

Executive Summary

Blueprint for Academic Excellence School of Medicine - Columbia AY2019-2020

Introduction

The School of Medicine (SOM) continues to implement the goals and objectives outlined in our five year strategic plan. Our clinical training sites continue to grow in number, with the highest number of clinical faculty ever in Columbia and Florence campuses. This year, the SOM Curriculum Committee approved the most significant enhancements to our SOM curriculum in a decade, with changes to be phased in over the next three years. The Masters in Physician Assistant Studies program will graduate its first class in May, 2019, and the Nurse Anesthesia Program continues preparations to begin offering doctoral degrees. The S.C. Center for Rural and Primary Healthcare continues to enhance rural healthcare through clinical support programs and educational incentives that encourages providers to consider rural healthcare. The Palmetto Health-USC Medical Group has completed key IT and financial improvements this year, enhancing operational efficiency while better integrating with newly formed Prisma Health.

Highlights

Our new SOM Student Success and Wellness Center is offering academic and personal support to our students. The joint VA/SOM simulation center, opening spring of 2019, will significantly expand opportunities for experiential learning. The Research Center for Transforming Health launched the Emerging Physician Scientist Faculty Fellows Program, and we had record numbers of students participate in summer research activities. We continue to focus on a diverse and inclusive culture through diversity forums, investment in faculty development, and expanded diversity pipeline programs. Our generous alumni and donors donated appx. \$8.5 million to the SOM in FY18. The SOM continues to work with USC leaders to advocate for funding for a new SOM educational building.



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School of Medicine - Columbia



UNIVERSITY OF
SOUTH CAROLINA
School of Medicine



Blueprint for Academic Excellence

School of Medicine - Columbia

AY2019-2020

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Foundation for Academic Excellence

Mission Statement

We serve the people of South Carolina and beyond through exemplary medical and health education, transformative research, and compassionate patient care.

Updated: 02/28/2018

Vision Statement

To be part of a vibrant academic health center that provides access to the best evidence-based medical care and biomedical education, supported by research and cutting edge technologies.

Updated: 02/28/2018

Values

Excellence: We are committed to achieving the highest levels of personal and professional performance in all our endeavors.

Professionalism: We adhere to the highest standards of behavior guided by the values and practices of our professions.

Collaboration: We partner with individuals, teams, institutions and communities to enhance the value of our efforts.

Diversity and Inclusion: We create and sustain an inclusive and diverse environment, demonstrating in word and deed our commitment to valuing and supporting each other and those whom we serve.

Compassion: We are resolute in our efforts to relieve suffering and promote fairness.

Updated: 02/28/2018

Goals - Real Time

Goals for the School of Medicine - Columbia that are in progress for AY2019-2020.

Goal 1 - Curriculum Innovation

Goal Statement	Implement Curriculum Innovation Task Force recommendations as approved by Curriculum Committee.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education.</p> <p>Vision - A vibrant academic health center that provides access to the best biomedical education</p> <p>Values - Excellence, professionalism, collaboration</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Hire project leader to oversee implementation of curriculum change.</p> <p>Curriculum Committee and Subcommittees, Course Directors, and Clerkship Directors will develop action plans and initiate work on implementation of approved curriculum changes.</p>
Achievements	<p>Curriculum Committee approved the recommendations of the Curriculum Innovation Task Force in fall 2018 with anticipated implementation of curriculum changes in fall 2020.</p> <p>Initiated recruitment of a project leader to oversee curriculum change.</p>
Resources Utilized	<p>School of Medicine faculty, staff, and students</p> <p>Associate Dean for Medical Education</p> <p>Office of Medical Education and Academic Affairs</p>
Goal Continuation	Completion of the goal is anticipated in 2021.
Goal Upcoming Plans	<p>Hire project leader to oversee implementation of curriculum change.</p> <p>Curriculum Committee and Subcommittees, Course Directors, and Clerkship Directors will develop action plans and initiate work on implementation of approved curriculum changes.</p>
Resources Needed	<p>Curriculum Committee</p> <p>Course and clerkship directors</p> <p>Office of Medical Education and Academic Affairs</p> <p>Teaching faculty</p>
Goal Notes	

Goal 2 - Student Success and Wellness Center

Goal Statement	Establish a Student Success and Wellness Center.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education</p> <p>Vision - A vibrant academic health center that provides access to the best biomedical education</p> <p>Values - Excellence, professionalism, collaboration, diversity and inclusion, compassion</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Identify and renovate space.</p> <p>Identify leader, faculty coaches, and staff to work in center.</p> <p>Hire student tutors.</p> <p>Plan and implement services to increase student success and wellness.</p> <p>Partner with the School of Education to provide additional learning resources and evaluate best practices</p>
Achievements	<p>Renovated space in Building 3.</p> <p>Hired Assistant Dean for Preclinical Curriculum and administrative assistant to coordinate Student Success and Wellness Center.</p> <p>Tutoring - offering weekly tutoring sessions taught by M2s, M4s, masters NA and PA students (near peer teaching).</p> <p>Step 1 prep - offering prep sessions for M2s.</p> <p>UWorld board preparation resource - arranged for discounted subscriptions for students.</p> <p>Study help peer sessions - small groups set up with 25-30 students per session.</p> <p>USC Counseling Center - set up intake appointments for students who want web-based counseling services.</p> <p>Quiet room - created a quiet room in Success & Wellness Center.</p> <p>Stress reduction activities - puzzle in 3rd floor big open study area, etc.</p>
Resources Utilized	<p>Faculty and staff time</p> <p>A funds</p>
Goal Continuation	Completion of the goal is anticipated in 2020.

Goal Upcoming Plans	<p>Identify faculty coaches to work in center.</p> <p>Partner with the School of Education to provide additional learning resources and evaluate best practices.</p> <p>Plan pre-orientation sessions for incoming M1s focused on study skills, housing, food.</p> <p>Explore provision of academic support between M1 and M2 year for M1s who struggled academically.</p> <p>Set up a Success Center Advisory Board.</p> <p>Develop a process for hiring tutors.</p> <p>Collaborate with SOM-Greenville to identify ways to collaborate on student success and wellness.</p>
Resources Needed	<ul style="list-style-type: none"> •A funds •E-funds •Faculty and staff time
Goal Notes	

Goal 3 - Doctoral Program in Nurse Anesthesia

Goal Statement	Transition nurse anesthesia master's program to a doctoral program.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education.</p> <p>Vision - A vibrant academic health center that provides access to the best biomedical education</p> <p>Values - Excellence, professionalism, collaboration</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>The Masters of Nurse Anesthesia program is currently undergoing a mandatory transition to a doctoral program in 2019, as mandated by AANA/COA.</p> <p>Continue to develop partnership with College of Nursing to integrate existing MNA and DNP curricula to confer a doctoral degree.</p> <p>Develop a solid organizational plan that enhances open communication and strategic decision-making with USC SOM, CON, program administrators, and clinical partners.</p>
Achievements	<p>New program director hired.</p> <p>Completed Council on Accreditation of Nurse Anesthesia Programs re-accreditation self-study.</p> <p>Approval of DNP Program and courses from BOT and Graduate School.</p> <p>Held meetings with College of Nursing leadership to efficiently pool teaching resources.</p>
Resources Utilized	<p>Association Dean for Research and Graduate Education</p> <p>Nurse Anesthesia Program Director</p> <p>Faculty and staff time</p>
Goal Continuation	Goal is anticipated to be completed in 2020.
Goal Upcoming Plans	<p>Successfully complete re-accreditation process with Council on Accreditation of Nurse Anesthesia Programs.</p> <p>Continue to meet with College of Nursing leadership to efficiently pool teaching resources.</p> <p>Renovate office space to accommodate faculty and staff needs.</p>
Resources Needed	<p>Faculty and staff time.</p> <p>Funding for office renovation.</p>
Goal Notes	

Goal 4 - School of Medicine Five Year Strategic Plan (2017-2022)

Goal Statement	Implement School of Medicine Five Year Strategic Plan (2017-2022)
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education, transformative research, and compassionate patient care.</p> <p>Vision - A vibrant academic health center that provides access to the best evidence-based medical care and biomedical education, supported by research and cutting edge technologies.</p> <p>Values - Excellence, professionalism, collaboration, diversity and inclusion, compassion</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Strategic Planning Steering Committee will meet regularly to review goals and objectives at the one year mark and refresh the plan as needed.</p> <p>Responsible leaders will continue to work with teams to implement action plans for goals and objectives as assigned.</p>
Achievements	<p>Strategic Planning Steering Committee met in April, August, and October 2018 to review the Strategic Plan Dashboard and progress on objectives.</p> <p>Dean distributed a Strategic Plan Year One Progress Update to all School of Medicine faculty, staff, and students in December 2018.</p>
Resources Utilized	Office of the Dean Office of Continuous Professional Development and Strategic Affairs Faculty and staff from all departments
Goal Continuation	Goal is progressing on time with expectation that Strategic Plan 2017-22 goals and objectives will be appropriately revised between 2018-2022 as the local, regional, and national environment of academic health centers shifts and changes.
Goal Upcoming Plans	<p>Strategic Planning Steering Committee will meet during 2019-20 to review goals and objectives and refresh the plan as needed.</p> <p>Responsible leaders will continue to work with teams to implement action plans for goals and objectives as assigned.</p> <p>A Strategic Plan Spring 2019 Update brochure will be developed and distributed to internal and external stakeholders.</p>
Resources Needed	Faculty and staff from all departments.
Goal Notes	

Goal 5 - Master of Physician Assistant Studies Program

Goal Statement	Establish a Master's in Physician Assistant Studies Program
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education.</p> <p>Vision - A vibrant academic health center that provides access to the best biomedical education</p> <p>Values - Excellence, professionalism, collaboration</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Recruit new program director and two faculty.</p> <p>Conduct mock site visit summer 2018.</p> <p>Prepare for December 2018 accreditation site visit.</p> <p>Successfully achieve full accreditation status.</p>
Achievements	<p>PA program director, Director of Clinical Education, principal faculty, and Clinical Coordinator hired.</p> <p>Class of 2019 began clinical rotations in May 2018.</p> <p>Over 1,000 applications received for class size of 30.</p> <p>ARC-PA provisional monitoring site visit in December 2018.</p> <p>Matriculated third cohort in January 2019.</p> <p>Submitted responses and action plan to ARC-PA in January 2019 regarding provisional monitoring site visit observations.</p>
Resources Utilized	<p>Associate Dean for Research and Graduate Education</p> <p>PA Program Faculty</p>
Goal Continuation	Goal is progressing on time with the expectation that full accreditation status will be achieved in 2019.
Goal Upcoming Plans	<p>Graduate inaugural class in May 2019 with graduation rate of 95% or better.</p> <p>Achieve Physician Assistant National Certifying Exam (PANCE) pass rate for inaugural class that meets or exceeds the national average.</p> <p>Successfully achieve full, continuing accreditation status.</p>
Resources Needed	<p>PA Program faculty</p> <p>Associate Dean for Research and Graduate Education</p>
Goal Notes	

Goal 6 - Palmetto Health-USC Medical Group

Goal Statement	Optimize Performance of Palmetto Health-USC Medical Group.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Compassionate patient care.</p> <p>Vision - A vibrant academic health center that provides access to the best evidence-based medical care.</p> <p>Values - Excellence, professionalism, collaboration, compassion</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>The Medical Group strategic planning process was completed in December of 2018. This has led to better alignment of some Medical Group operational areas with Prisma Health to improve operational efficiency.</p> <p>The IT (One Chart) integration project was completed in fall of 2018, with focus now on optimizing performance. We are planning for new Epic software to manage patient registration and revenue cycle, to be implemented in 2020.</p> <p>The Medical Group Access Work Group has led efforts to expand timely access to services.</p> <p>As part of the Prisma Health Academics Council, Medical Group leaders have provided input to Prisma Health on educational and research programs.</p>
Achievements	<p>A joint PH-USC Medical Group / Prisma Health committee is systematically reviewing all operational areas to identify opportunities to optimize efficiency or effectiveness through collaboration or integration of efforts.</p> <p>Information Technology update to medical record and business systems (OneChart) was completed in fall of 2018.</p> <p>Access to primary care appointments has significantly improved in the past year, with new appointments available within less than five days within the Midlands service area.</p> <p>Medical Group leaders, as part of the Prisma Health Academics Council, authored an Academics White Paper which linked the importance of the academic programs and partnerships to achievement of the goal to improve the health of the people we serve.</p>
Resources Utilized	<p>PH-USC Medical Group funds</p> <p>Executive Dean and Associate Deans</p> <p>Clinical Departments Faculty and Staff</p>

Goal Continuation	Goal is progressing as expected. With the increasing pace of change in health care, the PH-USC Medical Group will need to continuously innovate care delivery processes and operational models.
Goal Upcoming Plans	<p>Engage in ongoing optimization of IT systems following the completion of the OneChart implementation.</p> <p>Continue to engage with Prisma Health partners to promote goals for excellence in the academic missions (clinical education and research). Monitor and participate in organizational and strategic initiatives of Prisma Health as needed to support and expand the clinical partnership between the new health company and the PH-USC Medical Group.</p> <p>Continue to work with Prisma Health partners to coordinate the clinical learning environment and ensure adequate training opportunities for USC clinical learners. The goal is to ensure a learning environment for USC learners, meet the health needs of our system and state, and ensure coordination and build efficiency.</p>
Resources Needed	Funds and personnel are in place and sufficient.
Goal Notes	

Goal 7 - LCME Accreditation Response

Goal Statement	Provide status reports to the LCME regarding accreditation standards/elements.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education</p> <p>Vision - A vibrant academic health center that provides access to the best biomedical education</p> <p>Values - Excellence, professionalism, collaboration, diversity and inclusion, compassion</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Implement continuous quality improvement program to ensure effective monitoring of the medical educational program's compliance with accreditation standards.</p> <p>Conduct focus group with medical students regarding feedback in LCME self-study independent student analysis.</p> <p>Update Appointment, Promotion, and Tenure guidelines for approval by the Provost's Office.</p>
Achievements	<p>School of Medicine remained fully accredited after 2017 LCME site visit with an indeterminate length of time.</p> <p>In response to LCME request for an action plan for cited elements, action plans were developed and submitted in April 2018. Action plans accepted by LCME in June 2018.</p> <p>Faculty Appointment, Promotion and Tenure Policies approved by University Committee on Tenure and Promotion for both the basic science and clinical units as well as the NTT guidelines for basic science faculty.</p> <p>Conducted surveys of students in November 2018 focused on cited elements in LCME site visit. Results showed improvement in majority of elements.</p> <p>Initiated work on status report due to LCME in April 2019.</p>
Resources Utilized	<p>Executive Dean</p> <p>Associate Dean for Medical Education</p> <p>Office of Medical Education and Academic Affairs</p> <p>Faculty and staff from all departments</p>
Goal Continuation	Goal is progressing on time with expectation that the LCME will request annual status report updates.
Goal Upcoming Plans	<p>Monitor progress on cited elements.</p> <p>Provide status report to the LCME in April 2019.</p>

Resources Needed	Executive Dean Associate Dean for Medical Education Office of Medical Education and Academic Affairs Faculty and staff from all departments
Goal Notes	

Goal 8 - Rural Health Center of Excellence

Goal Statement	Support and develop rural and primary care education, delivery, and sustainability in South Carolina through clinical practice, training and research.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Compassionate patient care.</p> <p>Vision - A vibrant academic health center that provides access to the best evidence-based medical care.</p> <p>Values - Excellence, professionalism, collaboration, compassion</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Establish a rural health center of excellence.</p> <p>Engage statewide partners in enhancing the delivery of healthcare in rural areas of S.C.</p> <p>Seek recurring funding for center of excellence.</p> <p>Expand programs in a spoke and hub fashion for provision of clinical care, education of health professions students and research.</p>
Achievements	<p>Proposal for Center of Excellence and ICARED funding for rural health in 2019 legislative cycle finalized and funds from SC DHHS allocated - total \$23.5M - \$7.5M recurring 2017-18, 2018-19.</p> <p>Coordinated meetings of Rural Health Center of Excellence statewide committee October 2017 to present.</p> <p>Established state-supported health professions scholarships/forgivable loans for medical students, physician assistants, advanced practice registered nurses as part of pipeline program in South Carolina Center for Rural and Primary Care.</p> <p>Funded primary care residency program in Sumter. Slated to begin July 2019.</p> <p>Developed a rural residency continuity track in Winnsboro, SC for one additional Family Medicine resident per year.</p> <p>Established rural practice information hub.</p> <p>Implemented rural practitioner/staff development and practice enhancement micro-grant program.</p> <p>Expanded capacity for rural clinical training sites at School of Medicine to increase student and resident interest in rural practice.</p>
Resources Utilized	
Goal Continuation	Goal is progressing on time with expectation that three to four additional years will be required to fully accomplish it.

