

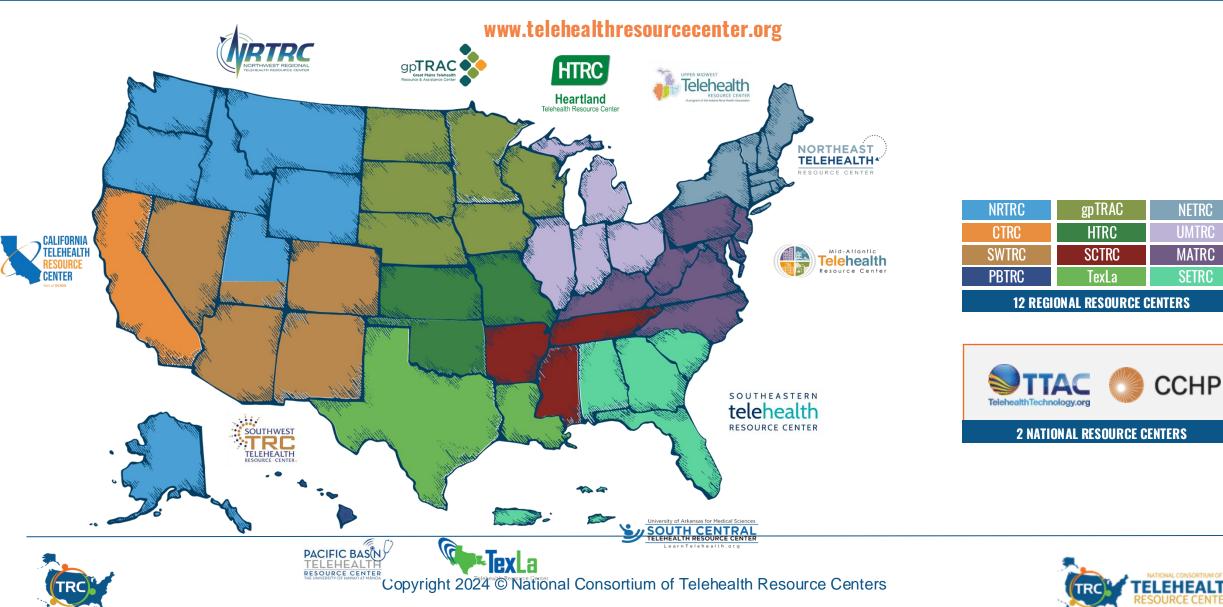
TELEHEALTH RESOURCE CENTERS

Closer to Home: Improving Specialty Access and Decreasing Hospital Transfers with Inpatient Telehealth Services

October 17, 2024



HRSA Funded Telehealth Resource Centers



Webinar Tips and Notes

- Your phone &/or computer microphone has been muted.
- If we do not reach your question, please contact your regional TRC. There may be delays in response time: <u>https://telehealthresourcecenter.org/contact-us/</u>
- Please fill out the post-webinar survey.
- Closed Captioning is available.
- Please submit your questions using the Q&A function.
- The webinar is being recorded.
- Recordings will be posted to our YouTube Channel:

https://www.youtube.com/c/nctrc







Closer to Home: Improving Specialty Access and Decreasing Hospital Transfers with Inpatient Telehealth Services

> Peter Gardella Director of Telehealth Operations & Nursing MUSC Center for Telehealth



By the end of this session, the listener will be able to

Identify telehealth services that can be applied to the inpatient setting

Apply knowledge of why and how to deploy inpatient telehealth services in your areas to improve local patient access to specialty care and support services

Understand that telehealth isn't meant to replace in person care, but to strengthen it, through strategic support of local hospital needs.



How we do it (technology)





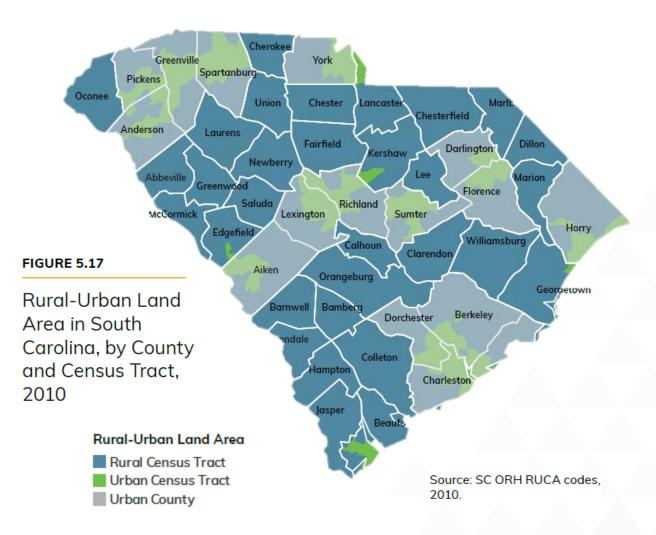
How we sustain it (quality and ROI)

