

# Medical University of South Carolina and MUSC Health Board of Trustees President's Report



**OCTOBER 2020**

## ACADEMICS: EDUCATION



- **In late July, the College of Health Professions' (CHP) Physician Assistant Studies program received approval from the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) to permanently increase the maximum entering class size from 60 students to 97 students.**
- **Caroline Delongchamps received the 2020 "Fresh Voices in the Humanities" award given annually by the South Carolina Humanities Council for her collaborations with the Office of Humanities around our patient story workshops and class sessions.**
- **Our College of Medicine (COM) Admissions team has successfully launched a virtual admissions interview process for prospective medical students, and our GME programs are also implementing virtual interview processes.**

## ACADEMICS: FACULTY



- **Felesia Bowen, Ph.D., DNP, RN, FAAN, appointed Assistant Dean, UG Programs.**
- **Amy Smith, MSN, RN, CNE, received the Maralynne D. Mitcham Interprofessional Fellowship.**
- **COM, Ann Lefebvre MSW, CPHQ, has been selected to participate in the National Summit on Family Medicine Residency Education in December 2020.**
- **Heather Shaw Bonilha, Ph.D., CCC-SLP, director for the Division of Speech-Language Pathology, received the 2019 Editor's Award by the American Journal of Speech-Language Pathology for her article "Relationships Between Radiation Exposure Dose, Time, and Projection in Videofluoroscopic Swallowing Studies."**
- **Melissa Hortman, Ed.D., Academic Affairs Faculty (AAF) Associate Professor, assumed the role of Editor-in-Chief of The International Journal of Innovation in Teaching and Learning in Higher Education, named Microsoft Innovative Educator Expert for 2020-2021.**
- **Brandon Welch, Ph.D., named MUSC Foundation for Research Development's (FRD) Innovator of the Year. Dr. Welch is the creator of numerous digital technologies including doxy.me, a widely used telehealth platform.**
- **The MUSC National Academy of Inventors Chapter inducted 20 new members, each of whom received a patent in FY20.**

- **Shawn Valenta** was selected as a featured innovator by the SC Department of Commerce Innovation Hub, SCRIBBLE.
- **Kathy H. Chessman, PharmD**, was appointed Chair of the Department of Clinical Pharmacy and Outcome Sciences.
- **Patrick M. Woster, Ph.D.**, Professor, Chair and SmartState® Endowed Chair in Drug Discovery, was inducted into the American Chemical Society Division of Medicinal Chemistry Hall of Fame.
- **Melissa Hortman, Ed.D.**, Instructional Technology and Faculty Resources (ITFR) Director of Instructional Technology, was named a Microsoft Innovative Educator (MIE) Expert for 2020-21. The program is an exclusive program created to recognize global educator visionaries who are using technology to pave the way for their peers in the effective use of technology for better learning and student outcomes.
- **MUSC Office of the Provost held the virtual MUSC Faculty Awards and Recognition Ceremony on August 18. Winners included:**
  - o Jesse Dean, Ph.D. - Teaching Excellence: Educator Lecturer
  - o DaNine Fleming, Ed.D. - Teaching Excellence: Educator Mentor, Clinical-Professional
  - o Lisa Kerr, Ph.D. - Teaching Excellence: Educator Mentor, Academic-Scholarship
  - o Brian Houston, M.D. - Teaching Excellence: Developing Teacher
  - o Eric Meissner, M.D., Ph.D. - Developing Scholar
  - o Kathleen Brady, M.D., Ph.D. - Peggy Schachte Research Mentor
  - o Dee Ford, M.D. - Population Health
  - o Andrew Eiseman, M.D. - Outstanding Clinician
  - o Evert Eriksson, M.D. - Outstanding Clinician
  - o Nagraj Kasi, M.D. - Outstanding Clinician
  - o Douglass Norcross, M.D. - Distinguished Faculty Service
  - o Cassandra Salgado, M.D. - Distinguished Faculty Service
  - o Karen Wager, DBA - Distinguished Faculty Service
  - o Philip Hall, Pharm.D. - Commitment to Excellence in Interprofessional Education and Collaborative Practice
- **Lacey MenkinSmith, M.D.**, a faculty member in our Department of Emergency Medicine, was recently named the OneWorld Health Educator of the Year.
- **Hermes Florez, M.D., Ph.D., MPH**, Chair of our Department of Public Health Sciences, has been recognized as one of “100 Inspiring Hispanic/LatinX Scientists in America” in connection with National Hispanic Heritage Month (<http://crosstalk.cell.com/blog/100-inspiring-hispanic-latinx-scientists-in-america>).
- **Michael Zile, M.D.**, Distinguished University Professor in the Department of Medicine/Division of Cardiology, was recently recognized with the Governor’s Award for Excellence in Science and the VA William S. Middleton Award for Outstanding Achievement in Biomedical Research.

