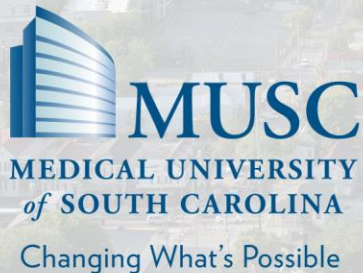
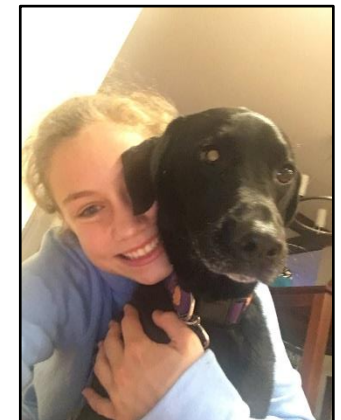
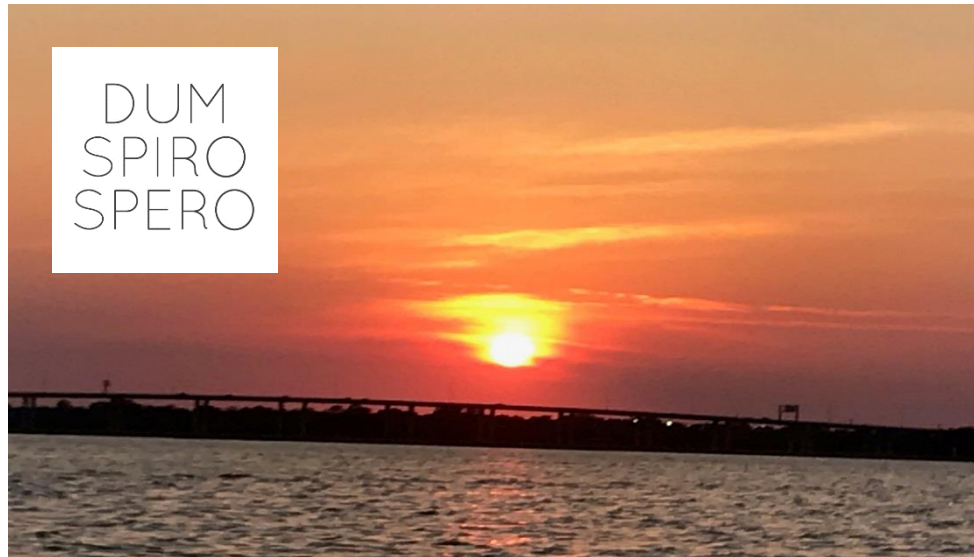
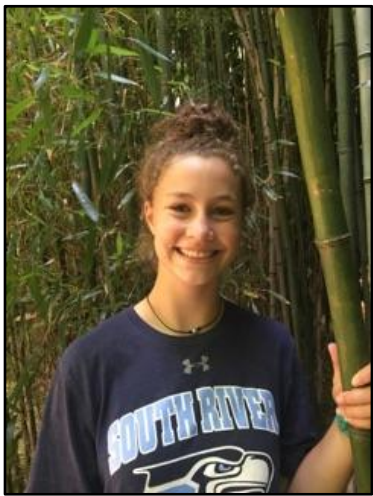


# Bringing a Lagging Finance Function up to Speed on the Heels of Clinical Integration



Lisa M. Goodlett, CPA, MBA, FACHE  
Chief Financial Officer  
MUSC Health



# Bringing a Lagging Finance Function up to Speed on the Heels of Clinical Integration

## Clinical Integration Definition

- Collaborative leadership
- Aligned incentives
- Clinical programs
- Technology infrastructure