Goal Upcoming Plans	<p>Pilot a rural clinical pharmacy and behavioral extension service for four SC AHEC zones.</p> <p>Fully implement primary care residency program in Sumter which is slated to begin July 2019.</p>
Resources Needed	<p>Legislative appropriations</p> <p>Faculty and staff time</p> <p>Associate Dean for Clinical Affairs</p>
Goal Notes	

Goal 9 - Research and Collaborations

Goal Statement	Foster research and promote collaborations and interdisciplinary research.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Transformative Research</p> <p>Vision - A vibrant academic health supported by research and cutting edge technologies.</p> <p>Values - Excellence, professionalism, collaboration</p>
Status	Progressing as expected (multi-year goal)
Action Plan	<p>Streamline clinical research submissions.</p> <p>Increase pre-proposal support for clinicians/residents.</p> <p>Reduce turnaround times for IRB reviews.</p> <p>Unify language and policies for IP, subject injury and COI.</p> <p>Plan MS biomedical technology program to fill need for well-trained research technicians.</p> <p>Complete 5K square feet research space in Building 1.</p> <p>Strategic utilization of Bldg 9 for joint VA recruitments and programmatic efforts.</p> <p>Explore clinical research opportunities with affiliate campuses and hospitals.</p> <p>Foster new initiatives in technology transfer, IP generation and strategies for NIH SBIR and STTR funding.</p>

<p>Achievements</p>	<p>The Center for Transforming Health (RCTH) was established in the Fall 2017 and is now in full operation under the direction of the Center Director, Dr. Christine Turley. The RCTH has launched several initiatives which directly address the above action plan. This includes the Emerging Physician Scientist program and three targeted faculty (pediatrics, family medicine and internal medicine) have been selected. In addition the opportunities to engage medical students and residents has expanded under the RCTH, which includes a formal summer research program targeting medical students: Student Opportunities for Academic Achievement through Research (SOAR). This has resulted in 30 formal positions, which span the basic science to clinical science disciplines.</p> <p>Facilitating funding and research through our partner systems through collaboration continues. This is particularly true for our VA partner- whereby a record number of VA funding applications (8) were submitted by USC faculty (SOM and Engineering) and this pace is expected to continue. For example, a SOM basic science faculty member was approved for VA funding eligibility - the first in over a decade. This speaks to the continued increase in the caliber and translational relevance of SOM medical research.</p> <p>In terms of fostering SBIR/STTR NIH funding, an early stage incubator laboratory was established on the SOM campus. This incubator space was occupied by the first successful SOM faculty driven SBIR Phase I funding. This has set another precedent for the SOM.</p> <p>New opportunities with our partners for collaborative research continues as investigators at the Greenwood Genetics Center are obtaining joint faculty appointments and the SOAR program will now entail 2 medical students doing research at this center.</p> <p>School of Medicine continues to serve as lead institution for NIH-funded South Carolina IDEA Networks of Biomedical Research Excellence (SC INBRE) with the goal of increasing NIH research capacity of the state. School of Medicine leads SC INBRE program office and supports 13 network and four outreach institutions, as well as providing educational, workplace and career development, and hands-on research training.</p> <p>Graduate students continue to excel in publishing and presenting at national meetings and peer reviewed journals and continue to receive competitive research support which includes NIH predoctoral awards and USC SPARC awards.</p>
<p>Resources Utilized</p>	<p>A funds E funds Associate Dean for Research and Graduate Education All departments faculty and staff</p>
<p>Goal Continuation</p>	<p>Goal is progressing as expected and viewed as an ongoing goal into the foreseeable future.</p>

Goal Upcoming Plans	<p>Successfully launch a second round of the Emerging Physician Scientist program.</p> <p>Expand collaboration with the Columbia VA Medical Center in terms of clinical research proposals and submissions.</p> <p>Examine effectiveness of new SOAR program and identify areas for improvement.</p> <p>Identify how to engage tenured SOM faculty in submission of research grant proposals and manuscripts for publication.</p>
Resources Needed	Continued support from Office of the Provost and Vice President for Research for recruitment of researchers is needed.
Goal Notes	

Goals - Looking Ahead

Goals for the School of Medicine - Columbia that are slated for the upcoming year.

Goal 1 - Diversity and Inclusion Pipeline Programs

Goal Statement	Expand pipeline programs that increase likelihood of under-represented students entering the health professions workforce.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education, transformative research, and compassionate patient care.</p> <p>Values - Excellence, professionalism, collaboration, diversity and inclusion, compassion</p>
Status	Newly Established Goal
Action Plan	<p>Initiate the Claflin University pipeline program to increase admissions to the Masters of Biomedical Science Program.</p> <p>Partner with Orangeburg High School for Health Professions on the establishment of an MOU to formalize collaboration of School of Medicine support for expansion of their programs.</p>
Achievements	<p>Initial work begun on Claflin University pipeline program to increase admissions to the Masters of Biomedical Science Program.</p> <p>Meetings held with Orangeburg High School for Health Professions to explore School of Medicine support for expansion of their programs. Representatives from the Orangeburg High School for Health Professions (OHSHP) met School of Medicine and College of Education deans to discuss opportunities for USC schools and colleges to enhance their partnership with the OHSHP. School of Medicine leaders have held meetings to discuss possible areas for involvement of the SOM.</p>
Resources Utilized	
Goal Continuation	Goal is anticipated to be completed within next three years.
Goal Upcoming Plans	<p>Finalize MOU with Claflin University for pipeline program to increase admissions to the Masters of Biomedical Science Program.</p> <p>Continue meetings with Orangeburg High School for Health Professions on identification of possible collaborations for expansion of their programs.</p>
Resources Needed	<p>Associate Dean for Diversity and Inclusion</p> <p>Assistant Dean for Diversity and Inclusion</p> <p>Faculty and staff time.</p>
Goal Notes	

Goal 2 - New Medical School Facilities

Goal Statement	Refine vision and plan for new medical school facilities.
Linkage to University Goal	<ul style="list-style-type: none"> •Educating the Thinkers and Leaders of Tomorrow •Assembling a World-Class Faculty of Scholars, Teachers, and Practitioners •Spurring Knowledge and Creation •Building Inclusive and Inspiring Communities •Ensuring Institutional Strength, Longevity, and Excellence
Alignment with Mission, Vision, and Values	<p>Mission - Exemplary medical and health education, transformative research, and compassionate patient care.</p> <p>Vision - A vibrant academic health center that provides access to the best evidence-based medical care and biomedical education, supported by research and cutting edge technologies.</p>
Status	Newly Established Goal
Action Plan	<p>In partnership with USC and other health sciences schools, facilitate the development and refinement of the vision for new medical facilities on the new health and biosciences campus.</p> <p>Collaborate with USC on advocacy for the new health sciences campus with legislators, the community, and potential donors.</p> <p>In partnership with USC Office of Development, obtain pledges toward the development of new medical school facilities as part of a new health and biosciences campus.</p> <p>Educate School of Medicine alumni about plans for new medical school facilities and opportunities for input and support.</p>
Achievements	USC and School of Medicine leaders have engaged numerous legislators and state officials to advocate for the creation of the new health sciences campus during the 2019 legislative session.
Resources Utilized	
Goal Continuation	Completion of the goal is dependent on the timing of state appropriations and other fundraising efforts.
Goal Upcoming Plans	<p>In partnership with USC and other health sciences schools, facilitate the development and refinement of the vision for new medical facilities on the new health and biosciences campus.</p> <p>Continue to collaborate with USC on advocacy for the new health sciences campus with legislators, the community, and potential donors.</p> <p>Continue to partner with the USC Office of Development to obtain pledges toward the development of new medical school facilities as part of a new health and biosciences campus.</p> <p>Continue to educate School of Medicine alumni about plans for new medical school facilities and opportunities for input and support.</p>
Resources Needed	A and E funds, recurring and nonrecurring state appropriations, philanthropy.
Goal Notes	

Academic Programs

Program Rankings

Academic programs that were nationally ranked or received external recognition during the Academic Year.

Medical Degree (M.D.) Program

Association of American Medical Colleges (AAMC)

March 12, 2018 notification

The AAMC Missions Management Tool (MMT) provides comparative outcomes data for medical education programs with full LCME accreditation as of January 1, 2018. The MMT is issued annually.

Ranks nationally in the 94th percentile for Percent of graduates practicing in primary care.

Instructional Modalities

Innovations and changes to Instructional Modalities in unit's programmatic and course offerings that were implemented during the Academic Year.

Medical Degree: Curriculum Committee approved framework for a new 2020 curriculum that includes increased focus on early clinical experiences, health systems science, and social determinants of healthcare. Will reorganize second year curriculum under new framework from current foundational sciences to an organ system approach that more closely aligns and integrates learning of clinical material. Introduced computerized testing in first year to better match learning objectives with assessment.

Biomedical Sciences (MS/PhD): Didactic courses are lecture based, although some courses in Applied Biotechnology concentration have a hands-on, lab based component. All research based courses (780 number) are hands-on research training in current biomedical methods & techniques.

Master's in Nurse Anesthesia: Embedded freshman clinical experiential learning into several didactic courses. Courses PHPH 761 & PHPH762 in place more than one year with great success & positive student response. Program 100% distance educational approved for all didactic courses to continue to better serve upstate area. Full time clinical coordinator positioned at Palmetto Health Richland to further strengthen student experiential learning.

Master of Physician Assistant Studies: Didactic Phase includes point-of-care ultrasound with practice on standardized patients occurring in multiple courses. In addition, unique courses in genetics and research are also included in the program curriculum. Clinical Immersion and Clinical Skills Lab expose the students to numerous, hands-on learning experiences in the simulation lab and other settings prior to clinical rotations. We continue to focus on active learning.

Masters in Rehabilitation Counseling: Instructional modalities in the 48 credit hour MRC degree program continue to include classroom-based learning, pre-clinical practice, and field experiences. In this past year, we refined the sequence of courses to assist students in moving more systematically through the degree program. We also updated the format of the comprehensive examination to better reflect student learning outcomes. We are in the process of replacing the MRC program with a 60 credit hour MA program. The MRC program is no

longer accepting new students and will phase out and the 2020-2021 one academic year. Current MRC students have the option of graduating with the 48 credit hour degree or transferring to the 60 credit hour degree program.

Certificate of Graduate Study (CGS) in Psychiatric Rehabilitation. Instructional modalities in the Certificate program includes classroom-based learning and capstone project in which the student, with a faculty advisor, completes a comprehensive independent study. While the instructional modalities have not changed, we streamlined the content of the program and reduced the number of required credit hours from 24 to 18. Approval of this change by the University occurred in early 2018 and became effective in Fall 2018. The rationale for this modification was based on concurrent changes in our master's degree program that made some of the Certificate classes unnecessary.

Master's in Genetic Counseling: Has continued to include more experiential learning in the HGEN 725, 726 Human Developmental Biology Courses. Students are frequently expected to come to class after reading/reviewing recorded powerpoint lectures with in-class activities focused on applications via case based learning. This has allowed for increased content into this course such that more clinical approaches to prenatal and pediatric genetic assessment are applied in the classroom, for what has traditionally been a didactic, lecture based course. Outcome includes first year students better prepared to enter clinical rotation at completion of first year of education.

Post-Baccalaureate Certificate in Biomedical Sciences: To enhance the academic success rate of students enrolled in post baccalaureate certificate in biomedical sciences program, the current didactic curriculum is being modified to meet the individual student needs.

Program Launches

Academic Programs that were newly launched during the Academic Year; those that received required approvals but which had not yet enrolled students are not included.

Master of Arts (M.A.) in Counseling and Rehabilitation. The 60 credit hour MA degree program was approved by SACSCOC in early 2018 and accepted its first students in fall 2018. The program is a modified and strengthened version of the 48 credit hour MRC degree program and addresses national changes in the education of professional counselors and in accreditation standards. The new program includes all of the content of the 48 credit hour degree program and incorporates previously existing electives as required classes. We are currently at work on the self-study component of the accreditation process and anticipate an accreditation site visit in early 2020.

Program Terminations

Academic Programs that were newly terminated or discontinued during the Academic Year.

The dual MD-MPH degree was discontinued due to a lack of student enrollment.

We are in the process of replacing the 48 credit hour Master's in Rehabilitation Counseling (MRC) program with a 60 credit hour MA program. The MRC program is no longer accepting new students and will phase out in the 2020-2021 academic year after the last students graduate. At that time, the program will be officially terminated. Current MRC students have the option of graduating with the 48 credit hour degree or transferring to the 60 credit hour degree program.

Academic Initiatives

Experiential Learning for Undergraduates

Initiatives, improvements, challenges, and progress with Experiential Learning at the Undergraduate level.

N/A

Experiential Learning For Graduate & Professional Students

Initiatives, improvements, challenges, and progress with Experiential Learning at the Graduate or Professional level.

Medical Degree: In preparation for new 2020 curriculum, Curriculum Committee approved increasing clinical experiences in first two years. Developing a pilot program using first & second-year students as health leads advocates in outpatient clinics across city with focus on social determinants of healthcare. Also expanded elective opportunities at Lexington Medical Center for fourth-year students. Mrs. Pastides offered a culinary medicine workshop to students to help them better understand value of providing patients with information about nutrition.**Biomedical Sciences (MS/PhD):** Obtained through hands-on courses which provide students opportunity to gain expertise in multiple biomedical research techniques & research courses and develop problem solving skills as they design, perform & carry out experiments to test hypotheses they've developed.

Master's in Nurse Anesthesia: Embedded freshman clinical experiential learning into several didactic courses to better reinforce knowledge being learned. Courses PPH 761 & PPH762 (replacing PPH 791, 792 & 775) have been in place for one year with great success & positive student response. Have a full time clinical coordinator for Columbia campus positioned at Palmetto Health Richland on full time basis to strengthen experiential learning.

Master of Physician Assistant Studies: Clinical Phase includes core rotations on Family Medicine, Internal Medicine, Emergency Medicine, General Surgery, Women's Health, Orthopedics, Behavioral Health, Pediatrics & two elective rotations providing PA students with excellent experiential learning. We continue to expand our sites in rural settings aligning with our mission.

Master's in Rehabilitation Counseling: Experiential learning continues to take place in pre-clinical course work & in formal clinical field experiences that include 150-hour practicum and 600-hour internship that take place in vocational & clinical rehabilitation service agencies.

Master of Arts in Counseling and Rehabilitation: Experiential learning in MA program will take place in pre-clinical course work & in formal clinical field experiences that include 150-hour practicum and 600-hour internship that take place in vocational & clinical rehabilitation service agencies.

Certificate of Graduate Study in Psychiatric Rehabilitation: Concludes with Independent Study capstone project. Some students choose to visit psychiatric rehabilitation sites & others choose to conduct do a research project. For either option, designated faculty member oversees all capstone projects.