# ACADEMICS: RESEARCH



## COVID-19 studies Regional Hospitals participated in:

- Expanded Access to Convalescent Plasma for the Treatment of Patients with COVID-19
- A Phase II, Open-Label, Randomized, Multicenter Study to Investigate the Pharmacodynamics, Pharmacokinetics, Safety, and Efficacy of 8 mg/kg OR 4 mg/kg Intravenous Tocilizumab in Patients with Moderate to Severe COVID-19 Pneumonia
- Outcomes Related to COVID-19 treated with Hydroxychloroquine among In-patients with symptomatic Disease (ORCHID)
- SCTR COVID-19 Biorepository

## AstraZeneca Vaccine study:

- A Phase III Randomized, Double-blind, Controlled Multicenter Study in Adults to Determine the Safety, Efficacy, and Immunogenicity of AZD1222, a Non-replicating ChAdOx1 Vector Vaccine, for the Prevention of COVID-19.
- Contract executed and IRB approved in 21 days.
- Enrolled our 1st patient on Saturday 8/29/2020.
- Highest enrolling site in the U.S.

## Metrics Overview:

- Vetted over 350 COVID-19 studies.
- Currently have 76 active COVID-19 studies:
  - › 38- Data incentives (50%)
  - › 9- Therapeutic (12%)
  - › 13- Lab/serology/biorepository (17%)
  - › 1 vaccine study (1%)
  - › 15 others (i.e. surveys) (20%)

- **James S. Krause, Ph.D.**, and the Spinal Cord Injury (SCI) and Multiple Sclerosis (MS) outcomes team received notification of three new programmatic grants totaling over \$5.6 million from the Agency for Community Living and the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). These grants will extend their longitudinal aging studies of SCI and initiate a study opioid on epidemiology and risk assessment.
- **Jacobo Mintzer, M.D.**, was recently awarded a 3-year \$15.6 million grant from the National Institute on Aging. The goal of the project, titled “Life’s End Benefits of Cannabidiol and Tetrahydrocannabinol (LiBBY) Trial”, is to develop safe and effective approaches for the treatment of hospice care-eligible, agitated subjects suffering from Alzheimer’s Disease or other types of dementia.
- **MUSC will be a new site for the NIH i-Corp training program** designed to assist faculty startup companies successfully navigate the early steps of company formation and product development.
- **Patrick M. Woster, Ph.D.**, was awarded \$2 million from the NIH Institutes of Health to study the epigenetic mechanisms underlying periodontal disease. These studies, conducted in collaboration with Chad Novince, Ph.D., D.D.S., represent a significant new collaborative effort between the College of Pharmacy (COP) and the College of Dental Medicine (CDM).
- **The MUSC Drug Discovery Core**, housed in the COP, now offers high-throughput screening, compound synthesis and lead optimization services for MUSC Faculty.
- **MUSC Hollings Cancer Center’s HPV Initiative** announced that for the first time, South Carolina’s rates are on par with the overall national HPV vaccination rates (representing an 8% increase in vaccine initiation and 12% increase in vaccination completion).

- **Chanita Hughes-Halbert, Ph.D.**, COM Professor of Psychiatry, was on the steering committee and a major contributor to the American Association for Cancer Research Cancer Disparities Progress Report: “Achieving the Bold Vision of Health Equity for Racial and Ethnic Minorities and Other Underserved Populations” released September 2020.
- **The Center for International Blood and Marrow Transplant Research (CIBMTR)** reported that the MUSC Health Blood and Marrow Transplant (BMT) Program is among the top 10% of transplant centers that have exceeded predicted survival rates and one of only six that have achieved such excellence as a combined adult and pediatric program. Michelle P. Hudspeth, M.D., Associate Professor of Pediatrics, serves as director of the adult and pediatric BMT program at MUSC Hollings Cancer Center and the MUSC Shawn Jenkins Children’s Hospital.
- **Nancy Klauber-DeMore, M.D.**, COM Department of Surgery, member of the Hollings Cancer Center, and holder of the BMW Endowed Chair in Cancer Research, is the co-founder and clinical and scientific consultant for Innova. Innova Therapeutics, Inc., announced that the U.S. Food and Drug Administration has granted Rare Pediatric Disease Designation to IVT-8086 for the treatment of osteosarcoma. This represents the first FDA-approved therapy for individuals with osteosarcoma in over 30 years.

# MUSC HEALTH



## **COVID-19 Response:**

- Reopened ambulatory surgery centers in Charleston Division (West Ashley, North Charleston, and Mount Pleasant) as recover from COVID-19 impact
- Permanently opened new inpatient units to expand med surg and ICU capacity for Charleston Division

## **COVID-19 Back to Business program continues to engage new clients**

- Provided environmental assessments, customized COVID-19 safety recommendations, and industry specific guidelines for over 70 businesses and over 145 primary, secondary and higher education schools throughout the state
- Partnered with over 20 businesses/higher education schools across the state to provide 17,568 PCR tests and 2,195 antibody tests to date

## **Certificates of Need (CON):**

- Williamsburg/Lake City Medical Center CON awarded and received
- Berkeley Hospital CON granted in final order of the Administrative Law Court

## **New site openings:**

- MUSC Health Nexton Medical Park in Summerville
- MUSC Health Chuck Dawley Medical Park in Mount Pleasant

## **Affiliations/Partnerships:**

- Closed the Upstate joint venture with Tribe513
- Closed the MUSC Health Rehabilitation Hospital joint venture with Encompass Health

- An industry partnership with a Canadian company, Synaptive, was completed.
  - Physicians and researchers at MUSC will have access to groundbreaking technologies to improve patient care and will have a hand in developing uses for these new tools that could ultimately aid patients across the continent.
  - This partnership makes the MUSC Shawn Jenkins Children's Hospital the first pediatric hospital in North America to own and deploy Synaptive's innovative surgical microscope technology, which leads to shorter, less invasive surgeries and quicker recoveries for patients.
  - MUSC clinicians and researchers also plan to work with the company to develop new medical devices and come up with new clinical applications for their existing technology.