# Leading Health **Innovation** for the Lives We Touch

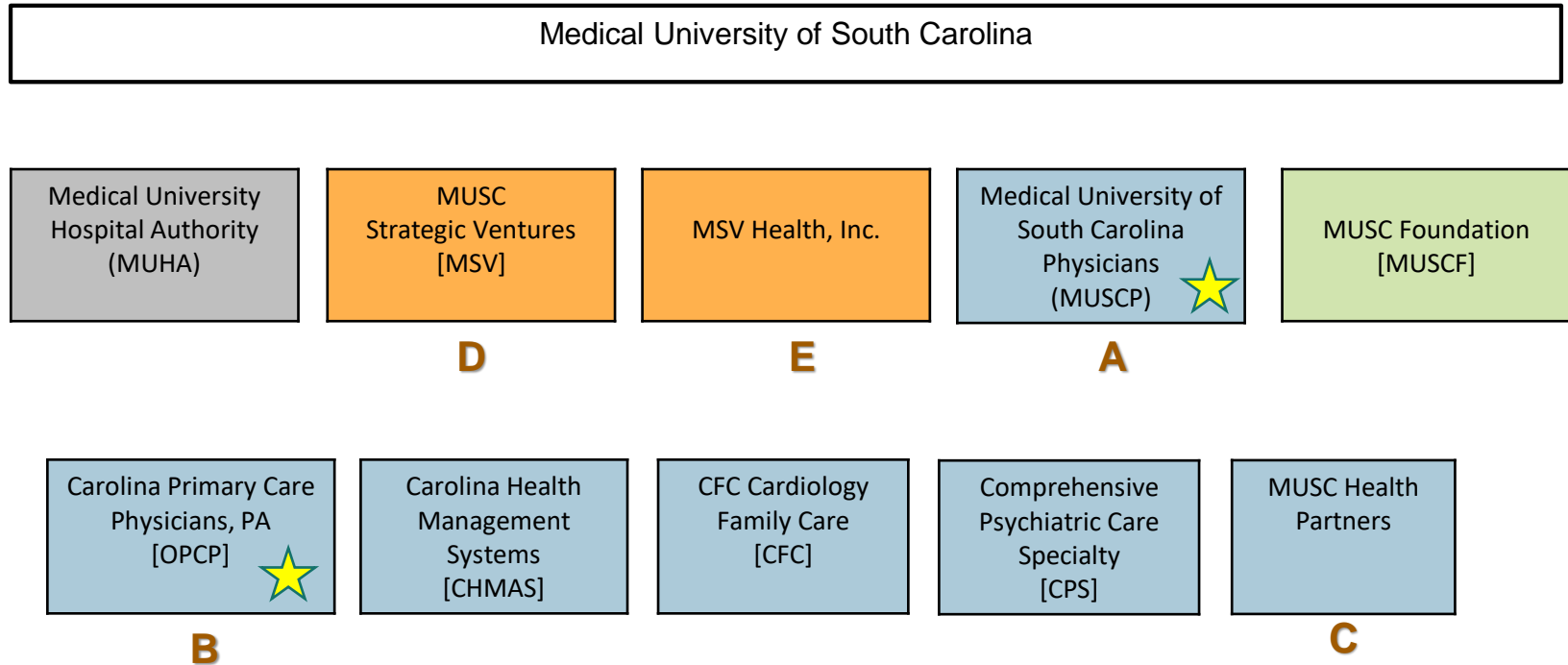
## MUSC's Impact



- One of the largest employers in South Carolina with more than 16,000 employees
- U.S. News & World Report named No. 1 hospital in South Carolina
- Annual \$3.8 billion economic impact in the Charleston Metro Area; 12% of \$33 billion total economy
- MUSC and its affiliates have collective annual budgets in excess of \$2.5 billion
- Approximately 3,000 students in every area of health professions
- Nearly \$260 million in research funding in 2016



# MUSC Entity Structure – the “MUSC Family”



## Entities for physicians

- A – UMA for academic physicians
- B – CPCP for non-academic physicians

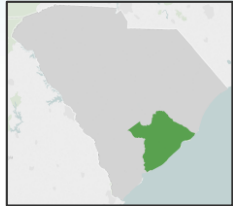
## Entities for non-physicians

- C – Health Partners for ambulatory sites controlled by MUSC Health

D – Joint ventures relationship where a partner has an ownership percentage. Allowable activity that will generate a profit. IRS Rev. Rul 68-375 and 68-376 control unrelated business taxable income through the guidance of providing healthcare to patients

E – For use in limited circumstances and only with vetting of MUSC Health CEO, CFO and General Counsel.

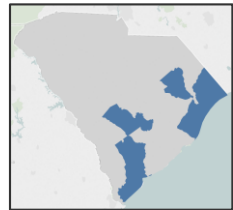
# Building an MUSC Health System: *Our Tactics*



## Local (Tricounty) Partnerships

-Inpatient Bed capacity  
-Community Needs / Ambulatory Expansion

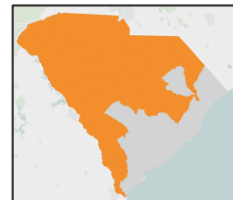
-Primary Care  
-Employer Needs



## Regional Partnerships

-Protect and build referral base  
for *Marquee Services*

-Population Health/Risk Management



## State & National Presence/Partnerships

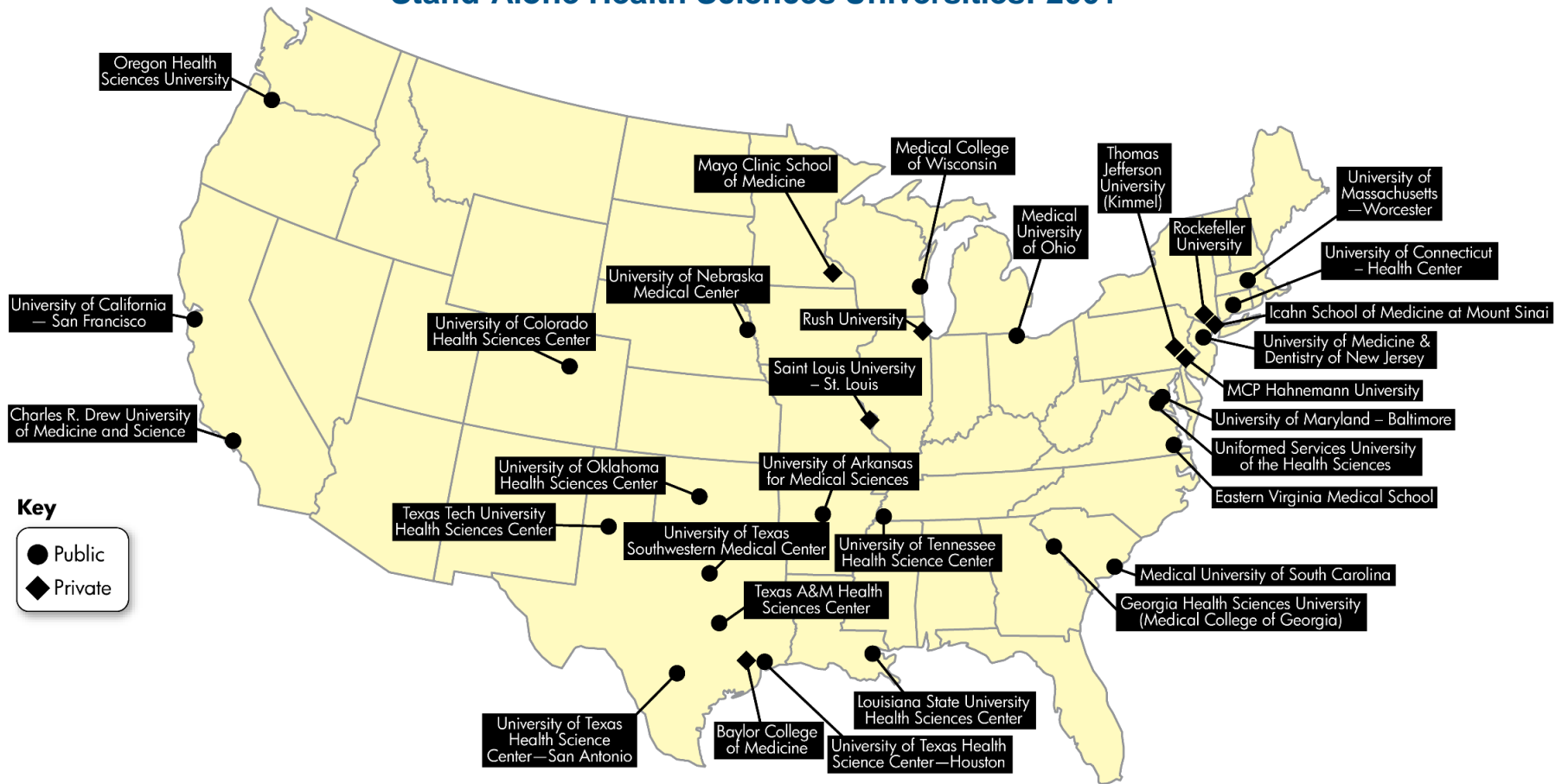
-Build *Marquee Services*  
-Academic integration