Master's in Genetic Counseling: Embeds experiential learning throughout curriculum from first year Community Engagement/Service Learning outreach to Role Play Workshops with Actors to in-class assignments requiring student interaction with national genetic laboratories. Each activity is assessed for learning opportunity as it relates to development of Practice Based Competencies as defined by Accreditation Council for Genetic

Counseling.

Affordability

Assessment of affordability and efforts to address affordability.

Medical Degree: As the cost of medical education and student debt continues to rise, the School of Medicine continues to look for ways to allow a medical education to remain affordable for all students. Tuition increases have been modest, and as noted in our goals, the SOM continues to make increases in endowments and scholarships a high priority. This current academic year, we secured additional scholarship dollars through a \$40,000 endowed scholarship for medical students and two \$500,000 (\$1 million total) planned-giving commitments to establish scholarships for medical students.

Biomedical Sciences (MS/PhD): The cost of attendance is comparable to other regional MS and PhD programs. PhD students receive a stipend from their research mentor and are provided full tuition by the Biomedical Sciences Graduate Program. MS students are required to cover their own tuition and living expenses.

Master of Arts (M.A.) in Counseling and Rehabilitation: While a 60 credit hour degree will be more expensive than a 48 credit hour degree, professional counseling employment opportunities for graduates of 48 credit hour degree programs is diminishing. Many states already require 60 credit hour degrees for professional counselors. We have been proactive in making this change.

Certificate of Graduate Study (CGS) in Psychiatric Rehabilitation: The modified 18 credit hour certificate includes all the essential learning elements that were in the 24 credit hour degree program. The certificate is now more affordable and can be completed in one year.

Master's of Genetic Counseling: Program accepts nine students per year. For Fall 2019 admissions, we've added two tracks to the national match for admission to genetic counseling programs. We will match one applicant to a graduate research assistantship in the SOM Center for Disability Resources (provides stipend and in state tuition) and we will match two applicants to the SC Leadership Education in Neurodevelopmental Disorders training program (Provides second year stipend).

Reputation Enhancement

Contributions and achievements that enhance the reputation of USC Columbia regionally and nationally.

Biomedical Sciences: Several PhD students obtained extramurally funded fellowships such as NIH F31 predoctoral fellowships & one student received a NCI Predoctoral to Postdoctoral fellowship transition award.

Nurse Anesthesia: Recruits approximately 50% of each class from out of state. Discussions continue with Prisma Health to continue to strengthen local & regional placement of graduates. These graduates often return to their place of origin & with the quality, knowledgeable care they provide we have health care institutions

nationally seeking our graduates for employment.

Physician Assistant Studies: Class of 2019 student continued her active role as first PA student to hold a position on AAPA Political Action Committee. In October 2018 our students won student Challenge Bowl at South Carolina Academy of Physician Assistants conference earning right to compete at national American Academy of Physician Assistants conference.

Counseling and Rehabilitation: MRC program had been continuously accredited by Council on Rehabilitation Education (CORE) since 1976 and, when CORE merged with Council on Accreditation of Counseling & Related Educational Programs (CACREP) in 2017, MRC accreditation transferred to CACREP. CACREP is most highly regarded accrediting body for counselor education programs. When we seek reaccreditation as a 60 credit hour program, we will be re-accredited as a clinical rehabilitation counseling program.

Genetic Counseling: Faculty continue to practice clinically & participate in the national/international profession. Janice Edwards is facilitating a one week short course on genetics & genomics for early career maternal fetal medicine faculty in collaboration with Columbia University & University of California San Francisco.

Post-Baccalaureate Certificate in Biomedical Sciences: SOM and Claflin University are initiating pipeline academic program whereby Claflin students will matriculate in USC graduate school to earn MS degree in biomedical sciences. This additional training & degree will facilitate their potential advancement to medical or dental school. Memorandum of understanding is in final stages of consideration.

Challenges

Challenges and resource needs anticipated for the current and upcoming Academic Years, not noted elsewhere in this report and/or those which merit additional attention.

Overall, the SOM faces challenges with limited scholarships, aging facilities, limited classroom space, increasing in-state competition for student recruitment and clinical training sites.

Master's in Nurse Anesthesia: Program has moved to School of Medicine from a more shared Palmetto Health/USC program. Several positions changed with the greater university involvement. Affiliation partnering with Prisma Health (Formerly Palmetto Health and Greenville) hospital system will continue to be developed to ensure the continued high quality experiential experiences that the program has enjoyed. Conversion to a doctoral level (DNP) program is underway, with the expectations of implementation in 2020. The Graduate Program in Nurse Anesthesia will be in an accreditation year in the spring 2019, this re-accreditation is from the Council on Accreditation of Nurse Anesthesia Educational Programs. Preparations for this accreditation are underway.

Master of Physician Assistant Studies: Faculty turnover in the program has stabilized. Now, the major focus will be on the challenges of faculty development, satisfaction, and retention. Office space, classroom space, and parking are also global challenges in the School of Medicine.

Faculty Population

Faculty Employment Summary

Table 1. Faculty Employment by Track and Title.

	Fall 2018	Fall 2017	Fall 2016
Tenure-track Faculty	46	46	50
Professor, with tenure	19	18	18
Associate Professor, with tenure	15	14	13
Assistant Professor	7	9	13
Librarian, with tenure	5	5	6
Research Faculty	10	9	10
Research Professor	3	3	3
Research Associate Professor	2	2	3
Research Assistant Professor	5	4	4
Clinical/instructional Faculty	161	175	171
Clinical Professor	25	25	26
Clinical Associate Professor	54	55	50
Clinical Assistant Professor	80	93	94
Instructor	2	2	2
Lecturer	0	0	0
Visiting	0	0	0
Adjunct Faculty	40	45	47

Faculty Diversity by Gender and Race/Ethnicity

Note: USC follows US Department of Education IPEDS/ National Center for Education Statistics guidance for collecting and reporting race and ethnicity. See https://nces.ed.gov/ipeds/Section/collecting_re

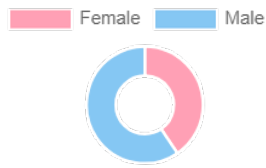
Table 2. Faculty Diversity by Gender and Race/Ethnicity, Fall 2018, Fall 2017, and Fall 2016.

	Fall 2018	Fall 2017	Fall 2016
Gender	227	243	244
Female	92	103	104
Male	135	140	140
Race/Ethnicity	227	243	244
American Indian/Alaska Native	0	0	0
Asian	27	31	30
Black or African American	8	9	10
Hispanic or Latino	4	6	6
Native Hawaiian or Other Pacific Islander	0	0	0
Nonresident Alien	4	6	5
Two or More Races	2	2	2
Unknown Race/Ethnicity	1	1	3
White	181	188	188

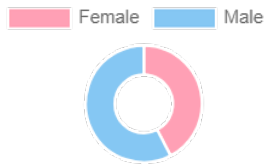
Illustrations 1 and 2 (below) portray this data visually.

Illustration 1. Faculty Diversity by Gender

2018 Faculty Gender



2017 Faculty Gender



2016 Faculty Gender

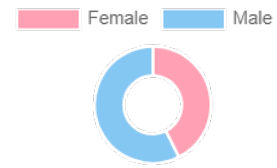
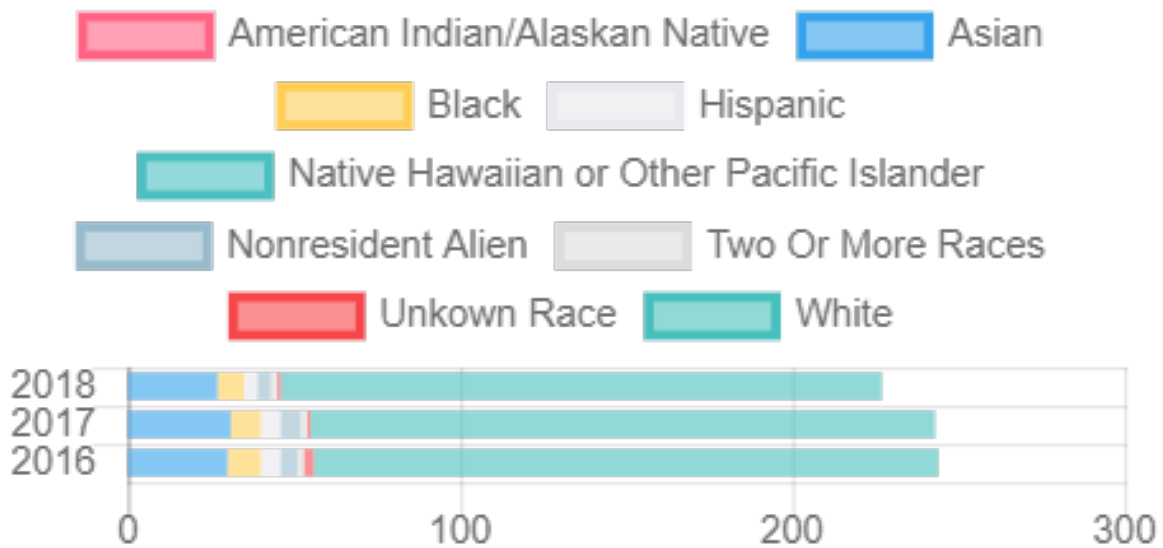


Illustration 2. Faculty Diversity by Race & Ethnicity



Faculty Information

Research and Scholarly Activity

Please refer to Appendix 3, which provides detailed information from the Office of the Vice President for Research, department of Information Technology and Data Management, including:

- 1) The total number and amount of externally sponsored research proposal submissions by funding source for the appropriate Fiscal Year.*
- 2) Summary of externally sponsored research awards by funding source for the appropriate Fiscal Year. Total extramural funding processed through Sponsored Awards Management (SAM) in the Fiscal Year, and federal extramural funding processed through SAM in the Fiscal Year. (Available at: <http://sam.research.sc.edu/awards.html>) Amount of sponsored research funding per faculty member in FY 2018 (by rank, type of funding; e.g., federal, state, etc., and by department if applicable).*
- 3) Number of patents, disclosures, and licensing agreements for three most recent Fiscal Years.*

The School of Medicine continues to be the leader in NIH extramural funding with over \$40M in the 2018 academic year. It is important to note that many of these funded research programs are multidisciplinary and reach across a number of USC colleges which include Engineering, Arts and Sciences and Pharmacy.

However, as with any academic medical center, a number of challenges confront us, with the most significant being how to engage clinicians in our medical research mission. Accordingly, the Research Center for Transforming Health (RCTH) was founded and forms a significant financial investment by the SOM and our medical partners. The overall mission of the RCTH is to serve as a collaborative focal point for accelerating translational research intended to improve the future health of populations and enable optimal health outcomes for our diverse population. The RCTH now has in full operation a developing physician scientist program, with 3 targeted physicians enrolled and plans for 3-4 more this academic year. In addition, we have harnessed one of our greatest resources, our medical students, to serve as medical research ambassadors. This has been achieved through the formation of a Student Opportunities for Academic Achievement through Research (SOAR) program. This has resulted in 30 formal positions, which span the basic science to clinical science disciplines.

Another challenge is to develop competitive state of the art medical research programs and initiatives in our crumbling infrastructure. To address this issue, several initiatives were put in place which included ~\$450,000 in renovating and improving the animal research facilities on this campus. In addition, and in collaboration with the VA, new state of the art imaging instrumentation has been put in place (microCT system) which is available to all USC faculty.

Demonstration of increased scholarly activity is not only demonstrated by continued levels of extramural funding, but by publications in high impact journals and the success of junior faculty and students. This year, several assistant professor tenure track faculty will be presented for consideration for promotion and tenure based upon significant funding and research productivity. Moreover, SOM graduate students continue to be awarded USC SPARC awards. Another benchmark for scholarly activity over and above publications and funding, is intellectual property (IP) disclosures. This past academic period, a more uniform and regular reporting of IP disclosures has identified several new patents awarded and multiple new disclosures. A highlight of this effort is the SOM has the first faculty member with an NIH SBIR Phase I funded start-up.

The SOM continues to expand collaborations which now include formal medical student rotations at the Greenwood Genetics Center and the Grand Strand Hospital system. Challenges which confront the SOM and our health care partners, is a streamlined, efficient method to perform clinical translational research-notably clinical trials. A priority for this year will be to continue to work with our health care system leadership to facilitate

and encourage clinical trials by our SOM faculty and affiliates.

Faculty Development

Efforts at Faculty Development, including investments, activities, incentives, objectives, and outcomes. Optional

Since April of 2017, faculty representing the professions of nursing, medicine, social work, behavioral health and medical education have participated in PACER (Professionals Accelerating Clinical and Educational redesign) representing Palmetto Health and USC. Although the national project is completed, the interprofessional and interdisciplinary team will continue meeting quarterly to improve patient-centered, team-based care in primary care, focused primarily on the residency programs of Family Medicine, Internal Medicine and Pediatrics. The work on Social Determinants of health will be expanded from addressing food scarcity to also include medical student engagement of screening and provision of resources and referrals for other social need priorities identified in these clinical populations. In addition, the PH/USC PACER team will serve in an advisory role for continuing education efforts in interprofessional education, including responses to the opioid crisis.

At the Florence Regional Campus of the UofSC School of Medicine quarterly faculty development continued in its 4th year with local interprofessional faculty taking the lead. Interprofessional education is also very important at our Columbia campus and the Director of Faculty Development in our Office of Continuous Professional Development and Strategic Affairs (OCPDSA) serves as lead for professional development of these (interprofessional) faculty members along with the two co-leaders of the USC IPE Committee.

At the Columbia campus, professional development has focused on collaboration with the UofSC Center for Teaching Excellence to prepare faculty members in foundational science and clinical disciplines for the design, implementation and assessment of a more clinical oriented and integrated curriculum. Multiple efforts in curricular change have already been initiated with the major curriculum shifts planned beginning the fall of 2020. Professional Development efforts have included a series of educational workshops and partnering with an instructional designer. These efforts are on-going and critical to the planning and preparation for the updated approaches to the curricular work. Measuring the impacts of participation in the professional development has included follow up with individual participants regarding changes in educational delivery such as active learning efforts as well as review of student evaluations and assessments. This work is ongoing.

Because our clinical learning environment is so critical to the education of medical and physician assistant (PA) students, development of faculty and residents in graduate medical education contributes significantly to student learning as well. Our ongoing efforts include work with individual programs such as Neurology, Pulmonary/Critical Care, the PA Program, new programs such as Plastic Surgery and Sumter Family Medicine Residency. Professional development for all program directors and assistant or associate program directors for critical issues such as interviewing residents for the national Match is also delivered annually. In many of the endeavors, we partner with the Palmetto Health Office of Medical Education (Graduate Medical Education - GME) and with the PH Human Resources business partner.

Other Activity

Efforts at Faculty Development, including investments, activities, incentives, objectives, and outcomes. Optional

Supplemental Faculty Info attachment:

SCHOOL OF MEDICINE-COLUMBIA FACULTY PUBLICATIONS
ACADEMIC YEAR 2017-18

Supplemental Info - Faculty

Any additional content on Faculty Information appears as Appendix 4. (bottom)

Teaching

Faculty to Student Ratio

The formula used to compute the ratio uses data from Faculty Population by Track and Title and Student Enrollment by Time Basis, as follows:

$$\frac{(Total\ Full-time\ Students + 1/3\ Part-time\ Students)}{((Total\ Tenure-track\ Faculty + Total\ Research\ Faculty + Total\ Clinical/Instructional\ Faculty) + (1/3\ Adjunct\ Faculty))}$$

Table 4. Faculty-to-Student Ratio, Fall 2018, Fall 2017, and Fall 2016

Fall 2018	Fall 2017	Fall 2016
01:2.6	1:2.19	1: 2.2

Analysis of Ratio

Analysis of the ratio, agreement with the data, and plans for the future to impact this ratio.

