national averages.
- Several medicine faculty members led or participated in multidisciplinary efforts to improve patient safety and reduce hospital acquired infections.
  - Hand hygiene compliance has continued to improve across the institution, through education, training, monitoring and feedback.
  - Central line-associated bloodstream infection (CLABSI) team worked to standardize line placement and maintenance techniques. They also worked to improve blood culturing practices throughout the institution.
  - Clostridioides difficile infection (CDI) team reduced infection rates through improved education, training and testing practices.
  - Perioperative antibiotic prophylaxis team standardized perioperative antibiotic regimens in a new universal order set, based on published guidelines and local resistance data, and retired outdated order sets from EPIC.
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**CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
The Department of Medicine exceeded the previous fiscal years charges and collections. With the hire of Dr. Glover in GI we have improved scheduling for our outpatient GI procedures and have improved many GI clinical metrics. Our hospitalist coverage continues to expand with our patient census continuing to increase. Rheumatology established an outpatient clinic at Grenada.

**Developments:**
Total office visits increased by 4,372 compared to the previous year. Work RVU’s increased by 29,733. Suite G in the Pavilion transitioned to a hospital based clinic.

**Challenges:**
We continue to have space issues in regards to our resident clinics. This should be resolved in the next Fiscal Year. We are also overloaded on our hospitalist services when inpatient census is high. We are adding more hospitalists during the next year to help with this issue.

**RESEARCH**

**FACULTY SCHOLARLY PRODUCTIVITY**

- Faculty with primary appointments: 142
- Articles in peer-reviewed journals: 280
- Books published: 1
- Books chapters published: 14
- Members of national study sections or national or international committees: 80
- Journal editors: 29
- Members of editorial boards: 18
- PIs on extramural grants or editorial boards: 73
- Number of Patents: 0

**TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):**
- Total Federal Funding (Direct + Indirect): $12,485,976.17
  - NIH – $9,567,205.15
  - DOD – $0
  - Other – $2,918,771.02
- Total Non-Federal Funding (Direct + Indirect): $3,219,947.92
  - AHA – $91,952.00
  - NSF – $0
  - Other – $3,127,995.92

**TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):** $0
- IRSP – $0
- FSE – $0
- Other – $0

**RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH**

- Research Name – None
- Funding Amount – N/A
- Funding Source – N/A

**RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
- Recruitment of 2 new division directors (Sarah Glover DO and Tariq Shafi MD) who have NIH funded research programs
- Reorganization of Cancer Institute into the UMMC Cancer Center and Research Institute with recruitment of Nita Maihle PhD (Hem-Onc division) as director
- Appointment of Gailen D. Marshall, MD PhD (VC Research, Allergy-Immunology Division) as Executive Director of the Mississippi Clinical Research and Trials
Developments:
- Renewal of Jackson Heart study with 3 faculty (Michael Hall, Ervin Fox, Gailen Marshall) having applied for ancillary R01 studies based upon JHS
- Integration of the Mississippi Center for Clinical and Translational Research with several DOM research specifically including Michael Hall
- Increasing focus on developing successful intradepartmental collaborative grant applications with UMMC basic science departments including Physiology, Microbiology Immunology, Pharmacology and Cell and Molecular Biology
- Extending existing extramural research collaboration with outside institutions including Mayo Clinic, Wake Forest University, Brown University, U. Florida, UAB, Ole Miss
- Establish new extramural research collaborations with other programs. Target institutions include UT Memphis, Tulane, U. Washington, UCLA
- Develop research opportunities for departmental learners (students, residents, fellows) to introduce them to concepts and methodologies of various research disciplines
- Develop specific plan (including logistics and finance) to recruit new research-oriented faculty who will be discipline focused (inflammation and immunology), program based (cardiovascular physiology) and system based (population science) in collaboration with basic science departments

Challenges:
- Manpower issues for departmental research faculty that limits ability to do unfunded research to generate scholarly work that (a) establishes the scholarly environment; (b) demonstrates expertise that new recruits may find appealing and (c) generate preliminary/feasibility data for extramural grant applications
- Departmental research financial margin so thin as to make any large scale research plans difficult as very few would be worthwhile which do not require considerable resource investment
- Changing the cultural perceptions about research within our department to bring it alongside the same priority level as clinical service and education

ADMINISTRATION

FACULTY IN EACH DIVISION
Clinical Immunology and Allergy
- Stephen Kemp, MD
- Gailen Marshall, MD, PhD
- Patricia Stewart, MD
- Stephen Leblanc, MD

Cardiology
- Myrna Alexander, MD
- Kellan Ashley, MD
- Bryan Barkdale, MD
- Mary Bures, NP
- Javed Butler, MD
- William Campbell, MD
- Trey Clark, MD
- Ervin Fox, MD
- Cameron Guild, MD
- Michael Hall, MD
- Stephen Hindman, MD
- Craig Long, MD
- Mike McMullan, MD
- Charles Moore, MD
- Mary Pearson, NP
- Daryl Pollard, MD
- Tom Skelton, MD
- Takeki Suzuki, MD
- Tanyanan Tanawuttiwat, MD
- Michael Winniford, MD
- John Winscott, MD
- Doug Wolfe, MD

Digestive Diseases
- Thomas Amankonah, MD

Endocrinology
- Vishnu Garla, MD
- Lillian Lien, MD
- Angela Subauste, MD
- Jose Subauste, MD
- Licy Yanes Cardozo, MD

General Medicine/Hypertension
- Angela Boileware, NP
- Amanda Clark, MD
- Savannah Duckworth, MD
- Lynn Harkins, MD
- Kimberly Harkins, MD
- Zeb Henson, MD
- Michelle Horn, MD
- Daniel Jones, MD
- Jasmine Kency, MD
- Kelly Land, NP
- Jessie Lavender, MD
- Keith Mansel, MD
- Mary McLeod, MD
- Debbie Minor, PharmD
- Charletta Scott Bennett, MD
- Jimmy Stewart, MD
- Calvin Thigpen, MD
- M.I. Ullah, MD
- Marion Wofford, MD
- Dan Woodliff, MD

Geriatrics
- Ken Butler, PhD (Geriatric Research)
- Scott Gibson, MD
- Kathy Gregg, MD
- Mark Meeks, MD
- Tom Mosley, PhD (Geriatric Research)
- Sara Sanders, MD
- Kim Tarver, MD

Olivia Henry, PhD
Pegah Hosseini-Carroll, MD
Sarah Glover, MD
Jawairia Memon, MD
Elizabeth Paine, MD
Kumar Pallav, M.B.B.S
John Sheehan, MD
James Sones, MD
Shou Tang, MD
Telciane Vesa, MD
Department of Medicine

- Lyssa Weatherly, MD
- Gwen Windham, MD

**Hematology/Oncology**
- Carolyn Bigelow, MD
- Stephanie Elkins, MD
- Darryl Hamilton, MD
- Clark Henegan, MD
- Vince Herrin, MD
- Tereza Holman, PhD
- Joe Maher, MD
- Nita Maihle, PhD
- Carter Milner, MD
- Bubba Morgan, MD
- Louis Puneky, MD
- John Ruckdeschel, MD
- Grace Shumaker, MD
- Tereza Holman, PhD
- Joe Maher, MD
- Nita Maihle, PhD
- Carter Milner, MD
- Bubba Morgan, MD
- Louis Puneky, MD
- John Ruckdeschel, MD
- Grace Shumaker, MD
- Shou Ching Tang, MD
- Kelly Wilkinson, MD

**Hospital Medicine**
- Shradha Ahuja, MBBS
- Fred Asher, MD
- George Bartley, MD
- Pradeep Bathina, MD
- Hareesh Gundlapalli, MD
- Josh Jeter, MD
- Swetha Kanduri, MD
- Asaf Mahmud, MD
- Bharat Malhotra, MD
- Rachana Marathi, MD
- Seema McKenzie, MD
- Varun Mittal, MD
- Rahat Noor, MD
- Venkataraman Palabindala, MD

**Infectious Diseases**
- Ben Brock, MD
- Maria Bueno Rios, MD
- Laura Beauchamps, MD
- Debbie Konkle-Parker, NP, PhD
- Jose Luarca, MD
- Leandro Mena, MD
- Bhagyashri Navalkele, MD
- Jason Parham, MD
- Juan Shimose, MD

**Jackson Heart Study**
- Adolfo Correa, MD, PhD
- Yuan-I Min, PhD

**Nephrology**
- Jorge Castaneda, MD
- Wisit Cheungposittorn, MD
- Jasmina Craici, MD
- Neville Dossabhoy, MD
- Jessica Everitt, PharMD
- Desiree Garcia Anton, MD
- Juan Medina, MD
- Divya Monga, MD
- Franco Cabeza-Rivera, MD
- Maria Gonzalez Suarez, MD
- Shirley Schlessinger, MD
- Tariq Shafi, MD
- Pradeep Vaitla, MBBS
- Catherine Wells, NP

**Pulmonary**
- George Abraham, MD
- Rajesh Bhagat, MD
- Michael Brewer, MD
- Jessie Harvey, MD
- Pradeep Haynes, MD
- Michal Senitko, MD
- John Spurzem, MD
- Richard Wells, MD
- Andy Wilhelm, DO

**Rheumatology**
- Shweta Kishore, MBBS
- Day Lennep, MD
- Vikas Majithia, MD
- Teresa Crout, MD
- Lisa Maher, MD

**MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY**
- Vikas Majithia, MD, Chair
- Lillian Lien, MD
- Rajesh Bhagat, MD
- Pradeep Haynes, MD
- Trey Clark, MD
- Seema McKenzie, MD
- Richard Wardrop, MD

**DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES**
- Javed Butler, MBBS Department Chair, Faculty
- Deborah Minor, PharMD Vice Chair, Faculty
- Demondes Haynes, MD Executive Vice Chair, Faculty
- Gailen Marshall, MD, PhD, Vice Chair for Research, Faculty
- Richard Wardrop, MD, Vice Chair for Education, Faculty
- Amanda Clark, MD, Communications Director
- Myrna Alexander, MD, Vice Chair for Diversity and Inclusion
- Jason Parham, MD, Associate Vice Chair, Quality
- Russell Boles, MBA, Department Business Administrator, Staff
- Michael Dussouy, MBA, Associate Director Administration and Finance, Staff
- Stacey Hibbard, Supervisor of Business Operations, Staff
- Dimitra Kefalogianni, Executive Assistant, Staff
- Cheryl Moss, MSc., Senior Education Administrator, Internal Medicine Residency Program, Staff
- Monica Watkins, Education Administrator, Fellowship Programs, Staff
- Jennifer Chappell, Education Administrator, Student Programs and Medicine-Pediatrics Residency Program, Staff
- Donna Bridges, Administrative Assistant III Residency Programs, Staff
- Dena Walker, Project Administrator Student Programs, Staff
- Abby Rushing, Program Administrator, Residency Programs, Staff
DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

Mississippi Kidney Foundation
- Board of Trustees
- 2019 Uptown Drawdown Committee
- 2019 Drawdown Patron

Mississippi Toughest Kids Foundation Patron
- American Heart Association
- Metro Board Immediate Past President
- Circle of Red, Go Red Event Volunteer
- You’re the Cure Advocate

Mississippi Department of Health, Hypertension Coalition, Co-Chair
- Rheumatology Research Foundation Development Advisory Council
- Board of Directors, Program Planning Committee, Vice President, Mississippi Arthritis and Rheumatism Society
- American College of Rheumatology Annual Meeting, Committee on Education
- Educational Planning Committee, MD Chair, Clinical Competency Committee Rheumatology Fellowship, UMMC
- Program Evaluation Committee Rheumatology Fellowship UMMC
- Mentorship Committee for Pediatrics Faculty
- Residency Selection Committee
- Chief Resident Selection Committee
- UMMC Graduate Medical Education Committee
- Research council, Department of Medicine, Chair, Population research subcommittee
- Member, Chair Search and Recruitment Committee, UMMC School of Medicine
- Member, Promotions Committee, UMMC School of Medicine

- Member, House-staff Selection Committee, Department of Medicine
- Member, Curriculum Committee, UMMC School of Medicine
- Compensation Committee
- ARHP curriculum and fellowship award taskforce
- American Board of Internal Medicine, Rheumatology Self-evaluation Committee
- Citywide Meeting – Rheumatology
- UMMC, Advanced Practice Providers Annual Meeting Educational Committee, 2014–present
- ARHP Advanced Practice Providers Educational Committee, 2016–present
- ACR CME Development Committee – Lupus Modules for Non-Rheumatologist
- Institutional Assessment Committee
- Cystic Fibrosis – Great Strides
- Cystic Fibrosis – Bowling for Breath
- Board Member of Grace House
- Board Member of MS Medicaid P&T Committee

NON-GRA NT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS

Major Fundraising Development: N/A
Amount: N/A

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
The Department of Medicine had a successful financial year achieving revenue goals while keeping costs well below budget. We were also successful in filling several leadership roles as outlined under development below. The caliber of medical grand rounds was improved by increasing the number of visiting professors from other institutions. New sub-specialty rotations were added on the Cardiology, Geriatrics, Hematology, and Oncology floors to accommodate an increase in class size of the students and to allow greater patient access to the students. A new compensation plan for physicians was approved.

Development:
- Sarah Glover, MD hired as Digestive Disease Division Director
- Tariq Shafi, MD hired as Nephrology Division Director
- Amanda Clark, MD named Communication Director
- Myrna Alexander, MD named Vice Chair for Diversity and Inclusion
- Richard Wardrop, MD hired as Vice Chair Education and Faculty Development
- Residency Program transitioned from Vince Herrin, MD to Calvin Thigpen, MD
- MED-PEDS program transitioned from Jimmy Stewart, MD to Zeb Henson, MD

Challenges:
Continuing financial challenges institution wide. We are steadily working to rebuild our GI division through faculty recruiting.
LEADERSHIP ROLES
- Chair, Larry S. McDaniel, PhD
- Vice-Chair, D. Ashley Robinson, PhD
- Medical Microbiology and Dental Microbiology Course Director, Stephen Stray, PhD
- Preparation for Instruction in Microbiology Course Director, John Meade, PhD
- PhD Graduate Program Director, Eva Bengtén, PhD
- Graduate Immunology Course Director, Melanie Wilson, PhD
- Graduate Virology Course Director, Ritesh Tandon, PhD
- Graduate Bacteriology Course Director, Mary Marquart, PhD

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Postdoctoral research fellow: 1
Number of graduate students: 10

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in SOM: 1
Required courses/clerkships:
- MIRCO 611 Medical Microbiology

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Medical Education
- Ten PhD students were enrolled in the microbiology and immunology graduate program.
- Three medical students, 9 undergraduate college students, and 4 high school students performed research with faculty.
- Two graduate students completed their PhD studies.

Courses taught were:
- 611 Medical Microbiology Course for M2 medical students
- 741 Microbiology for Biomedical Sciences Master's Degree Graduate Students
- 701 Medical Microbiology for PhD Graduate Students
- 702 Molecular and Cellular Virology
- 725 Bacterial Structure and Function
- 703 Seminars in Microbiology
- 704 Research in Microbiology
- 707 Laboratory Rotations
- 750 Research Proposals
- 708 Preparation for Instruction in Microbiology
- 798 Dissertation and Dissertation Research

Other accomplishments are the awards won by our graduate students including:
- A graduate student received the fourth place award for oral presentation at the Mississippi Academy of Sciences annual meeting.
- A medical student received a second place award for oral presentation at the Department of Medicines research day.
- A graduate student received a poster presentation award at the SGSRS Research Day.
- A graduate student received a first place award in the poster competition for Outstanding Medical Research at the SHRP Research Day.
- A graduate student won a National Eye Institute travel grant to attend the Association for Research in Vision and Ophthalmology Annual Meeting.
- A graduate student received a travel award for the McTRC Health Disparities Grantee's Conference.
- Two graduate students completed USDA_NIFA predoctoral fellowships.
- A graduate student received a Sigma Xi Grants-In-Aid research grant.

RESEARCH
FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 16
- Articles in peer-reviewed journals: 17
- Books published: 0
- Books chapters published: 0
- Members of national study sections or national or international committees: 10
- Journal editors: 5
- Members of editorial boards: 8
- Number of Patents: 1

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT): $54,780
- Total Federal Funding (Direct + Indirect):
  - NIH – $54,780
  - DOD – $0
  - Other – $0
• Total Non-Federal Funding (Direct + Indirect): $1,176,865
  AHA – $308,000
  NSF – $796,865
  Other – USDA-NIFA $72,000

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0
  IRSP – $0
  FSE – $0
  Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Funding Source – Alcon Laboratories
  Industry Residuals – $324,000
  Industry Residuals – $414,000

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
Department faculty members continue to be productive in research and teaching. The graduate students are productive and have received awards. We have active collaborations with UMMC Ophthalmology, Ole Miss, UMMC Pediatric Infectious Diseases, and UMMC Biomedical Material Sciences.

There is an ongoing collaboration with Greifswald University and the Spanish National Research Council. This has resulted in the crystallization of two bacterial proteins.

The Department successfully hosted the annual meeting of the American Society for Microbiology South Central Branch in the new School of Medicine Building. The CEO, Dr. Stefano Bertuzzi, for the American Society for Microbiology was a plenary speaker. By all account, the conference was a tremendous success with many of our faculty participating in the effort.

Developments:
We have successfully recruited an Associate Professor from Emory University that will be joining the Department this fall.

We will have three new graduate students entering the PhD program this fall.

We continue efforts to collaborate with others throughout the institution especially in the clinical sciences.

Challenges:
In addition to infrastructure issues, external funding is a challenge. However, the faculty continue to work toward a goal of sustained funding.

ADMINISTRATION

FACULTY IN EACH DIVISION
Microbiology and Immunology
  • Larry S. McDaniel, PhD, Professor, Chair
  • Brian Akerley, PhD, Associate Professor
  • John Bates, PhD, Assistant Professor
  • Eva Bengten, PhD, Professor
  • Armando Caballero, PhD, Assistant Professor
  • Mary Marquart, PhD, Associate Professor
  • J. Christopher Meade, PhD, Associate Professor
  • D. Ashley Robinson, PhD, Professor, Vice-Chair
  • Stephen Stray, PhD, Associate Professor
  • Ritesh Tandon, PhD, Associate Professor
  • Melanie Wilson, PhD, Professor
  • Aihua Tang, PhD, Assistant Professor
  • Sandy Wong, PhD, Assistant Professor

Cancer Institute
  • Dr. HongYan Liu, PhD, Assistant Professor

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
  • D. Ashley Robinson, PhD (Chair)
  • Melanie Wilson, PhD
  • Eva Bengten, PhD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
  • Angeline Green, Grant and Contract Admin.
  • Cikitia Green, Accounting Clerk II

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
  • Faculty volunteered to teach at Tougaloo College
  • Hosted students from Jim Hill and Clinton High for a day in the laboratory
  • Faculty and Student participated in Discovery U and Spooky U

ADMINISTRATION

ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Challenges:
• A challenge remains hiring additional faculty who will be able to obtain extramural funding and teach.
• The condition of our infrastructure remains unchanged which makes recruitment of faculty and students a challenge.
LEADERSHIP ROLES

• Allan Sinning, PhD, Interim Chair; Course Director, ANAT 611-Medical Gross Anatomy; Course Director, ANAT 651-Review of Gross Anatomy; Course Director, ANAT 711-Gross Anatomy; Co-Course Director, ANAT 730-Teaching Practicum in Gross Anatomy; Co-Course Director, ANAT 743 & 744-Skills Development in Clinical Anatomy I&II.
• Paul May, PhD, Associate chair for research
• Andrew Notebaert, PhD, Director of Graduate Studies; Course Director ANAT 742-Introduction to Problems in Clinical Anatomy; Co-Course Director ANAT 743 & 744-Skill Development in Clinical Anatomy
• Ranjan Batra, PhD, ANAT 717-Clinical Anatomy Research Rotations, Course Director; ID 768 Essential of Anatomy Course Director
• Marianne Conway, MD, Course Director, ANA T 616, 716-Medical Developmental Biology and Developmental Anatomy
• Dongmei Cui, PhD, Course Director, ANAT 600-D1 Gross Anatomy (Clinical Head and Neck Anatomy)
• Yufeng Lu, MD, PhD, Course Director, DENT 600A (Lec) & 600B (Lab)-Gross Anatomy; Course Director, Gross Anatomy Summer Prematriculation Program
• Niping Wang, PhD, Course Director, ANAT 600-D1 Gross Anatomy (Clinical Head and Neck Anatomy)
• Susan Warren, PhD, Course Director, DENT 601A (Lec) & 601B (Lab)-Microscopic Anatomy; Course Director, DENT 612-Neuroanatomy
• Kathleen Yee, PhD, Course Director, ANAT 613 & 713 Medical Histology and Cell Biology
• Bela Kanyicska, PhD, Course Director, ID 767-Fundamental Histology and Cell Biology
• Douglas Vetter, PhD, Course Director, NSCI 701-Foundations in Neuroscience

EDUCATION

Number of graduate students: 17

EDUCATIONAL EFFORT

Number of required courses/clinircships taught in the SOM: 4
Required courses/clinircships:
• ANAT 611 Medical Gross Anatomy,
• ANAT 613 Medical Histology,
• ANAT 616 Medical Developmental Anatomy,
• CONJ 611 Medical Neuroscience

Number of elective courses/clinircships taught in the SOM: 5
Elective courses/clinircships:
• ANAT 651 Review of Anatomy,
• ANAT 652 Review of Human Neurobiology,
• ANAT 653 Review of Histology with clinical correlation
• ANAT 654 Research,
• ANAT 657 Advanced projects.

Number of course or co-course directors: 14
Number of program or associate program directors: 2

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• The Division of Clinical Anatomy continues to support the development of educational scholarship with collaborative projects resulting in publications on innovative teaching approaches, in scholarly journals and presentations at national and international meetings.
• As part of educational initiatives of the Neuro Institute, the Department played a key role in the continued development of a new, integrated course in Neuroscience and Behavior for first year medical students, as well as a new second year Neuroscience and Behavior course.
• Dr. Andrew Notebaert was named M1 Professor of the year and Dr. Yufeng Lu was named an M1 Allstar by the Carl G. Evers Society; Dr. Bela Kanyicska was inducted into the Evers Society Hall of fame.
• Dr. Susan Warren was named D1 Allstar professor and Basic Science teacher of the year by the D2 students from the Hembree Honor Society of the School of Dentistry.
• Dr. Eddie Perkins was inducted into the Nelson order of teachers and was named Basic Science professor of the year by the SOM alumni society and was the SOM nominee for the Teach Prize.

Developments:
• We are working with the Office of Medical Education to explore modernizing the curriculum.
• We are continuing to explore the possibility of bringing some outsourced body donation services in-house with the goal of cost savings and better quality of cadavers.
• We are working with the Office of Development on several projects to help finish the remodeling of the Anatomical Teaching space and to modernize the Anatomical teaching resources.
Challenges:
• A key challenge is to complete planned renovations of anatomy teaching space in order to create additional cadaveric labs for SHRP students, fresh tissue labs for graduate and continuing medical education, and locker rooms for our students.
• A second challenge is to adjust our faculty numbers to take into account the increase in the size of the medical class.

RESEARCH
FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 19
• Articles in peer-reviewed journals: 41
• Books published: 0
• Books chapters published: 3
• Members of national study sections or national or international committees: 2
• Journal editors
• Members of editorial boards: 5
• PIs or coPIs on extramural grants: 14
• Number of Patents:

TOTAL EXTRAMURAL FUNDING
(DIRECT + INDIRECT):
• Total Federal Funding (Direct + Indirect): $1,550,002
  NIH – $774,535.00
  DOD – $775,467.00
  Other – $0

• Total Non-Federal Funding (Direct + Indirect): $120,064.00
  AHA – $0
  NSF – $0
  Other – $120,064.00

TOTAL INTRAMURAL FUNDING
(IRSP, FSE, ETC.):
IRSP – $60,000.00
FSE – $0
Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Research Name – None
• Funding Amount – N/A
• Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
• The Departmental seminar series has hosted a wide variety of leading neuroscientists who have come to UMMC to share their research findings and interact with students and faculty.
• Department faculty have had continued success in competing for extramural research grants from the NIH, VA, the DOD and other federal agencies.
• Graduated our first students in our new Clinical Anatomy research program.

Developments:
• Research faculty in the department have finished moving into the new Translational research building.
• Two new faculty members in one in circadian rhythm and one in sleep research have joined the department.
• Added a new researcher that is working on spinal cord injury to the department.

Challenges:
• With the loss of Dr. Grill and Dr. Lehman the Department needs to recruit several researchers in our areas of strength to maintain momentum and to achieve a critical mass of researchers.
• Increase the number of faculty in Clinical Anatomy to expand our educational research and provide more avenues for research for our expanding Clinical Anatomy program.

ADMINISTRATION

FACULTY IN EACH DIVISION
Clinical Anatomy Division
• Allan Sinning, PhD
• Audra Schaefer, PhD
• Ranjan Batra, PhD
• Bela Kanyicska, PhD
• Marianne Conway, MD
• Niping Wang, PhD, D.MD
• Andrew Notebaert, PhD
• Yuefeng Lu, PhD
• Dongmei Cui, PhD

Neurobiology Division
• Paul May, PhD
• James Lynch, PhD
• Susan Warren, PhD
• Barbara Gisabella, PhD
• Charalampos Pantazopoulos, PhD
• Douglas Vetter, PhD
• Bernadette Grayson, PhD
• Kathleen Yee, PhD
• Keli Xu, PhD
• Bradley Walters, PhD
• Dr. Matthias Krenn, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
• Susan Warren, PhD (Chair)
• Paul May, PhD
• Eddie Perkins, PhD
• Ranjan Batra, Ph.D

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
• Christy Wilson, Department Business Administrator
• Tonic Johnson, Manager of Business Operations
• Katrena Martin, Administrative Assistant III
• Wanda Barone, Education Coordinator, Administrative Assistant II
DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

- Discovery U High School Program
- Discovery U lab rotations
- Discovery U Science Museum
- Millsaps College A&P lab visits gross anatomy
- Belhaven University lab visits to gross anatomy
- Mississippi Academy of Sciences Research Day
- SGSHS Research Day
- Clinical Anatomy Summer Workshop for High School Students
- Brain Tours
- Mississippi Prostate Cancer HBCU Undergraduate Research Training Program
- Madison Ridgeland Academy visit
- African American Visit Day
- School of Medicine Family Day Tour
- SURE Program—Summer Undergraduate Research
- ALS Association’s Walk to Defeat ALS
- Mississippi Prostate Cancer HBCU Undergraduate Research Training Program

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development:
Amount:

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Hired a new administrative assistant as an education coordinator and to support faculty research.

Development:
- The Department, along with its other partner departments in the UMMC Neuro Institute, plans to re-examine its administrative support team in order to maximize efficiency and effectiveness across all departments.