2023 SC State Health Assessment



2023 SC State Health Needs Assessment RELATED FINDINGS

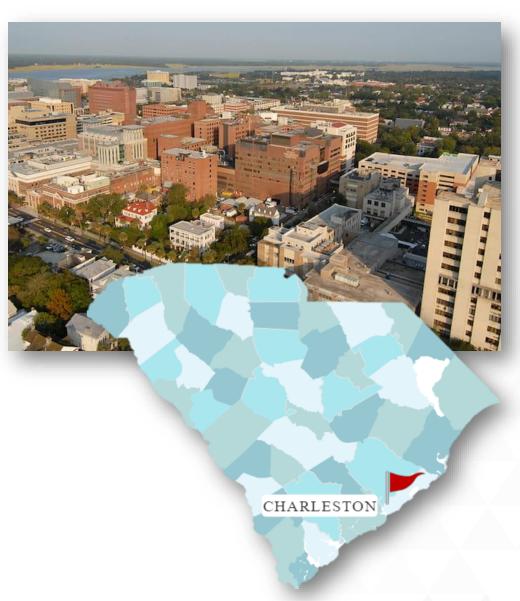
- 1. 27% of SC residents live in rural areas
- 2. Access to health care is the #1 health issue
 - Healthcare system mergers and the effect on physical localities, specifically in rural areas where there may be only one hospital or specialty provider
 - Lack of infrastructure surrounding care coordination between systems
- 3. 10% of SC Households have no internet access
- 4. Health care access, including health insurance, healthcare workforce shortages, and lack of healthcare facilities, specifically in rural areas, were listed among the top reasons preventing SC from creating a "healthier state."
- 5. Rural areas had a higher overall death rate than urban areas.
- 6. SC is the 10th fastest growing state in the nation