With a faculty to student ratio of 1:2.6 plus an additional 450 volunteer faculty members, the School of Medicine continues to have sufficient breadth of knowledge and expertise to educate our students both in the basic sciences and in the clinical arena. Continued affiliation with the Palmetto Health - USC Medical Group and other clinical partners will allow the SOM to continue to expand the number of clinical educators available for our students.

Faculty Awards Nominations

Faculty nominated for the following awards in the categories of Research, Service, Teaching, or Other.

Teaching Award Nominations

Recipient(s)	Award	Organization
Wilson, Britt	Arthur C. Guyton Educator of the Year Award	American Physiological Society
Oskeritzian, Carole	Michael J. Mungo Graduate Teaching Award	Office of the Provost

Other Award Nominations

Recipient(s)	Award	Organization
Sen, Souvik	SEC Faculty Achievement Award	Southeastern Conference Academic Consortium

Faculty Awards Received

Faculty of SOM-C were recognized for their professional accomplishments in the categories of Research, Service, and Teaching.

Research Awards

Recipient(s)	Award	Organization
Kelly, Michy	2018 Distinguished Research Service Award	Office of the Vice President for Research
Wood, Susan	2018 USC Breakthrough Star Award	Office of the Vice President for Research
Tella, Sri Harsha	2018 Raisz-Drezner Award	American Society for Bone and Mineral Research
Mott, David	2019 Distinguished Research Service Award	Office of the Vice President for Research
Morad, Martin	Leadership Award	Institute of Cardiovascular Sciences
Nagarkatti, Prakash	Fellow	National Academy of Inventors
Murphy, Angela	ASPIRE I Grant	Office of the Vice President for Research
Singh, Narendra	AAI Travel Award	American Association of Immunologists
Oskeritzian, Carole	Honor Thesis Mentor, Magellan Scholar	Office of the Vice President for Research
Testerman, Traci	Magellan Scholar student in lab	Office of the Vice President for Research
Singh, Udai	Travel Award	American Association of Immunologists
Singh, Narendra	SC Advancing Diversity in Aging Research Students	SC Advancing Diversity in Aging Research Program - National Institute on Aging
Nagarkatti, Mitzi	Fulbright Scholar Student	USC
Mayeaux, E.J.	Award of Merit for work on U.S. Colposcopy Standards	American Society for Colposcopy and Cervical Pathology

Service Awards

Recipient(s)	Award	Organization
Friedman, Harold	Career Achievement Award	School of Medicine Office of the Dean
Riley, Ruth	Dean's Leadership Award	School of Medicine Office of the Dean
Patel, Chandrashekhar	Diversity and Inclusion Leadership Award	School of Medicine Office of the Dean
Thomas, Lynn	Sustained School of Medicine Service Award	School of Medicine Office of the Dean
Bell, Floyd	Leonard Tow Humanism in Medicine Award	Gold Foundation
Selph, James	PH/USC Neurology Residency Program Faculty Mentor Award	Palmetto Health/USC School of Medicine
Holloway, Jeffrey	Palmetto PALS (Partners Advancing the Lives of Students) School Wellness Champion	Richland County School District One
Bhalla, Varun	Avery Award of Excellence	Avery's Angels Gastroschisis Foundation
Bhalla, Varun	Avery Award of Excellence	Averys Angels Gastroschisis Foundation
Bais, Rajeev	Community Service Award	School of Medicine Office of the Dean
Barlow, Shayne	2018 Educational Foundation Outstanding Service Award	Office of the Provost
Blachman, Morris	Outstanding Service Award	Society for Academic Continuing Medical Education

Teaching Awards

Recipient(s)	Award	Organization
Bell, Floyd	Teacher of the Year	MD Class of 2018
Sides, Andrew	Teacher of the Year	MD Class of 2019
Bertollo, Suzanne	Teacher of the Year	MD Class of 2020
Wilson, Britt	Teacher of the Year	MD Class of 2021
Blanck, Erika	O'Neill Barrett Teaching Excellence Award	MD Class of 2018
Keisler, Brian	2018 Clinical Practice Teaching Award	Office of the Provost
Joshi, Kaustubh	2018 Best Teacher in a Forensic Psychiatry Fellowship Award	American Academy of Psychiatry and Law
Anprasertporn, P. Becky	PH/USC Neurology Residency Program Faculty Teaching Award	Palmetto Health/USC School of Medicine

Pokharna, Renu	PH/USC Neurology Residency Program Faculty Teaching Award	Palmetto Health/USC School of Medicine
Bell, Floyd	O'Neill Barrett Teaching Excellence Award	MD Class of 2018
Hoppmann, Richard	ACP Laureate Award	American College of Physicians South Carolina Chapter
Catropo, James	ICPI Margaret Grimes, MD Medical Student Interest Group Grant	Intersociety Council for Pathology Information
Adams, Morgan	Faculty Teacher of the Year	School of Medicine Department of Family and Preventive Medicine
Adams, Morgan	Emerging Leaders Fellowship	Society of Teachers of Family Medicine
Carter, Charles	Halford Award for Leadership in Humane Education	South Carolina Area Health Education Consortium
Orr, Matt	Sharm Steadman Excellence in Family Medicine Education Award	South Carolina Area Health Education Consortium
Reagam, Lawrence	Alpha Omega Alpha Honor Medical Society Faculty Member	Alpha Omega Alpha Honor Medical Society - USC School of Medicine Chapter
Castleberry, Lauren	SASGOG Faculty Award	Society for Academic Specialists in General Obstetrics and Gynecology
Mattox, T. Fleming	ACOG-CREOG National Faculty Award	American College of Obstetricians and Gynecologists; The Council on Resident Education in Obstetrics and Gynecology
Campbell, Berry	CREOG Faculty Award	Palmetto Health-USC School of Medicine Department of Obstetrics and Gynecology Residency Program
Burch, Anna-Kathryn	Election to Alpha Omega Alpha Medical Honor Society	Alpha Omega Alpha Honor Medical Society - USC School of Medicine Chapter
Stallworth, James	String of Pearls Presenter	USC School of Medicine

Other Awards

Recipient(s)	Award	Organization
Frierson, Richard	President	American Academy of Psychiatry and Law
Morad, Martin	Invited Speaker	International Society for Heart Research Meeting, Nanjing, China
Kelly, Michy	Chairperson: Gordon Research Conference on Phosphodiesterases (PDEs)	Gordon Research Conferences

Ortinski, Pavel	Elected as Associate Member	American College of Neuropsychopharmacology
Azhar, Mohamad	Invited Speaker	Wakayama Medical University, Wakayama, Japan
Azhar, Mohamad	Editorial Board - Laboratory Investigation	United States and Canadian Academy of Pathology
Potts, Jay	Leadership Council Biological Sciences Director	Microscopy Society of America
Humphrey, Mark	Pipeline for Academy Leaders Fellow	Office of the Provost
Sims, Kerry	Selected to attend 2019 Robert C. Cefalo National Leadership Institute	American College of Obstetricians and Gynecologists District IV
Nottingham, James	Associate Member, American College of Surgeons Academy of Master Surgeon Educators	American College of Surgeons Academy of Master Surgeon Educators
Nottingham, James	Regional Counselor, American College of Surgeons for South Carolina	American College of Surgeons for South Carolina
Jones, Mark	Chair, South Carolina Committee on Trauma	South Carolina Committee on Trauma
Bynoe, Raymond	Surgical Trauma Intensive Care Unit Named for Dr. Bynoe	Palmetto Health Richland Hospital
Clair, Daniel	Program Chair, Eastern Vascular Society	Eastern Vascular Society
Clair, Daniel	Member, American Board of Surgery Vascular Surgery Board	American Board of Surgery
Averch, Timothy	President, Northeastern Section of American Urological Association	American Urological Association
Averch, Timothy	Chair, Quality and Improvement and Safety Committee, American Urological Association	American Urological Association
Averch, Timothy	Board Member, American Urological Association Political Action Committee	American Urological Association
Averch, Timothy	Editorial Board, Urology Practice journal	American Urological Association
Averch, Timothy	Editorial Board, Journal of Endourology	Journal of Endourology

Student Recruiting and Retention

Student Recruitment

Efforts, including specific actions, to recruit students into College/School programs.

Medical Degree: Developed a five-minute video focusing on Florence Regional campus to show to applicants on admissions interview days. Current students organized a second-look day for accepted applicants.

Biomedical Sciences (MS/PhD): After screening applications, promising applicants are invited to visit campus for a two-day recruitment visit. We bring in small groups of prospective students so they can meet with current students and faculty within our program as well as tour campus and research facilities. We provide materials and support to faculty who attend the Annual Biomedical Research Conference for Minority Students (ABRCAMS) as a mechanism to inform minority students about our program and the opportunities we offer. Through emails to primarily undergraduate institutions in SC, SC INBRE meetings, Discover USC and SC Science Fair we advertise our program to students across the state.

Master's in Nurse Anesthesia: Nurse Anesthesia faculty have been speaking with area nursing schools to better inform the potential future candidates of the program of the opportunities that exist in the anesthesia field. This effort will continue to increase and the presence of faculty and student at job fairs been utilized the past few years, with a very positive response. Working with registered nurses in the hospitals by encouraging job shadowing is an area of opportunity that the students and faculty have been encouraging nurses in the critical care areas by speaking with nurses and managers.

Master of Physician Assistant Studies: The program website is frequently updated and offers specific information on program requirements for admission and details about curriculum, faculty, and accreditation. The website provides a link to the Central Application Service for Physician Assistants (CASPA) which all applicants to the program must utilize. Our website advertises "Chat with the Chair" informational sessions with Admissions Chair, Open House information for program, and a link to program Facebook page. PA faculty continue to meet with pre-med undergraduate students group to provide information about program. The Program Director and Admissions Chair, Medical Director and other faculty will be participating in recruitment events at USC, Clemson University, and other universities throughout South Carolina. We will continue advertising our program on South Carolina Academy of Physician Assistants website.

Master's in Rehabilitation Counseling/Certificate of Graduate Study in Psychiatric Rehabilitation: We continue to recruit students through the provision of updated program information to state and local agencies serving persons with disabilities and to undergraduate programs and career counseling services of all colleges and universities in South Carolina. Faculty also attend career fairs at USC and other South Carolina colleges and promote the program at national counseling conferences.

Master's in Genetic Counseling: In 2017-2018, we created a Genetic Counselor Assistant position for USC undergraduates interested in the career. Three individuals have worked with the faculty as GCAs, all three have applied to USC for admission to our Program. Since 2015, we have offered an online course for individuals interested in pursuing genetic counseling education. Over 250 students from across the country and internationally have completed this course, which introduced the Program and core faculty. Many applicants reflect on the course experience in their applications for admission.

Student Retention

Efforts at retaining current students in College/School programs.

Medical Degree: We expanded the offerings of the newly-established Student Success and Wellness Center to provide student tutors for all basic science courses, and paid increased attention to student wellness with study breaks and other stress-reducing activities. Provided intake appointments for counseling center and supporting additional preparation for Step 1.

Biomedical Sciences (MS/PhD): In general, the Biomedical Sciences MS and PhD programs do not have a problem with retention. The overwhelming majority of students who start in one of these programs will complete their degree. Two students in the Fall 2019 PhD class are leaving the program - one is transferring to another institution (Univ of Virginia) and the other is transferring to the MS program. All other students who enrolled in fall 2019 are still in their respective programs.

Master's in Nurse Anesthesia: Providing extra didactic and experiential learning support/review session sessions. With the addition of clinical coordinator, at Columbia site and restructuring at Greenville site, now better able to recognize students with opportunities for improvement and thus intervene earlier to ensure continued success. A National Certification preparation class was started in 2017, to increase the success rate on this final exam, modules are assigned every week with 4 exams and a comprehensive final. This testing method is given under computerized model thus creating an atmosphere very similar to NBCRNA exam model. Graduate response to this preparation method has been very positive and program continues to have a 100% certification pass and employment rate.

Master of Physician Assistant Studies: Our program continues with faculty mentor assignments where each student is paired with a faculty mentor who guides them throughout program. Students meet with mentors at a minimum of once per semester or more frequently if academic or professional issues arise. During the Didactic Phase, the Director of Didactic Education monitors all student grades and provides faculty mentors with regular updates and notifications when a student's grade drops below 80. During the Clinical Phase, the Director of Clinical Education provides these student updates. Our retention rate is 98.7%.

Master's in Rehabilitation Counseling (MRC and MA): For students who started the 48 credit-hour master's degree program in 2015-2016 (N=16):

-
- 5 graduated in 2 years. •
- 7 graduated in 2.5 years. •
- 2 are on track to graduate with 60 credit-hours of study in 3.5 years. •
- 2 are working with persons with disabilities in other capacities.

Master's in Genetic Counseling: We had one student drop from the Program during first week of classes for family reasons. This is the first example of attrition in Genetic Counseling in over 25 years.

Student Enrollment & Outcomes

The following data was provided by USC's Office of Institutional Research, Assessment, and Analytics.

Note: Student enrollment and outcomes data are calculated by headcount on the basis of primary program of student only.

Student Enrollment by Level & Classification

Table 5. Student Enrollment by Level & Classification.

	Fall 2018	Fall 2017	Fall 2016
Undergraduate Enrollment			
Freshman	0	0	0
Sophomore	0	0	0
Junior	0	0	0
Senior	0	0	0
Sub Total	0	0	0
Graduate Enrollment			
Masters	180	153	131
Doctoral	51	57	53
Graduate Certificate	28	24	30
Sub Total	259	234	214
Professional Enrollment			
Medicine	380	378	373
Law	0	0	0
PharmD	0	0	0
Sub Total	380	378	373
Total Enrollment (All Levels)	639	612	587