-State wide health impact / Medicaid  
-National impact



# National Market Trends for Stand-Alone Health Sciences Universities: 2001

Stand-Alone Health Sciences Universities: 2001\*



**Key**

- Public
- ◆ Private

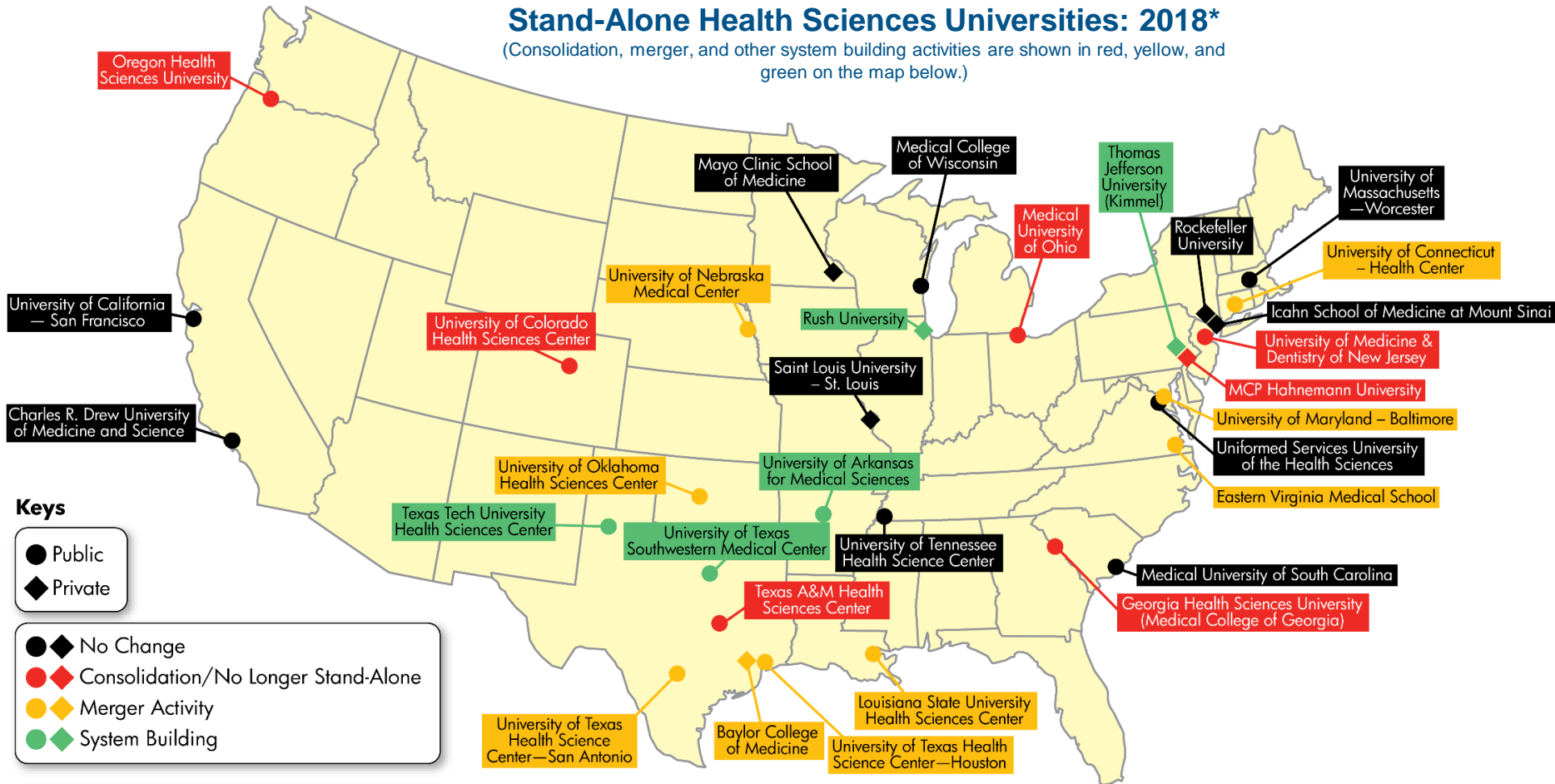
\* Center for Measuring University Performance (MUP) criteria used to determine classification as stand-alone health sciences university.



# National Market Trends for Stand-Alone Health Sciences Universities: 2018

## Stand-Alone Health Sciences Universities: 2018\*

(Consolidation, merger, and other system building activities are shown in red, yellow, and green on the map below.)



Privileged and Confidential – Attorney-Client Communication  
Exempt from Public Disclosure Pursuant to S.C. Code Ann. § 30-4-40(a)(1) and (a)(5)

\* Center for Measuring University Performance (MUP) criteria used to determine classification as stand-alone health sciences university.



# MUSC believes Transformative Leadership through Growth & Innovation



## This partnership is about transformation:

- › We expect to generate significant innovations: pediatrics, cardiovascular care, radiology, and neurosciences.

## We are focusing in these areas:

- › expanding precision medicine, transforming care delivery, improving the patient experience, and digitalizing health care.