Challenges:
- The department needs to continue to review the administrative support needs and cross-train additional administrative support for purchasing and grants management.
- The department need to work with purchasing on developing a more efficient purchasing process.
LEADERSHIP ROLES
- Scott Stringer MD, MS, Interim Chair
- Mark Anderson, MD, Neuro-oncology Division Chief
- Shreyas Gangadhara, MD, Stroke Division Chief, Program Director Vascular Fellowship
- Mecheri Sundaram, MD, Neurophysiology and Epilepsy Division Chief, Associate Residency Director, Program Director for Neurophysiology Fellowship
- Hartmut Uschmann, MD, Vice Chair, Clerkship Director 4th Year Medical Students, Residency Program Director, Program Director for Neuro Critical Care
- Parminder VIG, PhD, Research Division Chief
- Amanda Witt, MD, Neuromuscular Division Chief, Clerkship Director 3rd Year Medical Students, Program Director for Neuromuscular Fellowship
- Jimmy Wolfe, MD, General Neurology Division Chief, Neurology Outpatient Services Medical Director
- Neuromuscular Fellowship
- Vascular Fellowship

Board pass rate
Program: Neurology
Residency: 94% (5 Year Average)
Fellowship: 100% (5 Year Average)

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 2
Required courses/clerkships: M-3/Clerkship (Required)
    - Neuro 633 Clinical Neuroscience

Number of elective courses/clerkships taught in the SOM: 3
Elective courses/clerkships: M-4 Courses
    - Neuro 651 Clinical Neuroscience
    - Neuro 652 Clinical Neurology Internship
    - Neuro 658 Neuroscience Critical Care

Number of course or co-course directors: 2
Course Directors

Number of program or associate program directors: 5 Program Directors, 1 Associate Program Director

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Dr. Shashank Shekhar receives ABPN Vascular Neurology Board Certification.
- Dr. Jaydevsinh Dolia receives ABPN Neurology Board Certification.
- Dr. Manasa Gunturu receives ABPN Neurology Board Certification.
- Dr. Varun Sreenivasan receives ABPN Neurology Board Certification.
- Dr. Jian Chen receives ABPN Neurology Board Certification.
- Dr. Kareem Elzamly receives ABPN Neurology Board Certification.
- Dr. Ferhad Bashir UCNS Headache Medicine Board Certification.
- Dr. Victoria Cannon receives Neurophysiology Fellowship at the University of Southern California.
- Dr. Jaydevsinh Dolia receives Vascular Interventional fellowship in Pittsburg, PA.
- Dr. Shoba Jayaram receives Epilepsy fellowship at Case Western in Cleveland, Ohio.
- Dr. Xin Qi receives Neuro-Hospitalist Position with St. Dominic Hospital here in Jackson, Miss.
- Ms. Abby Gomez promoted to Project Manager.
- Dr. Manasa Gunturu recruited for UMMC Neurology faculty position.
- Dr. Shashank Shekhar recruited for UMMC Neurology faculty position.
- Dr. Sameer Sharma recruited for UMMC Neurology faculty position.
- Dr. Saurabh Shukla recruited for UMMC Neurology faculty position.
- Drs. Gangadhara and Shekhar appointed for advisory committee for Stroke in Mississippi Healthcare Alliance.

Developments:
- Full accreditation for core program and all fellowships.
- Interviewed several candidates for Vascular Neurology attending positions.
- Dr. Sharma who is Vascular Neurology Board Certified was recruited.
- Interviewed three fellowship candidates for Neurovascular fellowship; however, none accepted.
- Interviewed three fellowship candidates for Neuro Critical Care Fellowship.
- Added one Neuro Critical Care Fellow off cycle.
Challenges:
• Need for more educational administrative support
• Fellow recruitment
• Faculty recruitment
• Fellowship candidates looking for Comprehensive Stroke Certification (UMMC currently does not have but in the process of application)

CLINICAL
CLINICAL PERFORMANCE
Patient Safety:
1. Hand Hygiene project in 4S resulted in more consistent Hand Hygiene compliance that is closer to goal. 4S has always been a problem regarding HH however in the past months, they are close to the 90% goal and actually in May reached the 90% compliance rate.
2. We have succeeded in decreasing our hospital acquired infection with the most recent data indicating only 1 CAUTI.
3. We have finalized an in-patient code stroke pathway to pave the way for a safer and timely code stroke for in-patients.

Quality:
1. For the problem of inconsistent problem list documentation, a QI project was done to determine the utility of a problem list index (PLI) (observed/expected problems *100) to monitor how we document our Problem list. Our initial PLI for deceased patients was 0.50 and increased to 0.56 after 2 months of giving a problem list guide. We completed 2 phases of this project.
2. For the problem of out-patient no-show: We found that the most common reason for no show was transportation and that calling the patient after they don’t show increases re-scheduling and increases patients that shows up by ~20% more. From this QI project we are piloting 2 things. 1) an administrator will be calling patients that did not show up to ask if they want to reschedule 2) the out-patient clinic will send the reminder for the out-patient visit 3 days before compared to 2 days, so that Medicaid patients can arrange for their transportation. This will be evaluated on a quarterly basis.
3. For the problem of NSICU specific patient and family satisfaction: we surveyed families of patients in the NSICU utilizing a validated tool called Family Satisfaction in the ICU survey (FSICU) to determine how the NSICU is doing from the family satisfaction standpoint. And we found that we are comparable with other countries, with high satisfaction however there were certain points such as visitation, waiting room, pain management and inconsistency of attendings that were mentioned that we have to improve on. We will do phase 3 of this survey to incorporate a new NSICU pamphlet for the families.
4. For the problem of inconsistent Multidisciplinary rounds in the stroke unit, we started a 830–9am check-in MDT rounds in the stroke room and this has decreased the length of stay of stroke by about 1 day per the stroke center. This MDT rounds had positive feedback and now is part of the daily stroke routine.
5. For the purpose of misunderstandings between residents and nurses, a QI project that educated both groups with regards to expectations was done and it increased the knowledge of each group with regards to expectations and understanding each groups’ jobs. This educational tool is now part of health stream for new nurses and new residents.

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
General Neurology Division:
• Onboarded 1 APP for inpatient service
• Increased access to care
Epilepsy Division
• We continue to provide routine EEGs (app.3200 EEGs/year), EMU monitoring (app.120 admissions/year) and complex neurosurgical/orthopedic OR procedures (app.150/year)
• Many of the procedures we do are “cutting edge” and we are the only provider in the state
Stroke Division
• Onboarded 1 APP dedicated to stroke
• Successfully recruited two Stroke boarded faculty
• Approved Center for StrokeNet with several active clinical trials
• Drs. Gangadhara and Shekhar appointed for advisory committee for Stroke in Mississippi Healthcare alliance
Neuro Oncology Division
• Expansion of neuro-oncology to include another neuro-oncologist and a neuro-oncology nurse coordinator.
• Approval of NRG-BN003 and GBM-AGILE clinical trials
Neuro Degenerative Disease Division
• The Neurodegenerative Disorder Clinic (NDC), led by Dr. Juebin Huang, offers comprehensive diagnostic evaluation and care for patients suffering Neurodegenerative disorders (such as Alzheimer’s disease, Parkinson’s disease and Huntington disease).
• In 2018, the Huntington’s Disease clinic directed by Dr. Huang was designated by Huntington’s Disease Society of America (HDSA) as a center
of excellence partner clinic to provide multidisciplinary care for patients and family being affected by this devastating hereditary disease.

- As part of a multidisciplinary effort, the NDC has made significant contribution to the UMMC MIND center clinic by providing consultation service to internal and external general practitioners, neurologists and geriatricians.

**Neuro Critical Care Division**

- Onboarded 3 APPs
- Hire of Dr. Sharma, board certified in CC, epilepsy (with focus on EEG in critically ill patients) and stroke
- Implementation of multidisciplinary team rounds for purposes of early mobility and early discharge planning
- Implementation of a monthly multidisciplinary meeting (composed of Patient placement, rehab, palliative care, social worker, nutrition, speech therapists, learners, attendings, nurses and nurse practitioners) to discuss ALL multidisciplinary issues in the NSICU.
- Continued excellent reviews of the NSICU rotation by student learners
- First state wide Neurocritical Care update conference on track for August of this year
- Dr. Uschmann successfully rectified all three board exams (Gen Neuro, NCC, Vasc. Neuro) as of February of this year
- Able to backfill lost NP position with a previous NSICU staff nurse
- Filled both fellowship positions and was reaccredited for this year.
- Formation of a Multidisciplinary Delirium Rescue and Early Activity and Mobilization team (DREAM team) for the purpose of early mobility in the NSICU. This team has finished validating a level of mobility tool for the NSICU.
- One faculty member finished a Masters program
- UMMC became one of the southeast chapter of Society of Critical Care Medicine site for educational programs.
- Dr. Uschmann received the Norman C. Nelson teaching award for teaching medical students

**Developments:**

- General Neurology Division: new space approved by IHL, implemented no show rate with increased template utilization and double bookings, implemented centralized reporting structure for all nursing staff and APPs
- Stroke Division: Recruiting for Vascular Neurology attending positions
- Neuro Oncology Division: new collaboration with neuropathology at Ohio State University
- Neuro Degenerative Diseases:
  - The NDC has played an important role in supporting the startup of UMMC Neurosurgery department’s functional neurosurgery / deep brain stimulation (DBS) program, with the first case implanted in March 2019 here at UMMC, by providing referrals and perioperative evaluation for patients suffering Parkinson disease and essential tremor.
  - With the growing of the movement disorder functional neurosurgery service, the NDC is planning to start a DBS programming clinic to provide postsurgical follow-up and DBS interrogation/programming.
- Neuro Critical Care Division
  - Planning on implementing dual service as soon as staffing is appropriate
  - Going live with step down unit project under NSICU management (both physician and nursing) as of July 1
  - One faculty enrolled in pain medicine fellowship, and will enroll in Millsaps Business course. These are faculty development milestones
  - Consideration given to the establishment of a Neuro-hospitalist program and fellowship as part of the ICU division
  - CME application for NSICU fellowship didactics, journal club, m&M, Multidisciplinary meeting, Staff meeting

**Challenges:**

- Epilepsy Division: Severe faculty shortage continues to hamper stress-free provision of service and teaching efforts.
- General Neurology Division: need more neuro subspecialists in Epilepsy, MS, Headache, Stroke, Movement Disorders in the outpatient arena. This will also require more support staff and space for them to work.
- Stroke Division: limited TCD and Doppler exposure, limited Interventional Neuroradiology exposure and we currently do not have TeleStroke however we are working on starting TeleStroke center at UMMC, but need more faculty to effectively run the TeleStroke Program.
- Neuro Degenerative Diseases: Due to the growing of patient volume and the shortage of staff, providing high quality, timely and accessible care remains a challenge for the NDC clinic.
- Neuro Oncology Division: The creation of a defined brain tumor program within the cancer institute
- Neuro Critical Care Division: physician and NP ICU staffing, further improving the teaching environment through dual service model

**RESEARCH**

**FACULTY SCHOLARLY PRODUCTIVITY**

Faculty with primary appointments: 4
- Articles in peer-reviewed journals: 12
- Books published: 0
- Books chapters published: 0
- Members of national study sections or national or international committees: 7
- Journal editors: 2
- Members of editorial boards: 7
- PIs on extramural grants or editorial boards: 6
- Number of Patents: 2

**TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):**
- **Total Federal Funding (Direct + Indirect):** $4,904,402
  - NIH – $4,904,402
  - DOD – $0
  - Other – $0
- **Total Non-Federal Funding (Direct + Indirect):** $0
  - AHA – $0
  - NSF – $0
  - Other – Methodist Rehab Center (Wilson Foundation). Research Contract Agreement. Total funds: $150,000 (PI: Vig); (No cost extension)

**TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):** $0
- IRSP – $0
- FSE – $0
- Other – $0

**RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH**
- **Research Name – Neurodegenerative disease research**
  - Funding Amount – $36,000
  - Funding Source – CureAtaxia.org (Philanthropy)

**RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
- Research support (1 FTE) per funded faculty member was restored.
- Dr. Warrington receives the UMMC Silver Medal for Excellence in Research.
- Dr. Gangadhara fulfills the graduation requirements for the Masters of Science in Clinical Investigation Program. Dr. Vig serves as his Capstone project mentor and Dr. Shekhar as committee member.
- Dr. Nobleza has been named as the task force leader for the Women in Neurocritical Care Section Mentorship program.
- Dr. Bidwell serves as rotation mentor for four students in the Pharmacology and Neuroscience graduate programs.
- Dr. Bidwell serves as rotation mentor for graduate students in the Program in Neuroscience graduate.
- Dr. Vig participates in teaching PhD candidates in UMMC’s Graduate Program in Neuroscience and Biochemistry.
- Dr. Manning participates in teaching PhD candidates in UMMC’s Graduate Program in Neuroscience.
- Dr. Bidwell Course Coordinator for Special Topics in Neuroscience and he lectures in eight graduate courses in the PIN, Biochemistry, and Pathology graduate programs and serves as course coordinator for a course in the PIN.
- Dr. Vig serves as Section Leader (motor systems) for one of the Program in Neuroscience Courses.
- Dr. Bidwell serves as reviewer on various NIH study sections: Reviewer for Special Emphasis Panel ZRG1 DKUS-L 11 B for Nephrology Small Business, Ad Hoc Reviewer for ZTR1 CI-4 (02) 1 CTSA Collaborative Innovation Awards Review Meeting, Ad Hoc Reviewer for Genes and Drug Delivery (GDD) Study Section.
- Dr. Bidwell serves as reviewer on the Center for Obesity Research COBRE Small Grants Program and Intramural Research Support Program (IRSP), University of Mississippi Medical Center.
- Dr. Vig serves as reviewer on the C Intramural Research Support Program (IRSP), University of Mississippi Medical Center.
- Dr. Warrington Co-chairs, EB 2019 Symposium: “Survived a Complicated

- Dr. Warrington serves on Grant Review Committees for NIH and AHA, and LOI reviewer for the March of Dimes Foundation.

- Dr. Bidwell serves on the Institutional Animal Care and Use Committee, the Institutional Patent Committee, the Cancer Institute Scientific Leadership Council, the PIN Executive Committee, and the PIN Curriculum Committee.

- Dr. Bidwell serves as Secretary/Treasurer of the American Physiological Society Central Nervous System Section Steering Committee.

- Dr. Vig serves as a mentor to Dr. Kengo Inagaki under Pediatric junior faculty program at UMMC.

- Dr. Vig serves as member on the Medical School Admission’s File Review Committee, Institutional Patent Committee, Medical Center’s Institutional Assessment Committee and on the Appointment, Promotion and Tenure Committee of UMMC’s School of Medicine.

**Developments:**

- Drs. Bidwell, Lee and Warrington have submitted R type (RO1 or R21) NIH grants and Dr. Vig serves as consultant on Dr. Lee’s grants. Dr. Lee has also submitted Intramural grant applications where Dr. Vig serves as consultant or Co-Investigator.

- Dr. Vig is nominated as section chair in health sciences division of Mississippi Academy of Sciences.

- Dr. Warrington is serving as handling editor of the Journal of Neuroscience Research. Dr. Warrington has been invited to be a guest editor of the special issue entitled “Advances in Cerebral Blood Flow Regulation and Neurovascular Dysfunction” of the journal Brain Sciences.

- Dr. Vig has been invited to be a guest editor of the special issue entitled “Calcium Buffering and Signaling Proteins and Trophic Molecules in Neurodegenerative Diseases” of the journal Brain Sciences.

- Dr. Bidwell’s pregnancy drug delivery patent application, which was issued in the US on 9/25/18, the European version of this patent is still pending in the EU. Dr. Bidwell and co-inventors have received and responded to the first office action in Europe.

- Dr. Bidwell's patent application for our kidney-targeted drug delivery work was issued in the US on March 7, 2019. Dr. Bidwell and co-inventors have responded to the first office action for the EU version of this patent.


- Drs. Ryu, Lee Vig and Jonakar filled a New Intellectual Property Disclosure entitled “Therapeutic delivery of neurotrophic peptides in traumatic neural injury” at UMMC.

- Drs. Bidwell and Vig filled a New Intellectual Property Disclosure entitled “ at UMMC.

**Challenges:**

- Despite having extensive research project support in the form of extramural grants, funding for infrastructure like purchasing new or replacing old equipment, equipment maintenance, bridge funds etc. is lacking.

**ADMINISTRATION**

**FACULTY IN EACH DIVISION**

**Epilepsy**
- Mecheri Sundaram, MD

**General Neurology**
- Manasa Gunturu, MD
- James Parker, MD
- Clara Thiel, MD
- Eric Undesser, MD, PhD
- Jimmy Wolfe, MD

**Neuro Critical Care**
- Dani Choufani, MD
- Gilbert Mbeo, MD
- Christa Ohana Nobleza, MD
- Hartmut Uschmann, MD

**Neuro Immunology**
- Robert Herndon, MD

**Neuro Muscular**
- Saurabh Shukla, MD
- Amanda Witt, MD

**Neuro Oncology**
- Mark Anderson, MD
- Nawal Shaikh, MD

**Neuro Psychology**
- Edward Manning, PhD

**Neurodegenerative Diseases**
- Juebin Huang, MD, PhD

**Stroke Division**
- Alexander Auchus, MD
Department of Neurology

- Shreyas Gangadhara, MD
- Shashank Shekhar, MD

Research Division
- Fengwei Bai, MD
- Gene Bidwell, PhD
- Hyun Joon Lee, PhD
- Parminder Vig, PhD
- Junie Warrington Tate, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Edward Manning, MD (Chair)

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Nathalya Zarth, MBA, Associate Director, Admin and Finance
- Bruce Hennington, Educational Administrator
- Abby Gomez, Project Manager I
- Emma Davis, Administrative Assistant II
- Betty Griffith, Administrative Assistant II
- Tamara Parker, Administrative Assistant II
- Shalaundrea Rachal, Administrative Assistant II
- Qushena Reece, Administrative Assistant II
- Annie Travis, Administrative Assistant II

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Hired new Department Chair and Multiple Sclerosis specialist to start on 9/1/19
- Recruited and retained faculty members
- Set professional development allowance at the appropriate level to recruit and retain faculty members
- Moved faculty to benchmarked salaries
- Revised provider compensation plan
- Reduced Staff OT to 0 hours
- Created productivity tracker and mail merge to update faculty on their wRVU generation against target monthly
- Created professional development tracker and process for timely filing and reimbursement for faculty
- Created tracker for endowment balance update
- Created New Provider checklist to assist with onboarding and tracking of provider milestones/tasks
- Identified and reorganized all accounts and balances including endowments
- Reviewed and updated labor distributions for all personnel that was out of date
- Created and communicated standard operating policies and procedures
- Reviewed and updated labor distributions for all personnel
- Optimized space use

Development:
Drafted policies for non-exempt employee timekeeping, tuition reimbursement
Space survey and plan underway
Support staff plan under revision
Initiated adherence to schedule to allow for more predictable and reliable nursing and administrative support
Shared Drive Initiated—pending access
Shared Leave Calendar Initiated—pending
Days Out Policy
Recruiting needed specialists

Challenges:
- Inflexible phone system
- Inadequate recruitment pool for staff
- Institutional policies and timelines that affect ability to react to issues in a timely fashion which contribute to disengagement of faculty and staff
- Improving professionalism in the department
LEADERSHIP ROLES

- Chairman, Chad Washington, MS, MD, MPH (effective June 16, 2019)
- Chairman, H. Louis Harkey, III, MD (through June 15, 2019, retired)
- Residency Program Director, Gustavo D. Luzardo, MD
- Residency Associate Program Director, Jason Tullis, MD
- Residency Education Administrator/Program Coordinator, Robin French
- Neurosurgery Course Director, Chad Washington, MD (NS 630 and NS 655)
- Medical Neuroscience and Behavior 1 Course Director, Eddie Perkins, PhD (CONJ 611, ANAT 715, ANAT 733, ANAT 652)
- Departmental Web Designer, Eddie Perkins, PhD

EDUCATION RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
Program - Neurosurgery
Residency - 11 approved slots, 9 enrolled

Accreditation status
Program: Neurosurgery
Residency: Full Accreditation

Accrediting Body:
Accreditation Council for Graduate Medical Education

Board pass rate
Program: Neurosurgery
Residency: 100% for written primary exam and 87.5% (5-yr average) for Oral board (post residency)

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 6
Required courses/clerkships

- NEURO 630 (required for M3s)
- CONJ 611, Medical Neuroscience and Behavior (required for M1s)
- ANAT 715, Neurobiology (required for Clinical Anatomy Graduate Students)
- ANAT 733, Teaching Practicum in Neurobiology (required for Clinical Anatomy Graduate Students)
- Didactic neurobiology review for neurosurgery residents (required by the Neurosurgery department for the Jr residents)
- Didactic neurobiology review for neurology residents (required by the Neurology department for the Jr residents)

Number of elective courses/clerkships taught in the SOM: 2
Elective courses/clerkships:
- NS 655 (elective for M4s)
- ANAT 652, Review of Human Neurobiology (elective clerkship for M4s)

Number of course or co-course directors: 1
Number of program or associate program directors: 1 program director and 1 associate program director

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Continued to receive full accreditation from the Accreditation Council for Graduate Medical Education (ACGME) for the residency program.
- Established a medical neuroscience (integrated) course for M1 students
- Received Accreditation Council for Graduate Medical Education (ACGME) approval to add Baptist Hospital as a participating site.
- Chad Washington, MS, MD, MPH passed the American Board of Neurological Surgery Oral Board Exam.
- Kristin Weaver, MD, PhD, passed the written portion of the American Board of Neurological Surgery’s pediatric board exam.
- Presentations of lectures to the medical students by residents has improved.
- Participation in journal publication by residents has improved.
- Division of Physical Medicine and Rehab
  • Appointment of Dr. Hyung Kim as division chief.

Developments:
- Dropped River Oaks and St. Dominic hospitals as participating sites.
- Approved residency slot capacity will be at full capacity with the addition of two incoming residents in July, 2019.

Challenges:
- Increase publications/scholarly activity
- Availability of GME Funds
- Scheduling time for research experiments and teaching obligations
- Recruiting faculty and residents to participate in the Medical Neuroscience and Behavior course

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
Our pavilion suite has modeled a clinic version of UMMC’s Chasing Zero program to monitor errors in an effort to assist in the elimination of future events.

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Growth of the Pediatric faculty coverage with the addition of Dr. Weaver.
  Kristin Weaver, MD, PhD, joined the department as an assistant professor in August, 2018. Dr. Weaver specializes in pediatric neurosurgery and
received advanced practice training at the Shriner’s Hospital for Children in Philadelphia, PA and the University of Pittsburgh, Pittsburgh, PA. This has allowed for a larger quantity of pediatric patients to readily have access to care.

- Establishment of a satellite clinic on the Mississippi Gulf Coast
- Addition of Deep brain stimulation (DBS) to our available services. In March, 2019, Dr. Juan Uribe began performing this neurosurgical procedure for the treatment of movement disorders, including Parkinson’s disease and essential tremor.
- Addition of a fourth inpatient nurse practitioner for the adult service with the hiring of Faith Dugger, NP.
- Replacement of the vacant nurse practitioner position for the pediatric service with the hiring of Caitlyn Campbell, NP.
- Organization of a Pituitary Interdisciplinary clinic at the Jackson Medical Mall. The logistics of scheduling and patient flow are managed by the services of Dr. Roberto Rey Dios, Neurosurgery and Dr. Vishnu Garla, Endocrinology.

**Developments:**

- Recruitment of an endovascular/cranial surgeon. We are actively searching for an endovascular/cranial surgeon. This addition would lessen the scope of the extensive number of patients supported by the current surgeons and expedite patient care. Moreover, it would allow for Dr. Chad Washington to dedicate additional time in his new role as chairman.
- Establishment of multidisciplinary Spina Bifida clinic
- Division of Physical Medicine and Rehabilitation

- Dr. Stuart Yablon resigned from the division in January, 2019.

**Challenges:**

- Recruitment of faculty—With the retirement of our former chairman and spine specialist, Dr. Louis Harkey and the relocation of spine specialist, Dr. Jared Marks, to Johns Hopkins in Maryland, the department has only one surgeon primarily specializing in spine. Consequently, a backlog of spine patients has developed. The recruitment of an additional spine surgeon would greatly improve this process. The department would also benefit with the recruitment of an endovascular/cranial surgeon.
- Revitalization of the PM&R division. We are actively in the search process of recruiting another clinician scientist and a traumatic brain injury psychiatrist. The breath of neurosurgical coverage should eventually be expanded, especially in the subspecialty areas of spine and oncology.
- Acquiring and receiving notification of insurance approval for surgeries, therapies, and even medications prescribed for patients continues to be a challenge.
- Scheduling of MRIs in an opportune time frame.
- Training of schedulers to enter Primary Care Providers and referring physicians, as well as obtaining outside records is an ongoing issue.
- Coordinating patient care with departments within UMMC who do not offer care to self-pay patients inhibits comprehensive care.
- Shortage of operating rooms, ICU beds, and hospital beds continues to challenge prompt care.
- Significant increase in VA patient referral volume and continued issues to obtain timely preauthorization approvals for needed studies.
- Access of diagnostic study results by patients via MyChart prior to their ordering provider notifying them of results.
- Clinical work flow is hindered when patients are not roomed in a timely fashion. There are also issues with scheduling scans that are ordered in clinic.
- Division of Physical Medicine and Rehabilitation
- Lack of EPIC at Methodist Rehabilitation Center

**RESEARCH**

**FACULTY SCHOLARLY PRODUCTIVITY**

Faculty with primary appointments: 12

- Articles in peer-reviewed journals: 7
- Books published: 0
- Books chapters published: 1
- Members of national study sections or national or international committees: 1
- PIs on extramural grants or editorial boards: 1

**TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):**

- Total Federal Funding (Direct + Indirect): $19,349
  - NIH – $19,349
- Total Non-Federal Funding (Direct + Indirect): $26,000
  - Industry Sponsored – $26,000

**TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):** 0
RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH

• Research Name – Anti-inflammatory Biologics for Ischemic Stroke
  • Funding Amount – Pending
  • Funding Source – Pending (Submitted to NCI)

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH

• Research Name – Treatment of Glioma by a Thermoactive S110B-Targeting Peptide
  • Funding Amount – Pending
  • Funding Source – Pending (Submitted to DOD)

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH

• Research Name – Evaluation of Variants in the Spinal Cord Vasculature using Latex Injections in Human Cadavers
  • Funding Amount – Not known at this time (study ongoing)
  • Funding Source – Department of Neurosurgery

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:

• Awarded the NIH/NINDS StrokeNet Regional Coordinating Center Grant with the UAB Collaboration
• Completed the industry sponsored Vertex clinical trial for spinal cord injury
• Addition of a Researcher III position with the hiring of Will Lawson.
• The University of Mississippi Medical Center Excellence in Research Bronze Award was presented to Dr. Chad W. Washington on October 24, 2018.