Illustration 3. Undergraduate Student Enrollment by Classification

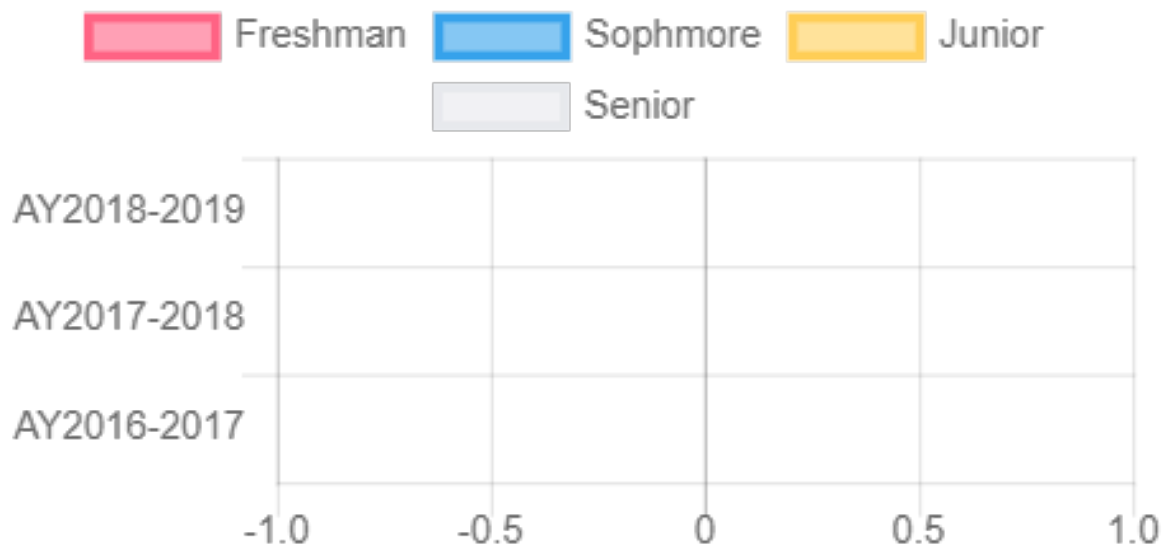


Illustration 4. Graduate/Professional Student Enrollment by Classification

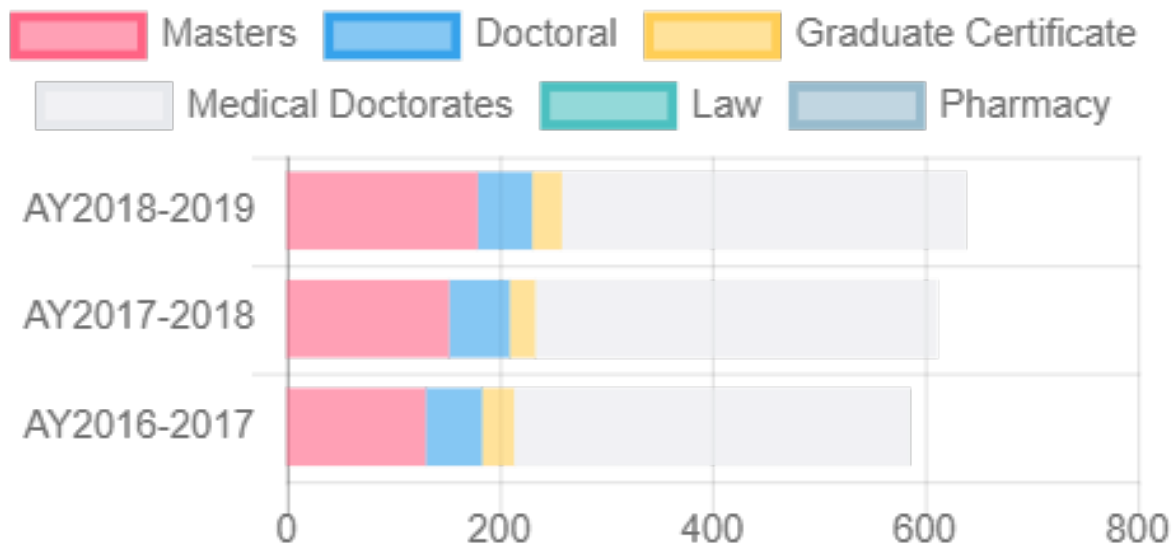
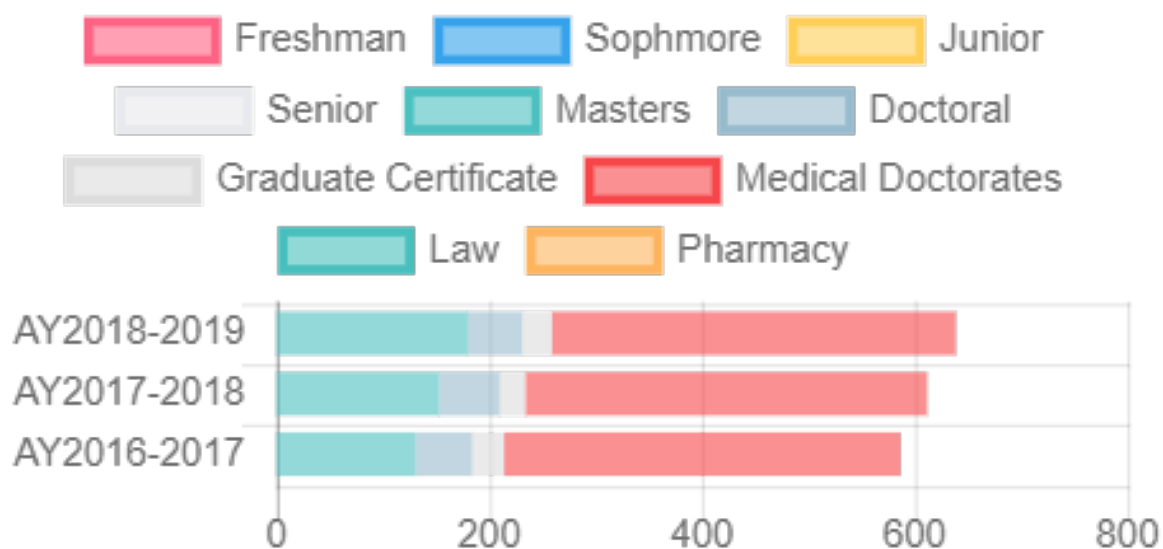


Illustration 5. Total Student Enrollment by Classification (All Levels)



Enrollment by Time Status

Table 6. Student Enrollment by Level and Time Status.

	Fall 2018	Fall 2017	Fall 2016
Undergraduate	0	0	0
Full-Time	0	0	0
Part-Time	0	0	0
Graduate/Professional	639	612	587
Full-Time	615	572	555
Part-Time	24	40	32
Total - All Levels	639	612	587
Full-Time	615	572	555
Part-Time	24	24	24

Student Diversity by Gender

Table 7. Student Enrollment by Gender.

	Fall 2018	Fall 2017	Fall 2016
Undergraduate	0	0	0
Female	0	0	0
Male	0	0	0
Graduate/Professional	639	612	587
Female	364	318	295
Male	275	294	292

Illustration 6. Undergraduate Student Diversity by Gender

2018 Undergraduate Gender



2017 Undergraduate Gender

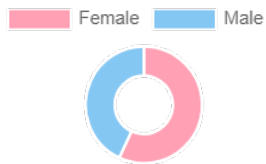


2016 Undergraduate Gender

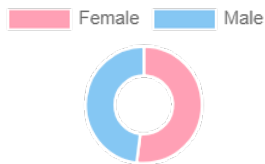


Illustration 7. Graduate/Professional Student Diversity by Gender

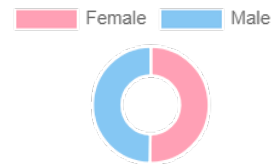
2018 Graduate Gender



2017 Graduate Gender



2016 Graduate Gender



Student Diversity by Race/Ethnicity

Table 8. Student Enrollment by Race/Ethnicity.

	Fall 2018	Fall 2017	Fall 2016
Undergraduate	0	0	0
American Indian/Alaska Native	0	0	0
Asian	0	0	0
Black or African	0	0	0
Hispanic or Latino	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0
Nonresident Alien	0	0	0
Two or More Races	0	0	0
Unknown	0	0	0
Race/Ethnicity			
White	0	0	0
Graduate/Professional	639	612	587
American Indian/Alaska Native	0	0	0
Asian	50	51	46
Black or African	48	45	51
Hispanic or Latino	13	12	12
Native Hawaiian or Other Pacific Islander	0	0	1
Nonresident Alien	16	17	18
Two or More Races	21	18	15
Unknown	9	11	14
Race/Ethnicity			
White	482	458	430

Illustration 8. Undergraduate Student Diversity by Race/Ethnicity

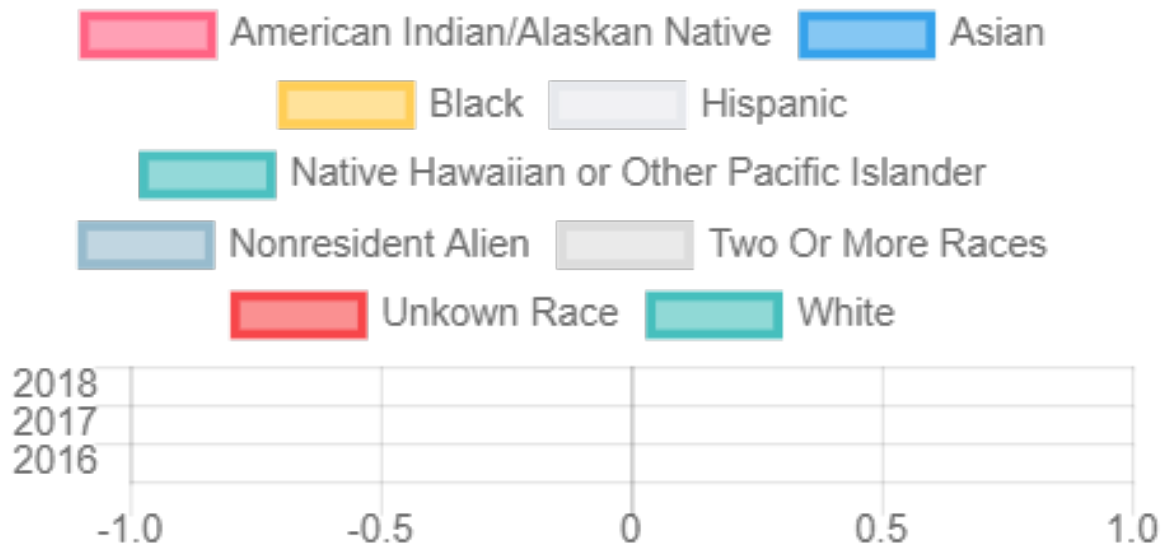
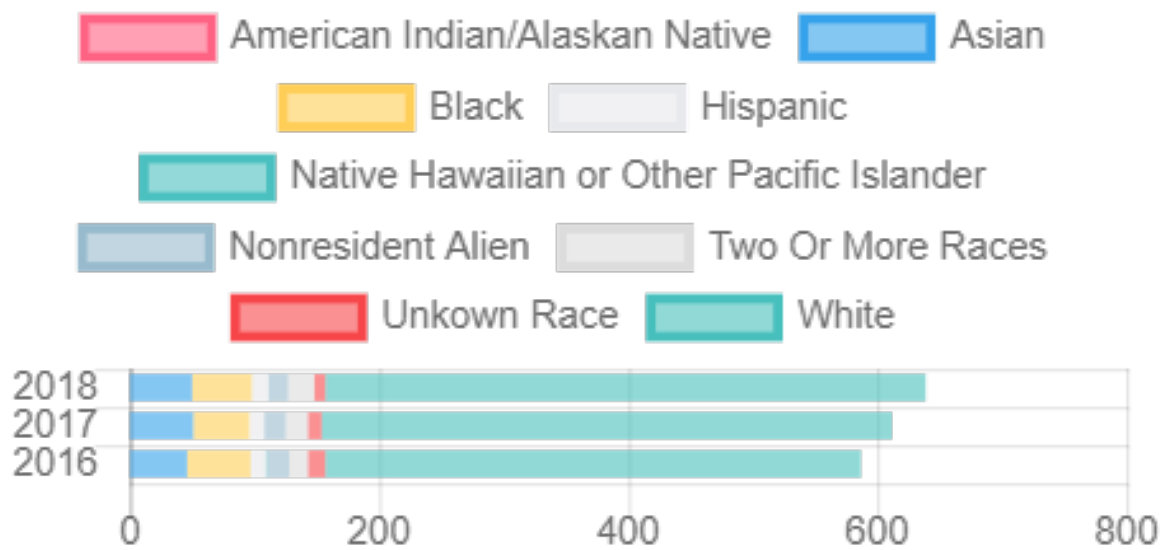


Illustration 9. Graduate/Professional Student Diversity by Race/Ethnicity



Undergraduate Retention

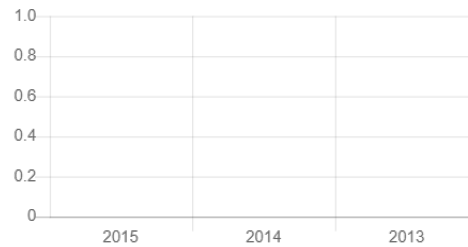
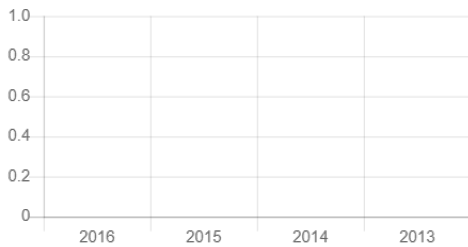
Table 9. Undergraduate Retention Rates for First-time Full-time Student Cohorts

	First Year	Second Year
Fall 2016 Cohort	0%	N/A
Fall 2015 Cohort	0%	N/A
Fall 2014 Cohort	0%	0%
Fall 2013 Cohort	0%	0%

Illustration 10. Undergraduate Retention, First- and Second Year

First Year

Second Year



Student Completions

Graduation Rate - Undergraduate

Table 10. Undergraduate Graduation Rates for First-time Full-time Student Cohorts at 4-, 5-, and 6 Years.

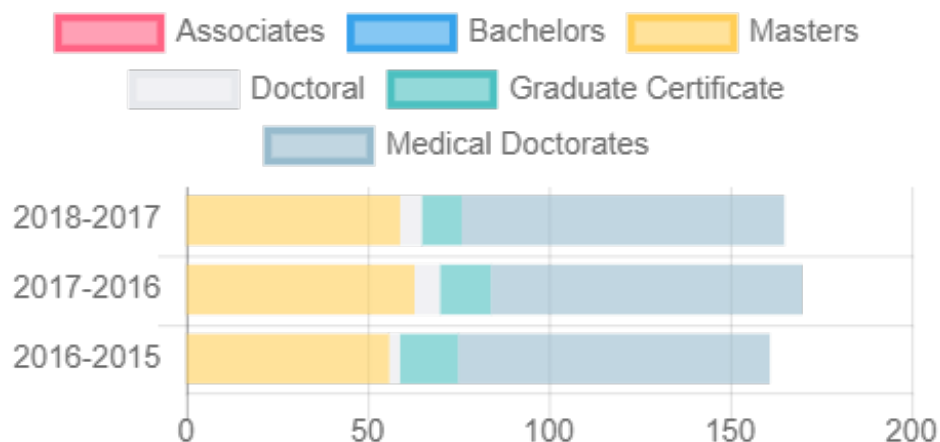
	2011	2010	2009
4-Year Same	0%	0%	0%
4-Year Diff	0%	0%	0%
4-Year Total	0%	0%	0%
5-Year Same	0%	0%	0%
5-Year Diff	0%	0%	0%
5-Year Total	0%	0%	0%
6-Year Same	0%	0%	0%
6-Year Diff	0%	0%	0%
6-Year Total	0%	0%	0%

Degrees Awarded by Level

Table 11. Degrees Awarded by Level.

	AY2017-2018	AY2016-2017	AY2015-2016
Associates Degree	0	0	0
Bachelors	0	0	0
Masters	59	63	56
Doctoral	6	7	3
Medical	89	86	86
Law	0	0	0
Pharmacy Doctorate	0	0	0
Graduate Certificate	11	14	16

Illustration 11. Degrees Awarded by Level



Alumni Engagement & Fundraising

Alumni

Substantial activities, engagements, and initiatives with alumni, focusing on relationships and activities with alumni.

AY2018-2019 was a year of growth and strategizing for alumni operations. A new permanent FTE position was created and an Alumni Engagement and Marketing Manager was hired to enhance opportunities for building meaningful relationships with our current and future alumni constituency while simultaneously increasing marketing and communications efforts related to programming. The position manages annual giving program and processes. A part-time temp position was added to provide much-needed administrative support to Associate Director of Alumni Relations and Development and to implement processes for collecting and updating contact and key information for our alumni constituency to improve accuracy of data. During summer of 2018 a survey was conducted of alumni and students to identify ways to best involve alumni in the life of the School of Medicine, and to engage current students in an impactful way. The fall meeting of SOM Alumni Association was used as a brainstorming and focus group session to gain perspective on needs of alumni and role that board members would like to play moving forward. Based on feedback, the board's bylaws were revised, updated and voted on at spring 2019 board meeting.

Other activities: 1) a new alumni e-newsletter Garnet Microscope which is emailed to all alumni with active email addresses on monthly basis; 2) initiating alumni Facebook group to keep alumni up-to-date and provide a way to reconnect with other alumni; 3) creating and implementing new registration, donation and auction processes for Black Tie White Coat Gala, and creating sponsorship marketing materials to help increase community awareness and corporate sponsorship of event; 4) hosting barbecue at Zone for alumni reunion classes the weekend of 2018 Gala; 5) planning fall 2018 alumni weekend that was paired with annual alumni tailgate event; 5) hosting 2019 Black Tie White Coat Gala and class reunion brunch and 6) participating in first and second Give4Garnet university-wide fundraising days (2018 and 2019).