About Us

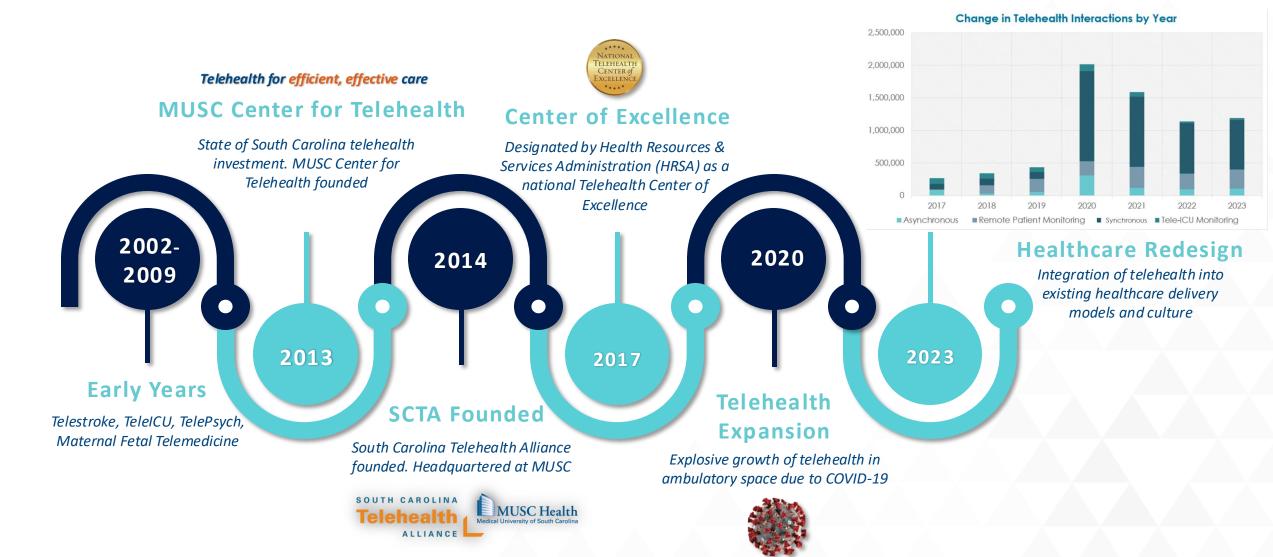


MUSC BY THE NUMBERS 2024 2.4 MILLION SC's only Comprehensive Academic Medical Center Annual patient encounters * * * * * * * * * * * * * * * * 22,312 8,...8 (....8) (....8) (....8) Physicians, faculty, and staff 16 Ē Hospitals 46 2,700 Serving every county Licensed beds in SC 750 Care Locations MUSC CENTER FOR TELEHEALTH 2024 1 of 2 765+ S C T A 45+ Funded NATIONAL TELEHEALTI CENTER of Excellence Providers National SCTA-Telehealth 85+ Centers of Excellence Operations and clinical 1.2 MILLION 100 +support CTMs **Publications**



Our History



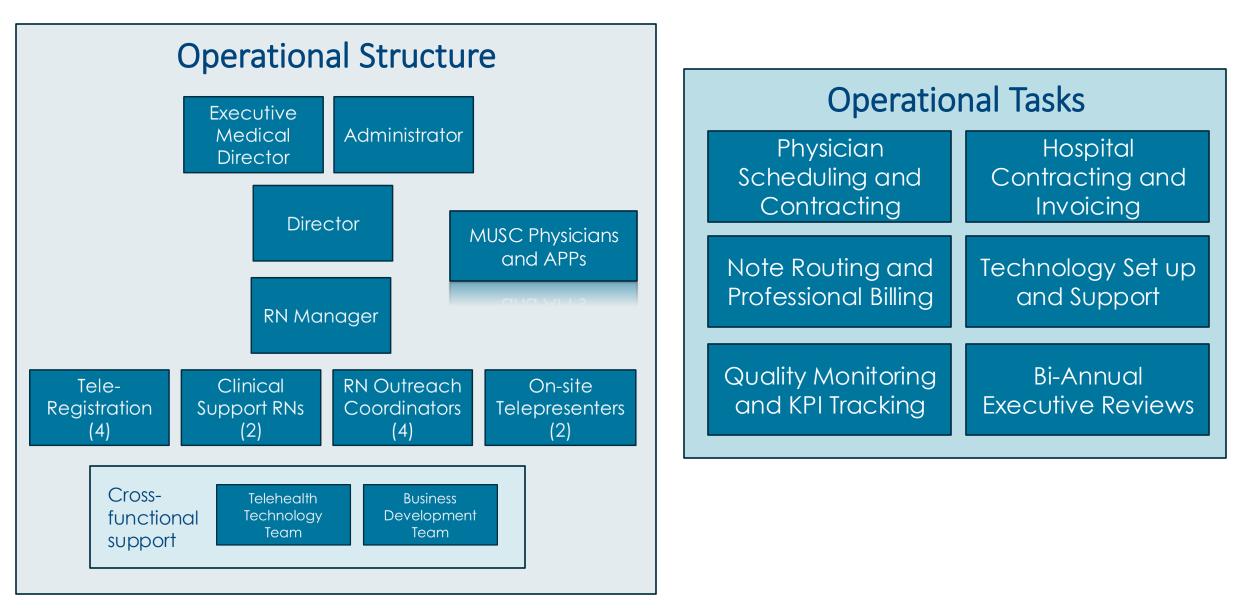


Inpatient Telehealth Service Overview



- Organizational Structure
- Consultative Services
- Rounding/Monitoring Services





"Umm...where are you, exactly?"