Developments:

• Accepted as a site for the industry sponsored multi-institutional clinical trial for intracranial hemorrhage. Site-visit pending

Challenges:

• Lack of external funding
• Lack of laboratory space for research
• Scheduling time for research experiments and teaching obligations.
• Expansion of the neurosurgical research mission

ADMINISTRATION

FACULTY IN EACH DIVISION

Spine
• Jason E. Tullis, MD

Vascular
• Gustavo D. Luzardo, MD
  • Chad Washington, MD

Pediatric Division
• James Mason Shiflett, MD
  • Kristin Weaver, MD

Oncology/Functional
• Roberto Rey Dios, MD
  • Juan Uribe, MD

Research
• Eddie Perkins, PhD
  • Chad Washington, MD

Physical Medicine and Rehabilitation
• Hyung Kim, MD
  • Vernon Lin, MD
  • Jennifer Villacorta, MD
  • John Wofford, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY

Neurosurgery and Neurology Joint Promotions and Tenure Committee
• Edward Manning, PhD., Chairman
• Parminder J.S. Vig, MD
• James Mason Shiflett, MD
• Vernon Lin, MD, PhD.

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES

• Christy Wilson, Executive Director, Neuroscience Institute
• Bryan Nelms, Department Business Administrator, Neuroscience Institute
• Patricia McDavid, Manager of Business Operations
• Robin French, Education Administrator/Residency Program Coordinator
• Tammy Hollingsworth, Administrative Assistant III
• Kristie McGloster, Administrative Assistant III
• Conné Snow, Administrative Assistant III
• Debra Stewart, Administrative Assistant III
• Carolyn Wilson, Administrative Assistant II

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

Symposium – Mississippi Epilepsy Foundation
Blood Donations – MS Blood Services
UMMC Medical Student Female Mentoring Program

NON-GRANT DEVELOPMENTS:

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:

• Obtained financial support to fully fund the Ralph T. Wicker Chair in Spinal Cord Injury. The Chair is designed to be used in the recruitment of physician-scientists to the Department by offering additional financial resources for research and clinical services.
• The ongoing search for the department’s next chairman came to a conclusion in February, 2019. Vice Chancellor LouAnn Woodward announced the selection of Dr. Chad W. Washington to the role of the next chairman of the department of neurosurgery. Dr. Washington officially assumed the role of chairman on June 16, 2019. Dr. Washington is a graduate of the University of Mississippi Medical Center School of Medicine. He completed his residency and fellowship at the Washington University School of Medicine in St Louis, Missouri. In July, 2015, Dr. Washington returned to the University of Mississippi Medical Center as an assistant professor in the department of Neurosurgery. He has been actively involved in the clinical, educational, and research areas of neurosurgery and currently serves as the Director of the Stroke Center. We look forward to the advancements to develop under the Dr. Washington’s leadership.

• The School of Medicine nominee for the Regions Bank TEACH prize was Dr. Eddie Perkins.

• The Nelson Order for Teaching Excellence was awarded to Dr. Eddie Perkins.

• The Pre-Clinical Professor of the Year was presented to Dr. Eddie Perkins by the University of Mississippi Medical Center School of Medicine.

• Division of Physical Medicine and Rehabilitation
  - Appointment of Dr. Hyung Kim as the chief of Physical Medicine and Rehabilitation division.
  - The Estin Comarr Award for Distinguished Clinical Service from the American Paraplegia Society was awarded to Dr. Vernon Lin.

• Development of Dr. John D. Wofford as the medical director of the Methodist Specialty Care Center.

Developments:
• Dr. H. Louis Harkey, III, retired, effective June 15, 2019.
• Dr. Chad Washington has been approved by the Promotion and Tenure Committee to serve as Associate Professor effective July, 2019.

Challenges:
• Recruitment of faculty
LEADERSHIP ROLES

- Jermaine Gray, MD, Interim Chairman, Division Chief, Women’s Health, Faculty
- Tony Wen, MD, Division Chief, MFM, Faculty
- Paul Moore, MD, Division Chief, Urogynecology and Associate Residency Director, Faculty
- Mildred Ridgway, MD, Acting Division Chief, Gyn Oncology, Faculty
- John Isaacs, Jr. MD, Acting Division Chief, Reproductive Endocrinology and Infertility, Faculty
- Amber Shiflett, MD, Wiser Medical Director, Faculty
- Michelle Owens, MD, Program Director, MFM Fellowship, Faculty
- Elizabeth Lutz, MD, Residency Director, Faculty
- Keisha Bell, MD, Clerkship Director, Faculty
- Sheila Bouldin, MD, Chair, Department P&T Committee, Faculty
- Bretta Blackman, B.S., MSM., Department Business Administrator, Staff
- Katherine Green, B.B.A., Manager Business Operations, Staff
- Nicole Magee, M.H.I.I.M., Senior Education Administrator, Staff
- Yvonne Stephenson, B.A., Education Administrator, Medical Students, Staff

EDUCATION LEADERSHIP ROLES AND WHO FILLS THEM

- Education Coordinator, Residency, Haidee Montgomery
- Education Coordinator, Fellowship, La Colony Mason
- Residency Director, Elizabeth Lutz, MD
- Associate Program Director, Paul Moore, MD
- Fellowship Director, MFM, Michelle Owens, MD
- Clerkship Director, Keisha Bell, MD
- Senior Education Administrator, Nicole Magee
- Education Administrator, Medical Students, Yvonne Stephenson

RESIDENCY AND FELLOWSHIP PROGRAMS

Accrediting Body: Approved slots for learners
- Program – Obstetrics and Gynecology Residency – 24
- Maternal-Fetal Medicine Fellowship – 6

Accreditation status
- Program: Residency: Obstetrics and Gynecology Status: Continued Accreditation Maternal Fetal Medicine Fellowship Status: Initial Accreditation effective 7/1/2017

Board pass rate
- Program: Obstetrics and Gynecology (3 year average)
  - Residency: Qualifying: 94.44%; Certifying: 77.78%
  - Maternal-Fetal Medicine Fellowship: Written – 100%; Oral – 100%

Number of graduate students: 5

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 1
- OBGYN 631: Obstetrics and Gynecology

Number of elective courses/clerkships taught in the SOM: 9 M4 electives
- 653A High Risk Obstetrics
- 655A Labor and Delivery
- 656 A/B Operative Gynecology
- 658A Gynecologic Oncology
- 659A OB/GYN Ambulatory Care
- 661A OB/GYN Research
- 663A Fund of Gynecol & Min Invas Surg

- 851A OB/GYN Extramural
- 852 OB/GYN Extramural

Number of course or co-course directors: 3
Number of program or associate program directors: 1

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- The Arnold P. Gold Foundation Humanism and Excellence in Teaching Award (Residents): John S. Rushing, M.D, PGY 4. Dr. Rushing has received this award for all four years.
- Evers Society M3 Resident of the Year; John Rushing, MD
- Faculty Development Training
- Martha Claire Thomas, MD, PGY 3; 2 published articles, Gentle Hysteroscopic Intrauterine Insemination for Extreme Vaginismus and 2-port Myomectomy Technique for a Type 2–5 Leiomyoma published in Fertility and Sterility Journal
- Resident representation on QuIPS, WUC and Education committees
- Chief Capstone and Intern Boot camps
- Resident Fall Retreat
- PGY 3 residents participation in Mississippi-Alabama ACOG Section Meeting
- ACOG Junior Fellow Mississippi representatives; Martha Claire Thomas, MD, Chair and Kimberly Simmons, MD, Vice Chair
- National Residency Matching Program matched interns; 2 from our school of medicine, 1 from Southern Illinois University, 1 from South Alabama, and 1 from University of Texas, San Antonio
- Increased case volume. Residents have adequate experience in all facets of surgical cases; graduates have met at least the ACGME required minimum
• 100% qualifying (written) board pass rate for our 2018 graduates
• Five residency graduates; three going into private practice, one Maternal Fetal Medicine Fellowship, Greenville, SC, and one Reproductive Endocrinology and Infertility Fellowship, Denver, CO
• Research Symposium; oral presentation of research projects (PGY 3 residents)
• Research Dinner with residents, fellows, faculty, and others; opportunity to discuss projects and plans
• Wellness curriculum
• Fundamentals of Laparoscopic Surgery examination; first group of PGY 3 residents successfully passed examination
• Evers Society M3 Course administrator of the year; Yvonne Stephenson, Education Administrator
• Primary Care Day
• Career Development Series
• Honors Day
  o William B. Gallagher Award – Haley McCool (incoming intern)
  o The J.P. “Jake” Mills Award – Katherine Hall
  o The Joey Purvis Memorial Fund Award – Shelby Walters (incoming intern)
• New MFM Fellowship program director – Michelle Owens, MD
• New MFM Fellowship coordinator – LaColony Mason
• Recruited one MFM Fellow for PGY 5 position; James Hogg, MD, Carolinas Medical Center, Charlotte, NC, University of Mississippi SOM graduate
• Dr. Jesse Cottrell, PGY 7; publication in American Journal of Physiology Regulatory, Integrative, Comparative Physiology— “Interleukin-4 supplementation improves the pathophysiology of hypertension in response to placental ischemia in RUPP rats” Dr. Jamie Szczepanski and Dr. Sarah Araj, PGY 6; publication in Brain Sciences— "Peripheral Anti-Angiogenic Imbalance during Pregnancy Impairs Myogenic Tone and Increases Cerebral Edema in a Rodent Model of HELLP Syndrome”
• Grand Rounds presentation; Dr. Aswathi Jayaram, Inflammation and Hypertension in Response to Placental Ischemia: Advancement an Therapeutics for Pre-Eclampsia; University of Illinois SOM, Chicago
• Jesse Cottrell, MD; elective at National Center for Maternal and Child Health, Mongolia
• One fellowship graduate; Jesse Cottrell, MD
• Masters in Biomedical Science Degrees – Jesse Cottrell, MD

Declarations:
• On-going faculty development
• MFM fellowship site visit; November 2019
• Residency ACGME 10 year self-study; 2020
• Revamped residency rotation evaluations
• Revamped residency and fellowship rotation goals and objectives
• Additional faculty
• Research Opportunities
• Revamped M3 Schedule and Program
• Remodeled M4 Schedule (Block)

Challenges:
• Faculty recruitment
• Scholarly activity
• Restricted budget and funding
• Adequate coverage
• Adequate faculty for subspecialty training and education
• Extramural Rotations

CLINICAL
CLINICAL PERFORMANCE

Patient Safety:
Maternal, morbidity and mortality review committee

Quality:
Maternal, morbidity and mortality review committee

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Opened a new OB clinic
• Appointment of Dr. Paul Moore to Division Chief of Female Pelvic Medicine and Reconstructive Surgery (Urogynecology)
• Moving our Delta Forward Women’s Health Update (Dr. Gray and NP Bates)
• Successful replacement of our Nocturnist for L&D in the Hospital
• Leapfrog data improvement regarding 39 weeks elective deliveries, episiotomies and antenatal steroid use
• Community positive publicity in the Northside Sun regarding raising awareness on vaginal deliveries after a cesarean section (Dr. Shiflett)

Developments:
• Laborist Hospital model

Challenges:
• Loss of providers due to retirement and relocation
• Decreasing patient volume
• Lack of clinical office space on campus
• Outdated labor and delivery suites and ORs
• Faculty recruitment

RESEARCH
FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 20
• Articles in peer-reviewed journals: 19
Abstract published: 3
Books published: 0
Book chapters published: 2
Members of UMMC Committees: 8
Members of national study sections or National/international committees: 3
Journal editors or members of editorial boards: 1
PIs on extramural grants: 6
Investigators (not PIs) on grants: 3
Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect):
  - NIH – $631,654.50
  - Other – $0
- Total Non-Federal Funding (Direct + Indirect):
  - Industry sponsored – $36,389.06
  - Other – $0

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Resident Research Projects: 8
  - Department Funded
- Faculty Research Projects: 23
  - Department Funded

NON-GRAFT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: 0
Amount: $0

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Five Residents successfully completed ABOG research requirements
- Continued department-funded research support for residents and faculty members
- Jesse Cottrell, MD MFM Fellow received the American Physiology Society Select Award for his thesis research manuscript entitled, “IL-4 supplementation improves the pathophysiology of hypertension in response to placental ischemia in RUPP rats”
- Research Division started quarterly department newsletter providing health tips, featuring faculty and disseminating research.
- Sheila Bouldin, MD has been appointed to the Publications Committee for the Journal of the Mississippi State Medical Association
- Kedra Wallace, PhD received research support from NIH/NIGMS: AKI in HELLP Syndrome
- Kedra Wallace, PhD received research support from NIH/NIMH: Hypertension and Neuro-Inflammation During Pregnancy
- Kedra Wallace, PhD has been appointed to Editorial Board: BMC Women’s Health
- Kedra Wallace, PhD presented to MSRP: Bench to Bedside, Bedside to Bench...What does this Really Mean Patient Navigator Seminar, June 7, 2019 for faculty, fellows, and residents.
- 1 MFM fellow’s research abstract was selected for oral presentation at the Society for Maternal-Fetal Medicine Annual Meeting
- Successfully completed UMMC compliance audit of 4 studies
- > 125 patients enrollments

Developments:
- Development and submission of 5 new IRB research protocols.
- Kedra Wallace, PhD named Director of UMMC Clinical Investigation Program
- Wondwosen K. Yimer, PhD joined research support team at 10% effort.
- Started new research collaborations with:
  - UMMC Ped-Gastroenterology Michael Nowicki, MD with Rachael Morris, MD
  - UMMC Ped-Child Development Robert Annett, PhD with Kedra Wallace, PhD
  - UMMC Neurobiology and Anatomical Science Bernadette Grayson, PhD with Kedra Wallace, PhD
  - Ole Miss Psychology Laura Dixon, PhD with Kedra Wallace, PhD
- Tony Wen, MD has been appointed as a Mississippi Center of Excellence Perinatal Research External Advisory Committee member.
- Re-allocation of space to the research division to be utilized as a break room.
- Two additional laboratories awarded to Kedra Wallace, PhD in the research wing of the main hospital.

Challenges:
- Faculty have limited time for scholarly productivity including abstract and manuscript composition
- There are barriers to faculty resident research mentorship such as:
  - Time commitment
  - Number of available faculty
ADMINISTRATION

FACULTY IN EACH DIVISION

Women’s Health
- Jermaine Gray, MD, Division Chief
- Sheila Bouldin, MD
- Amber Shiflett, MD
- Harriette Hampton, MD
- Elizabeth Lutz, MD, MPH
- Charlene Collier, MD, MPH, MHS
- David K. Ball, MD
- Keisha Bell, MD

Urogynecology
- Paul Moore, MD, Division Chief

REI
- John Isaacs, Jr., MD
- Victoria Sopelak, PhD

Gynecologic Oncology
- Mildred Ridgway, MD

Maternal Fetal Medicine
- James Bofill, MD
- Michelle Y. Owens, MD, MS, FACOG
- Sarah Novotny, MD, MS
- Rachael Morris, MD, MS
- Tony S. Wen, MD, Division Chief

Research
- Kedra Wallace, PhD, Director of Research

Administration
- Jermaine Gray, MD, Interim Chair

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Jermaine Gray, MD
- Sheila Bouldin, MD, Chair
- Tony Wen, MD
- Michelle Owens, MD
- James Bofill, MD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Jermaine Gray, MD, Interim Chairman, Division Chief, Women’s Health, Faculty
- Sheila Bouldin, MD, Chair, Department P&T Committee, Faculty
- Tony Wen, MD, Division Chief, MFM, Faculty
- Mildred Ridgway, MD, Acting Division Chief, Gyn Oncology, Faculty
- Amber Shiflett, MD, Wiser Medical Director, Faculty
- Michelle Owens, MD, Fellowship Director, Faculty
- Elizabeth Lutz, MD, Residency Director, Faculty
- Paul Moore, MD, Associate Residency Director, Faculty
- Keisha Bell, MD, Clerkship Director, Faculty
- John Isaacs, Jr. MD, Acting Division Chief, Reproductive Endocrinology and Infertility, Faculty
- Kedra Wallace, PhD., Research Director, Faculty
- Bretta Blackman, B.S., MSM., Department Business Administrator, Staff
- Katherine Green, B.B.A., Manager Business Operations, Staff
- Nicole Magee, M.H.I.I.M., Senior Education Administrator, Staff
- Yvonne Stephenson, B.A., Education Administrator, Medical Students, Staff
- Haidee Montgomery, B.S., Education Coordinator, Residents, Staff
- Sandra Funchess, B.S., Administrative Assistant III, Staff
- Cindy Mitchell, Administrative Assistant III, Staff

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
- Community Health Fairs
- Grants Ferry Health Fair
- March of Dimes Walk
- Breast Cancer Awareness Walk
- See, Test & Treat

NON-GRA NT DEVELOPMENT (FUNDRAISING)

ACCOMPLISHMENTS
Major Fundraising Development: Gynecologic Oncology Walk
Amount: $4,955.00

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Promotion of Dr. Jermaine Gray to Professor and Dr. Mildred Ridgway to Associate Professor
- Kedra Wallace, PhD, appointment to Ob/Gyn Research Director and Director of the Graduate Program in Clinical Investigation
- Michelle Owens, MD completed the MSMA Physician Leadership Academy
- Encouragement of resident participation in department quality initiatives
- End FY19 better than budget
- Publishes a quarterly Department Newsletter
- Michelle Owens, MD appointed to the Mississippi State Board of Nursing
- Michelle Owens, MD recognized as the 2018 Inspirational physician by the Women’s Physicians Section of the American Medical Association
- Leapfrog data improvement regarding 39 weeks elective deliveries, episiotomies, and antenatal steroid use
- James Bofill, MD received the ACOG District VII mentor’s award

Development:
- Ob/Gyn alumni association rebirth
- Fundraising

Challenges:
- Awaiting appointment of permanent chair
- Faculty recruitment
LEADERSHIP ROLES
- Kimberly Crowder, MD, Chair
- William Watkins, MD, Residency Program Director
- John Green, MD, Residency Medical Education Site Director, Veterans Medical Center
- Jay Craddock, MD, Medical Student Director
- Fay Beach, Education Administrator

EDUCATION RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program – 16
Residency – 16
Fellowship – 1

Accreditation status
Program: Ophthalmology
Residency: Full ACGME Accreditation
Fellowship: AUPO

Board pass rate
Program: Ophthalmology
Residency: 100%
Fellowship: n/a

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 0

Number of elective courses/clerkships taught in the SOM: 6

Elective courses/clerkships:
- OPTH 630 Introduction to Ophthalmology
- OPTH 659A Ophthalmology I
- OPTH 659B Ophthalmology II
- OPTH 660A Ophthalmology II
- OPTH 851 Ophthalmology Extramural

- OPTH 852 Ophthalmology Extramural

Number of course or co-course directors: 1
Number of program or associate program directors: 2

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
On August 18, 2018, the Department of Ophthalmology hosted the Ophthalmology Update Conference at the Embassy Suites Hotel, Ridgeland, MS. The 3rd annual Ching J. Chen, MD Lecture was given by Dr. Daniel Martin, Chairman of the Cleveland Clinic Cole Eye Institute.

On December 7, 2018, the Department of Ophthalmology along with the Department of Neurology co-hosted the James Corbett, MD Lecture in Neuro-Ophthalmology. The keynote speaker was Dr. Sachin Kedar of the University of Nebraska Medical Center.


Dr. William Watkins presented a workshop at the American Academy of Ophthalmology Annual Meeting in Chicago (October 2018).

Barbara Beard, Ambulatory Operations director attended the American Academy of Ophthalmology annual meeting in Chicago.

Dr. Kimberly Crowder, Dr. Jay Craddock, Dr. William Watkins, and Terry Ables attended the Association of University Professors of Ophthalmology (AUPO) Conference in Fort Lauderdale, FL in January 2019.

Terry N. Ables toured the Bascom Palmer Eye Center in Miami, Florida. Dr. Crowder presented a “Breakfast with Colleagues” session.

Dr. Sean Carter, Dr. Kevin Mays, Dr. Clayton Patrick, and Dr. Erin Petersen completed the Ophthalmology Basic Science training program February 2019 in Houston, TX.

Senior residents; Dr. Jonathan Carrere, Dr. Jorge Jiménez, Dr. John Bullock attended Cataract Surgery “Telling it Like it is” in Orlando, FL on February 6–10, 2019.

Dr. Sneh Dhannawat attended 2nd year Ophthalmology resident wet lab training on February 9–10, 2019.

Dr. Roya Attar attended the Southeast Congress of Optometry (SECO) on February 19–25, 2019.

Dr. John Bullock, Dr. Jonathan Carrere, Dr. Jorge Jiménez attended the San Antonio Ophthalmology Review Course on March 4–8, 2019 in San Antonio, TX.

Dr. Sneh Dhannawat attended and presented a poster at the North American Neuro-Ophthalmic Society on March 16–18, 2019 in Las Vegas, Nevada.

Dr. Nils Mungan attended the American Association for Pediatric Ophthalmology and Strabismus on March 27–31, 2019.

Dr. John Lippincott attended and presented at The Association for Research in Vision and Ophthalmology on April 27–May 1, 2019 in Vancouver, BC.
Dr. Jorge Jiménez attended and presented at The Association for Research in Vision and Ophthalmology (ARVO) on April 28–May 3, 2019 in Vancouver, BC, Canada.


The Samuel B. Johnson, MD Memorial Lecture was held on June 21, 2019. Dr. Craig Greven, chair and professor of the Department of Ophthalmology and Director of the Wake Forest University Eye Center, was the keynote lecturer.

Developments:
The Department upgraded the VR Magic EYESI Surgical simulation system for state-of-the-art Ophthalmic surgery simulation for our resident training program.

Challenges:
Ophthalmology continues to fund resident specialized training and travel expenses on a restricted budget.

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
Dr. Kyle Lewis is our chief safety and quality improvement officer.

Quality:
- Focus on improving I-Care reporting
- Hand sanitation
- Minimizing patient wait times
- IRIS quality metric Database with the American Academy of Ophthalmology

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
The Department of Ophthalmology had 29,264 charged patient visits in FY 19.

We performed 102,393 procedures and hundreds of complex surgeries to save sight and improve our patient’s quality of life.

Developments:
We added an Optometrist (Dr. Roya Attar) to our staff for better patient access to comprehensive eye care and better service in our Optical shop.

Dr. Troy Newman joined our staff in July 2018 and provides comprehensive and glaucoma care.

Challenges:
The Department of Ophthalmology needs more clinical space to grow and better serve our existing patients.

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 11
- Articles in peer-reviewed journals: 3
- Books published: 0
- Books chapters published: 1
- Members of national study sections or national or international committees: 4
- Journal editors: 1
- Members of editorial boards: 4
- PIs on extramural grants or editorial boards: PIs – 3; Co-PIs – 2
- Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect): $114,101
  - NIH – $114,101
  - DOD – $0
  - Other – $0
- Total Non-Federal Funding (Direct + Indirect): $472,119
  - AHA – $0
  - NSF – $0
  - Other – $472,119

Other
- Allergan Sequoia Study (362,118)
- P.I. C.J. Chen, MD/Albert Lin, MD
- Weinberg Research Fund (89,857)
- P.I. Kimberly Crowder, MD
- Glaucoma Research Fund (20,144)
- P.I. C.J. Chen MD

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0
- IRSP – $0
- FSE – $0
- Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Research Name – “Retrospective Review of Gun Related Eye and Orbital Injuries”
  - Jeffrey St. John, M. D.
  - Albert Lin, M. D. preceptor
  - Funding Amount – $0
  - Funding Source – Department of Ophthalmology
- Research Name – “Comparison of Corneal Ulcer Culture Techniques in a Pig Eye Model”
  - Jonathan Carrere, M. D.
  - Brian Tieu, M. D., PhD, preceptor
  - Funding Amount – $0
  - Funding Source – Department of Ophthalmology
- Research Name – “A Case Report of Epibulbar Conjunctival Neurofibroma”
  - Erin Petersen, M. D.
  - Kyle Lewis, M. D., preceptor
  - Funding Amount – $0

2018–2019 UMMC School of Medicine Annual Report
Funding Source – Department of Ophthalmology

• Research Name – “Inpatient Follow-Up Study – A Quality Improvement Project”
  Sean Carter, M. D.
  Kimberly Crowder, M. D, preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “Assessment of Intraocular Pressures in Glaucoma Patients After Pars Plana Vitrectomy”
  Jorge Jiménez, M. D.
  Brien Tieu, M. D., PhD, preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “Evolution of Submacular Fluid in Diabetic Rhegmatogenous-tractional Retinal Detachment After 27 Gauge Pars Plana Vitrectomy”
  Jonathan Feng, M. D.
  Albert Lin, M. D., preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “A Comparison of Target Refractive outcomes between the Zeis IOL Master 500 & 700 in Routine Cataract Surgery”
  Jack Bullock, M. D.
  William Watkin, M. D., preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “Monocular Precautious – A Quality Improvement Project”
  Sneh Dhannawat, M. D.
  Kyle Lewis, M. D, preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “Incidence of Trauma-Related Ophthalmic Pathology in Acute Traumatic Orbital Wall Fractures”
  Lee Jones, M. D.
  Albert Lin, M. D., preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “A Unique Case of Exudative Retinopathy”
  Clayton Patrick, M. D.
  John Green, M. D., preceptor
  Albert Lin, M. D. preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

• Research Name – “Unilateral Blurry Vision as the Sole Presenting Symptom of Chronic Lymphocytic Leukemia – A Case Report”
  Kevin Mays, M. D.
  William Watkins, M. D., preceptor
  Funding Amount – $0
  Funding Source – Department of Ophthalmology

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
Dr. C.J. Chen and Dr. Albert Lin completed the Allergan sponsored study “Safety and Efficacy of Abicipar Pegol”

Developments:
The implementation of an Ophthalmology and Vision Research Subcommittee will begin in FY 20.

Challenges:
Clinical time constraints make it difficult to devote more hours to research studies.

The Department continues to need dedicated research staff to assist with clinical trials, data gathering, and reporting efforts.
over 800 dollars for Diabetes research and support.

On April 27, 2019 the Department sponsored the Health for Kids Vision Screening at the UMMC Pavilion.

The department provided free eye screening at The Mississippi State Capital in January 2019.

**NON-GRA NT DEVELOPMENT**

**FUNDRAISING**

**ACCOMPLISHMENTS**

- Sam Johnson Professorship Fund: 138,026
- Ching J. Chen Endowment Fund: 246,027
- Toni Bertolet Fund: 504,072
- Connie S. McCaa Endowment Fund: 60,203

**ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
The Department of Ophthalmology has successfully recruited a Neuro-Ophthalmologist and an additional Pediatric Ophthalmologist to start in FY 20.

The Department of Ophthalmology and the UMMC Department of Continuing Education sponsored the Ophthalmology Update Conference in August 2018 in Ridgeland, MS. Local ophthalmologist, optometrists, and ophthalmic technicians attended the event to discover the latest developments in techniques, research, and instrumentation.

Dr. Kimberly Crowder hosted a reception following the Ophthalmology Update Conference at her home for attendees and guest lecturers.