In recent years, while total number of attendees at the Gala have increased, the overwhelming number of those in attendance are students, and alumni attendance and interest in the Gala has waned. While the event is held for the primary purpose of raising money to support the school's alumni scholarship fund and the Free Medical Clinic of Columbia, the amount generated from the event is not enough to justify the amount of staff time spent planning and carrying out the massive event. Additionally, it does not align well with our office's goals and objectives relating to fundraising and alumni relations. Over past two years, we have made adjustments and tried several creative approaches to generate better results, but none of these efforts appear to make much difference. As such, a top priority for AY2019-2020 will be to evaluate the Gala as a team, in order to determine if event should continue moving forward. If we collectively determine that event should be eliminated, it will open the door for our staff to be much more creative in developing and implementing a myriad of new programs and approaches to engage alumni, such as establishing alumni chapters in key areas of state and country, and developing mentorship opportunities for alumni that are limited in time commitment, but ultimately more meaningful. It would also enable us to spend more time in expanding our communications and marketing efforts for school in ways that are designed to capture our alumni's attention. Likewise, Associate Director of Alumni Relations and Development would have more time to devote to meeting face-to-face with alumni and building relationships with them. During our annual strategic planning retreat, the Office of Development and Alumni Relations team will identify key goals and objectives for year ahead that continue to build upon our successes, and lead to new and exciting ways to connect with alumni.

Development, Fundraising and Gifts

Substantial development initiatives and outcomes, including Fundraising and Gifts.

In FY 2018 School of Medicine generated a total of \$8,492,838. This included: \$1,747,547 in gifts; \$6,744,255 via SAM; and \$1,036 gifts in-kind. Of this, \$8,242,448 was comprised of spendable dollars, while \$250,391 supported our endowment. To date, in FY 2019, we have raised \$6,280,484. Of this, \$5,536,204 is in spendable dollars, and \$744,281 supports our endowment. In comparison, last year around the same time, we were at \$5,850,599, which puts us on track to exceed what we generated last year. This year was first full year of our Dean's Circle fundraising program and it appears to be having a positive impact on number of annual gifts we are booking at \$1,000+ level.

For the first time we increased stewardship efforts and introduced a new student scholar stewardship program. We continued monthly birthday email/card program, whereby emails or cards are sent to alumni, donors & friends on their birthday months. We continued our Thanksgiving "Thankful for You," holiday card mailing. These efforts have been well received & will hopefully lead to better donor & alumni relations & increased giving.

Office of Development & Alumni Relations & Office of the Dean have been focused on building an executive advisory council. Council's primary role consists of fundraising & helping us identify sources & prospects to enable us to achieve our goals & objectives in SOM strategic plan. Council consists of 16 individuals & holds two meetings per year (fall/spring). Meetings were held in April 2018, October 2018 & March 2019. First three meetings of council have focused on educating members about three prongs of what we do - education, research & patient care - by showcasing a number of faculty, students & programs. During second meeting we provided council with early outline for a case statement we're developing & elicited their feedback about this & key themes for an upcoming promotional video for SOM. During most recent meeting we took provided council with an early draft of the case for support document, & showed them new promotional video, as well as several other videos about Florence Campus and School's FoodShare South Carolina Program. Our intention was to seek feedback & give them an active role and voice in building a compelling case for the school thus instilling a sense of ownership in them. Over course of three meetings, council members have been extremely engaged, vocal & genuinely interested. Collective energy of group is palpable & we'll continue having dialogue & identifying ways they can help us enhance our fundraising.

Overall, based on what we've generated over past three years, we're having an average fundraising year. A Senior Director of Regional Development for Health Sciences position was created. Housed within SOM, the position focuses 50 percent of time on fundraising & enables us to expand bandwidth for identifying, qualifying & soliciting major gift donors, particularly those in other states.

In AY 2019-2020, there will be increased emphasis on building our annual giving programs, including Dean's Circle program & on increasing total number of donors & total number of donors that are upgraded. Associate Director of Alumni Relations & Annual Giving will focus more on meeting face-to-face with alumni & soliciting those with strong annual giving histories for annual gifts. Alumni Engagement & Marketing Manager will focus on creating a strategic and comprehensive annual giving program & creating a systematic approach to prioritizing crowdfunding & special appeal projects. Our major gift efforts will include working more closely with offices of Corporate & Foundation Relations & Gift Planning to diversify our portfolio of gifts. With less attention to onboarding & training new employees and greater attention to fundraising by Senior Director of Development & Alumni Relations & with assistance of the Senior Director of Regional Development for Health Sciences, we will expand our reach across country & generate more leads & visits, which should result in increased philanthropy at both annual & major gift levels.

It's projected that SOM is likely to receive funding from state legislature this year to support building of a new

medical education building, which would catapult Office of Development & Alumni Relations into high gear, as it relates to preparing for a capital building campaign. As part of this effort, a case statement & other relative marketing materials are currently in development & are projected to be ready by fall 2019. It is highly likely that our major gift efforts for AY 2019-2020 will focus most intensely on securing leadership gifts for future SOM education building. From a logistical standpoint, the following will be needed 1) a review & revision of existing portfolios, as necessary, by all fundraising staff; 2) strategic plan for effectively engaging prospects; 3) more robust stewardship program; 4) strategic marketing communications plan related to forthcoming capital campaign.

Community Engagement

Description

Community engagement and community based research, scholarship, outreach, service or volunteerism conducted, including activities at the local, state, regional national and international levels.

FoodShare: School of Medicine is a founding partner in FoodShare, a program that works to expand access to fresh produce and nutrition education for low income families in the Columbia area.

Carolina Survivors Clinic: Led by Dr. Rajeev Bais, clinic supports patients & families representing countries from all continents with two community-based programs - Scholastic Soccer Program & Survivor Garden Project.

SMART Physicals: Department of Orthopedics & Sports Medicine provides pre-participation physicals to area high school students prior to organized athletic participation.

Free Medical Clinic: School of Medicine faculty & residents volunteer at the Free Medical Clinic in Columbia on a regular basis.

Healthy Strides 5K & Health Fair: Second annual SOM Healthy Strides 5K & Community Health Fair held April 2018 & benefitted FoodShare. Third annual event will be March 2019 & benefit FoodShare SC & MLK Community Center.

South Carolina Center for Rural and Primary Healthcare: Led by Drs. Bill Anderson & Chuck Carter, Department of Family & Preventive Medicine, the Center is leading statewide collaboration on rural and primary care education, delivery through clinical practice, training & research. It develops & supports training programs, continuing education & clinical practice improvement for rural physicians, & supports rural health research by both employing and testing best practices developed by the Center as well as those tested in other states. Initiatives this year included expansion of ICARED clinical outreach to rural communities; collaboration with MUSC to launch a statewide ECHO project for Maternal-Fetal Medicine; establishing a statewide rural innovations grant program; support of FoodShare expansion to rural communities; rural practice micro-grants; ultrasound training; and rural practice forgivable loan program for medical students, nurse practitioners, and physician assistants.

SC Assistive Technology Program: Center for Disability Resources in SOM Department of Pediatrics leads SCATP, a federally funded program concerned with getting technology into the hands of people with disabilities so that they might live, work, learn and be a more independent part of the community.

Medical Legal Partnership: In Fall 2018 our Carolina Health Advocacy Medicolegal PartnerShip (CHAMPS) program received jointly with Greenville Health System Medical Legal Partnership program, a \$1.02 million Duke Endowment grant to continue & expand programs to further serve children and families in the Midlands and Upstate. The program is a healthcare delivery model which serves healthy, acutely ill and chronic/complex kids by integrating legal assistance as a vital component of medical care to address the social determinants of health, such as income instability, Medicaid, housing conditions, and end of life care. It also serves to educate law, medical and other health-related students on interdisciplinary collaboration and has been expanded to our

inpatient service & subspecialty clinics.

Flu Shot Campaign: In October 2018 through our collaboration with Prisma Health Richland Board of Trustees, Prisma Health - Midlands Office of Community Health & SC Department of Health & Environmental Control, 2,315 free influenza vaccines were successfully provided to 835 children & 1480 adults from Mobile Health Clinic and in Prisma Health Children's Hospital. Effort was primarily focused on reaching children in the African American community. For the second year a press event was held in Children's Hospital during Immunization Week.

PH-UofSC Concussion Program: New program started in fall 2018 streamlines evaluation, treatment & recovery & combines expertise of a pediatric sports medicine physician, the UofSC Concussion & Health Neuroscience Laboratory & Prisma Health Physical Therapy Specialists, including physical, occupational & speech therapy. Dr. Jeff Holloway leads program through a research grant from Emerging Physician Scientist Faculty Fellowship from SOM Center for Transforming Health.

University 201: Healthcare in Action: Through our partnership with UofSC's Office of Pre-Professional Advising, Department of Pediatrics piloted a fall program to provide 20 pre-health students an opportunity to spend time in 6 of our division clinics. Healthcare in Action students were well received in each division & we will welcome new students for 2019 fall semester.

Children's Hospital Family Advisory Council (CHFAC): Formed due to efforts of Dr. Melanie Blackburn, Children's Hospital quality leader, to foster "co-production" of health services & is comprised of patient parents & caregivers who are actively using Prisma Health Children's Hospital outpatient & inpatient services.

South Carolina Child Well-Being Coalition: SC Department of Health & Environmental Control (DHEC) and SC Children's Trust have partnered to establish a multi-sector, statewide Coalition focused on mitigating the impact of poverty on child outcomes across SC. Dr. Christine Turley was asked to Chair the Coalition as a whole, as well as the Coalition's Leadership Team, and has been engaged in developing and leading this work for 2½ years. Additionally she serves on the Health Workgroup. Additionally, Dr. L. Alex Young, Department of Pediatrics, serves as a member of the Coalition.

TRANSFORM SC (Trials and Research Networks for More SC): Multi-year NIH grant in Environmental Influences on Child Health Outcomes program. We are one of 17 states establishing a national IDeA States Pediatric Clinical Trials Network to serve children & families that are typically under-represented in research. This work offers research opportunities for children that have had limited access to cutting-edge research and those in rural communities, an important strategy for decreasing health disparities & improving health in children.

Haiti Global Orthopaedic Surgery Resident Initiative: The Palmetto Health-USC Orthopaedic Residency enters its third year of participation. With leadership from SC Orthopaedic Association Foundation, orthopaedic teams from MUSC, Palmetto Health-USC Orthopaedics, & Greenville Health System travel to Bon Finne, Haiti six times per year to provide orthopaedic care for Haitian people near Les Cayes, Haiti and provide clinical & surgical training for Haitian orthopaedic residents. This program's mission is to provide a unique training experience for orthopaedic residents of South Carolina through a coordinated service to the musculoskeletal care needs of Haitian people while collaboratively elevating the standard of orthopaedic training in Haiti.

South Carolina HIV/AIDS Clinical Training Center: Led by Infectious Disease Division, Department of Internal Medicine, goal of program is to improve quality of care and access to care of patients living with HIV/AIDS through the provision of high quality professional education & training to health care providers in SC through on-site & web-based didactic & case study presentations, skills building workshops, clinical consultation, clinical

preceptorships, & technical assistance.

South Carolina Statewide Telepsychiatry: Department of Neuropsychiatry and Behavioral Science participates in South Carolina Department of Mental Health Emergency Department Telepsychiatry Program. Objective of program is to make psychiatric consultation available in emergency departments of all SC hospitals at any hour. Consultations have increased the quality & timeliness of triage, assessment & initial treatment of patients; reduced the number of individuals & length of stay in EDs; & allowed hospitals to direct critical personnel & financial resources to other needs.

South Carolina Telehealth Alliance: Dr. Meera Narasimhan and her team led outcomes in the state for SC hubs: Palmetto Health, Greenville Hospital System, McLeod Medical Center, SC Department of Mental Health and MUSC for telehealth projects within the hub.

Department of Neuropsychiatry & Behavioral Science: Engaged in ICARED rural health initiative in rural counties across specialties with service to Federally Qualified Health Centers (FQHCs) which provide comprehensive health care services to underserved communities. Dr. Meera Narasimhan served as Vice Chair of Alliance for a Healthier SC Board, served on SC Behavioral Health Coalition Steering Committee, Palmetto Care Connections Board, & SC Statewide Suicide Prevention Coalition Steering Committee.

University of Nicosia Medical School: Department of Family & Preventive Medicine faculty provided support for this new international partnership. Dr. Jeff Hall traveled with USC leadership delegation from USC to foster future collaborative research, student exchange, and fellowship programs. Dr. Audrey Billeaud assisted in supervision of medical students performing free health screening in rural Cyprus. Dr. Mark Humphrey serving as site director.

Ultrasound Institute: Participated in Artisphere: Arts, Culture, Life in Greenville in May 2018 and demonstrated point-of-care ultrasound and explained anatomical models from the Gift of Body Program. Offered Adventures in Medicine Ultrasound Course for rising 9th-12th grade students as part of USC Carolina Master Scholars Adventure Series in summer 2018.

Holy Stroke: Founded in 2017 by Dr. Anil Yallapragada, Department of Neurology, this grassroots organization is using churches as a gateway to provide stroke prevention through screening & education to Midlands communities, SC & Stroke Belt.

Community Perceptions

How unit assesses community perceptions of engagement, as well as impact of community engagement on students, faculty, community and the institution.

The Palmetto Health-USC Medical Group has community advisory boards through which patients and family members provide input on the clinical services provided by the medical group.

The Office of Development and Alumni Relations, along with the Office of the Dean, has a Dean's Executive

Advisory Council. This council's primary role is fundraising and helping the School of Medicine identify sources and prospects to enable us to achieve our goals and overarching strategic vision.

The Department of Pediatrics, in partnership with Children's Hospital, has a community meeting of private physicians and a community board that are asked for input, and have a required longitudinal advocacy /community program and that medical students and residents can join.

Incentivizing Faculty Engagement

Policies and practices for incentivizing and recognizing community engagement in teaching and learning, research, and creative activity.

The Office of the Dean provides an annual Community Service Award as part of the Dean's Distinguished Service Awards Program. It's awarded to a member(s) of the faculty, staff, or student body whose contributions to the local, regional, or global community has demonstrated a commitment to improving the welfare of all people and has upheld the highest traditions of servant leadership.

School of Medicine tenure and promotion criteria note that faculty members are expected to perform service in support of the mission and goals of the School of Medicine, the University, and the scientific community. Relevant community service, support and assistance to community groups, and involvement in civic activities are included as evidence of accomplishment of service.

The School of Medicine encourages faculty to participate in the annual United Way campaign sponsored by the university.

Collaborations

Internal Collaborations

- BARSC-MD Program•
Biomedical Engineering Program•
Center for Colon Cancer Research•
Center for Dietary Supplements and Inflammation•
Interprofessional Education Program•
Medical-Legal Partnership (MLP) Clinic•
NIH Complementary Alternative Medicine Center•
Office of Pre-Professional Advising Collaboration on Health Sciences Student Clinical Rotations•
School of Medicine-Columbia and School of Medicine-Greenville Collaboration•
South Carolina IDEA Networks of Biomedical Research Excellence (INBRE)•
Ultrasound Institute

External Collaborations

- Carolinas Hospital System•
Claflin University•
Columbia VA Health Care System•
FoodShareSC•
Grand Strand Regional Medical Center•
Greenwood Genetic Center•
Lexington Medical Center•
McLeod Regional Medical Center•
Medical University of South Carolina•
Orangeburg High School for Health Professions•
Prisma Health•
Prisma Health-Midlands•
Prisma Health-Upstate•
Providence Health•
SC Center for Rural and Primary Healthcare•
SC Area Health Education Consortium•
SC Department of Health and Human Services•
SC Office of Rural Health•
Simulation and Interactive Learning Center with Columbia VA Health Care System

Other Collaborations

Our most significant academic collaborations and multidisciplinary efforts that are not otherwise accounted for as Internal or External Collaborations.

None.

