



South Carolina House Ways and Means Healthcare Subcommittee FY2018-19 Budget Presentation

Presented by Dr. David Cole, President, MUSC and Dr. Patrick Cawley, CEO, MUSC Health
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MUSC Health

“Leading Health Innovation for the Lives We Touch”

- More than one million patient visits per year
- *U.S. News & World Report* again ranked MUSC #1 hospital in S.C.; 6 of our pediatric specialties in the top 50 programs across the nation
- 10 nationally-ranked programs in *U.S. News and World Report* (top 1% of similar U.S. hospitals)
- Graduate and professional programs in every dimension of health care (3,000 students)
- Created Lowcountry Stroke Collaborative in partnership with Roper St. Francis
- Leading South Carolina with a record \$260 million in research funding

MUSC's Economic Impact

- One of the largest employers in South Carolina with approximately 13,500 employees
- Annual \$3.8 billion economic impact in the Charleston Metro Area



Update on the Investment in the South Carolina Telehealth Alliance

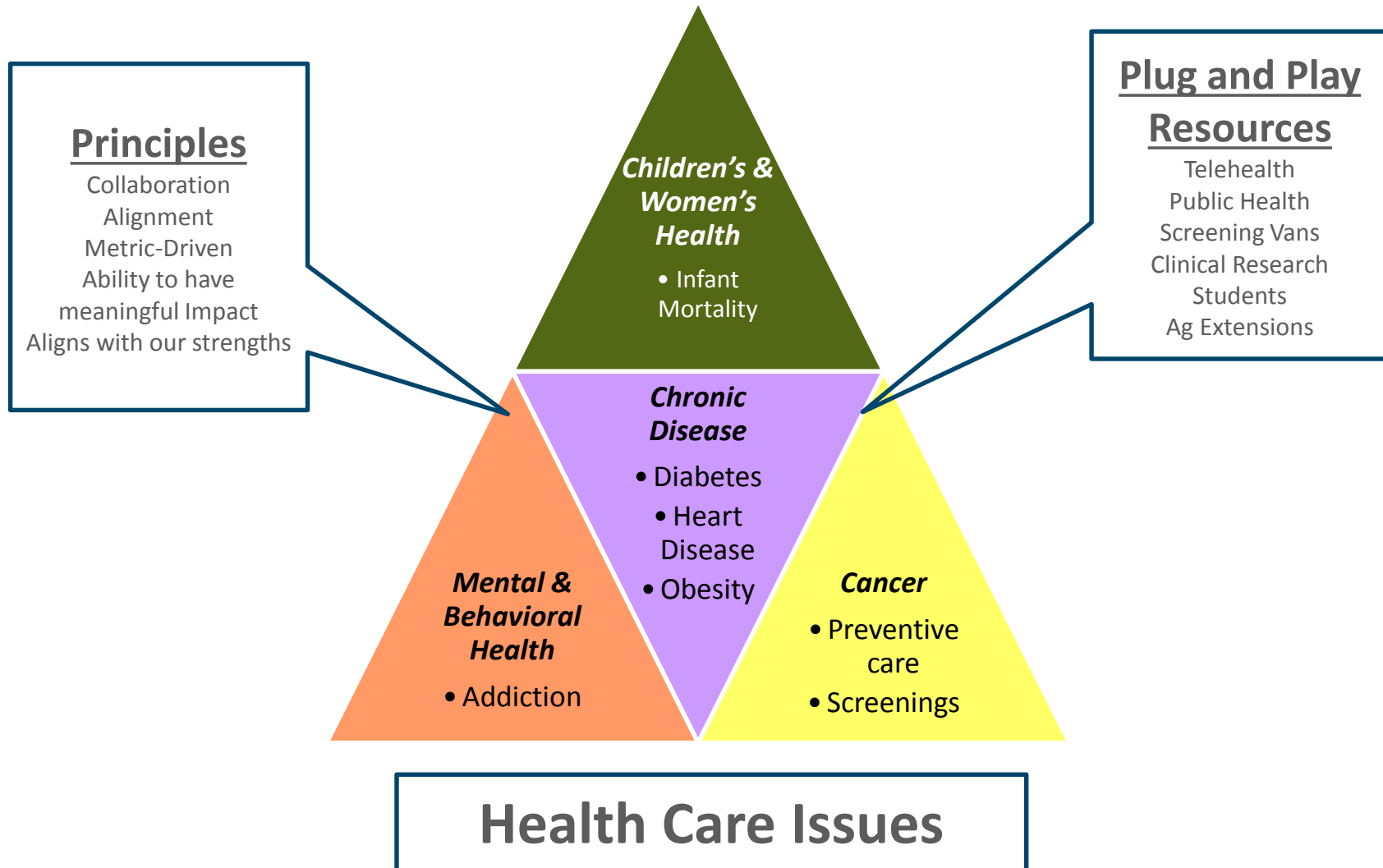


Update on the Statewide Health Innovations



What is the Statewide Health Innovations program?