✓ Improved Quality of Life

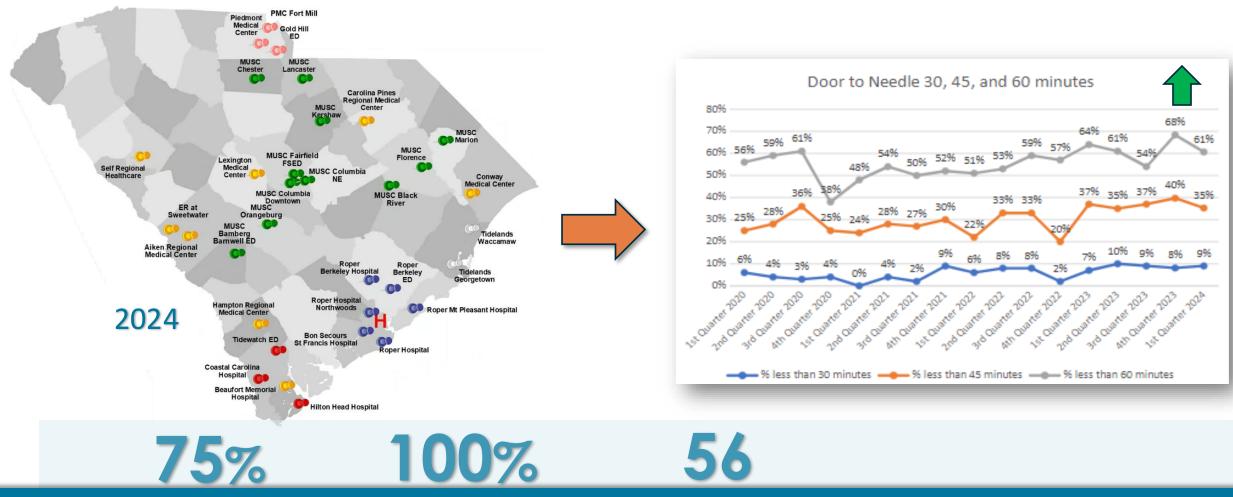
MUSC Tele-Stroke Network





MUSC Tele-Stroke Network





Partners are stroke accredited

of SC citizens within 1 hour of expert stroke care Median Door-toneedle time (FY24Q4) **NEW FOR FY2025 –** Statewide Quality Collaboration to reduce DTN by sharing best practices





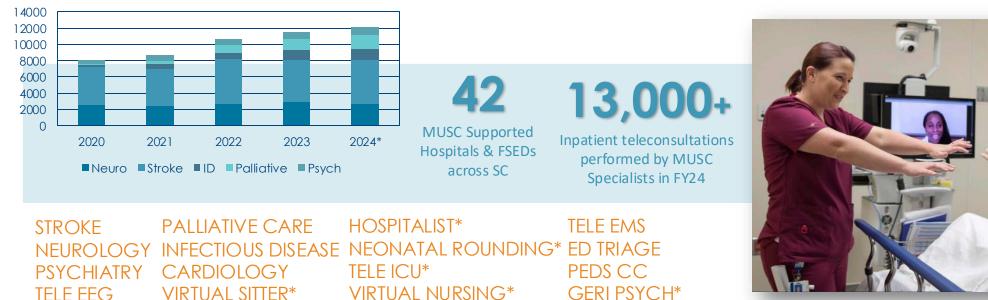
Synchronous Video Teladoc / ThinkAndor





Specialty access, Cost of care, coverage to keep care local, core measures, length of stay, bundle adherence, nursing quality metrics, risk adjusted mortality, hospital payments, contract and billing revenue





Telehealth Consultative Services



- Urgent/Emergent services offered 24/7/365
 - Stroke and Acute Neurology
 - Site requests urgent consult through our Admit Transfer Center (ATC)
- Provider joins via Video Platform for AV & Documentation
- Average Provider Response is 6 minutes

"Scheduled" consults

MUSC Health

- Neurology 7 days/week, 8-4
- ID, Psych & Palliative Mon-Fri, 8-4
- Hospital requests consult through the Tele-registration team or platform
- Providers view schedule in Epic, audit chart prior to consult and document in Teladoc Solo software or directly in Epic.

Efficiency Wins

- 1. Schedules in EMR or "**patient list**" in virtual platform
- 2. Clinical RN to support patient readiness at site
- 3. Telepresenters to support logistics and reduce late cancellations
- 4. FY25 Focus: **Leverage HIE's** to have immediate access to consult notes

Telehealth Rounding/Monitoring Services

support

Virtual Specialists; On-Site

5,319

Total FY24 Census Covered by Tele Hospitalists

APPs, CFT operational

Access to specialty-attending coverage, Length of stay; Nursing-sensitive indicators, Hospital financial performance; **Supplement bedside provider and clinical teams**