**Development:**
A Project Manager position was added to the administrative team for Ophthalmology in January 2019.

**Challenges:**
The Department of Ophthalmology continues to meet the needs of our residents, patients and faculty. We have a small administrative support staff and two of our long time employees retired in June of 2019.
LEADERSHIP ROLES
- George V. Russell, Jr, MD, MBA, Chair
- Matthew L. Graves, MD, Vice Chair, Program Director, Orthopedic Surgery Residency
- Patrick B. Wright, MD, Associate Program Director, Orthopedic Surgery Residency
- William B. Geissler, MD, Program Director, Orthopedic Surgery Hand Fellowship Program
- Patrick Bergin, MD, Research Director
- Benjamin Stronach, MD, Ambulatory Medical Director

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Residency – 20
Fellowship – 1

Accreditation status
Residency: FULL
Fellowship: FULL

Board pass rate
Residency: 100% First time takers for the past five years
Fellowship: 100% First time takers for the past five years

Number of graduate students: 4

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 5

Required courses/clerkships:
- ORTHO657 (Fulfills a M4 Surgical Requirement)
- ORTHO851 – Away rotation
- ORTHO852 – Away rotation
- ORTHO658 (Fulfills a M4 Surgical Requirement)
- ORTHO630 (Fulfills a M3 Surgical Requirement)

Number of elective courses/clerkships taught in the SOM:
Elective courses/clerkships: 3
- ORTHO657 (Fulfills a M4 Surgical Requirement)
  Course Director: Matthew L. Graves, MD
- ORTHO658 (Fulfills a M4 Surgical Requirement)
  Course Director: Patrick B. Wright, MD
- ORTHO630 (Fulfills a M3 Surgical Requirement)
  Course Director: Jennifer S. Barr, MD

Number of course or co-course directors: 3

Number of program or associate program directors: 4
Orthopaedic Surgery Residency Program
  - Program Director: Matthew L. Graves, MD
  - Associate Program Director: Patrick B. Wright, MD
Orthopaedic Surgery Hand Fellowship Program
  - Program Director: William B. Geissler, MD
MSMOC Orthopaedic Surgery Adult Reconstruction Fellowship
  - Associate Program Director: Benjamin Stronach, MD

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Dedication of the Dr. and Mrs. Charles Rhea Simulation Lab April 27, 2019
- Dedication of the Freeland Orthopaedic Alumni Resident Traveling Fund April 27, 2019

Developments:
- Plans have begun to renovate the resident workroom on 3 North
- Working on new rotation schedules to optimize the residents’ exposure to community based practices and surgical centers
- Dr. Jaysson Brooks is working to increase the Grand Rounds Visiting Professor program.
- Dr. Jaysson Brooks will step in as Associate Program Director and Chair of the Clinical Competency Committee for the Orthopaedic Surgery Residency Program

Challenges:
- Budgetary constraints limit the number of offsite educational experiences offered to residents
- Working to increase Scholarly Activity and lifelong learning habits

CLINICAL
CLINICAL PERFORMANCE
Patient Safety: None
Quality: None
CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Dr. Hamdi Sukkarieh joined the department as an Assistant Professor of Pediatric Orthopaedic Surgery.
- Dr. Khristinn Kellie Leitch signed a contract to join the Department as an Associate Professor of Pediatric Orthopaedic Surgery and Division Chief.
- Dr. John Morellato joined the department as an Assistant Professor of Orthopaedic Trauma.

Developments:
- Dr. Robert McGuire transitioned his Spine practice to non-operative in January 2019. Recruitment for a replacement spine surgeon is underway.
- Amanda McCullough, NP transitioned out of the department to take a position with the UMMC School of Nursing.

Challenges:
- Recruitment for a full time hand surgeon has been challenging due to space constraints in clinic and operating room.
- Clinical space continues to impede department growth. Both clinic and operating room availability is very limited.

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 22
- Articles in peer-reviewed journals: 66
- Books published: 0
- Books chapters published: 4
- Members of national study sections or national or international committees: 17
- Journal editors: 1
- Members of editorial boards: 3
- PIs on extramural grants or editorial boards: 29
- Number of Patents: 8

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect):
  - DOD – $3,900
- Total Non-Federal Funding (Direct + Indirect): $120,573

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
The Alan E. Freeland Research Lecture Series was hosted on June 7, 2019. The department was honored to have Dr. Douglas W. Lundy, MD, MBA, FAOA, Orthopaedic Trauma Surgeon and co-President Resurgens Orthopaedics and President of the American Board of Orthopaedic Surgery present “Third-World Medical Missions.” Chief Resident Dr. Bopha Chrea was the recipient of the 2019 Resident Research Award.

Developments:
Susan Allbritton, RN has joined the Orthopaedic Research team as Manager of the Clinical Research Program.

Challenges:
Continued growth of the research division will require new funding through sponsored studies or grants.

ADMINISTRATION

FACULTY IN EACH DIVISION

Hand
- William Geissler, MD
- Jennifer Barr, MD

Oncology
- Jaysson T. Brooks, MD
- John Purvis, MD
- Hamdi Sukkarieh, MD
- Patrick Wright, MD
- Catherine Carlyle Zimmerman, MD

Spine
- Robert A. McGuire, MD
- M. Stanton Ward, MD, PhD

Foot and Ankle
- Lori K. Reed, MD

Sports Medicine
- William Geissler, MD
- James A. Hurt, III, MD
- Lauren O’Malley, MD

Total Joint
- Benjamin Stronach, MD

Trauma
- George V. Russell, MD, MBA
- Matthew Graves, MD
- Patrick Bergin, MD
- John Morellato, MBBS

Research
- Gene R. Barrett, MD

Part-Time Faculty
- Kendall Blake, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- M. Stanton Ward, MD, PhD, P&T Chairman
- William B. Geissler, MD
- Robert A. McGuire, MD
- George V. Russell, MD, MBA

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- George V. Russell, MD, MBA, Professor and Chairman
- Tommy Middleton, MSHA, MBA, Department Business Administrator
- Donna Reyer, Manager, Business Operations
- Derrick J. Melton, MSHA, MBA, Director, Ambulatory Operations
Department of Orthopaedic Surgery and Rehabilitation

- Samantha Brunson, Supervisor, Clinic Operations
- Debi Burnett, Administrative Assistant IV
- Jennifer Bagwell, Supervisor, Office Services

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
- The Perry Initiative

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Lisa Boney was hired as the Department’s new Manager for Process Improvement.
- Hannah Birdsong was hired as the Department’s new Epic Optimization Analyst.
- Visual Management and daily huddles have been implemented in the ambulatory clinics to provide improved communication with staff and providers.
LEADERSHIP ROLES
- Scott Stringer, MD, MS, Chairman
- J. Randall Jordan, MD, Vice Chair of Clinical Affairs
- Gina Jefferson, MD, Vice Chair of Education
- Lana Jackson, MD, Program Director
- Jeff Carron, MD, Student Course Director
- Christopher Spankovich, AuD, PhD, MPH

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program – Otolaryngology-Head and Neck Surgery
Residency – 15
Fellowship – 0

Accreditation status
Program: Otolaryngology-Head and Neck Surgery
Residency: Full

Board pass rate
Program: Otolaryngology-Head and Neck Surgery
Residency: 100

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 0
Number of elective courses/clerkships taught in the SOM: 6
Elective courses/clerkships:
- OTO 630 Otolaryngology
- OTO 661 A Otolaryngology-Surgical
- OTO 662 B Primary Care Otolaryngology
- OTO 663 A Otolaryngology-Research
- OTO 851 Otolaryngology Extramural
- OTO 852 Otolaryngology Extramural
Number of program or associate program directors: 2

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Department presented a continuing education course: “ENT for the Advanced Practice Provider.”
- Communicative Sciences received ASHA approved CE Provider status and held their first course in December.
- Three visiting professorships were sponsored.
- Continued a combined MBA program with our otolaryngology residency program.
- Hosted the fourth annual Southeastern ORL Simulation Training Boot Camp, provide junior ORL residents experience in basic surgical skills through hands-on simulated emergency scenarios and interactive triage sessions.
- Early Interventionist Amy Holley received Listening and Spoken Language Specialist Certification.
- Jenna Nassar, MS, achieved Board Certification in Swallowing and Swallowing Disorders through the American Speech-Language and Hearing Association.
- Mallory Upchurch, MS graduated from the Millsaps Business Advantage Program.
- Conducted Surgical Dissection Course providing cadaver based dissection instruction in areas of ENT surgery.
- Faculty member Jeffrey Carron, MD, along with residents Lauren Buck, MD and Cindy Moore, MD, won the American Society of Pediatric Otolaryngology PedsVideo to Presentation Contest at the Combined Otolaryngology Spring Meetings.
- Scott Stringer, MD, participated in three panel discussions at the American Society of Pediatric Otolaryngology-Head and Neck Surgery Annual Meeting.
- J. Randall Jordan, MD had two presentations and participated in a panel discussion at the American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting.
- John Schweinfurth, MD presented at the Combined Otolaryngology Spring Meetings as well as the Voice Foundation Annual Meeting.
- Christopher Spankovich, AuD, PhD, M.P.H presented at the 34th World Congress of Audiology and at the American Auditory Society Annual Meeting.
- Scott Stringer, MD participated in three panel discussions at the American Academy of Otolaryngology/Head and Neck Surgery Annual Meeting.
- Fellowship matches for 2019 graduating residents include Laura House, MD to House Ear Institute for Otolaryngology/Neurotology and Erin Smith, MD to Nassif MD Plastic Surgery and Center of Plastic Surgery for Facial Plastic and Reconstructive Surgery.
- Fellowship matches for 2020 graduating residents include Lauren Buck, MD to Cincinnati Children’s Hospital for pediatric Otolaryngology, Steven

CLINICAL

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Added three new exam rooms to the ENT Lakeland Clinic to accommodate increases in volume
• Expanded the audiology clinic to offer more specialized vestibular services, include a posturography machine
• Became the first center in the region to obtain the MedRobotics flexible surgical robot
• Branded and began actively marketing the Voice and Swallow Center
• Opened new Cancer Institute clinic location
• Started offering same-day appointment access to patients and referring offices
• Continued to be the only pediatric otolaryngology center in Mississippi

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 45
• Articles in peer-reviewed journals: 33
• Books published: 0
• Books chapters published: 0
• Members of national study sections or national or international committees: 8
• Journal editors: 1
• Members of editorial boards: 10
• PIs on extramural grants or editorial boards: 5

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
• Total Federal Funding (Direct + Indirect): $707,124
  NIH – $556,366
• Total Non-Federal Funding (Direct + Indirect): $150,758

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
Other – $70,043

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Wu Zhou, PhD, received UMMC’s Excellence in Research award at platinum level.
• M2 Students Drew S. Morgan and Nicholas A. Bosworth were awarded the Alpha Omega Alpha Student Research Award for their work in Dr. Spankovich’s lab.
• Sarah Faucette, AuD, PhD, became the lead research audiologist for the UMMC site ACHIEVE Study.
• Hong Zhu, MD, served as NIH Study Section Panel member for the NIH R15 Academic Research Enhancement Award (AREA).
• Wu Zhou, PhD, served on the grant review board for the NIH Special Emphasis Panel Study Section of Integrative, Functional and Cognitive Neuroscience (IFCN).
• Christopher Spankovich, AuD, PhD, MPH, served on the grant review board for the Army Medical Research and Material Command (MRMC) Clinician and Rehabilitation Medicine (CRM) Extramural Research Program.

ADMINISTRATION

FACULTY IN EACH DIVISION

Otolaryngology
• Scott Stringer, MD
• J. Randall Jordan, MD
• Jeffrey Carron, MD
• Thomas Eby, MD
• J. Mark Reed, MD
• John Schweinfurth, MD
• Lana Jackson, MD
• Christopher Lee, MD
• Gina Jefferson, MD
• Andrea Lewis, MD
• Claude Harbarger, MD
• Alexandra Brown, MD
• Eric Bridges, MD
• Tammy Sanders, MD

ACT Center/Bio-Behavioral Medicine
• Thomas Payne, PhD

Communicative Sciences – Audiology
• William Mustain, PhD
• Charles Bishop, AuD, PhD
• Chris Spankovich, AuD, PhD, MPH
• Alex Elkins, AuD
• Vicki Gonzalez, AuD, PhD
• L. Ashley Grillis, Au.D
• Mary Frances Johnson, AuD
• Denise Pouncey, AuD
• Mary Gunn Spragins, AuD
• Sarah Faucette, AuD, PhD

Communicative Sciences – Speech/Language Pathology
• Meagan Allen, MS
• Josie Alston, MA
• Whitney Armstrong, MS
• Angie Brunson, MS
• Kara Gibson, MA
• Tiffany Hodge, MS
• Caroline Hunter, MS
• Ashley Legate, MS
• Andrea Lowrie, MS
• Leisa McCullough, MS
• Mary “Caroline” Murray, MS
MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY

- Thomas Eby, MD
- John Schweinfurth, MD
- Wu Zhou, PhD
- Christopher Spankovich, AuD, PhD, Chairman
- Charles Bishop, AuD, PhD

Number of faculty hired: 4

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES

- Abby Covington, Department Business Administrator, Staff
- Anna Kate Stanford, Director, Ambulatory Operations, Staff
- Caroline LeBlanc, Associate Director Finance and Administration, Staff
- Bonnie Boyd, Manager, Business Operations, Staff
- Heather Jiles, Executive Assistant, Staff
- Lindy Jones, Epic Optimization Analyst, Staff
- Brianne Pardo, Project Manager I, Staff

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

- City of Brandon Back to School Bash
- Back to School Hearing Screening
- Jonestown Community Health Fair
- MS Food Network – Backpack Meals
- Senior Bingo Day – Hearing Screenings
LEADERSHIP ROLES
- Timothy Craig Allen, MD, Department Chair
- James Neill, MD, Director of Anatomic Pathology
- Lisa Stempak, MD, Director of Clinical Pathology
- Sarika Jain, MD, Director of Molecular Pathology
- Junming Wang, PhD., Director of Research
- Veena Shenoy, MD, Residency Program Director
- Dianne Grunes, MD, Associate Residency Program Director
- Kristen Adams, MD, Medical Course Director
- Youssef Al Hmada, MD, Dental Course Director
- Israh Akhtar, MD, Cytology Fellowship Director

EDUCATION RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
Program – Anatomic and Clinical Pathology (residency), Cytopathology (fellowship)
Residency – 12
Fellowship – 2

Accreditation status
Program: Anatomic and Clinical Pathology (residency), Cytopathology (fellowship)
Residency: Continuing accreditation
Fellowship: Continuing accreditation

Board pass rate
Program: Anatomic and Clinical Pathology (residency), Cytopathology (fellowship)
Residency: 2 passed (100%); pass rate 100% for more than 5 years
Fellowship: 2018–2019 Fellows haven’t scheduled test, so far 100% pass rate for past 5 years

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 1
Required courses/clerkships:
- Year 2 PATH621 – General & Systemic Pathology

Number of elective courses/clerkships taught in the SOM: 5
Elective courses/clerkships:
- Year 3 PATH630 – Pathology: Anatomic Elective
- Year 3 PATH631 – Pathology: Clinical Elective
- Year 4 PATH651A – Pathology: Anatomic Elective
- Year 4 PATH652A – Pathology: Clinical Elective
- Year 4 PATH652B – Pathology: Clinical Elective

Number of course or co-course directors: Five courses, and three directors

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- The Class of 2021 passed the Path621 Course in academic school year 2018–2019.
- Abstract presentations at CAP and ASCP conferences
- Journal articles accepted for publication
- Subspecialty sign-out with graduated responsibilities
- High school and college students tours through Anatomic Pathology, Clinical Pathology, and Research areas.

Developments:
- New faculty, Dr. Sara Johnston, is scheduled to cover Transfusion Medicine lecture topics in the 2019–20 PATH621 course.

Challenges:
- Recruiting cytopathology fellows
- Recruit neuropathologist to cover neuropathology lectures and microbiologist to cover microbiology lectures for the pathology course

CLINICAL CLINICAL PERFORMANCE

Patient Safety:
- Working with Anesthesia/ Cardiology to develop Transfusion Protocol Order Set
- AP/ Surgery Collaboration meeting for pre-analytical specimen quality improvement
- Developed process with pediatric cardiovascular surgery to receive two T&S prior to transfusion to meet AABB standards of practice and improve utilization of products

Quality:
- Successful on-site CAP inspection, which included Clinical and Batson laboratory and POCT
- Quality Meetings held for Anatomic Pathology, Clinical Pathology, and Molecular Diagnostics
- Annual Review of Quality monitors in AP, CP, and Molecular which demonstrated several areas of improvement in 2018
- CAP readiness: conducted recent CAP audits for Clinical and Batson Laboratories in each section in preparation for on-site CAP inspection
- CAP inspection completed at UMMC Lexington: 8 deficiencies—none of which were in the areas of patient or employee safety
• Altered order entry on all GBS screening cultures to include a question regarding penicillin allergy (test utilization initiative)
• Implementation of new urine procedure to reflect best practices

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• 100 day work out:
  o Updated CSF order set for adult hospital
• Discontinued offering CK-MD in the UMMC health system:
• Successful observance of National Medical Laboratory Professionals Week
• Molecular Diagnostics
• Implemented in-house testing:
  o Factor II, Factor V and MTHFR tests which will result in approximately $50K per year
  o EGFR
  o BCR-ABL
• Developed Toxicology Website
• Organized and held Blood Drives

Developments:
• Reviewing contracts, test menus, and pricing for various send out tests to consolidate and streamline testing to our main reference laboratory (Mayo Clinic) when feasible
• Collaboration with pediatric colleagues regarding Batson laboratory obtaining appropriate testing in place for pediatric coagulation clinic
• Chasing Zero Initiative: Working with Risk Management regarding Panic Value notifications
• Working with Anesthesia and DIS regarding real-time TEG monitoring
• Working with Accreditation Compliance team regarding TJJC Waived Testing and Provision of Care chapters

Challenges:
• Need space for growth as well as qualified personnel in several key positions as well as front-line technical employees
• Secure funding for improvement for Clinical lab automation line and chemistry instrumentation
• Validation of the instrument for intra-operative PTH values
• Critical blood shortage

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 22
• Articles in peer-reviewed journals: 54
• Books published: 4
• Books chapters published: 8
• Members of national study sections or national or international committees: 44
• Journal editors 6
• Members of editorial boards: 20

• 100-day workout teams with a goal of $1M savings each:
  o Blood Product Utilization team—focused primarily on long-term goals by building a sustainable utilization approach and review process
  o Outsources Lab Spending team has currently identified approximately $400K savings.
• Efforts continue on Next Generation Sequencing with a target of 2020 along with Chromosomal Microarrays.
• Collaboration to begin in early 2020 with Emergency department regarding HIV/HCV opt out testing.
• Flow cytometry will bring leukemia/lymphoma panels in-house
• Standardization of Adult/Pediatrics orders and bone marrow process

• PIs on extramural grants or editorial boards: 11
• Number of Patents: 2

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT): $961,465.65
• Total Federal Funding (Direct + Indirect):
  NIH – $960,465.65
  DOD – $0
  Other – NIH/INBRE: $1000
• Total Non-Federal Funding (Direct + Indirect): $140,566.00
  AHA – $0
  NSF – $0
  Other – Movenbe/PCF Foundation: $2,300 $138,266

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Research Name – The role of cholesteryl esters in hepatocellular carcinoma (HCC)
  • Funding Amount – $6,000
  • Funding Source – Department of Pathology and a third party
• Research Name – Early biomarkers for AD and PD
  • Funding Amount – $100,000
  • Funding Source – MIND center

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• R01 funded on KLF11 mediated Alcohol induced MAO increase and brain cell death: Published in JAMA Psychology, Neuropsychopharmacology
• Established isogenic and iPS cell generation and culture
• Submitted 2 patents application on early biomarker studies.
• Completed the first year course of “integrate residents to basic research”
• Completed the replacement of real-time RT-PCR and cell counting imaging system
• Service as organizing committee member, section chair, and keynote speaker at international conferences
• Participation in resident research training activities
• Trained residents, summer students, and research fellows
• Completed three lectures in NSCI701 of the Neuroscience program for graduate studies
• Dr. Lakshmi Nair, PGY2, has coauthored a basic science article with Dr. Liu, accepted for publication, arising from this initiative.

Developments:
• Generated data on lipid metabolism on prostate cancer, hepatocellular carcinoma and colorectal cancer, that will be used in applications of extramural grants
• AD and PD in the dish
• ApoE isogenic iPS cell bank in AD cohort in Mississippi
• AD and PD early biomarkers screen in Mississippi cohort
• Establishing an interdepartmental residents research training course
• Lab effort focused on performing current research work. While intellectually, the lab is preparing for developing/expanding research scope in future.

Challenges:
• Bridge money to generate more solid data for grant application
• Obtain human plasma samples to generate preliminary data for early biomarkers study
• Recruit experienced researchers and establish research teams.
• Encourage residents’ interest in research through emphasizing the importance for their future career development.

ADMINISTRATION
FACULTY IN EACH DIVISION
Anatomic Pathology
• James Neill, MD (Director)
• Kristen Adams, MD
• Youssef Al Hmada, MD (Assistant Director)
• Timothy Craig Allen, MD, J.D.
• William Daley, MD
• Jack Lewin, MBBCh, M Med (Path), F Path
• Varsha Manucha, MD
• Veena Shenoy, MD
• Charu Subramony, MD
• Israh Akhtar, MD

Clinical Pathology
• Lisa Stempak, MD (Director of Clinical Pathology)
• Thomas Dennis, PhD
• Patrick Kyle, PhD
• Venkat Mannam, MBBS, PhD, MS
• John Lam, MD
• Sarika Jain, MBBS, MD

Molecular Pathology
• Sarika Jain, MBBS, MD (Director)

Pathology Research
• Junming Wang, PhD (Director)
• Xinchun Zhou, PhD
• Christian Gomez, PhD
• Federico Gonzalez-Fernandez, MD, PhD
• Jesus Monico, PhD, MPH
• Xiu Liu, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
• William P. Daley, MD, Chair
• Jack Lewin, MBBCh, M.Med(Path), F Path
• Charu Subramony, MD
• Israh Akhtar, MD
• James Neill, MD
• John Lam, MD
• Patrick Kyle, PhD
• Junming Wang, PhD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
• Timothy Craig Allen, MD, J.D., Chair, Medical Director Clinical Laboratories, Medical Director Batson Laboratories
• Veena Shenoy, MD, Residency Director
• Sarika Jain, MBBS, MD, Director of Molecular Pathology
• Angelina Knott, MS, CPC, Department Business Administrator
• James Neill, MD, Director Anatomic Pathology
• Kathy Shields, MHS, MT (ASCP), Administrative Laboratory Director
• Lisa Stempak, MD, Director of Clinical Pathology
• Robin Suggs, MBA, Project Manager II
• Junming Wang, PhD, Director of Research
• Britt Crewse, COO, University Adult Hospitals
• Ellen Hansen, COO, Batson Hospital
• Delois Felder, Supervisor of Business Operations
• Carolyn Jimerson, Education Administrator, Medical Students
• Pat Johnson, Administrative Assistant II
• Hollie Thomas, Education Administrator, Residents
• Mirna Vargas, Department Manager Lab Services
• Dianne Grunes, Associate Residency Director
• Youssef Al Hmada, MD, Assistant Director of Anatomic Pathology
DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

UMMC Committee Name, number of department faculty serving
- UMMC Radiation and Laser Safety Committee – 1
- UMMC Pharmacy and Therapeutics Committee – 1
- UMMC Opioid Task Force – 1
- UMMC Faculty Senate – 1
- Council of Clinical Chairs – 2
- UMMC Executive committee – 2
- Ambulatory Committee – 2
- Medical Executive Committee – 2
- UMMC Cancer Institute Board of Directors – 2
- UMMC Cancer Institute Scientific Leadership Council – 2

NON-GRANT DEVELOPMENTS: XX

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Professionalism
  Continuing to build a culture of professionalism and clear communication
  - Professionalism Faculty Survey administered and evaluated by Dr. Ralph Didlake and Penni Foster
  - Professionalism lectures presented by Dr. Ralph Didlake
    Faculty – June 19, 2019
    Residents – August 2, 2019
- Recruited Dr. Sara Johnston, Transfusion Medicine faculty
- Grow current faculty to develop a national presence
  - November 1 – Phillip T. Cagle, MD, Editor in Chief, Archives of Pathology and Laboratory Medicine became affiliate faculty

Development:
- The next “Molecular Pathology Library Series”, published by Springer. The first book has been commissioned and Dr. Genevieve Crane at Cornell will be editing a Series book on the Molecular Pathology of Large B-cell Lymphoma.
- Archives of Pathology and Laboratory Medicine publication is housed at University of Mississippi Medical Center
- Communication, culture change; and promoting diversity and inclusion
  - AP DMT conference talk at CAP ’18
  - “The Dream of Diversity—Increasing the African-American Presence in Pathology” by Angelina Knott, Robin Suggs, and Dr. Timothy Allen featured in the January 2019 issue of The Pathologist

Development:
- Continue to expand the pathologist’s involvement in the patient care team
  - Several team collaborations have been formed and are meeting to discuss efficiency workflow methods
    - Pulmonary/Pathology conference
    - Surgery/Pathology coordination Meetings
- Patient-centered Diagnostic Management teams
- Increasing medical student involvement in Pathology
  - 10 students have observed autopsies this year
  - Pathology student group (PSG) began October 2018
- VA Medical Center and Pathology collaboration
- Meeting our Neuropathology needs
  - Collaboration with The Ohio State University Pathology Department
- Identifying and establishing a Molecular Pathology Laboratory
- Establishing a paperless initiative; it has three current applications.
  - Intraoperative consultations
  - Specimen requisitions
  - Decedent tracking
- Finalize the development of the flow cytometry laboratory
- Standardizing the faculty expectations of resident training
- Establishing a UMMC system wide Pathology service
  - Dr. Timothy Allen became the Medical Director for Batson Laboratory
- Forthcoming UMMC Special section in the Archives of Pathology and Laboratory Medicine journal featuring article submissions from UMMC Pathology faculty, residents, fellows and other UMMC colleagues
• Develop and expand the department’s research team presence
  o Resident/Basic Science Researcher team education collaboration began 2018 to develop the residents’ understanding of basic science research and to expose the residents to the researchers’ critical thinking skills.