Mission: Improve the health of all South Carolinians through rapid deployment of innovative programs focused on the primary health concerns of the state



Telehealth Highlights

- School-based telehealth increases access to care for underserved children (more than doubled consult volume in each of the last 3 years; early evidence of cost-savings for high-needs children)
- With the statewide telestroke program, EVERY citizen in South Carolina is now less than an hour from expert stroke care
- October 2017 provided a record number of telestroke and teleneurology consultations (572), yet stroke transfers to MUSC are at an all-time low (~10%, compared to 24% 3 years ago), keeping more patients in their home communities
- 40% increase in telehealth consultations supporting primary care clinics (compared to 2016)
- Tele-ICU has potentially saved 109 lives in the first three quarters of 2017 (actual vs. predicted mortality statistics)

Virtual Care Into Patients' Homes

The 2018 SCTA Strategic Plan includes an acceleration of the deployment of virtual care innovations that connect directly with patients and primary care providers. This will be deployed through:

- 1) Contracts with the SCTA Regional Hub partners to serve their communities (i.e., Palmetto Health, GHS, McLeod Health)
- 2) MUSC taking a lead role in ensuring smaller communities and health systems will benefit from these innovations



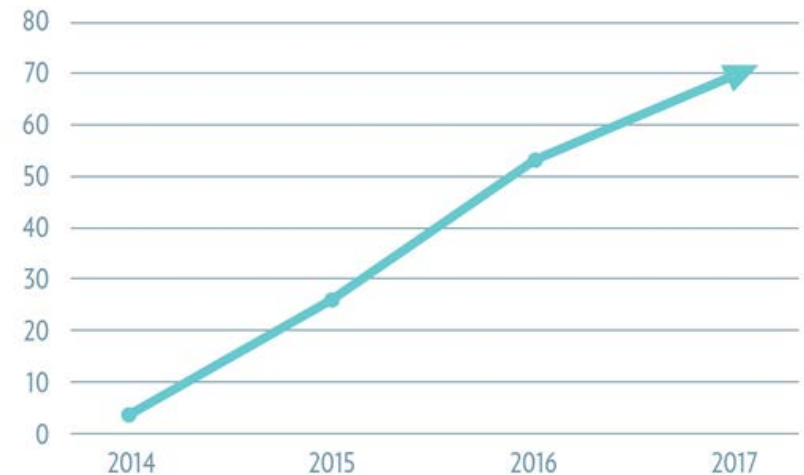
School-based Telehealth Network

- MUSC has partnered with Palmetto Health to lead the SCTA school-based telehealth workgroup and school-based telehealth expansion.
- One of the fastest growing school-based telehealth networks in the country!



- Reduced ED visits
- Reduced Missed Days of School
- Reduce Cost to System
- Control Chronic Disease (e.g. asthma)

Number of South Carolina Schools with telehealth capability



Expanded Partnership with SCDMH

The SCTA agreement with the South Carolina Department of Mental Health (SCDMH) will provide funding to support statewide expansion of their successful telepsychiatry programs, such as:

- Emergency Department Telepsychiatry Consultation Program
- Community Telepsychiatry Program
- Deaf Services Telepsychiatry
- EMS Telepsychiatry Program

SCDMH Telepsychiatry Consultations
Includes Hospital Emergency Departments, and Mental Health Centers and Clinics in SC



- Averaging over 1,700 comprehensive telepsychiatry services per month
- 38% of telepsych patients received 30-day follow-up care (vs. 13% in control group)
- \$2,300 saved per emergency department visit
- Over 70,000 DMH telepsych services provided since program inception