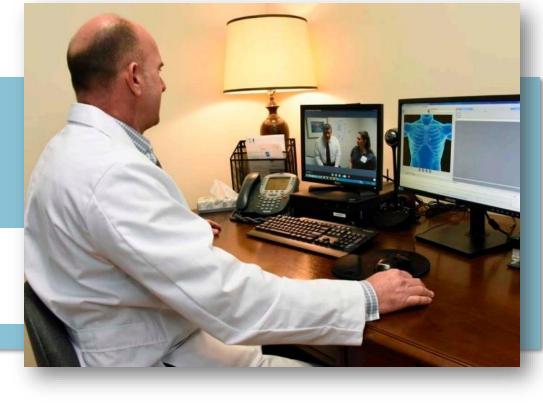
Work with APP for all admission & Round daily for plan of care and patient disposition (24/7 availability for urgent needs)

Annual savings over Locum Tenens Psyct	Reduction in LOS over Locums	Moms delivered close to home in 1 st Hospital, 1 st year
GERIATRIC TELE NEON TELE HOSPI		TELE ICU VIRTUAL NURSING VIRTUAL SITTING

Synchronous Video;

Phone calls; Chart

Review

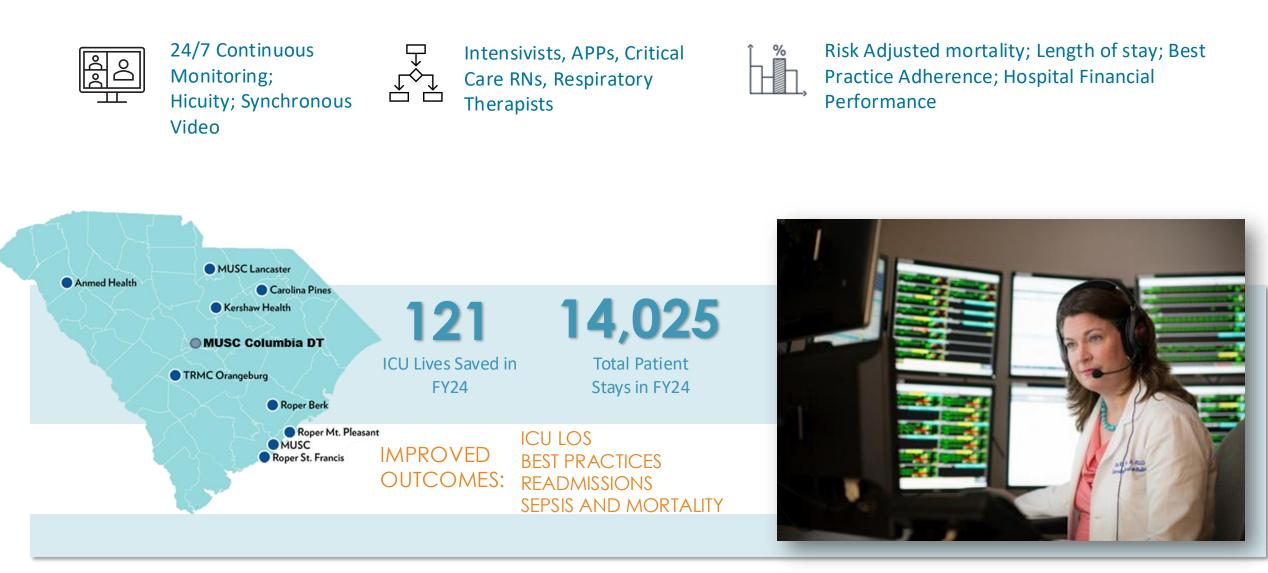




Tele-ICU



MUSC Health Medical University of South Carolina

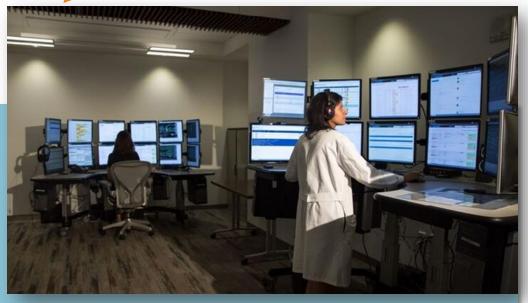


Tele-ICU

- Since 2015, over 77,980 patients monitored in Tele-ICU at SC partner sites
- MUSC CFT operates one of 11 Hicuity operation hub that staffs 2 ICU RNs and 4 MD's, including time bought down for Medical Directorship for program support
- MUSC offers **"ICU Innovations"** which includes an IDT that travels to partner sites to provider education and training (ex. ARDS, Sepsis). Mix of in-person and online modules