*Challenges:*
• Recruiting faculty for the subspecialties of neuropathology, gastrointestinal pathology, microbiology, and cytogenetics
• Involvement of a more diverse faculty in medical student teaching
• Consider ways to recruit and retain exceptional basic science faculty
• In coordination with UMMC administration, set up meetings with local and regional hospital and clinic leaders to discuss performing their laboratory services to increase volume
LEADERSHIP ROLES

- Mary B. Taylor, MD, Chair of Pediatrics
- Gail Megason, MD, Executive Vice-Chair for Pediatrics
- Jeffrey Crout, MD, Vice Chair for Pediatric Education
- Colette Parker, MD, Vice Chair for Pediatric Clinical Quality
- Betsy Herrington, MD, Vice Chair for Pediatric Faculty Development
- Robert Annett, PhD, Vice Chair for Pediatric Research
- Sajani Tipnis, MD, Assistant Dean for SOM Curriculum
- Joseph Marc Majure, MD, Assistant Dean for Graduate Medical Education
- John Brad Ingram, MD, Assistant Dean for Graduate Medical Education
- Phyllis Bishop, MD, Chief Quality Officer for UHHS
- Lisa Didion, MD, Associate Chief Quality Officer for Batson Children's Hospital
- Anne Yates, MD, Chief of Pediatric Allergy and Immunology
- William Moskowitz, MD, Chief of Pediatric Cardiology
- Barbara Saunders, DO, Chief of Child Development and Behavior Medicine
- Jarrod Knudson, MD, Chief of Pediatric Critical Care
- Benjamin Dillard, MD Chief of Pediatric Emergency Medicine
- Naznin Dixit, MD, Chief of Pediatric Endocrinology
- Scott Benton, MD, Chief of Pediatric Forensic Science
- Phyllis Bishop, MD, Interim Chief of Pediatric Gastroenterology
- Jeffrey Crout, MD, Chief of General Pediatrics
- Brian Kirmse, MD, Chief of Genetics
- Anderson Collier, MD, Chief of Pediatric Hematology/Oncology
- April Palmer, MD, Chief of Pediatric Infectious Disease
- Renate Savich, MD, Chief of Neonatology
- Mehul Dixit, MD, Chief of Pediatric Nephrology
- Colette Parker, MD, Chief of Child Neurology
- Christian Paine, MD, Chief of Palliative Medicine
- Joseph (Marc) Majure, MD, Chief of Pulmonary and Sleep Medicine
- Charles Spencer, MD, Chief of Pediatric Rheumatology
- PED 653 Neonatal Medicine
- PED 654 Child Development Clinic
- PED 655 Pediatric Cardiology
- PED 656 Pediatric Hematology-Oncology
- PED 657 Pediatric Endocrinology
- PED 658 Pediatric Neurology
- PED 659 Pediatric Allergy-Immunology
- PED 660 Pediatric Gastroenterology
- PED 662 Special Pediatrics
- PED 663 Pediatric Infectious Diseases
- PED 664 Pediatric Nephrology
- PED 665 Pediatric Emergency Medicine
- PED 666 Pediatric Rheumatology
- PED 668 Pediatric ICU
- PED 672 Pediatric Hospitalist Service
- PED 673 Pediatric Pulmonology
- PED 674 Pediatric Palliative Care
- PED 675 Pediatric Interventional Cardiology
- PED 851 Pediatric External Rotation

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
- Program – 77
- Pediatric Residency – 48
- Fellowship – 29

Accreditation status
- Program: Full
- Residency: Full
- Fellowship: Full

Board pass rate
- Program: Pediatrics
- Residency: 89%
- Fellowship: 80%

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 1
- PED 631 Junior Pediatrics

Number of elective courses taught in the SOM: 25 courses
- PED 632 Child Development
- PED 633 Pediatric Gastroenterology
- PED 636 Pediatric Allergy-Immunology
- PED 637 Pediatric Neurology
- PED 651 Pediatric Ambulatory Care
- PED 652 Pediatric Externship

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Nelson Order
  - Brad Ingram, MD
  - Tarif Bakdash, MD
- Evers Society Hall of Fame
  - Jeff Crout, MD
  - Lisa Didion, MD
  - Kim Paduda, MD
  - Will Sorey, MD
  - Kathryn Schneider, MD
- M3 All Star Professor
- M3 All Star Attending
- Sue Phillips, MD
- M4 All Star Professor
- Michael Nowicki, MD
- SOM-T railblazer Award
- Kim Paduda, MD
Developments:

- Core Pediatric program expanded to 50 positions
- Cardiology fellowship expanded to 6 positions
- Graduated first group of fellows in Pediatric Emergency Medicine
- New Associate Fellowship Directors in Pediatric Hematology and Pediatric Emergency Medicine are Catherine Gordon, MD and Matthew Maready, MD
- Matched 16 new categorical pediatric interns and 5 new Pediatric Medicine interns

Challenges:

As the only Children’s Hospital in Mississippi, the Pediatrics department is tasked with educating many learners from outside of the department which present space and faculty challenges. Some of the non-Pediatric Department students, residents, and fellows include within UMMC:

- Adult ED residents
- Anesthesiology residents
- Family Medicine residents
- Nurse Practitioners (PNP, FNP, NNP, CCNP)
- Med Peds residents (faculty is in the Department of Internal Medicine)
- Adult Neurology residents
- M2’s, M3’s, M4’s
- Adult Congenital Heart fellow

Outside learners include:

- Merit Health Adult Emergency Medicine residents
- Visiting Medical Students
- Mississippi College PA Students
- Adult Emergency Medicine in Corinth

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:

- Member of Hospital of Solutions for Patient Safety
- Increased ICARE reporting and instituted a standardized, multidisciplinary review of events
- Launched standardized pressure injury prevention bundle
- Hand hygiene compliance at goal in 11/12 months

Quality:

- Reduced hospital acquired infections
- PICU standardized mortality ratio at network average when compared to other hospitals within Virtual Pediatric Systems network
- Improvement in NICU mortality
- Reduction in NICU late-onset bacterial infections

Clinical accomplishments, developments, or challenges

Accomplishments:

- Addition of Pediatric Psychology consulting service
- Opening of Pediatric Fast Track for low acuity pediatric emergency department visits
- Pediatric Emergency “left without being seen” rate below national average
- Identified medical directors for each unit within Children’s Hospital
- New multidisciplinary clinic space for Center for Advancing Youth (CAY) resulting in improved access and increased volumes

Developments:

- Safety Coach Program
- Increasing outreach throughout the state in ambulatory and hospital settings
- One Number referral system to improve efficiency and referring provider experience during the transfer/admission process

Challenges:

- Limited ambulatory space to add additional clinics

Research

Faculty scholarly productivity

Faculty with primary appointments: 152
- Articles in peer-reviewed journals: 97
- Books published: 0
- Book chapters published: 0
- Members of national study sections or committees: 6
- Editorial Positions: 15
- Members of editorial boards: 12
- Faculty with active leadership role in a medical organization or reviewer/editorial board member: 55
- Ad hoc Reviewers: 13
- Number of Abstracts: 154
- Conference presentations: 154
- Patient Education Projects: 57
- Number of grants with Faculty in leadership role: 60

Total extramural funding (direct + indirect):

- Total Federal Funding (Direct + Indirect): $9,349,829
  - DOJ – $901,908
  - NIH – $2,204,749
  - HRSA – $4,977,907
  - DHHS – $581,677
  - CDC – $593,589
  - DEPT. ED – $90,000

- Total Non-Federal Funding (Direct + Indirect): $2,606,106
  - Industry: $1,931,000
  - Other: $675,106

Total intramural funding (IRSP, FSE, etc.): $140,000
RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH

- **Research Name – Departmental Research**
- **Funding Amount – $1,796,010**
- **Funding Source – Department of Pediatrics**

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

*Accomplishments:*

Dr. Robert Annett and Dr. Marc Majure (co-principal investigators) continue to receive NIH funding for the IDeA States Pediatric Clinical Trials Network (ISPCTN) in Mississippi. This award will provide infrastructure support for implementing clinical trials in pediatric diseases of the airway, obesity, perinatal, and neurodevelopmental disorders. **Total award: $1.9 million.**

Dr. Dustin Sarver received funding from SAMHSA for MS BeHIP (MS Behavioral Health in Infants and Preschoolers). This award will help provide mental health services to improve outcomes for children from birth to 12 years of age. **Total award: $5 million.**

Dr. Robert Annett received supplemental funding for specialized recruitment of minority participants for the Simons Foundation Autism Research Initiative (SFARI). SPARK (Simons Foundation Powering Autism Research for Knowledge) is an initiative combining web-based registry with DNA analysis to accelerate autism research. **Total award: $50,000.**

Dr. Susan Buttross (co-PI with Linda Southward, PhD, MSU, SSRC) has received funding continuation from DHHS/HRSA titled “Early Childhood Developmental Health System: Implementation in a High Need State.” This program will implement statewide developmental screening for children under 5 years of age. **Total award: $13 million.**

A two-day summit took place at the MS Civil Rights Museum hosted by Mississippi Thrive! Child Health and Development Partnership, a UMMC and MSU project funded by a $10.5 million HRSA grant.

Dr. Dustin Sarver maintains support for a DHHS/HRSA sponsored workforce development award titled “MAGNOLIA: Expanding Mississippi’s Behavioral Workforce for Children and Families.” This is a behavioral health workforce development program designed to increase pediatric mental health care providers in Mississippi. **Total award: $83,000.**

Dr. Charlotte Hobbs and a UMMC multidisciplinary team is conducting the Mississippi Parasite Project with funding from the CDC. This project aims to answer the question whether local hookworm transmission still occurs in MS and the prevalence of hookworm infection in children living in high-risk areas of Mississippi. **Total award: $500,000.**

Dr. Dustin Sarver received continued funding from the Mississippi Council on Developmental Disabilities to support the program "PCIT to Treat Behavioral Problems in Children with Neurodevelopmental Disabilities." **Total award: $80,000.**

Dr. Renate Savich is the Principal Investigator (co-I Brian Kirmse) for the NIH Study “SouthSeq: Whole Genome Sequencing in Neonates in the Deep South” This is a $580,000 award over 4 years and is in collaboration with the University of Alabama at Birmingham and HudsonAlpha Genetic Research Center in Huntsville, Alabama.

Dr. Melissa McNaull received continued funding for the HUG KISS Study in conjunction with St. Jude Children's Hospital, studying "Hydroxyurea Management in Kids: Intensive vs. Stable" totaling over $134,000. She also was awarded NIH funds of $30,000 for the clinical trial – DISPLACE Study for Dissemination and Implementation of Stroke Prevention. Additionally, she received continued support from HRSA for educating Pediatrics about Sickle Cell totaling over $56,000.

HRSA continued support of Dr. Binford Nash, Jr. over $200,000 in his study, Ryan White HIV/AIDS Program, Part D grant: Women, Infants, Children, and Youth (WICY). In cooperation with the University of Alabama, he also received almost $82,000 for his study titled “Improving Retention in Care Among Postpartum HIV-Infected.”

HRSA also awarded Dr. Colette Parker over $50,000 for her study, “Pediatric Neurology Epilepsy Case Management.”

There is ongoing operation, under the leadership of Dr. Scott Benton, of the Mississippi Children’s Justice Fund with an award of $1.3 million.

Dr. Mobolaji Famuyide received funding from the Kellogg Foundation for “Mother’s Milk for Very Low Birth Weight Infants” totaling over $1.1 million.

The Centers for Disease Control continued funding more than $65,000 to Dr. Kara Driver to be the Neonatology Clinical Lead.

NIH funded Dr. Lir-Wan Fan over $359,000 for research in “Early life brain inflammation and vulnerability to neurodegenerative diseases in late life.”
**Developments:**

The Office of Clinical Trials has been developed to help UMMC researchers through the award process from submission to closeout.

UMMC IRB office has established an IRB Reliance manager position to expedite external IRB acknowledgments.

A process for scientific review within the department has been initiated for all human subject studies going for IRB review.

The “Pediatric Update” monthly electronic newsletter keeps the department up to date on all applicable news including research.

Biostatistical support continues at 20% effort.

Increase in presentations at the regional/national conferences by pediatric residents and fellows (e.g., Pediatric Academic Society meeting).

Increase in industry-sponsored research initiatives. Many more industry-sponsored trials are ready to start.

Updated the Pediatric Research website as a resource for both Researchers and Learners. It includes departmental funding opportunities and links to applicable UMMC departments, as well as commonly used outside organizations.

In addition to contributing to the success of the Department Discovery Retreat, Pediatric Discovery Council performed the following essential tasks:

- Awarded two Rhodes-Cai Research Award to the following faculty members:
  - Dr. Jagdish Desai: “PIP (Perfusion in Preterm Infants) Study: Role of Perfusion Index (PI) and Pleth Variability Index (PVI) in the Management of Hypotension in Preterm Infants”
  - Dr. Jaimin Patel: “Evolution of the Microbiome in Extremely low birth weight neonates”
- Awarded a Feldman Research Award to the following Fellow:
  - Dr. Marco Loayza: “Innovative, reproducible, and clinically relevant mouse model of white matter damage in very low birth”
- Pediatric Discovery Council was expanded to improve representations by more divisions and informative presentations relevant to the research community.

**Challenges:**

Within the Department of Pediatrics, research continues to be challenging, much like other children’s hospital settings. The most significant challenges for the department remain supporting and growing faculty research activities.

While the ISPCTN provides some impetus, other supports for pediatric faculty include increased access to biostatistical support and improving the quality of investigator-initiated human subject research. The overall shortage of clinical researchers (as reflected by low research FTE) can be enhanced through a team science approach that builds upon existing research relationships and initiates new research collaborations with faculty from basic science programs. We acknowledge the difficulty of creating a team science culture due to the high level of clinical care required of faculty.

The department will continue to require support from the state and private donations to support team research activities.

We are working with the developmental office on this specific matter. We have been searching for innovative ways to solve these problems.

We also acknowledge barriers to research participation at both the state and local level. Through Community advisory boards and outreach, we are aiming to increase trust and engage the medically underserved and rural communities we serve.

Our faculty is partnering with newly developed resources, including UMMC’s Clinical Research Support Program (CRSP) to improve our infrastructure to perform industry-sponsored trials, particularly those requiring round the clock enrollment.

Our faculty continues to work with Dr. Richard Summers, Vice Chancellor of Research and CRSP to find innovative, cost-effective solutions to improve both research nurse and pharmacy support.

**ADMINISTRATION**

**FACULTY IN EACH DIVISION**

**Allergy/Immunology**
- Anne B. Yates, MD
- Nina Dave, MD
- Linda Schmitz, MD

**Cardiology**
- William Moskowitz, MD
- Makram Ebeid, MD
- Charles H. Gaymes, MD
- Avichal Aggarwal, MD
- Jennifer Shores, MD
- Aimee Parnell, MD
- Divya Shakti, MD
- Onyekachukwu Osakwe, MD
- Frank Osei, MD
- Khyati Pandya, MD
- Scott Simpson, MD
- Brad Troutman, MD

**Child Development**
- Barbara Saunders, DO
• Robert Annett, PhD
• Susan Buttross, MD
• Donald J. Raggio, PhD
• Dorothy Scattone, PhD
• Monica Sutton, PhD
• Twila W. Rawson, PhD
• Cindy Field, MD
• Dustin Sarver, PhD
• Julia Sherwood, MD

**Critical Care**
• Mary Taylor, MD
• Jarrod Knudson, MD, PhD
• Elizabeth A. Christ, MD
• Craig Hallstrom, MD
• Jennifer Hong, MD
• Sandeep Arya, MD
• Viswanath Gajula, MD
• Padma Garg, MD
• Lisa-Gaye Thomas, MD
• Christopher Jenks, MD
• Laura Wright-Sexton, MD
• Melody Byram, MD

**Emergency Medicine**
• Benjamin Dillard, MD
• Taysr Abusaa, MD
• Catherine Faulk, MD
• Nan Frascogna, MD
• Thomas Walker, MD
• Puja Craddock, MD
• Matt Maready, MD
• Justin Davis, MD
• Eunem Aitken, MD
• Michael Foster, MD
• Justin Qualls, MD
• Bonnie Woodall, MD

**Endocrinology**
• Naznin M. Dixit, MD
• Simeen R. Pasha, MD
• Kemal Topaloglu, MD
• Sara Silver, DO
• Anju Sukumaran, MD

**Forensic Medicine**
• Scott Benton, MD
• Beth Brownlee, MD

**Gastroenterology**
• Phyllis Bishop, MD
• Michael Nowicki, MD
• Hua Liu, PhD

**General Pediatrics**
• Jeffrey Coutu, MD
• Kim Padula MD
• Lisa Didion, MD
• Kathryn Schneider, MD
• Claire Gilliam, MD
• David Gilliam, MD
• Austin Harrison, MD
• Sue Phillips, MD
• Jillian Marcelo, MD
• William H. Sorey, MD
• Tami H. Brooks, MD
• Ivonne Galarza, MD
• Sara J. Weisenberger, MD
• Sara Emily Clark, MD
• Sarah Jones, MD
• Elizabeth McKey, MD
• James Purvis, MD
• Anza Stanley, MD
• Kathryn Thomas, MD
• Amber “Bailey” Googe, MD
• Christie Schroll, MD
• Brandi Coleman-Williams, MD
• Cathie Donald, MD
• Kas Grant, MD
• Maureen Holland, MD
• Richard McCrary, MD

**Genetics**
• Brian Kirmse, MD
• Valerie Wattrick, MD
• Mauricio De Castro, MD
• Emily Boothe, CGC
• Laura Hendon, CGC
• Leah Olewiler, CGC
• Erin McCown, GC

**Hematology/Oncology**
• Anderson Collier, MD

**Infectious Disease**
• April L. Palmer, MD
• Charlotte Hobbs, MD
• Betsy Herrington, MD

**Neonatology**
• Renate Savich, MD
• Abhay Bhatt, MD
• Mary Anne Kosek, MD
• Norma Ojeda, MD
• Sajani Tins, MD
• Pradeep Alur, MD
• Mobolaji Famuyide, MD
• Anjali Klar, MD
• Simon Karam, MD
• Billy Mink, MD
• Jaimin Patel, MD
• Li-Wan Fan, PhD
• Yi Pang, PhD
• Radha Alur, MD
• Sara Brewer, DO
• Jagdish Desai, MD
• Kara Driver, MD
• Parvesh Garg, MD
• Marla Johnson, MD
• Renjith Kalikkot, MD
• Rebeca Moore, MD
• Sumana Ramarao, MD
• Lauren Tucker, MD
• Laura Freeman, CNNP
• Penni Lowrey, CNNP
• Lisa Schell, CNNP
• Tanya Willis, CNNP

**Neurology**
• Mehul P. Dixit, MD
• Istvan Arany, PhD

**Nephrology**
• Sabahat Afshan, MD
Department of Pediatrics

Neurology
- Colette C. Parker, MD
- John Brad Ingram, MD
- Sara Conerly-Sham, MD
- Lamar Davis, MD
- Ameze Ero, MD
- Marcus Lee, MD
- Kim McDonald, MD
- Riddhiben Patel, MD
- Ashley Stanley-Copeland, MD
- Muhammad Ubaidulhaq, MD
- Teresa Hill, BSN

Palliative Medicine
- Charles Paine, MD
- Andrew Hayslett, MD
- Lauren Rowe-Hobbs, MD

Pulmonary Medicine
- Joseph Marc Majure, MD
- David Josey, MD
- Rosalyn Walker, MD
- Oscar Rodriguez, MD

Rheumatology
- Charles Spencer, MD
- Linda I. Ray, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Betsy Herrington, MD (chair)
- Pradeep Alur, MD
- Joseph Marc Majure, MD
- Elizabeth Christ, MD
- Jeffrey Crout, MD
- Jennifer Hong, MD
- Norma Ojeda, MD
- Kathryn Schneider, MD
- Charles Spencer, MD
- Sajani, Tipnis, MD

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
- Shannon Hoover, Associate Director of Administration and Finance
- Shanda Barrett, Manager Business Operations
- Selena Daniel, Division Business Administrator
- Louise Dove, Project Manager I
- Courtney Elmore, Sr. Financial Analyst
- Katie Sanders, Division Business Administrator

- Prevent Child Abuse of Mississippi
- Purple Chic Hollywood Benefit Gala
- Ronald McDonald House
- RunUP for Downs
- Ryan Man Triathlon
- Samaritan’s Purse
- Sanderson Farms Golf Tournament
- Sickle Cell Adolescent Camp
- Sickle Cell Camp
- St. Paddy’s 5K
- Strong River Camp and Farm
- Sunkist Swim Team
- Twin Lakes Summer Camp
- TenWek Hospital, Kenya, Africa
- UMMC School of Medicine
- Walk to End Epilepsy
- Youth Villages
- Zebra Run on the Coast

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: The department of pediatrics along with the Office of Development, Friends of Children’s Hospital and other key community supporters successfully led fundraising efforts towards $120 million for Children’s expansion with over $75 million pledged. The expansion celebrated halfway build in June 2019.

In addition to this major fundraiser, divisions and centers within the department continued to thrive with donors.

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
The department of pediatrics bolstered faculty moral with an unprecedented retention rate and above national scores in every category of a recent AAMC survey. Twenty-one faculty members joined our department.
this academic year. Pediatrics continued to increase revenues and control expenses resulting in a successful budget year.

Development:
- Planning the transition to the Children's expansion
- Ongoing establishment of statewide presence via subspecialties in six locations and hospital affiliations agreements

Challenges:
- Strategic hiring for new Children's expansion
LEADERSHIP ROLES
- Dr. Richard J. Roman, Department Chair
- Dr. Stanley Smith (Chair)
- Dr. Jan M. Williams
- Dr. Jian-Xiong Chen
- Dr. Jennifer Sasser
- Dr. Sean Didion

Professional Education Committee (Medical, Dental)
- Dr. Stanley Smith (Chair)
- Dr. Jan M. Williams
- Dr. Jian-Xiong Chen
- Dr. Jennifer Sasser
- Dr. Sean Didion

Graduate Program Committee (Admissions, Welfare, Curriculum)
- Dr. Jan Williams (Chair)
- Dr. George Booz
- Dr. Jia-Long Zhuo
- Dr. Jan M. Williams
- Dr. Michael Garrett
- Dr. Fan Fan

Medical Course Directors
- Dr. Stan Smith

Associate Director
- Dr. Jan Williams

Dental Course Director
- Dr. Stanley Smith

Associate Director
- Dr. Jian-xiong Chen

Graduate Program Director
- Dr. Jan Williams

Journal Club Director
- Dr. Fan Fan

Seminar Program Director
- Dr. Mallikarjuna Pabbidi
- Dr. Fan Fan

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program – N/A

Residency – N/A
Fellowship – N/A

Accreditation status
Program: N/A
Residency: N/A
Fellowship: N/A

Board pass rate
Program: N/A
Residency: N/A
Fellowship: N/A

Number of graduate students:
12 PhD, 4 MD, PhD

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 1

Required courses/clerkships:
- PHARM 620 Introduction to Pharmacology and Toxicology

Number of elective courses/clerkships taught in the SOM: 1

Elective courses/clerkships:
- PHARM 652A Pharmacology

Number of course or co-course directors: 2
Number of program or associate program directors: NA

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Dr. Smith received recognition as 2-year All Star professor.
- Dr. Duhe received recognition for M2 Basic Science Professor of Year, The Carl G. Evers, MD, Society.
- Pharmacology faculty was named Basic Science Department of the Year 2018–2019.

- Very complementary Evers report on the organization of the Medical Pharmacology Course and the professionalism of the faculty.
- Three PhD Students and 4 MD, PhD students passed their preliminary exams and advanced to candidacy.
- Graduate Students and Postdoctoral fellows received numerous awards at National meetings.
  - Meredith Cobb
    - 2018 Kidney Stars Program
    - 2018 ASN Kidney TREKS
    - 2018 ASB President’s Award
    - 2019 The Jackson Fund Scholarship for McKusick Short Course on Mammalian Genetics and Genomics
    - 2019 Appointed to APS Science Policy committee as trainee member
  - Ezekiel Gonzalez-Fernandez
    - 2018 ASB President’s Award
    - CCRC-AUPN Travel Award
  - Kenji Maeda
    - 2018 Elected APS WEH Section TAC Subcommittee
    - 2019 UMMC GWIMS Certificate of Appreciation
    - 2019 Excellence in Experimental Therapeutics and Pharmacology Graduate Student Award
    - 2019 Associated Student Body 2018–2019 LEADERSHIP Award – Student Research Award
  - Sumit Sontakke
    - 2018 Travel Award, APS Sex and gender conference
  - Olivia Travis
    - 2018 UMMC Graduate Research Day Poster Award
    - 2018 Phi Kappa Phi Inductee

- Meredith Cobb
  - 2018 Kidney Stars Program
  - 2018 ASN Kidney TREKS
  - 2018 ASB President’s Award
  - 2019 The Jackson Fund Scholarship for McKusick Short Course on Mammalian Genetics and Genomics
  - 2019 Appointed to APS Science Policy committee as trainee member

- Ezekiel Gonzalez-Fernandez
  - 2018 ASB President’s Award
  - CCRC-AUPN Travel Award

- Kenji Maeda
  - 2018 Elected APS WEH Section TAC Subcommittee
  - 2019 UMMC GWIMS Certificate of Appreciation
  - 2019 Excellence in Experimental Therapeutics and Pharmacology Graduate Student Award
  - 2019 Associated Student Body 2018–2019 LEADERSHIP Award – Student Research Award

- Sumit Sontakke
  - 2018 Travel Award, APS Sex and gender conference

- Olivia Travis
  - 2018 UMMC Graduate Research Day Poster Award
  - 2018 Phi Kappa Phi Inductee
Developments:
- Dr. Williams took over as director of the Graduate Program replacing Dr. Sasser that served for four years with distinction.

Challenges:
- It is difficult to engage students to participate in small group case studies and other exercises.
- Small group teaching is very faculty intensive and requires engagement of our entire faculty, graduate students and postdocs on repeated sessions given the large class size.

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 19
- Articles in peer-reviewed journals: 101
  - Books published: 0
  - Books chapters published: 0
  - Members of national study sections or national or international committees: 15
  - Journal editors, associate editors: 3
  - Editorial boards: 37
- PIs on extramural on grants: 14 faculty: 20 grants
- Number of Patents disclosures: 1

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Funding (Direct + Indirect): $7,923,320.98
  - NIH – $5,814,431.19
  - DOD – $310,000.00
  - Other – $0
- Total Non-Federal Funding (Direct + Indirect):
  - AHA – $382,000.00
  - NSF – $0
  - Other – $1,416,889.79 (Industry sponsored grants)

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
- IRSP – $30,000.00
- FSE – $0
- Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Research Name – Departmental Research Enhancement support. The department funded 5 projects in the amount of $183,907.73 from the department reserve funds.

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- New RO1 funding: Drs Garrett, Zhuo, Fan
- New NIH Core grants and COBRE funding: Garrett, Fan, Amaral
- New AHA Scientist Development Awards: Drs. Amaral, Cunningham

Overall; 14 PIs, 3 Co-I, 20 extramural grants.

Developments:
- Ongoing Recruitment of 2 faculty members with funded research programs in stroke or neurodegenerative diseases to work with the Neuroscience and Mind Centers.
- Recruit additional Faculty in conjunction with the Mind Center.
- Recruit a Clinical Pharmacologist

Challenges:
- Success of the faculty to enhance the research program has outstripped our space, equipment and infrastructure.
- Need to consolidate our research operations into a single location for efficiency.
- Need to relocate our departmental office staff into the same building as our faculty and their labs.
- Renovate all the labs and offices in the research wing (60 years old)
- Increase support for core facilities and shared equipment
- Renovate 8 floor LAF facilities.
- Need additional support for grants management and secretarial support.