## Joint Vision:

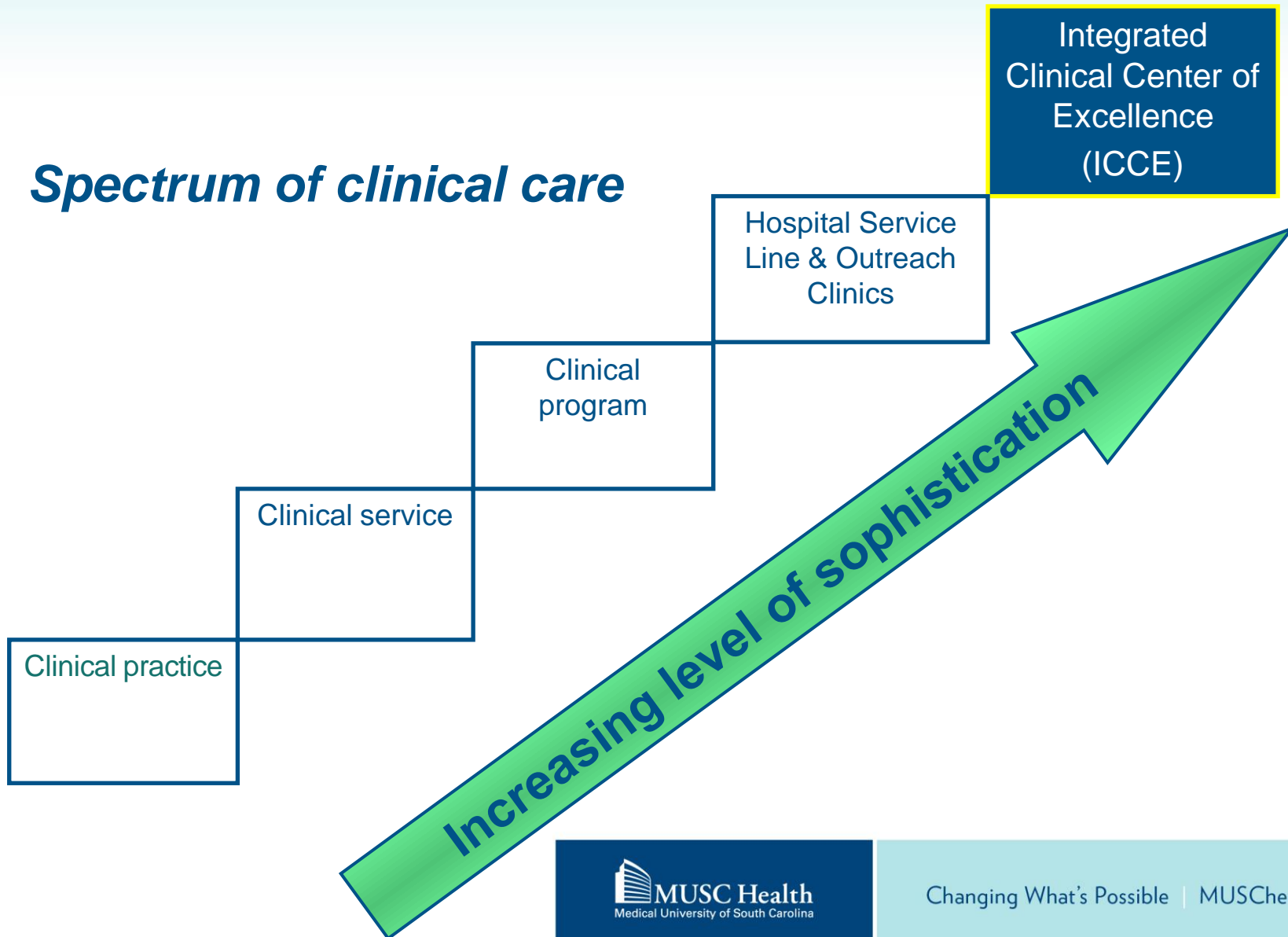
- › Create a blueprint for the rest of the world of a transformed health care system that provides safe, equitable, timely, effective, efficient and patient centered care



# MUSC Facing the Future

*Collaborative Leadership  
Aligned Incentives  
Clinical Programs*

## *Spectrum of clinical care*



# How is Care Organized in MUSC Health?

An Integrated Center of Clinical Excellence (**ICCE**) is a **defined set** of clinical services **aligned to meet patients' and providers' needs** for convenience, access, consistency and quality/cost (value)

## ICCE is...

- The basic organizational unit of MUSC Health
- Patient-oriented and organized by disease or service provided
- An inter-professional, multidisciplinary team-focused model
- A platform to better unite traditional medical and surgical specialties and subspecialties
- A mechanism to facilitate scientific inquiry, educational programs and further the academic mission



## Common Terminology

- **ICCE:** A Health System function, organized by disease or body organ definition, that oversees, manages and is responsible for all aspects of patient care
- **Department:** An academic body, organized by study, that performs a range of clinical, research & educational activities
- **Program:** An organized array of clinical services contained wholly within an ICCE



# What is Clinical Integration?

## Clinically Integrated Care

**Pillar 1:**  
**Collaborative leadership**

Governance body  
Compliant legal structure  
Payer strategy  
Culture change

**Pillar 2:**  
**Aligned incentives**

Physician compensation  
Program infrastructure  
Physician support

**Pillar 3:**  
**Clinical programs**

Disease programs  
Care protocols  
Clinical metrics  
Population health management

**Pillar 4:**  
**Technology infrastructure**

Health information exchange  
Patient longitudinal record  
Disease registry  
Patient portal











# ICCE Principles

*Collaborative Leadership  
Aligned Incentives  
Clinical Programs*

<b>Physician Led</b>	An ICCE is a business unit that spans MUSC Health – wherever clinical service is provided – and is accountable to a single physician leader (ICCE Chief)
<b>Collaborative Approach</b>	The ICCE structure recognizes and supports that physicians often work more closely with colleagues in different departments than their own; facilitates relationships among clinicians based on patient approach or disease
<b>Aligned Goals</b>	ICCE improve strategic alignment by promoting a single, unified approach for MUSC Health within the business unit
<b>Care Continuum Accountability</b>	ICCE have responsibility over all aspects of patient care within their domains; every clinical area has a home in ICCE
<b>Reduced Fragmentation</b>	The ICCE structure helps to reduce fragmentation and competition for patients among physician in different departments who perform the same procedures; drives health system development



# SL vs. ICCE Evolution (high-level)

Concepts	SL	ICCE	Notes
Clear Authority / Accountability			Single Physician leader vs. dyad leadership
Ability to influence Physician goals/performance			Explicit alignment with COM via new governance structures
Ability to influence Value ( $V=Q/E$ ) goals/performance			Aligned incentives and accountability for of the Continuum of Care
Direct oversight of nursing			Explicit integration with clinical support services and all ambulatory operations managed by Operations
Enterprise focus vs. hospital focus			ICCE spans entire clinical enterprise (ambulatory clinics, IP units, affiliates, and other care delivery partners)
Everyone has a 'home'			All clinical areas/departments are represented within an ICCE
Budget / Financial performance			As today, ICCE will have specific financial targets and expense budgets. Revenue will continue to flow through COM.