### **Quality:**

- 29 Zero Harm awards across the system for 2020
- MUSC Health Charleston - 2020 Vizient ambulatory ranking #9 nationwide
- MUSC Health Chester went live with MUSC Tele-Stroke
- MUSC Health Florence received 14 Zero Harms awards from SC Hospital Association; one of the top in the state for three consecutive years
- MUSC Health Florence received an A rating from Leap Frog
- MUSC Health Florence awarded BlueCross BlueShield Center of Distinction for Cardiac Care Services
- MUSC Health Florence awarded American Heart Association – 2020 Stroke Gold Plus & Target Elite Honor Roll Quality Achievement Award

### **Operations:**

- Finalized shared risk agreement with Intuitive for 6 new DaVinci robots for MUSC including 5 in Charleston and 1 in Florence
- Charleston Division – new burn unit passed SCDHEC inspection and opened
- Charleston Division - Opening of Modern Minds mental health clinic (an innovative mental health clinic and program to treat anxiety and depression) in partnership with local philanthropist, Ben Navarro
- Charleston Division - Opening of Centerspace, medication-assisted psychotherapy center

### **Population Health:**

- Accountable Care Organization CY19 final shared savings \$918K, with a quality score of 98%; projected CY20 will be \$3.85M

### **Information Services:**

- MUSC Health - Most Wired Award, Certified Level 8, Acute Category
- Mobile ordering for patient food services went live across CHS campus, patients can now order from a mobile device.

## Legal:

- COVID-19 risk notification app agreement finalized with SCDHEC, Apple, and Google.
- Finalized Clinical Trial Agreement and supporting documentation for the AstraZeneca COVID-19 vaccine trial entitled “A Phase III Randomized, Double-blind, Placebo-controlled Multicenter Study in Adults to Determine the Safety, Efficacy, and Immunogenicity of AZD1222, a Non-replicating ChAdOx1 Vector Vaccine, for the Prevention of COVID-19.”

# MUSC ENTERPRISE



- **MUSC has received a total \$45 million for COVID-19 Statewide Testing** from the State Legislature the past four months, and additional dollars from the CARES Act for reimbursement for COVID-related expenses for the University.
- **Effective October 1, MUSC launched the enterprise wide MUSC Office of Equity**, which will fully integrate the academic and health care delivery dimensions of our ongoing institutional diversity, equity and inclusion (DEI) work. This new office will be led by interim chief Willette Burnham-Williams, Ph.D..
- **For the fourth consecutive year MUSC has been selected as one of 46 institutions of higher education to receive the 2020 Health Professions Higher Education Excellence in Diversity (HEED) Award** from INSIGHT Into Diversity magazine, the oldest and largest diversity publication in higher education. The Health Professions HEED Award is the only national honor recognizing U.S. medical, dental, pharmacy, osteopathic, nursing, veterinary, allied health, and other health schools and centers that demonstrate an outstanding commitment to diversity and inclusion across their campuses. The 46 honorees will be featured in the December 2020 issue of INSIGHT Into Diversity magazine.
- **MUSC ranked 3rd nationally for innovation impact** among peer institutions according to a new report released by the George W. Bush Center and Opus Faveo Innovation Development.
- **The MUSC-invented, Guardian Needle, received FDA approval** and is hitting the market in October. Invented by MUSC innovators Jonathan Edwards, M.D., and Jessica Barley, Ph.D., the product prevents needle-stick injuries during intraoperative monitoring.
- **MUSC has joined the pediatric digital technology accelerator KidsX.** The accelerator will pair MUSC with early stage companies developing products addressing critical needs for the children’s hospital.
- **The Waring Historical Library team launched the COVID-19 Archives Project** to document the MUSC community’s response to the pandemic. <https://musc.libguides.com/waring/services/reference/musc-covid19-archive>.
- **The Waring Historical Library acquired the papers of Edward Frost Parker** to document the history of the university in 1890-1910 during a time when medical education across the country was being scrutinized and reforms instituted. The records fill a gap in the collection on the history of the university at this time.
- **The Waring Historical Library team collaborated with a multidisciplinary group of MUSC personnel** from across the University to create a comprehensive Bicentennial Celebration Plan to be reviewed and revised by the leadership of the institution and implement leading to 2024.
- **The Digital Strategies and Innovation (DSI) group worked with the Department of Anesthesia and Peri-operative Medicine** to create face shields for clinicians working on the front lines. The DSI group created the prototype and 3D printed 500 face shields for the clinicians.