ADMINISTRATION

FACULTY IN EACH DIVISION
- Richard J. Roman, PhD
- George Booz, PhD
- Jian-Xiong Chen, MD, M.S
- Sean Didion, PhD
- Roy Duhe, PhD
- Fan Fan, MD, MS
- Michael Garrett, PhD
- Sydney Murphy, PhD
- Robin Rockhold, PhD
- Jennifer Sasser, PhD
- Stanley Smith, PhD
- Jan M. Williams, PhD
- Jia-Long Zhuo, PhD
- Yin-Yuan Mo, PhD
- Babbette Lamarca, PhD

Department of Pharmacology and Toxicology
MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Babbette Lamarca (Chair)
- Jan Michael Williams
- Roy J. Duhe
- Yin-Yuan Mo
- Jia L. Zhuo

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Kevin Wilbert, Director of Operations
- Marilyn McCarthy, Program Administrator
- Sparkle Robinson, Administrator Assistant IV

NON-GRA NT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development:
Amount:

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Hired Sparkle Robinson to manage purchasing and property management
- Trained all Faculty and Laboratory staff to use our internal departmental purchasing software and tracking system

Development:
- Develop a new grants and accounts management and reporting system to replace Lawson.

Challenges:
- Train faculty and staff to use Workday of HR management.

Need additional staff to help prepare and submit grants, progress reports and manuscripts.
LEADERSHIP ROLES

- John E. Hall, PhD, Department Chair
- Thomas H. Adair, PhD, Director, Dental Physiology 625/Fundamental Physiology 725
- John E. Hall, PhD, Director, Medical Physiology 611/701; Physiology Senior Elective 651

Medical Research Scholar’s Program (MSRP):
- Heather A. Drummond, PhD, Committee Co-Chair

Physiology Graduate Program Committee:
- Michael J. Ryan, PhD, Program Director
- Alejandro Chade, MD, Assistant Director
- Thomas H. Adair, PhD
- Barbara Alexander, PhD
- Heather A. Drummond, PhD
- Eric George, PhD
- Joey P. Granger, PhD
- John E. Hall, PhD
- Romain Harmancy, PhD
- Robert L. Hester, PhD
- Michael J. Ryan, PhD
- David E. Stec, PhD

Physiology Seminar Program Director:
- Joshua Speed, PhD

Research Center Directors:
- Joey P. Granger, PhD, Director, Cardiovascular-Renal Research Center; Director, Mississippi Center for Clinical and Translational Research (MCCTR)
- John E. Hall, PhD, Director, Mississippi Center for Obesity Research; Director, Cardiorenal and Metabolic Diseases Research Center
- Robert L. Hester, PhD, Director, Center for Computational Medicine

Research Core Directors:
- Barbara Alexander, PhD, Director, Physiology Analytical and Assay Core
- Jussara do Carmo, PhD, Director, Metabolic Phenotyping Core
- Heather A. Drummond, PhD, Director, Confocal Microscope Core; Director, Histology Core
- John E. Hall, PhD, Director, Professional Development Core, Mississippi Center for Clinical and Translational Research (MCCTR)
- Robert L. Hester, PhD, Director, Computer Services Core; Director, Physiological Simulation Core
- David L. Stec, PhD, Director, Transgenic Core
- Michael J. Ryan, PhD, Director, Mentoring Academy, Mississippi Center for Clinical and Translational Research (MCCTR)

University Leadership Positions:
- Joey P. Granger, PhD, Dean, UMMC School of Graduate Studies in the Health Sciences; Vice Chair, UMMC Department of Physiology and Biophysics
- John E. Hall, PhD, Chair, UMMC Department of Physiology and Biophysics
- Robert L. Hester, PhD, Chair, UMMC Department of Data Sciences
- Michael J. Ryan, PhD, Associate Dean, UMMC School of Graduate Studies in the Health Sciences

EDUCATIONAL EFFORT:
Number of required courses/clerkships taught in the SOM: 1
Required courses/clerkships:
- PHYSIO 611 Medical Physiology

Number of elective courses/clerkships taught in the SOM: 1
Elective courses/clerkships:
- PHYSIO 651 Physiology Senior Elective

Number of course or co-course directors: 2
Number of program or associate program directors: 1

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Student Awards:
  - Kandice Bailey, APS Martin Frank Diversity Travel Award, Experimental Biology, Orlando, FL, April 2019
  - Elena Dent, Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Award, Experimental Biology, Orlando, FL, April 2019
  - Jason Engel, Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Award, Experimental Biology, Orlando, FL, April 2019
  - Tyler Lomax, APS Martin Frank Diversity Travel Award, Experimental Biology, Orlando, FL, April 2019
  - Tyler Lomax, Top Poster Presentation Award, UMMC School of Graduate Studies in Health Sciences Annual Research Day, Jackson, MS, October 2018
  - Erik Guise Williams, Water & Electrolyte Homeostasis Section Portland

EDUCATION RESIDENCY AND FELLOWSHIP PROGRAMS
Number of postdoctoral fellows: 14 including 6 instructors

GRADUATE PROGRAM:
Number of graduate students: 14
Press Predoctoral Research Recognition Award, Experimental Biology, Orlando, FL, April 2019
- Victoria Wolf, Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Award, Experimental Biology, Orlando, FL, April 2019
- Victoria Wolf, Water & Electrolyte Homeostasis Section Predoctoral Distinction Award, Experimental Biology, Orlando, FL, April 2019

Teaching Awards:
- The Department of Physiology, Basic Science Department of the Year, The Carl G. Evers, MD, Society, selected by medical students of the University of Mississippi Medical Center, 2018–2019
- Thomas Adair, UMMC Norman C. Nelson Order of Teaching Excellence, University of Mississippi Medical Center, May 2019
- Michael Ryan, A. Clifford Barger Underrepresented Minority Mentorship Award, American Physiological Society, April 2019
- Michael Ryan, Beacon Award, 2019 Pillars: Recognition of Service & Inclusive Excellence, Office of Diversity and Inclusion, University of Mississippi Medical Center, January 2019
- Michael Ryan, Mississippi Institute of Higher Learning Excellence in Diversity and Inclusion Award, Institutions of Higher Learning, February 2019
- Michael Ryan, Mississippi Institute of Higher Learning Diversity Educator of the Year, Institutions of Higher Learning, February 2019
- Michael Ryan, UMMC Norman C. Nelson Order of Teaching Excellence, University of Mississippi Medical Center, May 2019
- Michael Ryan, UMMC Regions Bank TEACH Prize, University of Mississippi Medical Center, May 2019

Developments:
- We continue to write several major textbooks for teaching physiology to graduate, medical and dental students, and other healthcare professionals, including the Guyton and Hall Textbook of Medical Physiology, the Guyton and Hall Physiology Review, and the Pocket Companion to Guyton and Hall Textbook of Medical Physiology.
- We continue to develop problem-based exercises and clinical cases in Physiology 611/701 (Medical Physiology) to engage students in active learning and application of physiological principles to clinical problems.
- We continue to recruit the most qualified graduate students to join our PhD program. Students in this program have been excelling in academics and research.
- We continue to improve the quality of education that is provided in our PhD program by reorganizing the curriculum to better accommodate students’ academic needs and research.

Challenges:
- The recently restructured first year medical curriculum is being evaluated for effectiveness, which causes uncertainty and challenges of planning for various aspects of the Medical Physiology course.
- The combined Dental 625/Physiology 725 class size is steadily growing. This will require new strategies to insure adequate opportunities for active learning as well as adjustments in logistics for the course.
- The use of computer simulations to assist students in the application of physiological principles to clinical problems will continue to increase. This poses technical and logistical challenges.

RESEARCH FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointment: 14
- Articles in peer-reviewed journals: 113
- Books and book chapters published: 1
- Members of national study sections: 7 faculty
- Members of national or international committees: 12 faculty on 52 committees
- Journal editors: 5 faculty
- Members of editorial boards: 8 faculty on 43 boards
- PIs on extramural grants: 14 faculty
- Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT): $14,725,666
- Total Federal Funding (Direct + Indirect): $13,864,122
  NIH – $13,803,122
  DOD – $0
  Other – $61,000
- Total Non-Federal Funding (Direct + Indirect): $861,544
  AHA – $575,856
  NSF – $0
  Other – $285,688

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0
- IRSP – $0
- FSE – $0
- Other – $0
RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
Several faculty, postdoctoral fellows and staff in the department received research recognition awards:
• Barbara Alexander, Harriet Dustan Award, AHA Council on Hypertension, September 2018
• Barbara Alexander, UMMC/GWIMS Innovation Award, UMMC Group on Women in Medicine and Science, April 2019
• Bhavisha Bakrania, Juan Carlos Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award, Experimental Biology, Orlando FL, April 2019
• Jessica Bradshaw, Finalist for the Juan Carlos Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award, Experimental Biology, Orlando FL, April 2019
• Eric George, Gold Award, Excellence in Research Awards Ceremony, University of Mississippi Medical Center, October 2018
• Romain Harmancey, Early Career Investigator Award, Excellence in Research Awards Ceremony, University of Mississippi Medical Center, October 2018
• Romain Harmancey, Gold Award, Excellence in Research Awards Ceremony, University of Mississippi Medical Center, October 2018
• Kiran Soni, Top Poster Presentation Award, UMMC School of Graduate Studies in Health Sciences Annual Research Day, Jackson, MS, October 2018
• Haiyan Zhang, Meritorious Research Services Award, Excellence in Research Awards Ceremony, University of Mississippi Medical Center, October 2018

Developments:
• The department continues to develop and maintain several research cores that are used by researchers from multiple departments.
• The department continues to lead 5 research centers and a NIH Center of Biomedical Research Excellence (COBRE) which provides $2.2 million each year for research funding for pilot grants for junior investigators from multiple departments as well as funding for core facilities and equipment used by multiple departments. The competitive renewal application for the COBRE was recently funded for an additional 5 years ($11,625,000 million over 5 years).
• Due to the retirement of Dr. James Wilson, Dr. Joey Granger, Professor of Physiology & Biophysics, has been appointed to lead the Mississippi Center for Clinical and Translational Research (MCCTR) which is funded by the National Institutes of Health’s National Institute of General Medical Sciences (~$19.9 million over 5 years). This center provides resources and infrastructure to support a cadre of clinical investigators who will address the challenge of obesity and related disorders in Mississippi. One of the major goals of the MCCTR is to provide a coordinated program of mentorship and support that will facilitate the work of translational researchers who will tackle the epidemic of obesity.
• We continue to develop research partnerships with other basic and clinical departments as well as other institutions in order to submit more multi-PI and center grant applications.
• We have further developed formal mentoring programs for postdoctoral fellows and junior investigators.

Challenges:
• Continued increase in competition for funding from NIH, with funding rates at only about 10–15%. Increasing focus to obtain grant funding may reduce focus on making conceptual advances and important discoveries.
• Unpredictable reductions in state budget support for faculty salaries as well as reductions in support for commodities and contractual services. These reductions in institutional support require even greater extramural support to maintain a high level of productivity and excellence in the research mission of the department.
• Lack of a merit-based system for compensation makes it challenging to recruit and retain top-level research staff.
• Increased development efforts for private funding of endowed chairs and major equipment will be important in maintaining the “competitive edge” needed to secure NIH funding for major research projects and to further develop our research centers.
• Continued recruitment of new faculty members to fill expertise gaps in our research programs and find successors for faculty who have retired will be important for maintaining a high level of productivity and research excellence. Start-up funds to recruit new faculty and funds for competitive salaries depend heavily on extramural grant support which is increasingly difficult to obtain.
ADMINISTRATION

FACULTY IN EACH DIVISION

Tenure Track Faculty
- Barbara T. Alexander, PhD
- Alejandro Chade, MD
- Heather A. Drummond, PhD
- Eric M. George, PhD
- Joey P. Granger, PhD
- John E. Hall, PhD
- Romain Harmancey, PhD
- Robert L. Hester, PhD
- Michael J. Ryan, PhD
- Joshua Speed, PhD
- David E. Stec, PhD

Non-Tenure Track Faculty
- Thomas H. Adair, PhD (part time)
- Jussara M. do Carmo, PhD
- Zhen Wang, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY

- Robert L. Hester, PhD, Chair
- Thomas H. Adair, PhD
- Barbara T. Alexander, PhD
- Alejandro Chade, MD
- Heather A. Drummond, PhD
- Joey P. Granger, PhD
- Michael J. Ryan, PhD
- David E. Stec, PhD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES

- John E. Hall, PhD, Chair
- Joey P. Granger, PhD, Vice-Chair
- Kendall Ratliff, Education Administrator
- Courtney Graham, Project Manager
- Stephanie Lucas, Director of Research Operations
- Catherine Kaime, Project Manager, Mississippi Center for Obesity Research (MCOR)
- Kary Sims, Project Manager
- Mary M. Saulters, Project Manager, Mississippi Center for Clinical and Translational Research (MCCTR)

TRANSLATIONAL RESEARCH (MCCTR)
- Chevonne Robinson, Project Administrator, Mississippi Center for Clinical and Translational Research (MCCTR)

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF

- UMMC/Mississippi Blood Services Blood Drive
- American Heart Association Heart Walk
- Mississippi’s Walk for Diabetes
- Members of the Department of Physiology and Biophysics engage in 2 yearly community outreach events that are held at the Mississippi Children’s Museum. Physiology Understanding (PhUn) is a nationwide outreach program sponsored by the American Physiological Society that builds connection between scientists and local students. This event, held each November, involved over 20 volunteers from the Department of Physiology and Biophysics that included faculty, postdoctoral fellows and graduate students.
- During the spring semester, members of Physiology and Biophysics participate in Discovery U, a similar program that is sponsored by the School of Graduate Studies in the Health Sciences. Both events involve interactive hands-on physiology activities that teach how the body functions and how scientific discoveries are made. The events reached over 450 students (K–8th grade) and family members.
- Faculty served on multiple NIH and AHA grant review panels and held leadership positions in several societies including the American Physiological Society, American Heart Association Council for High Blood Pressure Research, Inter-American Society of Hypertension, International Society of Hypertension, etc.

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Administrative staff have continued to lead efforts to meet some of the major challenges to researchers that have developed as a result of changes in DIS policies related to computer purchases, downloading of research software and encryption.
- Members of the administrative staff continue to assist UMMC leadership with the transition from Lawson to Workday.
- Dr. Bhavisha Bakrania, Dr. Alan Moulton and Dr. Jeremy Duncan received postdoctoral fellowships from the American Heart Association and were promoted to Instructor.

Development:
- Department faculty members continue to lead the development of the Cardiovascular-Renal Research Center, the Mississippi Center for Obesity Research, the Computational Medicine Research Center, Cardiorenal and Metabolic Diseases Research Center and the Mississippi Center for Clinical and Translational Research. These multidisciplinary centers bring together basic, clinical and population researchers from different departments to focus on important health issues for Mississippians.

Challenges:
- Continued recruitment of faculty to fill research and teaching expertise
gaps in cardiac physiology, neurophysiology, in vivo imaging, obesity and endocrinology is necessary and challenging.

- While the current UMMC process for ordering equipment and managing contractual services has improved, there are still major challenges and delays, especially in the purchase of equipment. We continue to hope that a process will be developed that meets needs for basic science research procurements.

- UMMC’s Department of Information Systems (DIS) has inadequate support staff for basic research. Some of the current requirements and policies of DIS for computer purchases and use are incompatible with the needs of basic science researchers.

- A merit-based system should be established by the UMMC Human Resources Department so that staff members can receive raises and/or promotions commensurate to their productivity and contributions to the department. The lack of a merit-based system to improve salaries of staff makes it challenging to recruit/retain top-level research assistants.

- The high cost of health insurance for families makes it challenging to recruit research and administrative staff.
LEADERSHIP ROLES
- Joshua R. Mann, MD, MPH, Chair and Residency Director

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
Approved slots for learners
Program – N/A
Residency – Public Health and General Preventive Medicine. Approved Nov 2017 for a total of 8 positions (4 per year), starting in July 2018
Fellowship – N/A

Accreditation status
Program: N/A
Residency: Fully accredited, no citations
Fellowship: N/A

Board pass rate
Program: N/A
Residency: N/A
Fellowship: N/A

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 0
Required courses/clerkships: N/A

Number of elective courses/clerkships taught in the SOM: 1
Elective courses/clerkships:
- PM 660A Health Policy Elective

Number of course or co-course directors: 1
Number of program or associate program directors: 0

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Obtained approval for second M-4 elective course, PM 657 – Clinical Preventive Medicine, to be offered for the first time in academic year 2020.
- Submitted a proposal for an Environmental Medicine M-4 elective.
- Contributed significantly to teaching in the Introduction to the Medical Profession 1 and 2 courses.
- Contributed to documented improvements in USMLE scores related to evidence based medicine and nutrition.
- Enrolled first ever preventive medicine resident in July 2018.

Developments:
Successfully completed year 1 and began year 2 of a 2018 award from the Health Resources and Services Administration (HRSA) to enhance and expand the Preventive Medicine residency training program

Challenges:
Departure of two physician faculty members, including residency director, in June 2019

CLINICAL
CLINICAL PERFORMANCE
Patient Safety:
No department-specific patient safety initiatives were conducted. We did involve our preventive medicine resident in training on root cause analyses through the Risk Management office.

Quality:
Departmental faculty members contributed significantly to institutional quality efforts including the steering team for the Transforming Clinical Practice Initiative.

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Increased Lifestyle Medicine Clinical capacity to three half-days per week

Developments:
Hired dietitian to compliment Lifestyle Medicine Clinical Services as well as meet other needs within the department

Initiated a partnership with the UMMC Center for Integrative Health in the development and implementation of future clinical services

Challenges:
Personnel changes including departure of a physician with strong revenue from the Medical Center

Unanticipated FY19 Budgetary restrictions which resulted in a cancelled contract for a physician-provider in Lifestyle Medicine clinic

RESEARCH
FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 2
- Articles in peer-reviewed journals: 8
- Books published: 0
- Books chapters published: 0
- Members of national study sections or national or international committees: 0
- Journal editors: 0
- Members of editorial boards: 1
- PIs on extramural grants or editorial boards: 2
- Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect): $492,495
  - NIH – $0
  - DOD – $0
  - Other – $492,495
Department of Preventive Medicine

- **Total Non-Federal Funding (Direct + Indirect):** $250
  - AHA – $0
  - NSF – $0
  - Other – $250

**TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):**
- IRSP – $0
- FSE – $0
- Other – $24,788

**RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH**
- Research Name – None
- Funding Amount – N/A
- Funding Source – N/A

**RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
Contributed significantly by first authorship on one paper and co-authorship on 7 papers

PI on large federal training grant and small service foundation grant

PI on joint intramurally funded Collaborative Research Network (CORNET) project with University of Tennessee Health Science Center and Tulane University.

**Developments:**
Only two faculty members are included in this research productivity report. Other researchers in the department have primary appointments in the School of Population Health and are therefore not included in this report.

**Challenges:**
- Small number of faculty members.
- We do not have a leader in the department (such as a vice chair for research) whose primary role is to champion expansion of research efforts and mentor less experienced faculty members in research.

**ADMINISTRATION**

**FACULTY IN EACH DIVISION**
- Joshua Mann, MD, MPH
- Josie Bidwell, DNP, RN, FNP-C

**MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY**
- Fazlay Faruque, PhD (Chair)
- Ingrid Espinoza, PhD
- Alan Penman, MBChB, PhD, MPH
- Leandro Mena, MD, MPH

**DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES**
- Joshua Mann, Chair
- Mary Manuel, Director of Operations
- Brea Cole, Manager Integrated Wellness Program
- DeShundra Barnes, Education Administrator
- Ivory Stuckey, Administrative Assistant III

**DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF**

Name of event
- Dental Mission Week
- Tutormate
- See, Test, Treat
- 12k’s for The Holidays Race Emcee to benefit Good Samaritan
- Board of Directors Mississippi Food Network

**NON-GRA N T DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS**
Major Fundraising Development: None
Amount: N/A

**ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES**

**Accomplishments:**
- Successfully hired and trained education administrator/residency coordinator

**Development:**
- Preparing for relocation of departmental faculty and staff to Translational Research Building in fall of 2019

**Challenges:**
- Limited redundancy/backup availability if a staff member goes on extended leave or leaves the department
LEADERSHIP ROLES

- Scott Rodgers, MD, Chair
- Sara Gleason, MD, Vice Chair for Faculty Development
- Jefferson Parker, PhD, Vice Chair for Clinical Affairs
- Mark Ladner, MD, Deputy Vice Chair for Clinical Affairs; Adult Psychiatry Division Director
- James Rowlett, PhD, Vice Chair for Research
- Julie Schumacher, PhD, Vice Chair for Education
- Beverly Bryant, MD, Child and Adolescent Psychiatry Division Director
- Donna Platt, PhD, Neurobiology and Behavior Research Division Director
- Daniel Williams, PhD, Psychology Division Director
- Julie Schumacher-Coffey, PhD, Vice Chair of Education
- Joy Houston, M.D, Program Director, Adult Psychiatry Residency Training Program
- Donna Guy, Residency Training Program, Education Administrator
- Ian Paul, PhD, Director of Medical Student Education
- Barbara Daniels, M.B.Ed., Medical Student Education Administrator
- Donna Platt, PhD, Director of Graduate Program in Neuroscience
- Beverly Bryant, MD, Program Director, Child Psychiatry Fellowship Program
- Oscar Rodriguez Pineda, MD, Program Director, Sleep Fellowship Program
- Crystal S. Lim, PhD, Director, Psychology Internship Training Program
- Daniel C. Williams, Vice-Director, Psychology Internship Training Program

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners
Psychiatry Residency Program Resident – 28
Child and Adolescent Psychiatry Fellowship Program – 4
Psychology Residency Program – 6
Psychology Fellowship Program – 2
Sleep Medicine Fellowship Program – 2

Accreditation status
Psychiatry Residency Program – Continued Accreditation
Child and Adolescent Psychiatry Fellowship Program – Continued Accreditation
Psychology Residency Program – Continued Accreditation
Sleep Medicine Fellowship Program – Continued Accreditation

Board pass rate
Adult Psychiatry: 3-year first time test taker pass rate = 73.33%
Child and Adolescent Fellowship: 100%

Number of graduate students: 14 total in Program In Neuroscience (inter-departmental program)

EDUCATIONAL EFFORT

Number of required courses/clerkships taught in the SOM: 2
Required courses/clerkships:
- CONJ 628 – Medical Neuroscience & Behavior 2 (M2 year)
- PSYCH 631 – Psychiatry Clerkship (M3 year)

Number of elective courses/clerkships taught in the SOM: 6
Elective courses/clerkships:
- PSYCH 632 – Junior Elective in Psychiatry (M3 Year)
- PSYCH 653 – Senior Elective in General Psychiatry (M4 Year)
- PSYCH 658 – Senior Elective in Sleep Medicine (M4 Year)
- PSYCH 659 – Senior Elective in Outpatient Psychiatry (M4 Year)
- PSYCH 661 – Senior Elective in Acute Care Psychiatry (M4 Year)
- PSYCH 662 – Senior Elective in Inpatient Psychiatry (M4 Year)

Number of course or co-course directors: 2 in 2018–19 (Paul, Richert); 6 in 2019–20 (Paul, Richert, Ladner, Gleason, Houston, Bhardwaj)
Number of program or associate program directors: 1

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- A Psychiatry Resident received a Gold Humanism Excellence in Teaching Award
- Three Psychiatry Residents presented posters at the American Psychiatric Association Meeting and two Presented at the American Academy of Child and Adolescent Psychiatry
- A Psychiatry Resident won the poster competition and the Mississippi Psychiatric Association Annual Meeting
- A Psychiatry Resident who is transitioning to the Child and Adolescent Fellowship was selected as a first year Child and Adolescent Psychiatry Fellow by the American Psychiatric Association
- A Psychiatry Resident published an article with a faculty member in American Academy of Child and Adolescent Psychiatry News
- Two faculty (one MD and one PhD) won Trailblazer Awards
• The Psychology Residency Program organized and hosted the annual Evidence-Based Psychotherapy Workshop, titled “Child-Adult Relationship Enhancement (CARE)” in September 2018.
• The Diversity Training Oversight Committee of the psychology residency program organized Diversity Day in Fall 2018, which was titled “Multicultural Factors in Mental Health Treatment: Perspectives from Psychiatry and Psychology”. The event included a panel discussion with members from local universities and the community.
• One of the psychology residents received the “Scott F. Coffey, PhD Grand Rounds Speakership Research Award” and presented a departmental Grand Rounds.
• One of the psychology residents won the pitch competition at the Health Innovation & Transformation Forum at UMMC for graciYES, a positive parenting and gratitude journal app.
• In AY 2018–2019, the psychology residents submitted 4 manuscripts for publication with program faculty (2 first-authored by a resident), with an additional 9 manuscripts in preparation at the end of AY 2018–2019 (6 first-authored by a resident).