Tele-ICU ROI and Data Collection

- Sophisticated ROI and proprietary quality KPI reporting
- Information shared in annual executive review with sites
 - Ex.'s include ICU Mortality (APACHE), Ventilator Patient Management, Patient Transfers, LOS, ICU & Hospital Days Saved (\$)



Medical University of South Carolina

HicuityHealth







6,200+

Unique Patients Served

SERVICES:

Synchronous Video **Chart Review** Phone Support

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Hospitals

ADMISSION

DISCHARGE

CARE PLAN



113 days

Time given back to

Bedside nurses

PATIENT EDUCATION

QUALITY SURVEILLANCE

DOCUMENTATION COMPLIANCE

Virtual RN (VRN) available 24/7 for supportive bedside care

8,918

Virtual Nursing



Improve Nursing Workforce Economics, Core measures, improve best practice adherence, Decrease length of stay



Inpatient Virtual Nursing





One Hospital's Experience...

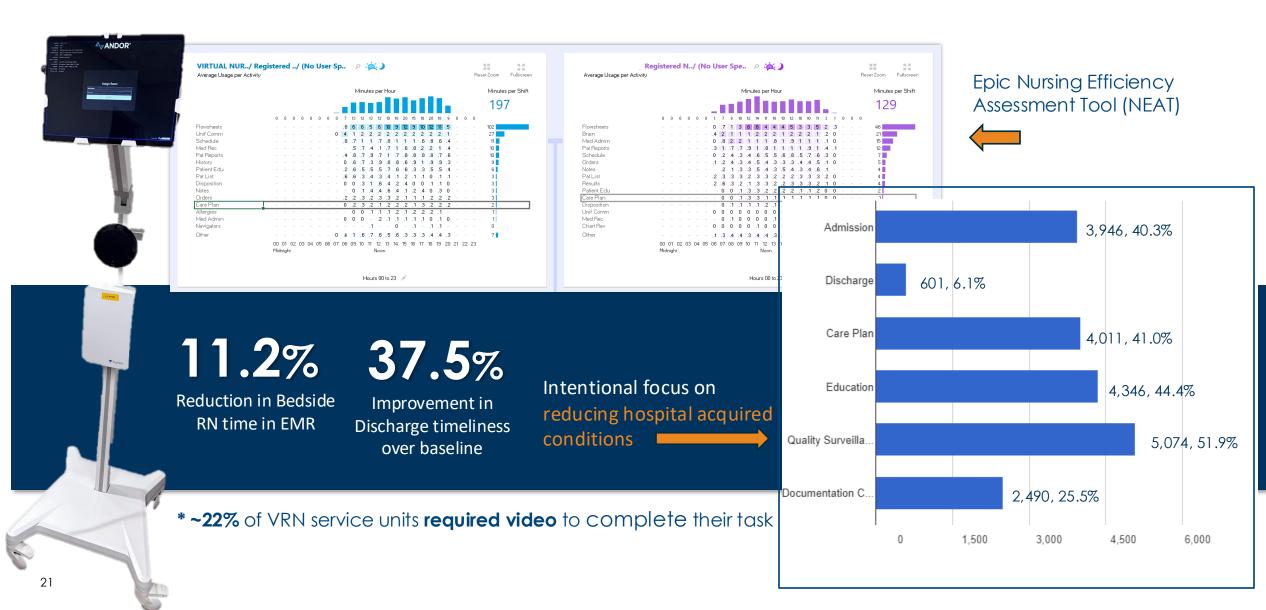
ection: Admission†					Admission	
Time Period	2020	2021	2022	2023	2024	
n		76	259	236	226	
Top Box Score	N/A	57.89%	59.85%	52.97%	61.95%	
Percentile Rank	N/A	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A Admission	
Percentile Rank ourtesy of person admit Time Period		N/A 2021	N/A 2022	N/A 2023		in 4 years, 8.98-
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20