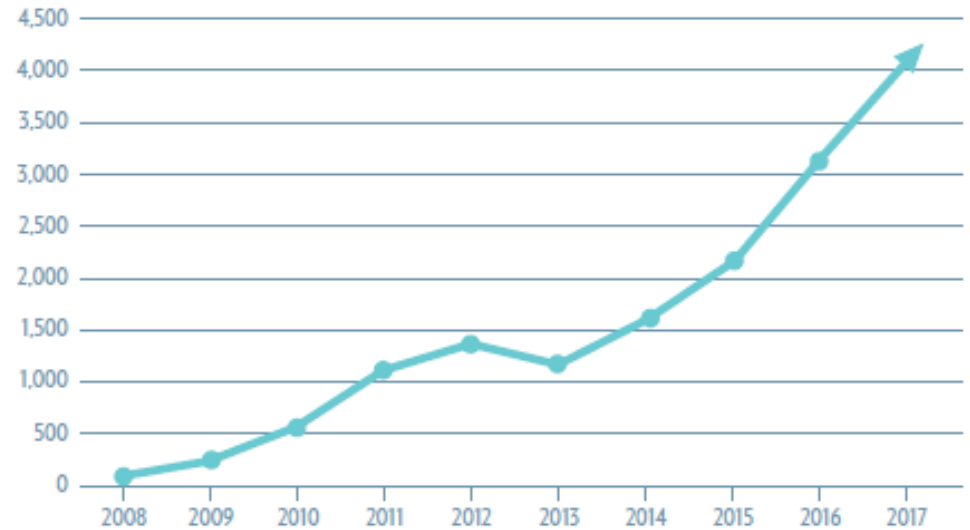
South Carolina Telestroke Care



- Statewide coverage of expert stroke care
- Some of the best stroke response and treatment metrics in the country

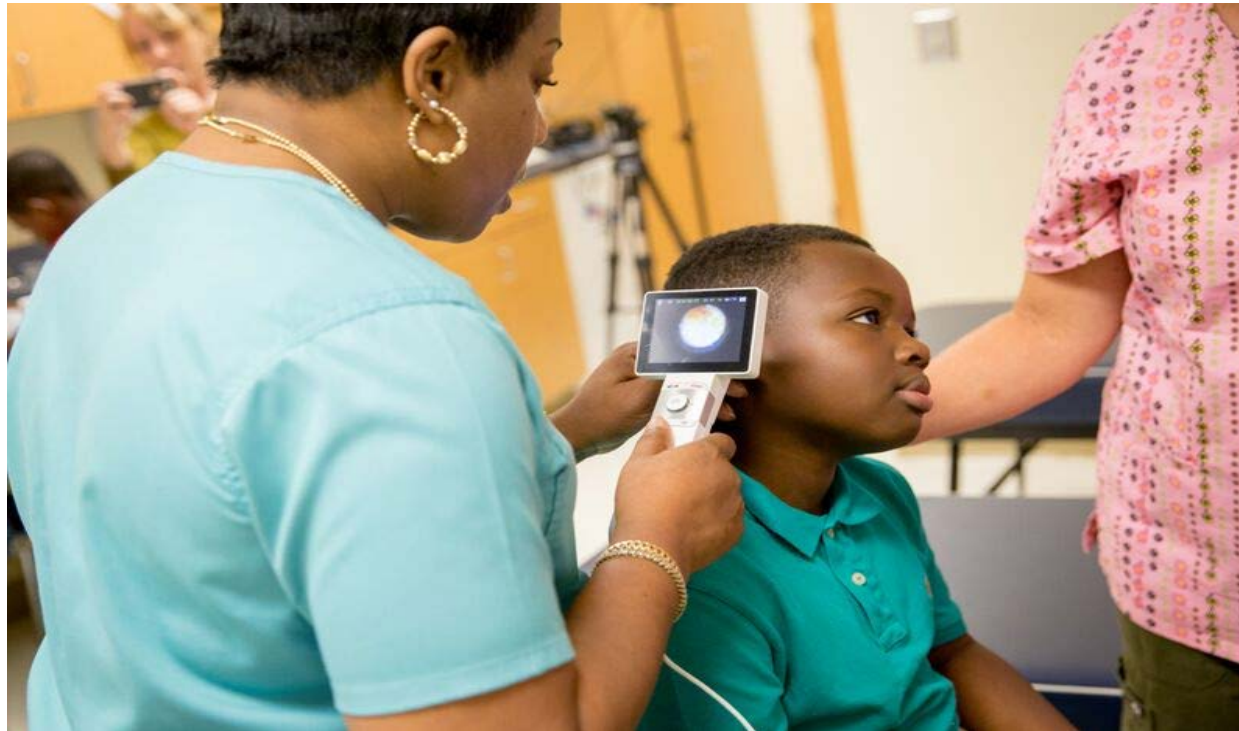
Telestroke

Telestroke Consults by Year
Greenville Health System, MUSC Health, Palmetto Health, Roper St. Francis



Exciting News!

MUSC was named one of two national Telehealth Center of Excellence and awarded a grant from the U.S. Department of Health and Human Services. Without the State's investment, this prestigious award would have not been possible.