# Types of ICCE

ICCE have been categorized as either Patient-Focused (pICCE) or Collaborative (cICCE) based on the orientation of care they provide. While pICCE and cICCE are both physician-led and share the same internal governance structure, they have slightly different missions.

## Patient-Focused ICCE

- pICCE are organized by disease, patient, process or body organ (i.e. Cancer)
- In this context, the term “Patient-Focused” denotes that DRGs live within pICCE
- pICCE are the revenue-generating units of the Health System and leverage services from other units to support the comprehensive delivery of patient-focused care

## Collaborative ICCE

- cICCE are organized by the services they render (i.e. Radiology).
- In this context, the term “Collaborative” denotes that activities performed by this ICCE may be leveraged in care plans across any and all pICCE, necessitating a collaborative relationship with pICCE to deliver comprehensive patient care



# ICCE Model

## Patient Focused ICCE (n=10)

Acute, Critical & Trauma Care

Cancer

Children's & Women's

Digestive Health, Endocrine & Metabolism

Heart & Vascular

Musculoskeletal

Neurosciences

Primary Care

Specialty Surgery & Spine

Transplant, Nephrology & Hepatology

## Collaborative ICCE (n=5)

Anesthesia

Mental Health

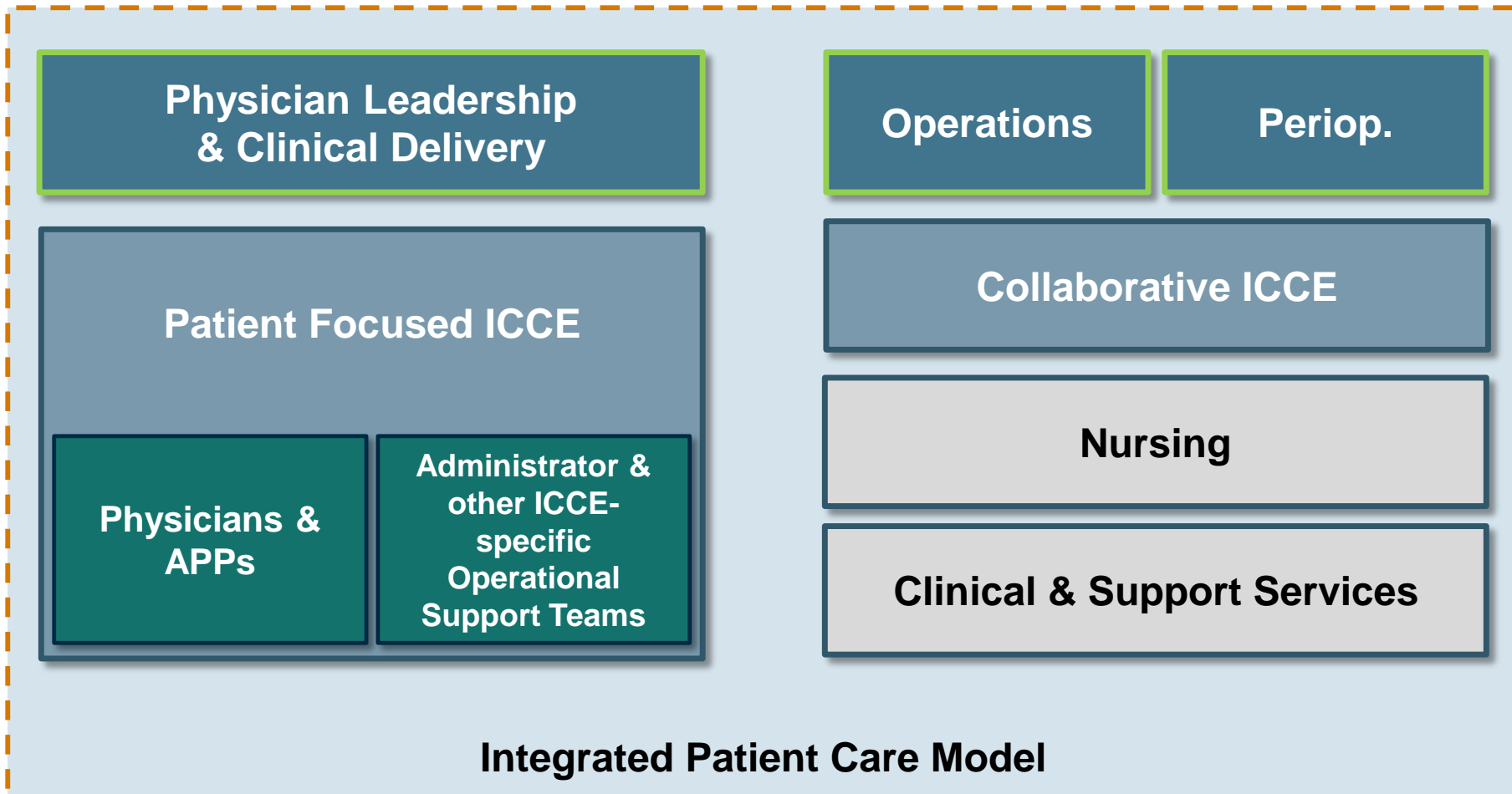
Path & Lab

Pharmacy

Radiology



# ICCE & Operations – Working Together



# Funding Mechanisms

- Support to COM
- Funds Flow
- Compensation change
- Multispecialty group



# How we manage the system

- Tableau
- Daily focus with 7:45am call – All Leaders
- Ambulatory throughput
  - Referral Management
  - External Referrals Summary
  - Open Encounters
  - MUSC Volume Driven Marketing
  - APP Scorecard