Campus Climate and Inclusion

Campus Climate & Inclusion

Activities unit conducted that were designed to improve campus climate and inclusion.

The Office of Diversity and Inclusion continues to invite speakers or participate/encourage participation in diversity activities sponsored by other departments within the University of South Carolina and at the School of Medicine (SOM).

On April 6, 2018, SOM faculty and students attended the 11th Annual James E. Clyburn Health Disparities lecture *We Can't Wait - Health Equity Now* featuring keynote speaker Amani Nuru-Jeter, PhD, MPH from University of California Berkeley School of Public Health. On April 13, 2018, members of the SOM community were invited to participate in the USC College of Information and Communications *Diversity, Equity and Inclusion Research Panel* featuring keynote speaker Nicole Cooke, PhD, author and consultant on social justice and librarianship from the University of Illinois. On May 22, 2018, SOM faculty and students attended the lecture *Diversity and Inclusion in Healthcare: Why It Matters* by Haywood Brown, MD Professor of OB-GYN at Duke and past president of the American College of Obstetricians and Gynecologist. On November 19, 2018, the SOM helped sponsor Deirdre Cooper Owens, PhD from Queens College, CUNY to speak on her award-winning book *Medical Bondage: Race, Gender, and the Origins of American Gynecology*. On February 22, 2019 SOM faculty and students attended the Keisler Scholar lecture featuring Shani Muhammad, MD who is a member of the speakers' panel for the newly formed Center for Health Equity at the American Academy of Family Physicians.

In July 2018, as part of the ongoing effort to ensure that the SOM attracts and retains diverse members of the faculty, Dr. Eric Williams, the newly appointed Assistant Dean for Student Affairs, was sponsored by the SOM to attend the AAMC Minority Faculty Leadership Development Seminar. In August 2018, Drs. McMahon and Rhinehart attended the Clemson University sponsored *Best Practices in Diversity Conference* which featured presentations by statewide leaders in education, business and government. In October 2018, as part of the effort to increase diversity in the residency program, Drs. Carol McMahon (Associate Dean for Diversity/Inclusion) and Robert Rhinehart (Assistant Dean for Diversity/Inclusion) were selected to be members of the Palmetto (now Prisma) Health Family Medicine Diversity and Inclusion Taskforce.

Drs. McMahon and Rhinehart continue to serve on the SOM Admissions Committee to advocate for under-represented students and also to provide implicit/unconscious bias training to the committee membership during annual orientation. They have been working with Kim Riggi, Senior Director of Development and Alumni Relations, to ensure that Corbett Scholars (recipients of Corbett funds) represent an inclusive group, as specified in the SOM Diversity Statement. Finally, to facilitate administrative staff diversity, Drs. McMahon and Rhinehart have participated on interview panels of candidates for position vacancies.

Concluding Remarks

Quantitative Outcomes

Explain any surprises regarding data provided in the quantitative outcomes modules throughout this report.

The quantitative data from the Office of Institutional Research, Assessment and Analytics did not reveal any surprising information. The SOM will continue to focus on student and faculty recruitment of underrepresented minorities and those from rural backgrounds, as outlined in our diversity policy.

Cool Stuff

Describe innovations, happy accidents, good news, etc. that occurred within your unit not noted elsewhere in your reporting.

The first cohort of BARSC-MD students began medical school in the fall of 2018. This joint initiative between the Honors College and the School of Medicine allows a select group of students to receive conditional acceptance to medical school as freshmen, and then enter medical school after their third year of undergraduate coursework.

The third class of medical students who completed their clinical clerkships on the School of Medicine-Florence campus will graduate in May of 2019.

The School of Medicine strengthened its global affiliations with Nanjing Medical University in China and University of Nicosia Medical School in Cyprus with visits to both universities by delegations of USC and School of Medicine leaders.

The School of Medicine held a 2019 Leadership in Medicine Panel for medical students focused on leadership in organized medicine that featured several clinicians from the School of Medicine and the Palmetto Health-USC Medical Group who are active leaders in organized medicine associations.

The School of Medicine Department of Obstetrics and Gynecology is hosting the 2019 Women's Health Research Forum on March 8, 2019 at the USC Alumni Center. The forum is a free, annual educational event providing a great opportunity for networking among researchers, professionals and policymakers across medicine, the health sciences, social sciences and women's health-related nonprofits. This year's theme is Violence Against Women.

A nationally recognized National Institutes of Health center at the School of Medicine was awarded a \$10 million, five-year renewal grant to continue its work. The NIH Center for Dietary Supplements and Inflammation, founded in 2012, is a multi-disciplinary center, which focuses on recruitment and mentoring of junior faculty members, is made up of faculty from five USC colleges who work together to tackle the problem of inflammation from a variety of perspectives. The Center is directed by Dr. Prakash Nagarkatti and Dr. Mitzi Narkatti.

Alison "Allie" Augsburger is the first student from the School of Medicine to receive the prestigious Summer Intern Scholarship in Cardiothoracic Surgery from the American Association for Thoracic Surgery (AATS). Allie completed an eight-week internship, which consisted of extensive research and a clinical shadowing experience. Most of her time was dedicated to research in Dr. Frank Spinale's lab, but she also spent time shadowing Dr. Reid Tribble, a cardiothoracic surgeon in the Palmetto Health-USC Medical Group.

Alumni Dr. Wade Lamb (Class of 2000) was named the 2018 Student Educator of the Year by the South Carolina Academy of Family Physicians. Dr. Lamb serves as a family medicine preceptor for our students at the Florence Regional Campus.

Dr. Gerald Harmon, Chair of the AMA Board of Trustees and distinguished physician and humanitarian, delivered the 2018 commencement address and received an honorary degree from the School of Medicine.

The School of Medicine Library hosted the exhibit "The Beauty and the Brokenness," a photographic journey through the stages of Post-Traumatic Stress Disorder. The photographs taken by local military veterans walk the observer from the initial chaos and dysfunction (the brokenness), through the period of treatment and ultimately towards healing and adaptability (the beauty).

Dr. March Seabrook, a 1986 graduate of the School of Medicine, was inducted as the 2018 president of the South Carolina Medical Association.

Appendix 3. Research & Scholarly Activity

Office of Research
Information Technology
& Data Management

School of Medicine - Columbia

Fiscal Year 2018



UNIVERSITY OF
SOUTH CAROLINA

Summary of Extramural Proposal Submissions by Source - FY2018

Appendix 1

PI Home Department	Total First Year	Commercial	Federal	Local Govt.	Other	Non-Profit	State
Basic Science Research	258,341		3			1	
Cell Biology & Anatomy	11,490,572	1	33		3	2	3
Family & Preventive Medicine	291,483		4			2	1
Internal Medicine	10,662,465	2	9	1	3	4	
Neurology	1,095,353	4	4			1	
Neuropsychiatry	1,053,052		1			1	1
Obstetrics & Gynecology	10,920					2	
Orthopaedic Surgery	1,021,741	1	1		1		
Path, Microbio. & Immunology	14,167,977		54			7	
Pediatrics	3,976,331	3	12			2	1
Pharm., Physiology & Neurology	3,919,626		14				
Surgery	196,221	3					
Total Count	185	14	135	1	7	22	6
Total Amount First Year	48,144,082	439,804	41,249,593	234,000	5,087,746	804,578	328,361

Extramural Funding by Source, Department, Faculty & Rank - FY2018
Appendix 2

PI Home Department	Dept. Total Funding	PI Name	Primary Job Desc/Rank	Tenure Status	Total Funding	Commercial	Federal	Local Govt.	Other	Non-Profit	State
Basic Science Research		Turley, Christine	CLINICAL PROFESSOR		176,631		176,631				
Total BSR	176,631										
Cell Biology & Anatomy		Azhar, Mohamad	ASSOC. PROFESSOR	TENURE-TRACK	430,919		327,075			103,844	
Cell Biology & Anatomy		Carver, Wayne	PROFESSOR	TENURED	150,000						150,000
Cell Biology & Anatomy		Cui, Taining	ASSOC. PROFESSOR	TENURED	774,379		659,380			114,999	
Cell Biology & Anatomy		Eberth, John	ASST PROFESSOR	TENURE-TRACK	151,266		111,266		40,000		
Cell Biology & Anatomy		Fan, Daping	ASSOC. PROFESSOR	TENURED	485,863		485,863				
Cell Biology & Anatomy		Goldsmith, Edie	PROFESSOR	TENURED	-649,875		-649,875				
Cell Biology & Anatomy		Lavoie, Holly	PROFESSOR	TENURED	62,132		62,132				
Cell Biology & Anatomy		Potts, Jav	PROFESSOR	TENURED	60,000						60,000
Cell Biology & Anatomy		Price, Robert	RESEARCH PROFESSOR		137,750		137,750				
Cell Biology & Anatomy		Spinale, Francis	ASSOC. DEAN		882,297	24,300	857,997				
Total CBA	2,484,731										
Family & Preventive Medicine		Badmus, Olabisi	CLINICAL ASSISTANT PROF		322,898		322,898				
Family & Preventive Medicine		Bennett, Kevin	CLINICAL ASSOCIATE PROF		109,789		109,789				
Family & Preventive Medicine		Bertollo, Suzanne	CLINICAL ASSOCIATE PROF		-322,898		-322,898				
Family & Preventive Medicine		Maveaux, Edward (E.J)	PROFESSOR	TENURED	871,628					855,187	16,441
Total FPM	981,417										
Genetics		Edwards, Janice	CLINICAL PROFESSOR		69,390						69,390
Total Genetics	69,390										
Internal Medicine		Ahuja, Divya	CLINICAL ASSOCIATE PROF		219,627		219,627				
Internal Medicine		Albrecht, Helmut	CLINICAL PROFESSOR		144,890	121,289	23,601				
Internal Medicine		Chillag, Shawn			2,419,590					2,419,590	
Internal Medicine		Gripaldo, Ria	CLINICAL ASSISTANT PROF		5,898	5,898					
Internal Medicine		Hall, Leslie	PROFESSOR	TENURED	13,970					13,970	
Internal Medicine		Hoppmann, Richard	CLINICAL PROFESSOR		172,119					172,119	
Internal Medicine		Hucks, Jennifer	CLINICAL ASSISTANT PROF		7,443	7,443					
Internal Medicine		Newsome, Brandi	CLINICAL ASSISTANT PROF		5,953	5,953					
Internal Medicine		Rizvi, Ali	CLINICAL PROFESSOR		14,443	25	14,418				
Internal Medicine		Weissman, Sharon	CLINICAL PROFESSOR		9,163,124		3,968,474	228,839	4,965,811		
Internal Medicine		Yates-Wilson, Beverly	CLASSIFIED		71,553					34,000	37,553
Total Internal	12,238,610										
Medicine - Dean's Office		Hoppmann, Richard	CLINICAL PROFESSOR		8,642,166					8,642,166	
Total Dean's Office	8,642,166										
Neurology		Androulakis, X. Michelle	CLINICAL ASSISTANT PROF		76,241	76,241					
Neurology		Cuturic, Miroslav	CLINICAL ASSISTANT PROF		37,871					37,871	
Neurology		Graham, Cole	CLINICAL ASSISTANT PROF		6,500	6,500					
Neurology		Mrelashvili, Davit	CLINICAL ASSOCIATE PROF		16,262	16,262					
Neurology		Sen, Souvik	PROFESSOR	TENURED	1,310,012	123,800	825,877			360,335	
Total Neurology	1,446,886										
Neuropsychiatry		Dawson, Robert	CLINICAL ASSISTANT PROF		148,803		148,803				
Neuropsychiatry		Jones, Ashley	CLINICAL ASSOCIATE PROF		35,929	35,929					
Neuropsychiatry		Lachance, Kerry	CLINICAL ASSOCIATE PROF		242,606		195,806				46,800
Neuropsychiatry		Narasimhan, Meera	PROFESSOR	TENURED	1,688,767		213,948			1,474,819	
Neuropsychiatry		Srinivasan, Shilpa	CLINICAL PROFESSOR		15,000						15,000
Neuropsychiatry		Thornhill, Joshua	CLINICAL PROFESSOR		1,500,000		1,500,000				
Total Neuropsychiatry	3,631,105										
Obstetrics & Gynecology		Burgis, Judith	CLINICAL PROFESSOR		911,689					911,689	
Total Obstetrics & Gynecology	911,689										
Ophthalmology		Anderson, William	CLINICAL PROFESSOR		12,605					12,605	
Total Ophthalmology	12,605										
Orthopaedic Surgery		Walsh, John	CLINICAL PROFESSOR		902,895					902,895	
Total Orthopaedic Surgery	902,895										
Path. Microbio. & Immunology		Bader, Jackie			35,917		35,917				
Path. Microbio. & Immunology		Catropo, James	CLINICAL ASSOCIATE PROF		500					500	
Path. Microbio. & Immunology		Chatzistamou, Ioulia	CLINICAL ASSISTANT PROF		14,650		14,650				
Path. Microbio. & Immunology		Gandy, Kathryn	CLINICAL ASSISTANT PROF		-6,645		-6,645				
Path. Microbio. & Immunology		Gomez, Gregorio	ASST PROFESSOR	TENURE-TRACK	21,113						
Path. Microbio. & Immunology		Kubinak, Jason	ASST PROFESSOR	TENURE-TRACK	170,436		145,436				25,000
Path. Microbio. & Immunology		Murphy, Elizabeth (Anzela)	ASSOC. PROFESSOR	TENURED	337,050					165,000	
Path. Microbio. & Immunology		Nagarkatti, Mitzi	PROFESSOR	TENURED	1,202,141		1,202,141				
Path. Microbio. & Immunology		Nagarkatti, Prakash	PROFESSOR	TENURED	-839,063		-785,128		-53,935		

Path, Microbio. & Immunology		Oskeritizian, Carole	ASST PROFESSOR	TENURE-TRACK	36,435		36,435	
Path, Microbio. & Immunology		Pirisi-Creek, Lucia	PROFESSOR	TENURED	582,056		582,056	
Path, Microbio. & Immunology		Singh, Narendra	RESEARCH PROFESSOR		230,783		230,783	
Path, Microbio. & Immunology		Sougiannis, Alexander			35,917		35,917	
Path, Microbio. & Immunology		Testerman, Traci	ASST PROFESSOR	TENURE-TRACK	25,000			25,000
Path, Microbio. & Immunology		Velazquez, Kandy	POST-DOCTORAL FELLOW		106,648		106,648	
Total PMI	1,952,938							
Pediatrics		Brown, Daniel	CLINICAL ASSISTANT PROF		86,450	8,300		78,150
Pediatrics		Brown, David	CLINICAL ASSOCIATE PROF		75,001	60,383		14,618
Pediatrics		Cramer, Stuart	CLINICAL ASSISTANT PROF		32,200	5,650	25,000	1,550
Pediatrics		Knight, Lisa	CLINICAL ASSISTANT PROF		10,665		10,665	
Pediatrics		Neuberg, Ronnie	OTHER		51,100		27,100	24,000
Pediatrics		Rosa, Olga	CLINICAL ASSOCIATE PROF		266,555		266,555	
Pediatrics		Rotholz, David	CLINICAL PROFESSOR		5,976,172		5,976,172	
Pediatrics		Stephenson, Kathryn	CLINICAL ASSOCIATE PROF		-20,491			-20,491
Pediatrics		Taylor, R. Caughman	CLINICAL PROFESSOR		915,548			915,548
Pediatrics		Turley, Christine	CLINICAL PROFESSOR		410,625		410,625	
Pediatrics		Welsh, Robin	CLINICAL ASSISTANT PROF		1,500,000		1,500,000	
Total Pediatrics	9,303,825							
Pharm., Physiology & Neurology		Barlow, Shayne	RESEARCH PROFESSOR		197,738		197,738	
Pharm., Physiology & Neurology		Fadel, Jim	PROFESSOR	TENURED	559,208		559,208	
Pharm., Physiology & Neurology		Finnell, Julie			26,844			26,844
Pharm., Physiology & Neurology		Frizzell, Norma	ASSOC. PROFESSOR	TENURED	215,669		215,669	
Pharm., Physiology & Neurology		Grillo, Claudia	RESEARCH ASSOC PROF		350,000		350,000	
Pharm., Physiology & Neurology		Kelly, Michy	ASST PROFESSOR	TENURE-TRACK	367,125		367,125	
Pharm., Physiology & Neurology		LeBlanc, Kevin	CLINICAL ASSOCIATE PROF		126,826		126,826	
Pharm., Physiology & Neurology		Manuel, Allison			-2,828		-2,828	
Pharm., Physiology & Neurology		Mott, David	ASSOC. PROFESSOR	TENURED	487,372		487,372	
Pharm., Physiology & Neurology		Ortinski, Pavel	ASST PROFESSOR	TENURE-TRACK	300,375		300,375	
Pharm., Physiology & Neurology		Reagan, Lawrence	PROFESSOR	TENURED	104,254		104,254	
Pharm., Physiology & Neurology		Wood, Susan	ASST PROFESSOR	TENURE-TRACK	564,927		417,927	147,000
Total PPN	3,297,510							
Surgery		Clair, Daniel	CLINICAL PROFESSOR		209,185	209,185		
Surgery		Nottingham, James	CLINICAL PROFESSOR		910,629			910,629
Total Surgery	1,119,814							
Total FY2018 Funding	47,172,212							