Developments:
• Prepared the launch of Curriculum 2020 in the department, to significantly enhance education across all programs (https://umc.edu/som/Departments%20and%20Offices/SOM%20Departments/Psychiatry-and-Human-Behavior/Educational-Programs/Psychiatry%20and%20Human%20Behavior%20Education%20Programs%20Home.html)
• Developed additional psychiatry resident modules for CANVAS to facilitate flipped classroom/adult learning
• Added a new M4 elective in Addiction Psychiatry under Dr. Bhardwaj
• Added a second OSCE on chronic pain management to the interprofessional education initiative in the SOM
• Began development of an integrated psychiatry/neurology clerkship for implementation in AY2020–21
• Began development of the first flipped classroom approach to teaching medical neuroscience for implementation in AY2019–20
• Alexandria Delozier, PhD, completed the Psychology Residency and joined UMMC as an Instructor Faculty member and Director of Research in the Center for LGBT Research
• Nicholas McAfee, PhD, completed the Psychology Residency and will continue on at UMMC as a Fellow I
• Matt Morris, PhD, joined the Division of Psychology as an Associate Professor and will begin contributing to providing psychology residents with clinical and research supervision

Challenges:
• Recruiting and hiring new faculty to assist with the department’s educational efforts

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
The following issues have been the subject of purposeful communication, causal analysis, and problem-solving:
• Timely and failsafe communication between Nursing and Residents/Attendings on patient care issues
• Patient transfers via discharge arrive on 7 East with no orders

Quality:
The following have been the focus of quality initiatives:
• Coordination of the Department’s Addiction Services with the Emergency and OB/GYN Departments in the care of pregnant women with Opioid Use Disorder
• Delivery of Screening, Brief Intervention, and Referral to Treatment (SBIRT) on our Adult inpatient units.
• Revision of guidelines for Resident consultation with Attending during call hours

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Growth of the Department’s Addiction Clinic
  o As of 6/30/18 it operated 1 day/week and had no physician. As of June 30, 2019 it operates three days/week and has an Addiction Psychiatrist
  o Now provides Medication Assisted Treatment for both Alcohol and Opioid Use Disorders
  o Has a web page, its own Ambulatory Referral, and an email address
• Growth of the Center for Integrated Health
  o Expanded staffing to include a Physical Therapist
  o Relocated to attractive, functional, and accessible new space in Ridgeland
  o Expanded hours
• Relocation of the Center for Advancement of Youth to Highland Bluff
• Recruitment of a new Child and Adolescent Psychiatrist, Dr. Osman Athar
• Implementation of a comprehensive Department-wide education and training curriculum – Curriculum 2020 = that integrates education and scholarship

Developments:
Planning is underway for each of the following initiatives:
• A new Division of Interventional Psychiatry, which will expand on the current electroconvulsive therapy (ECT) program with the addition of transcranial magnetic stimulation (TMS), ketamine infusion, esketamine nasal spray, and brexanolone infusion
• A new transdisciplinary clinic, the TEAM Clinic, being organized by the Center for LGBTQ Health
• Relocation and consolidation of all Department of Psychiatry outpatient clinics to newly approved space at River Chase in Flowood, MS
• Addition of acupuncture services to be available through the Center for Integrative Health
• The first Addiction Psychiatry Fellowship in Mississippi

Challenges:
• Lack of an inpatient adolescent unit
• Inadequate inpatient psychiatric units
• Lack of inpatient beds for medically managed alcohol and drug withdrawal
• Recruitment of an inpatient psychiatrist
• Recruitment of a part time Board Certified Addiction Psychiatrist
• Retention of Nurse Practitioners in the absence of compensation increases

RESEARCH FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 19
• Articles in peer-reviewed journals: 52

? Books published: 1
• Books chapters published: 4
• Members of national study sections or national or international committees: 15
• Journal editors
• Members of editorial boards: 8
• PIs on extramural grants or editorial boards: 19
• Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
• Total Federal Funding (Direct + Indirect):
  NIH – $3,490,219
  DOD – $0
  Other – $2,218,581
• Total Non-Federal Funding (Direct + Indirect):
  AHA – $0
  NSF – $0
  Other – $0

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
IRSP – $0
FSE – $0
Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
• Research Name – N/A
• Funding Amount – N/A
• Funding Source – N/A

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
• The Department’s research enterprise nearly doubled their amount of extramural funding compared with 2017-2018 ($3,399,229 to $5,708,806).
• Extramural funding has extended into the Adult Psychiatry Division, in addition to traditional strengths of Psychology and Neurobiology and Behavior Research Divisions

Developments:
• A significant challenge identified last year was recruitment of research faculty into the Psychology Division. This has been met by recruitment of Ali Delozier, PhD and Matthew Morris, PhD, who accepted positions starting July 1, 2019
• The Department has entered into a major research partnership with the Mayo Clinic

Challenges:
• With the enormous increase of genomics data generated by the Molecular and Genomics Core, and to be generated from the Mayo collaboration, the latest software for analyzing these data is available as freeware through general public licenses. The ability to streamline the approval process for these downloads through UMMC offices (Legal, Contracts Administration and Division of Information Systems) would greatly enhance our ability to analyze our own research data and sustain our efforts in this important research area.
• Basic human laboratory and clinical trials research are the core for experimental medicine in most psychiatry departments worldwide. Our growth in Adult Psychiatry and recruitment in Psychology address these needs, but a strong program in human laboratory and clinical trials research is a clear gap in our research mission.
ADMINISTRATION

FACULTY IN EACH DIVISION

Adult Psychiatry Division
- Dr. Jeffrey Ali, MD
- Susan Anand, ATR-BC, LPAT, LMFT
- Saurabh Bhardwaj, MD
- Sara Gleason, MD
- Joy Houston, MD
- Lindsay Jay, MS
- Mark Ladner, MD
- Jeff Parker, PhD
- Allen Richert, MD
- Scott Rodgers, MD

Child and Adolescent Psychiatry Division
- Beverly Bryant, MD
- Dirk Dhossche, MD
- David Elkin, PhD
- Crystal Lim, PhD
- Philip Merideth, MD
- Scott Rodgers, MD

Neurobiology and Behavior Research
- Kevin Freeman, PhD
- Sally Huskinson, PhD
- Jose Javier Miguel-Hidalgo, PhD
- Mohadetheh Moulana, PhD
- Donna Platt, PhD
- Ian Paul, PhD
- Grazyna Rajkowska, PhD
- James Rowlett, PhD
- Daniella Ruedi-Bettschen, PhD
- James Shaffery, PhD
- Craig Stockmeier, PhD
- Eric Vallender, PhD

Psychology Division
- Courtney Bagge, PhD
- Danny Burgess, PhD
- Sarah Cunningham, PhD
- David Elkin, PhD
- Crystal Lim, PhD
- Jeff Parker, PhD
- Julie Schumacher, PhD
- Daniel Williams, PhD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- Eric Vallender, PhD (Chair)
- Danny Burgess, PhD
- Sara Gleason, MD
- L. Joy Houston, MD
- Jefferson Parker, PhD
- Donna Platt, PhD
- Allen Richert, MD
- Craig Stockmeier, PhD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Carson Allen, Resource Coordinator
- Vandria Dampier-Gaskin, Administrative Assistant II
- Barbara Daniels, Education Administrator
- Mandi Ford, Manager of Business Operations
- Teresa Graves, Administrative Assistant II
- Anaite Groendyk, Administrative Assistant III
- Donna Guy, Education Administrator
- Kristi Herbison, Education Coordinator
- Benetra Johnson, Social Worker
- LaTiana Myles, Administrative Assistant II
- Bryan Nelms, Department Business Administrator
- Savanna Norfleet, Mental Health Coordinator
- Marie Porter, Administrative Assistant II
- Mary Schow, Accountant II
- Bobby Stanley, Education Coordinator
- Doris Whittington, Administrative Support Coordinator
- Tonitrice Wicks, Grants and Contracts Coordinator

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
- Advisory Council for Licensed Professional Art Therapists – Mississippi Department of Health
- American Art Therapy Association (AATA)
- Center for Art and Public Exchange (CAPE), Community Advisory Council, Mississippi Museum of Art
- Indian Art Therapy Discussion Forum (IATDF)
- Mississippi Art Therapy Association (MSATA)
- Mississippi Board of Examiners for Licensed Professional Counselors
- Serving as a judge for St. Anthony Catholic School Science Fair
- Speaking to 3rd graders at St. Anthony Catholic School about primates
- Speaking to 2nd graders at St. Anthony Catholic School about animal classification
- Psychiatry resident participation in the Psychiatry Outreach Program at the Jackson Free Clinic

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: None
Amount: N/A

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES Accomplishments:
- Successfully opened the Center for Integrative Health in Ridgeland, MS
- Successfully opened the Center for the Advancement of Youth at Highland Bluff in Northeast Jackson (providing comprehensive and consolidated pediatric behavioral health services
with inclusion of child/adolescent psychiatry)
• Successfully completed lease agreement for River Chase, providing comprehensive and consolidated adult outpatient psychiatric and psychological services in Flowood, MS
• Successfully created and implemented “Curriculum 2020, Pathways in Mental Health Education,” allowing for inter-professional and program-specific learning for our five training programs, along with protected learning time and distributed, accountable teaching across faculty.
• Successfully hired new staff, filling all positions within the department

Development:
• Continued exploration of an Interventional Psychiatry Program
• Continued exploration of inpatient space opportunities

Challenges:
• Absence of philanthropy for the department
LEADERSHIP ROLES

- Srivivasan Vijayakumar, MD
  - Chair
  - Residency Program Director
- William “Trey” Woods, MSN, NP-C
  - Faculty Administrator
- Madhava Kanakamedala, MD
  - Associate Residency Program Director
- Satyaseelan Packianathan, MD
  - Residency Program Evaluation Committee Chair
- Chunli “Claus” Yang, PhD
  - Chief Physicist
- William “Neil” Duggar, PhD
  - Lead Clinical Physicist
- Rui He, PhD
  - Lead Research Physicist

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners

- Program: N/A
- Residency: 4
- Fellowship: 1

Accreditation status

- Program: N/A
- Residency: ACGME fully accredited
- Fellowship: Unaccredited

Board pass rate

- Program: N/A
- Residency: 100% pass rate on the first attempt for the life of the program
- Fellowship: N/A

Number of graduate students: 0

EDUCATIONAL EFFORT

Number of required courses/ clerkships taught in the SOM: 0
Number of required clerkships taught in the SOM: 0

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- 100% board pass rate on 1st attempt
- Chief resident
  - ARRO
    - Executive committee member
    - Vice chair communications committee
    - Education subcommittee
  - ASTRO
    - Scientific committee member
    - Communications committee member
  - ROI
    - Research committee member
    - Development committee member
  - Applied Radiation Oncology Journal Resident Advisor
  - AAWR
    - Member in training subcommittee
  - UMMC
    - Resident Habitat for Humanity House Planning Committee
    - Chief resident council
  - SWRO
    - Co-founder and executive committee member
    - Communications and social media liaison
    - Website designer
    - Blog manager
  - Co-Chief resident
    - National steering committee for ACRO
  - ASTRO code utilization and application subcommittee
  - RRSC residency review subcommittee
  - AMA IMG Governing Council
  - APOS accreditation and policy oversight subcommittee
  - ARRO global health subcommittee
  - ACRO national resident committee
  - ACRO Chair of resident mentorship subcommittee
  - Residency program director on ACGME RRC

Developments:
- Added a dedicated 2 week Radiobiology Prep Course

Challenges:
- Lack of dedicated Biology faculty
- Lack of administrative support

CLINICAL

CLINICAL PERFORMANCE

Patient Safety: None

Quality: None
- 3 publications related to patient safety and quality

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Stable Gamma Knife program
- Continued ACR accreditation

Developments:
- None

Challenges:
- Ageing equipment
- Department’s non-proximity to main campus
- Disproportionate payer mix
• Lack of ultrasound and supportive equipment
• Lack of intraoperative program

RESEARCH FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 11
• Articles in peer-reviewed journals: 19
• Books published: 0
• Books chapters published: 0
• Members of national study sections or national or international committees: 1
• Journal editors: 0
• Members of editorial boards: 1
• PIs on extramural grants or editorial boards: 0
• Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
• Total Federal Funding (Direct + Indirect): $0
  NIH – $0
  DOD – $0
  Other – $0

• Total Non-Federal Funding (Direct + Indirect): $0
  AHA – $0
  NSF – $0
  Other – $0

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $0
IRSP – $0
FSE – $0
Other – $0

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
• 55 total publications for faculty in department
• 19 1st or 2nd author publications for faculty in department
• 15 Oral presentations
• 27 Poster presentations

Developments:
• Dedicated Research I position

Challenges:
• No dedicated research faculty

ADMINISTRATION
FACULTY IN EACH DIVISION
• Srinivasan Vijayakumar, MD
• Satyaseelan Packianathan, MD
• Madhava Kanakamedala, MD
• Divyang Mehta, MD
• Eswar Mundra, MD
• William (Trey) Woods, NP
• Chunli Yang, PhD
• Rui He, PhD
• Andre Markovich, PhD
• William “Neil” Duggar, MS

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
• Chunli Yang, PhD, Chair
• Srinivasan Vijayakumar, MD
• Richard Summers, MD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
• William “Trey” Woods, Faculty Administrator
• Jeremy Otts, Clinical Director
• Hope Kennedy, Assistant to Chair, Business Operations Supervisor
• Alice Lee, Billing Operations and Education Administrator

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
None

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: None
Amount: N/A

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
• Successful 5 year review

Development:
• None

Challenges:
• Lack of administrative support
LEADERSHIP ROLES
- Timothy C. McCowan, MD, Chair of Radiology
- Michael Doherty, MD, Vice Chair, Clinical Services
- Anson Thaggard, MD, DR Program Director, Vice Chair, Education
- Candace Howard-Claudio, MD, Vice Chair, Research

EDUCATION
RESIDENCY AND FELLOWSHIP PROGRAMS
APPROVED SLOTS FOR LEARNERS
Program – Diagnostic Radiology
Residency – 24 Residents, 7 Interns
Fellowship – N/A

Accreditation status
Program: Diagnostic Radiology
Residency: Continued Accreditation
Fellowship: Continued Accreditation

Board pass rate
Program: Diagnostic Radiology ABR certifying examination
Residency: 100% (first time takers)
Fellowship: N/A

Number of graduate students: 0

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 0

Number of elective courses/clerkships taught in the SOM: 3
Elective courses/clerkships:
- Radiology 631A
- Radiology 651A
- Radiology 656A

Number of course or co-course directors: 3
Number of program or associate program directors: 3

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Successfully submitted applications for two new IR training programs
- Continued participation in an emergency/critical care radiology examination from University of Florida and the ACR
- For the 19–20 year, there are eight UMMC students who are applying for radiology residency
- Radiology Interest Group is recognized by the SOM Academic Affairs and is financially supported by the department
- Radiology continues to host learners from other departments (IM, FM, EM, Anes) and other disciplines, working around physical space issues to make the time beneficial for all learners without compromising the radiology residents’ experience
- Filled seven intern slots, matched our #1 pick, matched our 2nd Clinical Investigator Pathway radiology resident (which includes an extra year of research)
- Developed and implemented Radiology checklist to solidify learning for medical students and ensure that every student is getting the same stellar level of learning
- Increased the level of learning for Ultrasound courses delivered to M1/M2 students
- Creation of additional medical student offerings for a growing student body
- Implemented 3 additional student courses in 19–20 AY for M4 students

Developments:
- Addition of new faculty, particularly expansion of the Emergency Radiology division

Challenges:
- Resigning Faculty
- Low morale
- Space
- Budget
- Overcrowding within reading rooms diminishes the learning environment
- Lack of a dedicated student education space
- Educational effort is diminished by overwhelming clinic demands with little to no dedicated academic time for faculty to commit toward education and research
- Recruitment of faculty to key subspecialties and to leadership roles
- Due to continued interest in Radiology, the potential for increasing class sizes is becoming a problem for the future

CLINICAL
CLINICAL PERFORMANCE
Patient Safety:
- Optimization of protocols and dose reduction to patients
- Weekly/monthly monitoring doses OR14 and Interventional, monthly reports sent to chairman/section chief, Fluoroscopy tech reviews dose at 5-minute intervals during studies
- Reporting exam doses over 5Gy to performing physician and I-care report to proactively review exam dose reduction and facilitate patient follow-up assessment
- Revising order sets for Interventional procedures to include order for pathology/lab/cytology
- Oversee management of Veriphy system

Quality:
- Leapfrog Data for Pediatrics
- Uploading CT data to ACR dose registry
Department of Radiology

- Upload fluoroscopy data to ACR registry
- Optimization of orders for CT/MR/Nucs
- Software updates necessary for PAMA deadline Jan 2020
- Reduce free-texting option use in CT/MR/Nucs
- AUC Education of ordering providers
  - US basics lab
  - Radiology-TEACHES/AUC teaching for medical students
- Interconnectivity between EPIC and Veriphi Critical Alert system
- Ongoing radiology support for the Lung nodule and screening clinic
- Quarterly review of Peer-Review

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Improved radiation dose monitoring for CT exams
- Continued robust clinical radiology services to UMMC Grenada with on-site faculty
- Providing enhanced subspecialty imaging services in the areas of MR prostate imaging, MR and US liver elastography, MR functional brain imaging, and MR and CT congenital heart disease imaging
- Continued Quality initiatives focusing on turn-around times, critical result reporting, and imaging appropriateness
- Established clinical radiology services on-site at Mississippi Sports Medicine
- Multiple new MR units in place and operating for adults and children
- Successful recruiting for some radiology faculty positions

Developments:
- Continued discussion to relocate Breast Imaging Services
- Construction started for new Interventional Radiology Suite
- Construction of new Pediatric Radiology Imaging Center
- New faculty in Interventional Radiology, Neuroradiology, Body Imaging and Pediatric Radiology
- Recruitment of new Breast Imaging and Body Imaging faculty

Challenges:
- Continued shortage of radiology faculty in multiple areas including Body Imaging, Neuroradiology, and Breast Imaging
- Antiquated and outdated equipment and physical plants in Ultrasound, Nuclear Medicine, and Breast Imaging
- Difficulty in recruitment of new radiology faculty
- Difficulty in retaining experienced technologists in MR, CT, and US
- Poor payer mix with overall declining reimbursement
- Difficulty providing subspecialty coverage 24/7
- Difficulty staffing tumor boards and other services in the face of faculty shortages and non-reimbursement for these services
- Difficulty providing PACS integration for outreach services
- Inadequate nursing and support staff in Interventional
- Inadequate number of IT support staff
- Not enough navigation support to answer phone calls for the Radiology reading rooms or at front desk in divisions

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY

Faculty with primary appointments: 20
- Articles in peer-reviewed journals: 14
- Books published: 0
- Books chapters published: 0
- Members of national study sections or national or international committees: 4
- Journal editors: 0
- Members of editorial boards: 2
- PIs on extramural grants or editorial boards: 2
- Number of Patents: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect): $71,000
  - NIH – $40,000
  - DOD – $0
  - Other – $0
  - RSNA – $30,000
  - Clinical Trial Startup Fee – $1000/study
- Total Non-Federal Funding (Direct + Indirect):
  - AHA – $0
  - NSF – $0
  - Other – $0

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.): $29,583
- IRSP – $29,583
- FSE – $0
- Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Research Name – N/A
- Funding Amount – $0
- Funding Source – N/A
RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
• Robert D. Sloan Award Recipient, Varney
• Medical Student Research Scholar, Varney
• AΩ A Carolyn L. Kuckein Student Research, Miller
• All divisions of radiology are actively involved in research activities
• Funded projects:
  o Body Composition as a biomarker of obesity related disease in African Americans, Howard
  o Quantifying Cardiovascular Calcification at very old age for personalized risk classification, Howard
  o UMMC Jackson Heart Study Field Center, Howard
  o Effect of GLP-1 agonists on trabecular bone score in post-menopausal women with type 2 diabetes, Howard
  o Magnetic Resonance Stereotactic Imaging, Fatemi
• Proposals submitted for funding:
  o Longitudinal association of body composition with cardiometabolic health in the Jackson Heart Cohort.” Morgana Mongraw-Chaffin, PhD, MPH (PI, Wake Forrest), Candace Howard
  o Combined Therapies for Pancreatic Adenocarcinoma.” Candace Howard, (Co-PI)
  o Combined Therapy for Lethal Prostate Cancer.” Candace Howard, PI
  o Perinephric Fat, Subclinical Renal Dysfunction and Heart Failure in African Americans.” Candace Howard, Co-investigator
  o IDeA Consortium to Evaluate Effects of Antenatal Opioid Exposure, Co-I Candace Howard
  o Rapid Bone Density Screening of Routine CT Images Using Color Enhanced Detection (MCCTR), David Gordy, PI
  o Developing a custom head phantom to validate the accuracy of magnetic resonance. Ali Fatemi, PI
• There are currently 40 active research studies
• The Radiology Research Department is active in several in several coalitions focusing on population health:
  o Jackson Heart
  o ARIC
  o CCTS
  o University of Alabama
  o Liver Fat Consortium Group
  o Industry Trials
• Publications: 17
  o Nueral response to stress and perceived stress differ in patients with left temporal lobe epilepsy, Storrs, JM
  o Bone Metastatic Prostate Cancer among African Americans: The survival equivalence paradox, Gordy, DP
  o Microbubble-mediated delivery of human adenoviruses does not elicit innate and adaptive immunity response in an immunocompetent mouse model of prostate cancer, Candace M. Howard
  o Top 10 facts you need to know about knee radiographs, Morris RW
  o Opportunistic bone density screening method based on colored CT images of the spine, Varney E
  o Planning C2 pedicle screw placement with multiplanar reformatted cervical spine computed tomography, Davidson C.T
  o Evaluation of immune response after ultrasound targeted gene therapy in a mouse model of prostate cancer, DeCarlo F
• Abstracts: 44
  o Simplified evaluation of liver MR elastography using semi-auto-
mated region-of-interest selection, Storrs JM
- Consideration of tumor volume in the dosage calculation for Yttrium-90 Transarterial radioembolization of hepatocellular carcinoma, Adcock CS
- Consideration of tumor volume in the dosage calculation for Yttrium-90 Transarterial radioembolization of hepatocellular carcinoma, Adcock CS
- Model of V12 to Number of Lesions and Total Tumor Volume in Multiple Brain Metastases Stereotactic Radiosurgery, Fatemi A
- Raising awareness on some common error sources in patient dose reporting in commercial CT dose monitoring enterprises especially in multi-body- parts CT studies and propose some solutions for them, Fatemi A
- Strategically acquired gradient echo (STAGE) imaging for MRI-only stereotactic radiosurgery planning, Florez E
- To determine the effectiveness of an innovative method of teaching in two days Gamma Knife workshop provided to residents from a medical physics residency consortium, Yang C
- To evaluate a total system uncertainty for frameless radiosurgery/therapy with the Gamma Knife, Duggar W
- Strategically acquired gradient echo (STAGE) imaging for MRI-only stereotactic radiosurgery planning, Florez E
- Assessment of transarterial radioembolization treatment of hepatocellular carcinoma using multimodality imaging (99mTc-MAA SPECT/CT and MRI), Adcock CS
- Evaluating geometric and dosimetric accuracy of synthetic CT images for MRI-only stereotactic radiosurgery, Seyed Mehdi Bagherimofidi
- Evaluating the accuracy of geometrically corrected MR images for intracranial brain tumor radiotherapy, Seyed Mehdi Bagherimofidi
- Geometrical analysis of target volume definition on corrected MRI images and its effect on Stereotactic Radiosurgery treatment planning, Seyed Mehdi Bagherimofidi
- Delta-radiomics features predict response and outcome in head and neck cancer patients treated with chemoradiation, Florez E
- Strategically acquired gradient echo (STAGE) imaging for MRI-only stereotactic radiosurgery planning, Florez E
- Evaluating geometric and dosimetric accuracy of synthetic CT images for MRI-only stereotactic radiosurgery, Seyed Mehdi Bagherimofidi
- Evaluating the accuracy of geometrically corrected MR images for intracrania/brain tumor radiotherapy, Seyed Mehdi Bagherimofidi
- Geometrical analysis of target volume definition using corrected MRI images and analysis of their use for stereotactic radiosurgery treatment planning, Fatemi A
- Clinical significance of inhomogeneities in stereotactic radiosurgery treatment planning using synthetic CT images, Fatemi A
- Radiation Dose Levels in Pediatric Skeletal Survey for Suspected Child Abuse: A Preliminary Study, Khoosravi H
- MR to CBCT Registration Accuracy for IGRT On the Gamma Knife ICON. Bart Morris
- A Paradigm Shift: CBCT Offers Improved Localization for Frame-Based Gamma Knife Treatment, Daggar WN
- Clinical Significance of Inhomogeneities in Gamma Knife Treatment Planning: Factors affecting the Loss of Target Prescription Dose Coverage, Daggar WN
- Prospective validation of colored non-enhanced head CT images for detecting acute stroke in the setting of a Code Gray, Manzoul K
- Effect of Liver Surface Nodularity, sarcopenia and visceral obesity as risk factors in African Americans adults, Rushing B
- Multiparametric MR Brain tumor imaging through radiomic features as a metric for guided radiation treatment planning, Florez, E
- Exploration of Relationship between Transarterial radioembolization (TARE) treatment response and 9m9 Tc-MAA SPECT/CT or MRI treatment planning scans for hepatocellular carcinoma (HCC), Florez E
- Geometric analysis of target volume definition using corrected MRI images and analysis of their use for stereotactic radiosurgery treatment planning, Fatemi A
- Salvage neck surgery after definitive chemoradiation for tonsillar cancer—Do we have an opportunity to de-escalate treatment through improved imaging? Toms Vengaloor Thomas
- Multiparametric MR Brain tumor imaging through radiomic features as a metric for guided radiation treatment planning, Florez, E
- Exploration of Relationship between Transarterial radioembolization (TARE) treatment response and 9m9 Tc-MAA SPECT/CT or MRI treatment planning scans for hepatocellular carcinoma (HCC), Florez E
- Geometric analysis of target volume definition using corrected MRI images and analysis of their use for stereotactic radiosurgery treatment planning, Fatemi A
- Salvage neck surgery after definitive chemoradiation for tonsillar cancer—Do we have an opportunity to de-escalate treatment through improved imaging? Toms Vengaloor Thomas
The relationship of abdominal fat density with simple anthropometric measures and its correlation with cardiovascular disease risk factors in African Americans, Krecker A

Simple anthropometric biomarkers of complex body composition as predictors of cardiovascular risk among African Americans, Wilson G

Can anthropometric measures of obesity predict Liver Surface Nodularity in a diverse NAFLD population? Patel N

Delta-radiomics algorithm predicts progression-free survival in metastatic renal cell carcinoma treated with anti-angiogenic therapy, Khadivi A

Prospective validation of rapid bone density screening method that is applicable to routine abdominal CT images, Miller S

Comparative effectiveness of non-invasive tests for staging chronic liver disease, Varney E.T

Simplified evaluation of liver MR elastography using semi-automated region-of-interest selection, Becker B


Use of Cancer Stem Cell Drug Response Assay to Improve the Outcome of Glioblastoma Patients, Varney E.T

Evaluation of immune response following ultrasound targeted gene therapy in a murine model of prostate cancer, Varney E.T

Can anthropometric measures of obesity predict live surface nodularity in a diverse NAFLD population, Varney E

Effect of liver surface nodularity, sarcopenia and visceral obesity as risk factors in African American adults, Varney E

Prospective validation of colored non-enhanced head CT images for detecting acute stroke in the setting of a Code Gray, Varney E

The relationship of abdominal fat density with simple anthropometric measures and its correlation with cardiovascular disease (CVD) risk factors in African-Americans (AA), Florez E

Simple anthropometric biomarkers of complex body composition as predictors of cardiovascular risk among African-Americans, Howard C.M

• Presentations: 21
  o Fast Multiparametric 3D Spine MRI: Color Me Dixon! Weiss KL
  o Color-Encoded Multiparametric 3D Fast Dixon. Weiss KL
  o Heath Care Disparities In African American and White Men with Prostate Cancer (PC) with and without Bone Metastases: A slight 5 year survival benefit for African Americans with advanced PC. Gordy D
  o Postoperative Knee MRI
  o Gleason Grade Groups and Percentage Gleason Patterns in Prostate Adenocarcinoma Metastatic to Bone. Azar A
  o Precision Medicine: Y 90 Therasure and Sirsphere Tumor Targeting in Liver Hepatocellular Carcinoma. Vijayakumar V
  o Scintigraphic Presentation of Benign Bone Lesions in Children. Jennings M
  o Congenital Heart: Role of Split Dose Ventilation-Perfusion Scan in the Bidrectional Glenn and Fontan Completion Patient. Farkus A
  o A Comprehensive Review of the Valuable Role of Nuclear Myocardial Perfusion Imaging in Children with Heart Conditions. Shakti D
  o MRI guided Radiotherapy
  o Basic of Medical Imaging
  o Role of MRI for Stereotactic Radiosurgery (SRS)
  o Metabolic and Functional imaging
  o Transjugular Intrahepatic Portosystemic Shunt and Recanalization of the Portal Venous System for Variceal Hemorrhage. Kelly B
  o Percutaneous Liquid Embolization of a Visceral Arterial Aneurysm Secondary to Segmental Arterial Mediolysis Using Onyx®. Reed D
  o SOX-2 anophtalmia syndrome: a case report. CT Santos
  o Orbital Masses in children: a pictorial review. L Villarinho
  o Fractures caused by firearms: a new classification system. CT Santos
  o Periorbital masses in children: Do not forget Masson’s tumor! L Villarinho
  o Jaws: a classic revised. CT Santos
  o Association between nodularity of the liver surface, sarcopenia and visceral obesity in African-Americans, Varney E

Developments:

• Developed a secure imaging transfer process to allow all research images to be transmitted by Radiology research staff
• Dr. Howard-Claudio and team developed strategies to generate revenue for services rendered throughout the study start-up process
Challenges:
• An additional three Tesla MRI magnets needed to facilitate ongoing and future population health studies.
• Transferring research data would run more smoothly with a research PACS server and Imaging Biobank.
• The current physical space used to support research staff, students, volunteers, and other is makeshift and does not offer the lay-out or design to facilitate communications across the team or confidential communications.
• Inadequate funding to support the needs of postdoctoral students.
• Additional coordinators to facilitate Radiology faculty on their research efforts and other departments conducting imaging research.
• Communication between the Office of Research and the Radiology Department; limited information is provided to the Radiology concerning other departments conducting research that requires imaging (types of imaging/imaging protocols/number of studies). This information is critical in planning and allocating limited resources.