Inpatient Virtual Nursing







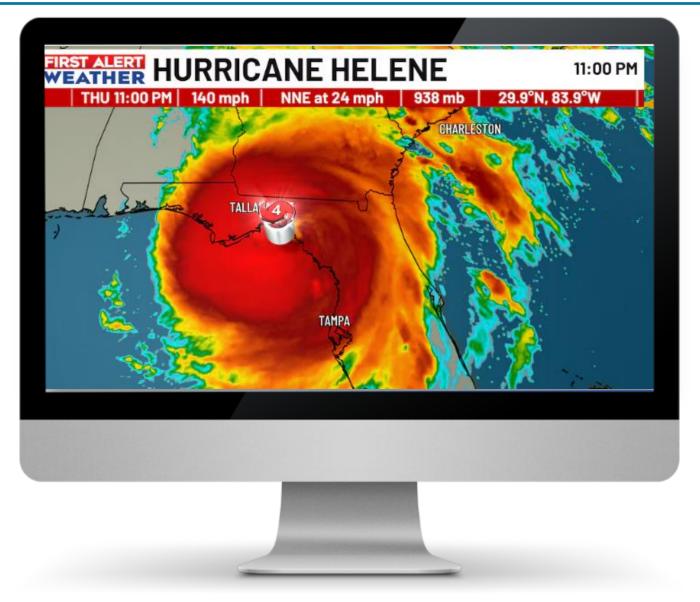
Closer to Home



- Access during disaster
- Reduction in patient costs
- Improved local hospital revenue

"Stay Home – We got it"





https://www.wistv.com/2024/09/27/hurricane-helene-making-landfall-with-winds-140mph/



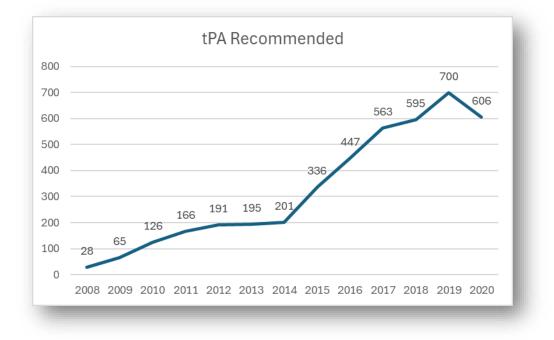
Beyond acute stroke: Rate of stroke transfers to a tertiary centre following the implementation of a dedicated inpatient teleneurology network

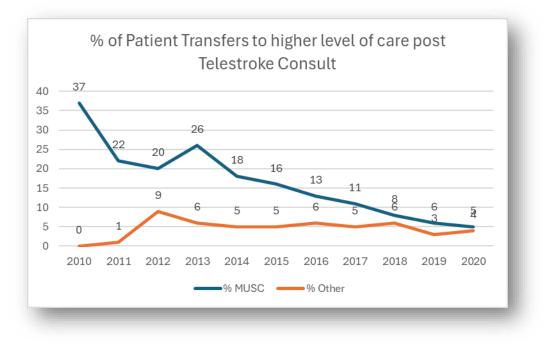
Sami Al Kasab^{1,2,*} ⁽⁰⁾, Eyad Almallouhi^{2,*}, Ellen Debenham², Nancy Turner², Kit N Simpson³ and Christine A Holmstedt²

Journal of Telemedicine and Telecare 2021, Vol. 27(4) 239–243 © The Author(s) 2019 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/1357633×19868097 journals.sagepub.com/home/jtt



After the establishment of the Tele Neurology network **patients were less likely to be transferred to the hub**, resulting in a cost savings of \$4,997 per patient