# Ambulatory Balanced Scorecard



## Ambulatory Balanced Scorecard Access (PATH) Updates daily at 9:15am

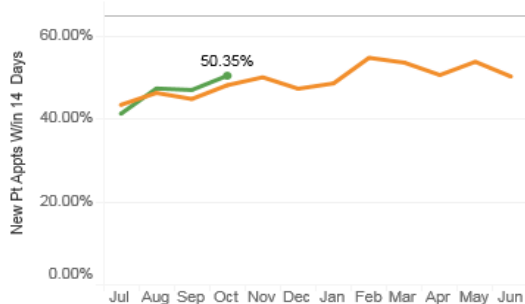
Clinical L... MUSC SPECIALTY CARE NORTH Department... (All) Fiscal Year (Multiple values)

### MUSC SPECIALTY CARE NORTH - FY 2018 & FY 2019

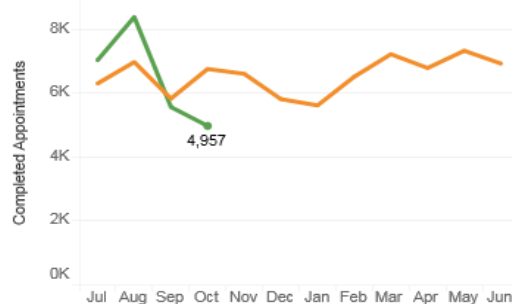
	New Pt Appts - 14 Days	Avg Third Next New	Avg Third Next Return	Density - Actual (min)	Density - Sched (min)	Provider Cancel Rate	No Show Rate	Pt. Same Day Cancel	Completed Appts	Complete Appts/ Session
FY 2018	49.42%	21.94	23	33.51%	36.53%	5.20%	8.29%	11.60%	78,461	3.49
FY 2019	46.07%	24.20	23	36.69%	40.16%	5.33%	8.44%	11.53%	25,886	3.72

■ FY 2018 ■ FY 2019

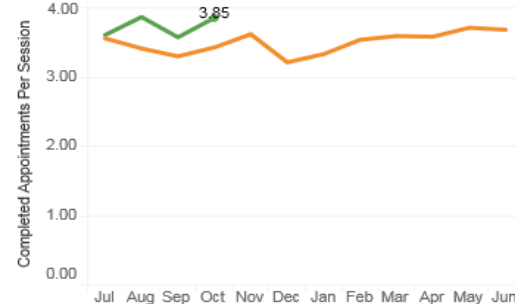
New Patient Appointments W/in 14 Days



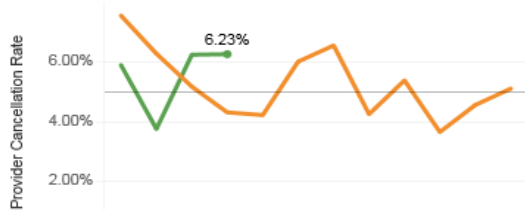
Completed Appointments



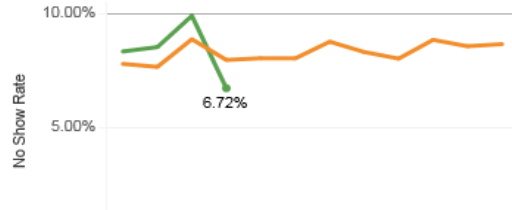
Completed Appointments Per Session



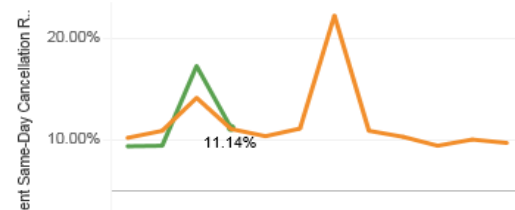
Provider Cancellation Rate



No Show Rate



Pt. Same-Day Cancellation R.



# Open Encounters



## Open Encounters

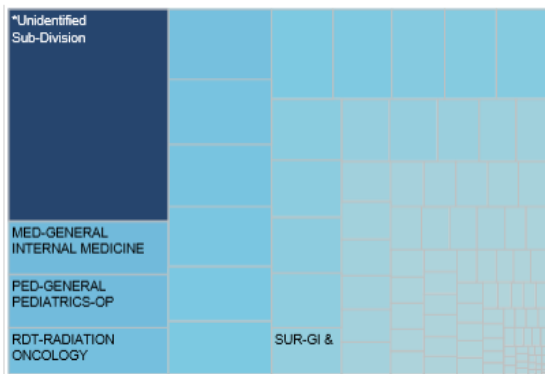
Note: The data in this dashboard is current as of 2 days ago

# Open Encounters

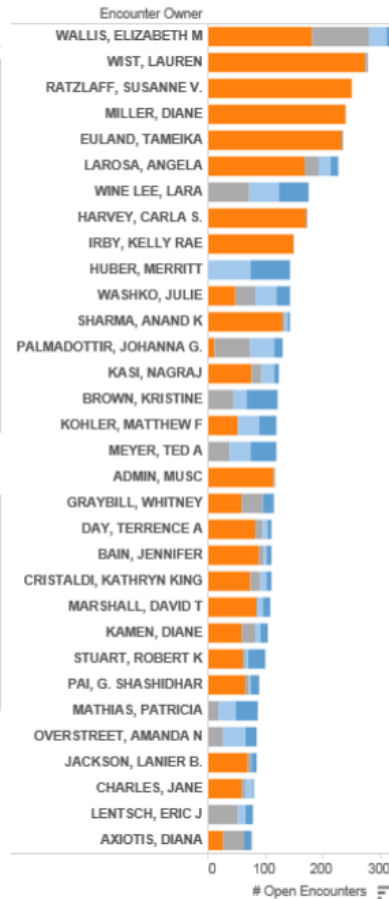
12,332

Average Days Open

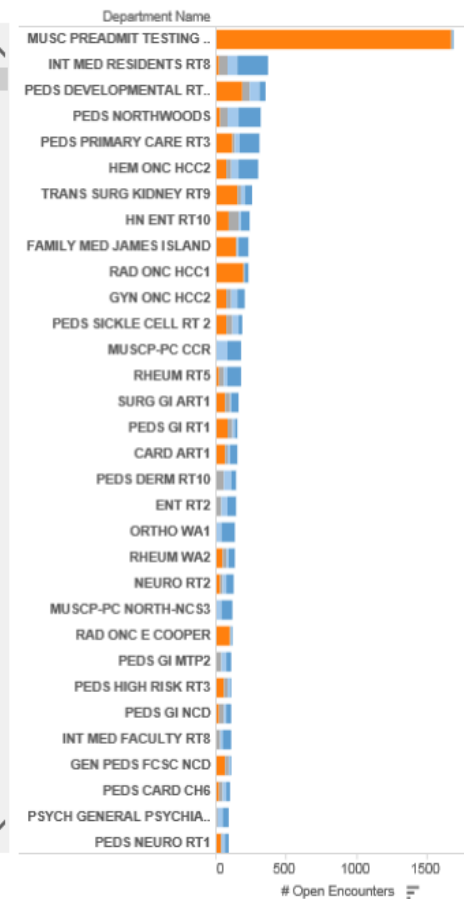
71.9



By Provider



By Department



Encounter Type  
Office Visit

Clinical Department  
(All)