ADMINISTRATION

FACULTY IN EACH DIVISION

Interventional
• Mohammad Ali, MD
• Garth Campbell, MD
• Timothy McCowan, MD, Chairman
• Akash Patel, MD
• Henry Williams, MD
• Mark Duncan, NP
• Janice Huff, NP

Body Imaging
• Michael Doherty, MD
• John Faust, MD
• Stella Powell, MD
• Manoj Roda, MD
• Nilda Williams, MD

Cardiothoracic
• Ramesh Patel, MD
• Laura Smith, MD

ER Radiology
• Mark Bisesi, MD
• James Coleman, MD
• Ronald Pritchard, MD
• Javed Qureshi, MD

Pediatrics
• Henry Giles, MD

Neuroradiology
• Sam Baird
• E. Patrick Farley, MD
• Ramin Hamidi, DO
• Todd Nichols, MD
• Bruce Schlakman, MD

MSK
• Joseph Chaudry, MD
• Robert Morris, MD
• Kathryn Nutter, MD
• Christopher Reed, DO

Nuclear Medicine
• Edward Green, MD
• Anson Thaggard, MD
• Vani Vijayakumar, MD

Breast Imaging
• Susan Shamburger, MD

Research
• David Gordy, PhD
• Judd Storrs, PhD

Medical Physicists
• Ali Fatemi, PhD
• Hamid Khosravi, PhD

Grenada – General Radiology
• William Haney, MD
• Timothy Ragland, MD

Wellness Officer
• Tanja Bisesi, PhD

PART TIME:
Pediatrics
• Bernard Blumenthal, MD

Breast Imaging
• Kathleen Hardin, MD

Cardiothoracic
• Kristen Miller, MD

Neuroradiology
• Angela Graeber, MD
• Ramesh Patel, MD

Grenada – General Radiology
• Katherine Ragland, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
• Rameshkumar Patel, MD, Chairman
• Michael Doherty, MD
• Henry Giles, MD
• Vani Vijayakumar, MD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES

• Anna Williams, Administrative Assistant III
• Cheryl Williams, Departmental Business Administrator
• Dyon Williams, Education Administrator
• Jennifer Smith, Manager, Business Operations
• Judy Gunn, Manager, Business Operations
• Michelle Jones, Administrative Assistant IV

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
• Risk Management, 1
• EPIC Champion for Dept., 1
• I-Care Champion for Dept., 1
• Council of Clinical Chairs, 1
• Medical Executive, 1
• Community Outreach, 1
• Radiation/Laser Safety, 2
• Patient Access Subcommittee, 1
• Faculty Senate, 2
• Provider Burnout Task Force, 1
• Cancer Institute Dept. Member, 1
Department of Radiology

- Cardiology Imaging and Research Leadership Council, 1
- Revenue Cycle, 1
- Ambulatory, 1

NON-GRANT DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: None
Amount: N/A

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
- Recruited new faculty for Neuroradiology (2), Emergency Radiology (2), Interventional Radiology (3), Pediatric Radiology, Medical Physics, Body/Breast Imaging (2). And Body/Musculoskeletal Imaging (2)
- Supported continued expansion of departmental research program
- Continued successful department-wide Quality and Safety program with dedicated Quality and Safety officer
- Provided teleradiology and/or Interventional Radiology services for Select Specialty Hospital, Merit Health-River Oaks Hospital, Noxubee General Hospital, Holmes County Hospital, Jackson VA, and MS Sports Medicine
- Continued solid department performance for RVU’s, number of radiology exams, and gross professional charges
- Worked with UMMC hospital administration for radiology equipment and physical plant upgrades and enhancements

Development:
- Developed plan for Pediatric Imaging Center in new Pediatric Facility
- Construction started on new Interventional Radiology Facility

- Working with hospital administration on RFP for new Radiology PACS, VNA, and voice recognition software/hardware
- Recruited dedicated wellness officer for department
- Revised and initiated new faculty compensation plan
- Working with recruiting firms to attract needed faculty

Challenges:
- Severe shortage of radiology faculty despite some recruiting success
- Difficulty retaining radiology faculty; overwhelming clinical responsibilities with inadequate time for teaching, research, and scholarly activities
- Lack of full integration of the professional and technical portions of the department
- Difficulty recruiting for departmental diversity
- Insufficient number of support personnel; inadequate office and support space for administrative personnel
- Financial pressure to fund and manage department operations with decreasing resources
- Severely limited IT support for department
- Inadequately funded departmental Foundation account
- Inadequate physical facilities and antiquated equipment in some radiological subspecialties
LEADERSHIP ROLES

- Christopher Anderson, Department of Surgery Chair, Division Chief of Transplant Surgery
- Peter Arnold, MD, PHD, Chief of Staff, UMMC; Chief of Division of Plastic Surgery
- Brian Kogon, MD, Division Chief Pediatric and Adult Congenital Heart Surgery, Congenital Rotation for Thoracic Surgery Fellowship Director, Medical Student Clerkship in Congenital Cardiac Surgery
- Christopher Blewett, MD, Vice Chair of Administration, Division Chief Pediatric Surgery
- David Sawaya, MD, Program Director, Pediatric Surgery Fellowship
- James Wynn, MD, Vice Chair Faculty Development
- Michael Morris, MD, Sim Lab Director
- Marc E. Mitchell, MD, Division Chief Vascular Surgery, Vice Chair of Education, Program Director Vascular Surgery Fellowship
- Pierre de Delva MD; Division Chief General Thoracic Surgery; Program Director Thoracic Surgery Residency
- Truman M Earl, General Surgery Program Director; Section Chief Liver Transplant
- Larry Martin, MD, Division Chief Trauma Critical Care, Trauma Medical Director, Surgical Critical Care Program Director
- Matthew Kutcher, MD, Research Director, Director of Surgical Critical Care, Surgical Critical Care Associate Program Director
- Shuntaye Batson, MD, Director of Trauma Performance Improvement
- Renee Greene, Senior Education Administrator
- Shane Atkison, Department Business Administrator
- Jonathan Carroll, MD, Acute Care Surgery Program, General Surgery Associate Program Director
- Thomas Helling, MD, Division Chief of General Surgery
- Kenneth Vick MD, Director Bariatric Program, Sim Lab Associate Director
- Laura Vick MD, Director, Wound Care Program, Student Clerkship Director
- Felicitas Koller, MD, Associate Student Clerkship Director
- W. Shannon Orr, MD, General Surgery Associate Program Director
- Lawrence Creswell, MD, Cardio-thoracic Surgery Associate Program Director
- Christopher Bean, MD, Urology Program Director
- Benjamin McIntyre, MD, Plastic Surgery and Plastic Surgery Integrated Program Director
- Jared Davis, MD, Plastic Surgery and Plastic Surgery Integrated Associate Program Director
- Carolyn Cushing, MD, Plastic Surgery (Hand) Program Director
- Felicitas Koller, MD, Associate Student Clerkship Director
- Charles R. Pound, MD Division Chief of Urology, Associate Program Director

EDUCATION

RESIDENCY AND FELLOWSHIP PROGRAMS

Approved slots for learners

- Residency – Plastic Surgery: 6
- Plastic Surgery (Integrated): 6
- Vascular Surgery: Approved for 1 resident/year for 2 years
- Cardiothoracic Surgery: Approved 1 per year, 2 total at any given time
- Urology: 8
- General Surgery: 38

Fellowship:
- Plastic Surgery (Hand): 1
- Pediatric Surgery: 1
- Surgical Critical Care: 2
- Cardiothoracic Surgery: 2

Accreditation status

- Residency:
  - Plastic Surgery – Continued Accreditation with Warning
  - Plastic Surgery (Integrated) – Continued Accreditation with Warning
  - Vascular Surgery – Full Accreditation
  - General Thoracic – Full Accreditation
  - General Surgery – Continued Accreditation
  - Urology – Continued Accreditation

- Fellowship:
  - Plastic Surgery (Hand) – Continued Accreditation
  - Surgical Critical Care – Continued Accreditation
  - Cardiothoracic Surgery – Continued Accreditation
  - Pediatric Surgery – Continued Accreditation
  - Vascular Surgery – Continued Accreditation with Warning

Board pass rate

- Plastic Surgery
  - Qualifying – 75%; Certifying – 75%
- Plastic Surgery (Integrated)
  - Qualifying – N/A; Certifying – N/A
- Vascular Surgery
  - 50% first time pass rate (5 year Average)
- General Thoracic
  - Qualifying 100%; Certifying 100%
- General Surgery
  - Qualifying – 92%; Certifying – 81%
- Urology – Qualifying – 100%; Certifying – 100%

- Plastic Surgery (Hand)
  - Qualifying – N/A; Certifying – N/A
Pediatric Surgery – Qualifying – 100%; Certifying – 66%
Surgical Critical Care – Qualifying – 100%; Certifying – 100%
Cardiothoracic Surgery – Qualifying – 100%; Certifying – 100%
Vascular Surgery – Qualifying – 100%; Certifying – 50%

EDUCATIONAL EFFORT
Number of required courses/clerkships taught in the SOM: 4
Required courses/clerkships:
- SURG 631 Surgery
- SURG 652 General Surgery
- SURG 653 Cardiothoracic Surgery
- SURG 654 Surgical Critical Care

Number of elective courses/clerkships taught in the SOM: 9
Elective courses/clerkships:
- SURG 652 General Surgery
- SURG 653 Cardiothoracic Surgery
- SURG 655 Pediatric Surgery
- SURG 656 Vascular Surgery
- SURG 657 Trauma Surgery
- SURG 658 Urology
- SURG 660 Plastic and Reconstructive Surgery
- SURG 665 Breast Surgery
- SURG 668 Transplant Surgery

Number of course or co-course directors: 1
Number of program or associate program directors: 7

EDUCATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
Plastic Surgery:
- Dr. Jared Davis was appointed as Associate Program Director of the Independent and Integrated Plastic Surgery programs.
- Dr. Carolyn Cushing was appointed as Program Director of the Plastic Surgery Hand Fellowship.
- Hendrix Lectureship Best Presentation Award was presented to Dr. Somjade Songcharoen.
- Somprasong Songcharoen Academic Achievement Award for Highest In-Service Exam over 90 percentile was presented to Katherine Benedict
- Spencer Michalke, MD, PGY-2 Independent; Article, the Use of tPA in the Treatment of Frostbite: A Systematic Review. Hand 2019, 14(1) 13–18
- Benjamin Gooze, MD, PGY-2, Integrated; Poster Presentations:
  - Does Incisional Wound V.A.C. Sponge Width Affect Tension Off-loading: A Laboratory Model, SSPRS, Naples, FL, 6/2019 (Dr. Arnold – Faculty)
  - Early Mandibular Distraction Osteogenesis for Management of Symptomatic Micrognathia. SSCI, New Orleans, LA 2/2019 (Dr. Hoppe – Faculty)
- DermaClose for Soft Tissue Expansion in Complex Pediatric Reconstruction. JAB Wound Symposium. 2/19, Maui, Hawaii (Dr. Arnold and Dr. McIntyre – Faculty)
- Narges Horriat, MD, PGY2 Integrated. Poster Presentation, HAZARDS OF THE HARVEST: FAT GRAFTING AND IMPLANT RELATED INFECTIONS, ISAPS, ISAPS Miami, FL, 11/2018 (Dr. McIntyre – Faculty)
- Olumayowa Abiodun, PGY-2 Independent and Joseph Ogrodnik, PGY-3 Independent; Poster Presentation, Refinements in Autologous Breast Reconstruction: Use of Vicryl Mesh Sling for Secondary Mastopexy Following DIEP Flap Breast Reconstruction, AAHS, ASPN, ASRM Annual Meetings, Phoenix, AZ—1/2018
- Tony Weaver, PGY-2 Independent; Poster Presentation, IS IT TIME FOR FACE TIME?: ADVANCES IN PLASTIC SURGERY TELEMEDICINE POLICY, SOUTHEASTERN SOCIETY OF PLASTIC AND RECONSTRUCTIVE SURGEON, The Breakers in Palm Beach, Florida from June 17–20, 2018

Pediatric Cardiothoracic Surgery:
- The congenital program fulfills the congenital case requirements for the Thoracic Surgery fellows.

Vascular Surgery:
- Vascular Surgery Residency received approval for an increase in the number of residents starting in 2020.

Cardiothoracic Surgery:
- All Previous Citations Cleared

Cardiothoracic Surgery:
- Brian Kogon, MD – Recipient of the Evers Society M3 All Star Attending Award
- Dr. Pierre de Delva attended a Change Management training for UMMC leadership in February 2019
General Surgery:
- T. Mark Earl, MD – Recipient of Nelson Order TEACH (Toward Educational Advancement in Care and Health) Prize Finalist
- Dr. Laura Vick completed requirements for selection as certified wound specialist by the American Board of Wound Management
- Michael Morris, MD – Recipient of M3 Best Faculty Teaching Award
- Jonathan Carroll, MD – Recipient of the Robert Schmieg Resident Advocacy Award
- Shawn McKinney, MD – Recipient of the Fred Rushton Faculty Teaching Award
- Emily Grenn, MD – Recipient of Humanism and Excellence in Teaching Award
- Surgical Oncology Division – Recipient of the Division Teaching Award
- Tara Hughes, MD – Best Research Presentation at Hardy Lectureship and Symposium
- John C. Neill, Jr, MD – Recipient of M3 Best Resident Teaching Award
- Ramola Panchal, MD – Awarded scholarship to attend the annual Southern Thoracic Society Annual Meeting in Ft. Lauderdale, Florida.
- John Shaughnessy, MD – Awarded scholarship to attend the Vascular Annual Meeting in June 2019
- Twenty-three conference presentations were given by 16 residents at 8 separate national and regional meetings.

Transplant Surgery:
- Dr. Earl Inducted into Nelson Order 2019
- Surgical Oncology Awarded “Most Valuable Rotation” by surgical residents

Surgical Critical Care:
- Integrating M3 student education
- Improved Resident education
- The hybrid EM-SCC 2-year fellowship successfully graduated its first fellow from the Surgical Critical Care fellowship program.

Surgery Education:
- The 17th Annual James D. Hardy Lectureship and Symposium with guest lecturer, Andrew B. Peitzman, was held in April 2019.

Vascular Surgery:
- Held Mock Orals in October 2018 and June 2019.

Urology:
- Evers All Star Resident Award, Dr. Chris Murphy-Urology, 2019

Developments:
Plastic Surgery:
- Held Mock Orals in December, 2018 and May, 2019
- Held Cadaver Lab in October, 2018 and May, 2019 sponsored by Stryker and Axogen for plastic surgery residents and hand fellow
- Two visiting professors in October, 2018. Dr. Jamie Shores, Associate Professor Johns Hopkins University School of Medicine and Dr. Bruce Mast, Division Chief at the University of Florida

Transplant:
- Dr. Koller named new M3 Clerkship Director for FY’2020.

General Surgery:
- New rotation at MS Baptist Medical Center for PGY4 and PGY2 residents has been a great addition to the program.
- Continued development of a robust SIM Lab curriculum.
- Mock orals held every October and May

Vascular Surgery:
- Developing a community-wide weekend call schedule to include faculty from UMMC, St. Dominic’s Hospital and Baptist Hospital.

Urology:
- Established new Baptist Urology Educational experience with mid-level resident spending 3 months with Mississippi Urology group
- Incorporation of PGY 1 residents into Urology residency training program (6 mos each)
- Established a formal 3 month long resident rotation with focus on clinical research with protected time for research activity.

Challenges:
Plastic Surgery:
- Resident space is an ongoing issue with them using their library as a lounge also and the library is not large enough to adequately accommodate the residents who use this area for a library and lounge with computers in the work room.

Pediatric Cardiothoracic Surgery:
- Volumes prohibit being one of the ACGME accredited training programs in congenital cardiac surgery.

Vascular Surgery:
- Improving first time board pass rate.
Cardiothoracic Surgery:
- Case Volumes in Cardiac Surgery
- Faculty Turnover

Surgical Critical Care:
- Time for education

General Surgery:
- Resident study space is an issue with their lounge not large enough to adequately accommodate the number of residents who use the lounge and the computers in the workroom.
- Office space for fellows in subspecialty programs is limited.

Urology:
- Large clinical volume with limited faculty after unanticipated departure of a faculty member during this academic year
- Coverage of multiple facilities places additional stresses on already thin workforce

CLINICAL

CLINICAL PERFORMANCE

Patient Safety:
Urology:
- Protocol established for management of autonomic dysreflexia in spinal cord patients in clinical setting
- Radical Cystoprostatectomy Pathway utilizing standardized regional pain control
- Increased utilization of pharmacological prophylaxis for prevention of thromboembolic events

CLINICAL ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
Pediatric Cardiothoracic Surgery
- Achieved a congenital cardiac surgery mortality of 1.7% over the last 24 months. (Prior 4-year rolling mortality average was 4.7%)  
- Performed pediatric and adult congenital heart transplantation with 100% survival
- Continued to perform minimally invasive cardiac surgery through axillary incisions for certain congenital heart defects
- Streamlined the clinical and administrative team to 2 surgeon, 4 APPs, 2 nurse coordinators, and 1 administrator
- Maintained a monthly cardiac service line meeting to discuss issues that cross the boundaries of the individual areas that comprise the service line

Vascular Surgery:
- Implemented program to improve patient transition from the inpatient to the outpatient setting.
- Developed new clinical protocols and clinical pathways.

Transplant Surgery:
- Performed Mississippi’s first combined heart-liver transplant
- Sustained growth of the liver transplant program – 46 liver transplants in 2018

General Surgery:
- Kenneth Vick MD led efforts to obtain ACS Center of Excellence certification for the Bariatric Program
- Thomas Helling, MD led successful effort to reduce surgical site infections in colon and rectal surgery

Urology:
- Dr. Barraza has established an outpatient Pediatric Urology Clinic at Children’s of Mississippi in Biloxi
- Procurement of equipment and software for targeted prostate biopsy
- Increased utilization of mpMRI prostate to use for targeted prostate biopsy
- Dr. Pound worked with Radiation Oncology to perform first placement of SpaceOar in men undergoing radiation therapy for prostate cancer. (provides rectal protection from radiation exposure)

Developments:
Pediatric Cardiothoracic Surgery:
- Mohammed Ghanamah has joined the surgical team. He completed his training under Brian Kogon at Emory University/Children’s Healthcare of Atlanta several years ago. He is able to perform the full spectrum of congenital heart surgery.
- We have been working with Medicaid to enable us to care for all of the children with congenital heart disease in Mississippi. The most recent plan per Medicaid is that all patients with congenital heart disease will be required to receive care at UMMC, with the exception of border counties, from which children can continue to go out of state if desired.

Transplant Surgery:
- Development and implementation of an HPB enhanced recovery pathway to improve patient satisfaction and decrease length of stay for patients undergoing liver and pancreas surgery
- Development of “City-Wide” HPB to discuss challenging cases and latest development in patients with liver and pancreatic diseases with practitioners in the community

General Surgery:
- Laura Vick MD named as co-director of the Wound Care Program
Urology:
- Addition of Dr. Mark Barraza to faculty has been a tremendous boost to residency training program and clinical program in Pediatric Urology

Challenges:
Pediatric Cardiothoracic Surgery:
- It has been difficult to compete with strong out-of-state referral patterns and strong out-of-state marketing within the state. We continue to perform outreach and market our results. We continue to communicate with the Medicaid director in hopes of restricting out-of-state congenital cardiac care for Mississippi Medicaid patients.

Vascular Surgery:
- Securing enough operating room time.

Urology:
- Difficulty in Faculty Recruitment

RESEARCH

FACULTY SCHOLARLY PRODUCTIVITY
Faculty with primary appointments: 15
- Articles in peer-reviewed journals: 12
- Books published: 1
- Books chapters published: 2
- Members of national study sections or national or international committees: 29
- Journal editors
- Members of editorial boards: 5
- PIs on extramural grants or editorial boards: 1
- Number of Patent: 0

TOTAL EXTRAMURAL FUNDING (DIRECT + INDIRECT):
- Total Federal Funding (Direct + Indirect):
  NIH – $249,000
  DOD – $246,103
  Other – $0

- Total Non-Federal Funding (Direct + Indirect):
  AHA – $0
  NSF – $0
  Other – $7,022.45

TOTAL INTRAMURAL FUNDING (IRSP, FSE, ETC.):
IRSP – $27,000
FSE – $0
Other – $0

RESEARCH THAT IS NOT FUNDED BY GRANTS, WITH FUNDING SOURCE FOR EACH
- Research Name – Pediatric Cardiothoracic Surgery:
  - Congenital Heart Surgeon’s Society – Critical Left Ventricular Outflow tract obstruction study
  - Congenital Heart Surgeon’ Society – Unbalanced AV canal
  - Retrospective chart reviews
  - New surgical technique videos
  - Abbott – Post-approval 15 mm mechanical aortic valve study
  - Funding Amount – Variable
  - Funding Source – Appropriated funds.

RESEARCH ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES

Accomplishments:
Pediatric Cardiothoracic Surgery:
- Brian Kogon was the primary investigator on a Society of Thoracic Surgeons Congenital Heart Surgery Database study looking at readmissions following congenital cardiac surgery. It was presented at the national STSA meeting (11/18) and published in the Annals of Thoracic Surgery (6/19)

General Thoracic Surgery:
- In collaboration with the Cancer and Research Institute, we have introduced several Clinical Trials for Surgical Patients and increased enrollment overall of cancer patient in trials.

Urology:
- Working with Dr. Clark Henegan in Medical Oncology we have been successful in enrollment of our patients with bladder and renal cell cancer in ongoing clinical trials.

Developments:
Pediatric Cardiothoracic Surgery:
- Invited talk at the International symposium on congenital heart disease in the adult (5/19)

Urology:
- Current resident on research rotation actively working on clinical projects in area of posterior urethral valves in pediatric patients and prostate cancer demographic study working with the state tumor registry.

Challenges:
General Thoracic Surgery:
- Lack of protected time for research

Urology:
- Previous lack of dedicated time for resident participation in research activity was an impediment to accomplishing meaningful work.
- Clinical load for both faculty and residents makes it difficult to accomplish clinical research projects.

ADMINISTRATION

FACULTY IN EACH DIVISION
Plastic Surgery:
- Peter Arnold, MD, PhD
- Carolyn Cushing, MD
- Benjamin McIntyre, MD
- Abelardo Medina, MD, PhD
Department of Surgery

- Ian Hoppe, MD
- Jared Davis, MD

Cardiac Surgery:
- Anthony Panos, MD
- Lawrence Creswell, MD
- Richard Cochran, MD
- Hannah Copeland, MD

Pediatric and Congenital Heart Surgery:
- Brian Kogon, MD
- Mohammed Ghanamah, MD

Vascular Surgery:
- Marc E. Mitchell, MD
- Fred W. Rushton, MD
- Daniel E. Ramirez, MD
- Danon E. Garrido, MD

General Thoracic Surgery:
- Pierre de Delva, MD
- Jacob Moremen, MD

Transplant Surgery:
- Truman Earl, MD
- Christopher Anderson, MD
- James Wynn, MD
- Felicitas Koller, MD
- Shannon Orr, MD

Trauma / Critical Care:
- Larry Martin, MD
- Matthew Kutcher, MD
- Leon Sykes, MD
- Shuntaye Batson, MD
- Chinenyew Iwuchukwu, MD
- Jonathan Carroll, MD

General Surgery:
- Thomas Helling, MD
- Kenneth Vick, MD
- Gerald McKinney, MD
- Shawn McKinney, MD
- Laura Vick, MD
- Cheryl McCoy, PhD

Pediatric Surgery:
- Christopher Blewett, MD
- David Sawaya, MD
- Barry Berch, MD
- Michael Morris, MD

Urology:
- Charles Pound, MD
- Chadwick Huckabay, MD
- Christopher Bean, MD
- Mark Barraza, MD

MEMBERS OF THE PROMOTIONS AND TENURE COMMITTEE MOST APPLICABLE TO YOUR FACULTY
- James Wynn, MD (Chair)
- Christopher Anderson, MD
- Charles Pound, MD
- Larry Martin, MD
- Thomas Helling, MD
- David Sawaya, MD

DEPARTMENT’S ADMINISTRATIVE TEAM, WITH TITLES
- Christopher Anderson, MD, Department Chair
- Christopher Blewett, MD, Vice Chair Administration
- Marc Mitchell, MD, Vice Chair Education
- James Wynn, MD, Vice Chair Faculty Development
- Shane Atkison, Department Business Administrator
- Karen Marble, Surgery Revenue Manager
- Judy Gregory, Manager Business Operations
- Cheryl Dunson, Admin. Assistant III
- Jennifer Kennedy, Admin. Assistant III

DEPARTMENTAL VOLUNTEER SERVICE PROJECTS ENGAGED BY YOUR FACULTY, STUDENTS AND STAFF
General Thoracic Surgery:
- Commission on Cancer State Chair

NON-GRA N T DEVELOPMENT (FUNDRAISING) ACCOMPLISHMENTS
Major Fundraising Development: None
Amount: N/A

ADMINISTRATION ACCOMPLISHMENTS, DEVELOPMENTS, OR CHALLENGES
Accomplishments:
- Development of an incentive component of the department compensation plan.

Development:
None

Challenges:
- Turnover of administrative staff in multiple divisions due to compensation not keeping pace with experience and inflation
- Decrease in faculty morale due to budget constrains affecting their CEM accounts and travel
- American College of Surgeons Trauma Verification in progress