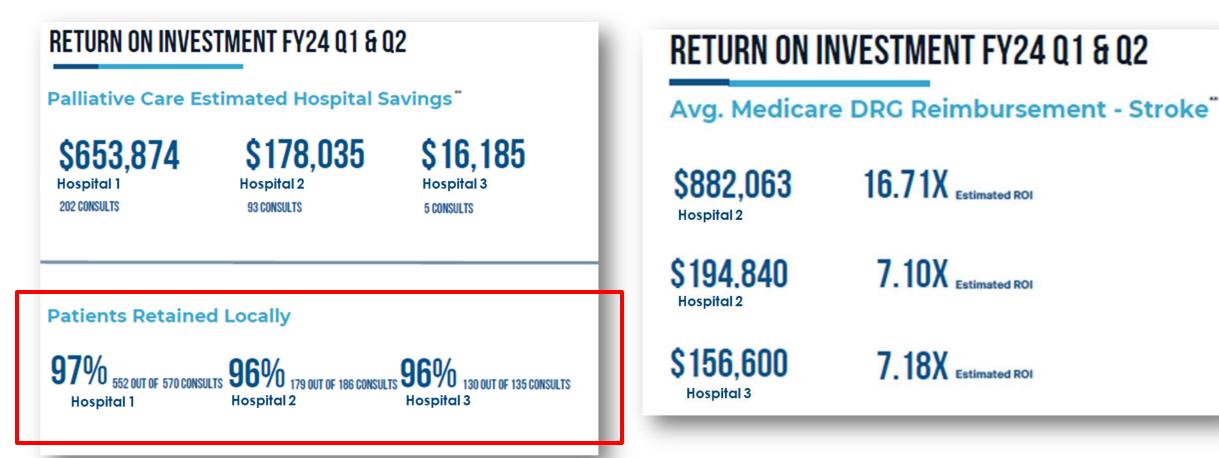


sagepub.com/journals-permissions DOI: 10.1177/1357633X19868097journals.sagepub.com/home/jtt

Improved Hospital ROI



- One MUSC hospital division consisting of 3 acute care hospitals
 - Services received include TeleStroke, TeleNeurology, TeleID, TelePalliative, TelePsych
- ROI based on combination of current DRG payments, physician salary benchmarks, and recent literature.



Quality Outcome Collaboration



AFREL 2024

83%

Psychiatry



MUSC CENTER FOR TELEHEALTH:

BI-ANNUAL REPORT APRIL 2024 MUSC CENTER FOR TELEHEALTH: CATAWBA DIVISION BI-ANNUAL REPORT APRIL 2004

VOLUME



#1000 **0004

01

 Ref Could Delaware
 82%
 91%

 List Flowed Delaware the sector have and the sector have been and the sect

03

MUSIC Health

O.O IVIIIV Avg ATC Call to MD Logon OPPORTUNITY
 Continue to Improve ED Door to Registration

78%

Pallative Care*

"Concernient on family evaluations

MUSC CENTER FOR TELEHEALTH: CATAWBA DIVISION BI-ANNUAL REPORT

TIMELINESS DATA AVERAGE

QUALITY FY24 01 & 02

Consults seen within 24 hours

and Registration to ATC time. Aug time of 23 minutes.

 Improve Alteplace Decision to Admin time. Avg time of 29 minutes. Goal is 10 mins.

 Continuous sharing of stroke best practices with clinical teams.

OPPORTUNITY

 Improve ED Door to Registration and Registration to ATC avg time of 485 minutes.

 Improve Alteplace Decision to Admin time of 22 mins. Goal is 10 mins.

MUSIC Health

 Continuous sharing of stroke best practices with clinical teams.

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- Telehealth isn't meant to replace in person care rather to strengthen it.
- Strategic virtual support for local hospitals helps patients can get the care they need closer to home.







Telehealth Resources South Carolina Telehealth Association sctelehealth.org

View resource guides, service overviews, and hear patient stories



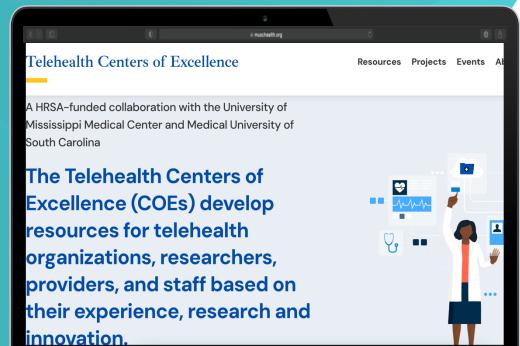
View current and prior annual reports



Get support for telehealth services by

contacting SCTA





Telehealth Resources

Telehealth Centers of Excellence https://telehealthcoe.org/

See what work is being done by MUSC and UMMC in Telehealth





Our Next Webinar

The NCTRC Webinar Series

Occurs 3rd Thursday of every month.

Hosting TRC: Northwest Regional Telehealth Resource Center (NRTRC)
Telehealth Topic: CISA Services: Federal Cybersecurity Resources for
Telehealth
Date: November 14, 2024*
Times: 11 AM – 12 PM (PT)

*This webinar has been rescheduled from our usual 3rd Thursday schedule.



Please Complete Our Survey

Your opinion of this webinar is valuable to us.

Please participate in this brief perception survey (will also open after webinar):

https://www.surveymonkey.com/r/XK7R72F