Clinical Division  
(All)

Department  
(All)

Encounter Owner  
(All)

Encounter Owner Type  
(All)

Visit Prov Type  
(All)

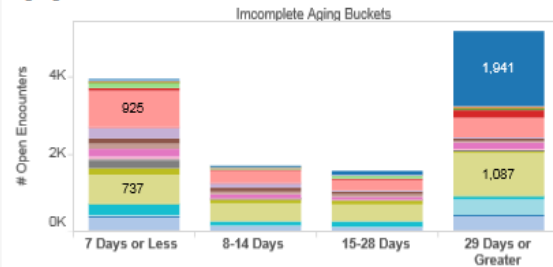
Appt Status  
(Multiple values)

Incomplete Aging B...


- 7 Days or Less
- 8-14 Days
- 15-28 Days
- 29 Days or Greater

[Click for Tip Sheet](#)

Aging



# External Referrals Summary



## External Referrals Summary

RFL Entry Date: Previous quarter | 
 Referred to Provider: (All) | 
 Referring Provider: (All) | 
 Referred to Specialty: (All) | 
 Procedure Name: (Multiple values) | 
 RFL Priority: (All) | 
 Practice Name: (All)

RFL Qty along Table (Across)

### 9,733

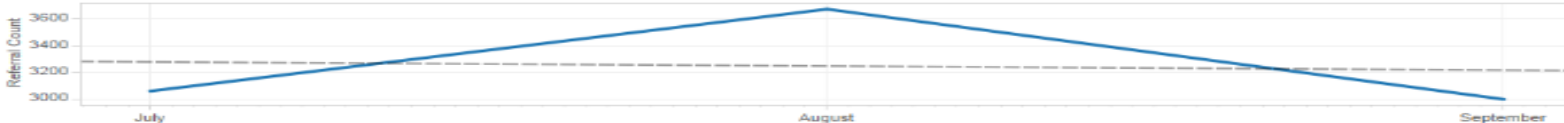
Distinct Referring Providers

### 2,265

Distinct Providers Referred To

### 369

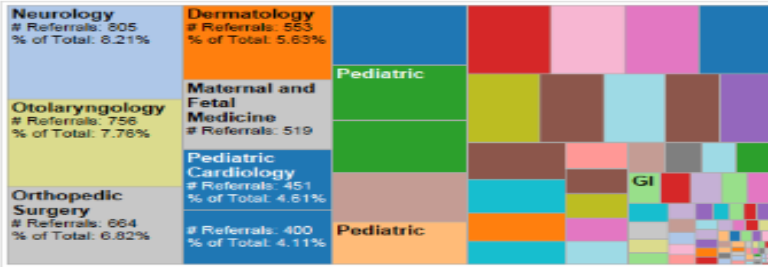
### Incoming Referrals by Month



### Qty by Referring Provider

Referring Provider	Referral Qty	Previous Mo..	Month over ..
TEACHMAN, ROBERT	21.0	25	▼ 16.0%
RODGERS, BENJAMIN	16.0	24	▼ 33.3%
TRIPP, CHRISTINA	3.0	23	▼ 87.0%
PRUITT, ANNA	6.0	8	▼ 25.0%
LOPEZ, LISA	6.0	11	▼ 45.5%
BERTRAND, HELEN	16.0	10	▲ 60.0%
KING, CASEY H	6	6	▼ 100.0%
LINKER, PAUL	4.0	8	▼ 50.0%
STRIPLING, STEPHEN	14.0	24	▼ 41.7%
MCCALL, MARK	14.0	21	▼ 33.3%
LEONARDI, MICHAEL	7.0	5	▲ 40.0%
JOHNSON, PAMELA	20.0	14	▲ 42.9%
ZIEMINICK, SHERI	17.0	13	▲ 30.8%

### Referred To Provider Specialty Tree



### External Practice Name

Practice Name	Previous Month V..	Month over Month
***No Practice Name**	1,869	▼ 16.1%
CARELINK - Palmetto Primary Care	202	▼ 21.8%
CARELINK - Coastal Pediatrics Associates	185	▼ 17.3%
CARELINK - Sweetgrass Pediatrics - Summer..	56	▼ 46.4%
CARELINK - Grand Strand Pediatrics & Adol..	49	▼ 42.9%
CARELINK - Franklin C. Fetter Family Healt..	40	▲ 22.5%
CARELINK - Sweetgrass Pediatrics - North ..	29	▼ 41.4%
CARELINK - Plantation Pediatrics	56	▼ 10.7%
CARELINK - Inlet Pediatrics	15	▲ 33.3%
CARELINK - Charleston ENT Associates	32	▼ 62.5%
CARELINK - Sweetgrass Pediatrics	32	▼ 9.4%
CARELINK - Summerville Pediatrics	54	▼ 44.4%
CARELINK - Charles Towne Pediatrics	18	▲ 22.2%
CARELINK - Palmetto Pediatrics	28	▼ 21.4%
CARFI INK - Parkwood Pediatrics	22	▼ 27.3%

### Referred to Provider Specialty

Referred to Specialty	Referral Qty	Previous Month ..	Month over Mon..
Neurology	202	328	▼ 38.4%
Otolaryngology	232	245	▼ 5.3%
Orthopedic Surgery	182	245	▼ 25.7%
Dermatology	188	155	▲ 21.3%
Maternal and Fetal Medicine	141	205	▼ 31.2%
Pediatric Cardiology	135	180	▼ 25.0%
Null	159	142	▲ 12.0%
Gastroenterology	130	161	▼ 19.3%
Pediatric Gastroenterology	113	126	▼ 10.3%
Neurosurgery	97	142	▼ 31.7%
Ophthalmology	133	150	▼ 11.3%
Pediatric Endocrinology	97	104	▼ 6.7%
Urology	82	113	▼ 27.4%
Pediatric Orthopedic Surgery	78	85	▼ 8.2%
Cardiology	101	86	▲ 17.4%