Update on the Statewide Health Innovations



Statewide Health Innovations

(\$7.5 million recurring funds)

Cancer - Mobile Health Unit

- Initial 12 months mapped out, and we started executing the plan in December with visits to Bamberg, Barnwell, and Allendale. Follow-up visits to these counties are scheduled for the end of this month. Next month, we are visiting Sumter, Orangeburg, and Williamsburg Counties.
- Over the next 3 years (FY18-21), the Hollings Cancer Center (with Clemson) mobile van would like to expand breast and cervical cancer screenings plus cardiovascular disease risk factor screenings to 12 critical needs counties: Williamsburg, Orangeburg, Aiken, Edgefield, Saluda, Bamberg, Barnwell, Allendale, Sumter, Marion, Dillon, and Anderson. This will be an initial visit and/or follow-up and this expansion will enhance and compliment this arena with other state agencies.

Children's Health - #1 - Mother's Milk Bank of South Carolina (MMBSC)

- Non-profit service to South Carolina hospitals established and based at MUSC in 2015 whose mission is to provide safe, pasteurized donor milk to infants.
- Currently screens and approves potential milk donors; collects milk at 20 milk depot partners across the state; processes and pasteurizes donor milk; and distributes donor human milk to 11 hospitals in South Carolina.
- Over the next 3 years (FY18-21), MUSC would like to expand this service to all counties and all hospitals in S.C.

Statewide Health Innovations - *Continued*

(\$7.5 million recurring funds)

Children's Health - #2 – MUSC/Boeing Center for Children's Wellness

- Works to prevent and reduce childhood obesity from birth to adolescence by creating healthier school and childcare environments.
- Collaborates with numerous organizations across the state, including SCDE, SCDHEC, SCDHHS, SCMA, College of Charleston, Clemson University, SC Eat Smart Move More, Alliance for a Healthier Generation, SC Farm to School, and both Palmetto Health and McLeod Children's Hospitals impacting 13 school districts, 229 schools, 162,000 students, and 50+ childcare centers.
- Over the next 3 years (FY18-21), MUSC would like to expand this service to all counties and all schools in S.C..

Public Health Collaborations – Working with Clemson and USC

- In the process of recruiting and hiring Clemson Health Extension Agents, Horticulture Agents, and Lifestyle Educators for Anderson, Barnwell, and Williamsburg Counties.
- These agents and educators will collaborate closely with MUSC partners to implement, support, and expand both of the Pain and Cancer Screening Programs as well as two additional collaborative programs: MUSC Boeing Center for Children's Wellness Docs Adopt School Health Initiative (DASHI) and Clemson University's Farm-to-school Program. Both of these programs will be ready to launch once agents and education hiring is completed this March.
- MUSC met with leaders from the USC School of Medicine to develop collaboration on the Rural Health Initiatives involving residencies as well as telehealth statewide coverage.

Statewide Health Innovations - *Continued*

(\$7.5 million recurring funds)

Mental Health - Opioid Epidemic – Project #1

- MUSC has established the Intensive Program for Pain and Opioid Rehabilitation, which prevents opioid addiction through opioid de-prescribing and improving access to safe treatment options for chronic pain.
- 3-week program enables patients who are on chronic opioid pain medications to taper completely off pain medications while optimizing non-opioid methods to manage chronic pain.
- First group of patients was seen this month, including patients from the Barnwell County area who were recruited in conjunction with Clemson University. Currently, recruiting efforts are underway targeting 3 critical needs counties: Anderson, Barnwell, and Williamsburg.
- Over the next 3 years (FY18-21), we would like to expand access statewide through rehabilitation tools to target critical needs counties: Aiken, Clarendon, Dillon, Florence, Greenville, Horry, Lancaster, Richland, and Sumter.

Statewide Health Innovations - *Continued*

(\$7.5 million recurring funds)

Mental Health - Opioid Epidemic – Project #2

- In December 2017, MUSC, in partnership with DAODAS and HHS, launched an exciting initiative to expand access to Medication-Assisted Treatment (MAT) for opioid addiction in South Carolina. This innovative program, launched in emergency departments (EDs) in Charleston and Horry Counties, starts medication in the ED and links patients to “fast track providers” in the local community for follow-up.
- In the first month of the project, half of all patients who screened positive for substance abuse in the ED were primary opioid abusers. 100% of eligible patients were started on MAT in the ED, and all of those patients attended their follow-up appointment.
- Leveraging remaining DAODAS federal funds, plans are in place to immediately start statewide expansion efforts by building SBIRT infrastructure in EDs around the state.
- In the next 3 years would like to expand this initiative statewide. We will work with DAODAS this year to establish longer term implementation plan.