Patents, Disclosures, and Licensing Agreements

Fiscal Year 2018

Appendix 3

SCHOOL OF MEDICINE – Columbia Campus				
	Invention Disclosures	Provisional Patent Applications	Non-Provisional Patent Applications	Issued Patents
TOTALS:	9	8	7	4
Department Breakdown				
Cell Biology & Anatomy	2 (ID no. 1294 (shared w/ Pathology...), 1313)	2 (ID no. 1313, 1294 (shared w/ Pathology...))	1 (ID no. 1251)	2 (ID no. 1066, 1209)
Pathology, Microbiology & Immunology	5 (ID no. 1294 (shared w/ Cell Biology...), 1298, 1319, 1337 (shared w/ Pharmacy), 1341)	3 (ID no. 1298, 1238, 1294 (shared w/ Cell Biology))	2 (ID no. 1211 (shared w/ Pharmacy), 1298)	0
Pharmacology, Physiology, Neuroscience	1 (ID no. 1290)	2 (ID no. 1221, 1290)	0	0
Family & Preventative Medicine	0	0	1 (ID no. 1208 (Shared w/ Public Health & w/ Engineering))	0
Orthopedic Surgery	0	0	0	1 (ID no. 1007)
Internal Medicine	2 (ID no. 1301, 1323)	2 (ID no. 1301, 1266)	3 (ID no. 987, 1266, 1276)	1 (ID no. 987)

Note:

- These numbers include US, PCT, and foreign applications/patents
- Disclosure numbers include trademark and copyright disclosures
- USC's Fiscal Year 2018 = July 1, 2017 – June 30, 2018

Appendix 4. Faculty Information

**UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE-COLUMBIA FACULTY PUBLICATIONS
ACADEMIC YEAR 2017-18**

(PubMed search results limited to publication dates between July 1, 2017 and June 30, 2018)

TOTAL: 151

1: Abougergi MS. Epidemiology of Upper Gastrointestinal Hemorrhage in the USA: Is the Bleeding Slowing Down? *Dig Dis Sci*. 2018 May;63(5):1091-1093. doi: 10.1007/s10620-018-4951-5. PubMed PMID: 29397492.

2: Abougergi MS, Peluso H, Saltzman JR. Thirty-Day Readmission Among Patients With Non-Variceal Upper Gastrointestinal Hemorrhage and Effects on Outcomes. *Gastroenterology*. 2018 Jul;155(1):38-46.e1. doi: 10.1053/j.gastro.2018.03.033. Epub 2018 Mar 28. PubMed PMID: 29601829.

3: Al-Hasan MN, Acker EC, Kohn JE, Bookstaver PB, Justo JA. Impact of Penicillin Allergy on Empirical Carbapenem Use in Gram-Negative Bloodstream Infections: An Antimicrobial Stewardship Opportunity. *Pharmacotherapy*. 2018 Jan;38(1):42-50. doi: 10.1002/phar.2054. Epub 2017 Dec 11. PubMed PMID: 29105102.

4: Al-Hasan MN, Nelson AN, Justo JA, Albrecht H, Kohn J, Brandon Bookstaver P. Reply to comments: duration of antimicrobial therapy for Gram-negative bacteremia secondary to urinary source of infection. *Infection*. 2018 Apr;46(2):283-284. doi: 10.1007/s15010-018-1123-7. Epub 2018 Feb 7. PubMed PMID: 29417465.

5: Al-Jaghbeer MJ, Justo JA, Owens W, Kohn J, Bookstaver PB, Hucks J, Al-Hasan MN. Risk factors for pneumonia due to beta-lactam-susceptible and beta-lactam-resistant *Pseudomonas aeruginosa*: a case-case-control study. *Infection*. 2018 May 11. doi: 10.1007/s15010-018-1147-z. [Epub ahead of print] PubMed PMID: 29752649.

6: Alhasson F, Seth RK, Sarkar S, Kimono DA, Albadrani MS, Dattaroy D, Chandrashekar V, Scott GI, Raychoudhury S, Nagarkatti M, Nagarkatti P, Diehl AM, Chatterjee S. High circulatory leptin mediated NOX-2-peroxynitrite-miR21 axis activate mesangial cells and promotes renal inflammatory pathology in nonalcoholic fatty liver disease. *Redox Biol*. 2018 Jul;17:1-15. doi: 10.1016/j.redox.2018.04.002. Epub 2018 Apr 7. PubMed PMID: 29660503; PubMed Central PMCID: PMC6006523.

7: Alzayed AS, Azizrahman AA, AlMadi HA, Althekair AM, Blaivas M, Karakitsos D. Use and Education of Point-of-Care Ultrasound in Pediatric Emergency Medicine in Saudi Arabia. *J Ultrasound Med*. 2017 Nov;36(11):2219-2225. doi: 10.1002/jum.14254. Epub 2017 Jun 1. PubMed PMID: 28569379.

8: Atwez A, Keilani Z. Laparoscopic Roux-en-Y gastric bypass in a patient with situs inversus totalis: Case report, technical tips and review of the literature. *Int J Surg Case Rep*. 2018;45:56-62. doi: 10.1016/j.ijscr.2018.03.004. Epub 2018 Mar 15. PubMed PMID: 29573597; PubMed Central PMCID: PMC6000729.

- 9: Baker E, Wagner M. Bedside Diagnosis of Deep Vein Thrombosis Using a Pocket-Sized Ultrasound Device. *Am J Med.* 2018 Mar;131(3):e95-e96. doi: 10.1016/j.amjmed.2017.09.028. Epub 2017 Oct 10. PubMed PMID: 29030060.
- 10: Bam M, Yang X, Sen S, Zumbun EE, Dennis L, Zhang J, Nagarkatti PS, Nagarkatti M. Characterization of Dysregulated miRNA in Peripheral Blood Mononuclear Cells from Ischemic Stroke Patients. *Mol Neurobiol.* 2018 Feb;55(2):1419-1429. doi: 10.1007/s12035-016-0347-8. Epub 2017 Feb 6. PubMed PMID: 28168424; PubMed Central PMCID: PMC5545163.
- 11: Bam M, Yang X, Zumbun EE, Ginsberg JP, Leyden Q, Zhang J, Nagarkatti PS, Nagarkatti M. Decreased AGO2 and DCR1 in PBMCs from War Veterans with PTSD leads to diminished miRNA resulting in elevated inflammation. *Transl Psychiatry.* 2017 Aug 29;7(8):e1222. doi: 10.1038/tp.2017.185. PubMed PMID: 28850112; PubMed Central PMCID: PMC5611749.
- 12: Barlow SC, Doviak H, Jacobs J, Freeburg LA, Perreault PE, Zellars KN, Moreau K, Villacreses CF, Smith S, Khakoo AY, Lee T, Spinale FG. Intracoronary delivery of recombinant TIMP-3 after myocardial infarction: effects on myocardial remodeling and function. *Am J Physiol Heart Circ Physiol.* 2017 Oct 1;313(4):H690-H699. doi: 10.1152/ajpheart.00114.2017. Epub 2017 Jul 28. PubMed PMID: 28754718; PubMed Central PMCID: PMC5668606.
- 13: Becker W, Nagarkatti M, Nagarkatti PS. miR-466a Targeting of TGF- β 2 Contributes to FoxP3(+) Regulatory T Cell Differentiation in a Murine Model of Allogeneic Transplantation. *Front Immunol.* 2018 Apr 9;9:688. doi: 10.3389/fimmu.2018.00688. eCollection 2018. PubMed PMID: 29686677; PubMed Central PMCID: PMC5900016.
- 14: Benedict C, Grillo CA. Insulin Resistance as a Therapeutic Target in the Treatment of Alzheimer's Disease: A State-of-the-Art Review. *Front Neurosci.* 2018 Apr 10;12:215. doi: 10.3389/fnins.2018.00215. eCollection 2018. Review. PubMed PMID: 29743868; PubMed Central PMCID: PMC5932355.
- 15: Bogan RK, Black J, Swick T, Mamelak M, Kovacevic-Ristanovic R, Villa KF, Mori F, Montplaisir J. Correlation of Changes in Patient-Reported Quality of Life With Physician-Rated Global Impression of Change in Patients With Narcolepsy Participating in a Clinical Trial of Sodium Oxybate: A Post Hoc Analysis. *Neurol Ther.* 2017 Dec;6(2):237-245. doi: 10.1007/s40120-017-0076-6. Epub 2017 Jul 13. PubMed PMID: 28707076; PubMed Central PMCID: PMC5700898.
- 16: Bookstaver PB, Nimmich EB, Smith TJ 3rd, Justo JA, Kohn J, Hammer KL, Troficanto C, Albrecht HA, Al-Hasan MN. Cumulative Effect of an Antimicrobial Stewardship and Rapid Diagnostic Testing Bundle on Early Streamlining of Antimicrobial Therapy in Gram-Negative Bloodstream Infections. *Antimicrob Agents Chemother.* 2017 Aug 24;61(9). pii: e00189-17. doi: 10.1128/AAC.00189-17. Print 2017 Sep. PubMed PMID: 28630187; PubMed Central PMCID: PMC5571292.

- 17: Bornemann P, Jayasekera N, Bergman K, Ramos M, Gerhart J. Point-of-care ultrasound: Coming soon to primary care? *J Fam Pract.* 2018 Feb;67(2):70-80. PubMed PMID: 29400896.
- 18: Boutboul D, Kuehn HS, Van de Wyngaert Z, Niemela JE, Callebaut I, Stoddard J, Lenoir C, Barlogis V, Farnarier C, Vely F, Yoshida N, Kojima S, Kanegane H, Hoshino A, Hauck F, Lhermitte L, Asnafi V, Roehrs P, Chen S, Verbsky JW, Calvo KR, Husami A, Zhang K, Roberts J, Amrol D, Sleaseman J, Hsu AP, Holland SM, Marsh R, Fischer A, Fleisher TA, Picard C, Latour S, Rosenzweig SD. Dominant-negative IKZF1 mutations cause a T, B, and myeloid cell combined immunodeficiency. *J Clin Invest.* 2018 Jul 2;128(7):3071-3087. doi: 10.1172/JCI98164. Epub 2018 Jun 11. PubMed PMID: 29889099; PubMed Central PMCID: PMC6026000.
- 19: Brindle ME, Henrich N, Foster A, Marks S, Rose M, Welsh R, Berry W. Implementation of surgical debriefing programs in large health systems: an exploratory qualitative analysis. *BMC Health Serv Res.* 2018 Mar 27;18(1):210. doi: 10.1186/s12913-018-3003-3. PubMed PMID: 29580254; PubMed Central PMCID: PMC5870386.
- 20: Butler RK, Oliver EM, Fadel JR, Wilson MA. Hemispheric differences in the number of parvalbumin-positive neurons in subdivisions of the rat basolateral amygdala complex. *Brain Res.* 2018 Jan 1;1678:214-219. doi: 10.1016/j.brainres.2017.10.028. Epub 2017 Oct 28. PubMed PMID: 29107660; PubMed Central PMCID: PMC5714668.
- 21: Calva CB, Fayyaz H, Fadel JR. Increased acetylcholine and glutamate efflux in the prefrontal cortex following intranasal orexin-A (hypocretin-1). *J Neurochem.* 2018 May;145(3):232-244. doi: 10.1111/jnc.14279. Epub 2018 Jan 12. PubMed PMID: 29250792; PubMed Central PMCID: PMC5924451.
- 22: Campbell NRC, Ordunez P, DiPette DJ, Giraldo GP, Angell SY, Jaffe MG, Lackland D, Martinez R, Valdez Y, Maldonado Figueredo JI, Paccot M, Santana MJ, Whelton PK. Monitoring and evaluation framework for hypertension programs. A collaboration between the Pan American Health Organization and World Hypertension League. *J Clin Hypertens (Greenwich).* 2018 Jun;20(6):984-990. doi: 10.1111/jch.13307. Epub 2018 May 22. PubMed PMID: 29790259.
- 23: Caslin HL, Taruselli MT, Paranjape A, Kiwanuka K, Haque T, Chumanovich AP, Oskertizian CA, Ryan JJ. The Use of Human and Mouse Mast Cell and Basophil Cultures to Assess Type 2 Inflammation. *Methods Mol Biol.* 2018;1799:81-92. doi: 10.1007/978-1-4939-7896-0_8. PubMed PMID: 29956146.
- 24: Chapman CD, Schiöth HB, Grillo CA, Benedict C. Intranasal insulin in Alzheimer's disease: Food for thought. *Neuropharmacology.* 2018 Jul 1;136(Pt B):196-201. doi: 10.1016/j.neuropharm.2017.11.037. Epub 2017 Nov 24. Review. PubMed PMID: 29180222.

- 25: Chu C, Rudnick EW, Motaparathi K. Blastic plasmacytoid dendritic cell neoplasm with centrocyte-like morphology clinically simulating a melanocytic nevus. *J Cutan Pathol*. 2018 Apr;45(4):249-253. doi: 10.1111/cup.13099. PubMed PMID: 29293270.
- 26: Chumanevich AP, Wedman PA, Oskeritzian CA. Methods for Analyzing Sphingosine-1-Phosphate Signaling in Human and Mouse Primary Mast Cells. *Methods Mol Biol*. 2018;1697:21-30. doi: 10.1007/7651_2017_42. PubMed PMID: 28497335.
- 27: Coffin JD, Homer-Bouthiette C, Hurley MM. Fibroblast Growth Factor 2 and Its Receptors in Bone Biology and Disease. *J Endocr Soc*. 2018 May 28;2(7):657-671. doi: 10.1210/js.2018-00105. eCollection 2018 Jul 1. Review. PubMed PMID: 29942929; PubMed Central PMCID: PMC6009610.
- 28: Colgrove P, Connell KL, Lackland DT, Ordunez P, DiPette DJ. Controlling hypertension and reducing its associated morbidity and mortality in the Caribbean: implications of race and ethnicity. *J Clin Hypertens (Greenwich)*. 2017 Oct;19(10):1010-1014. doi: 10.1111/jch.13056. Epub 2017 Jul 28. PubMed PMID: 28752658.
- 29: Cook DA, Blachman MJ, Price DW, West CP, Baasch Thomas BL, Berger RA, Wittich CM. Educational Technologies for Physician Continuous Professional Development: A National Survey. *Acad Med*. 2018 Jan;93(1):104-112. doi: 10.1097/ACM.0000000000001817. PubMed PMID: 28658022.
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