Please contact Matt Long ([longma@musc.edu](mailto:longma@musc.edu)) with any content related questions



# Running the Medical Center

- Patient Throughput
- Length of Stay
- Trended Operations Dashboard
- Readmission

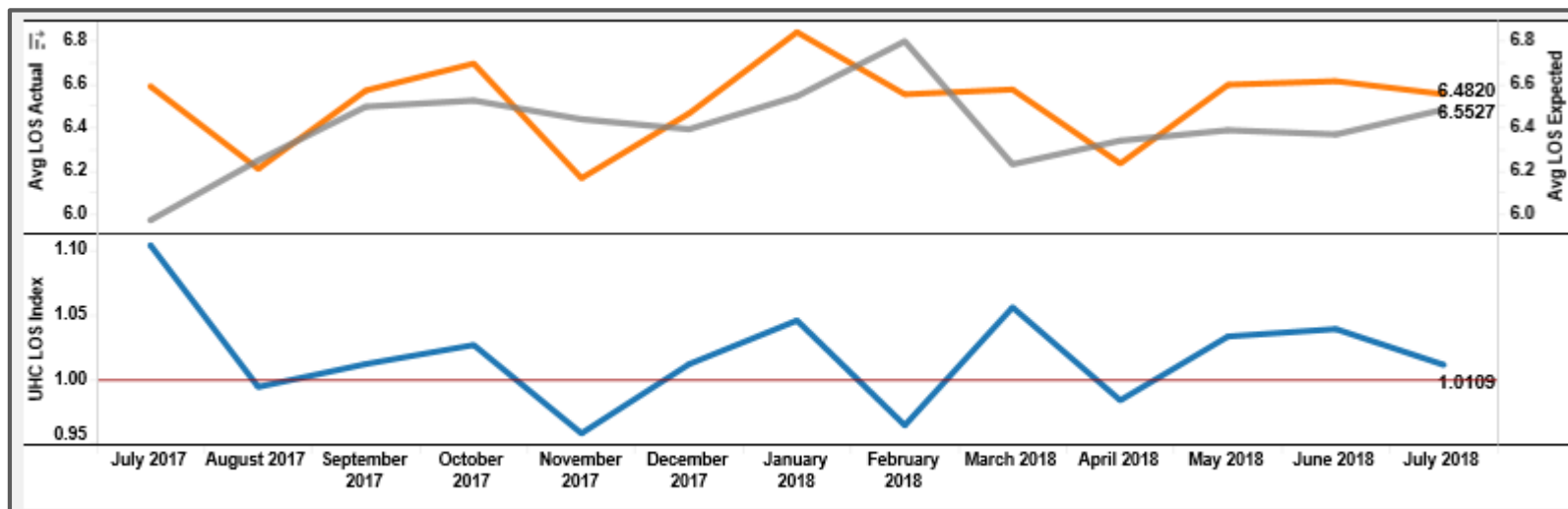
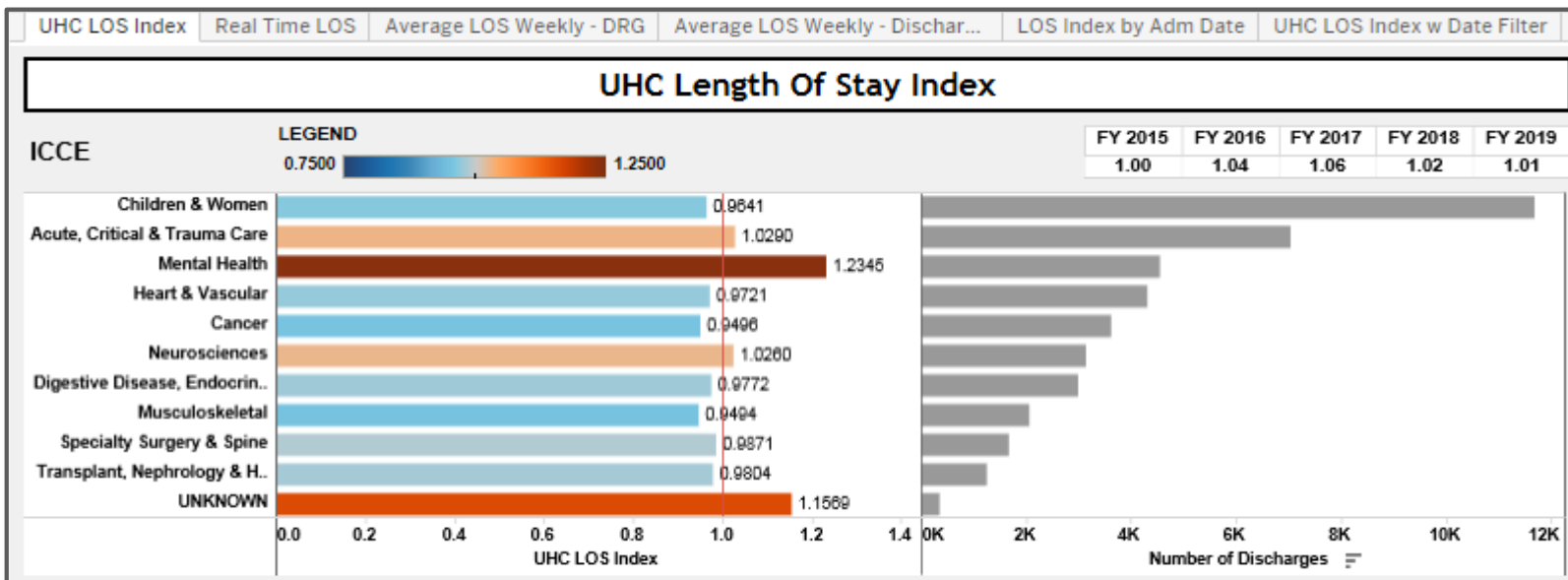


# Patient Throughput





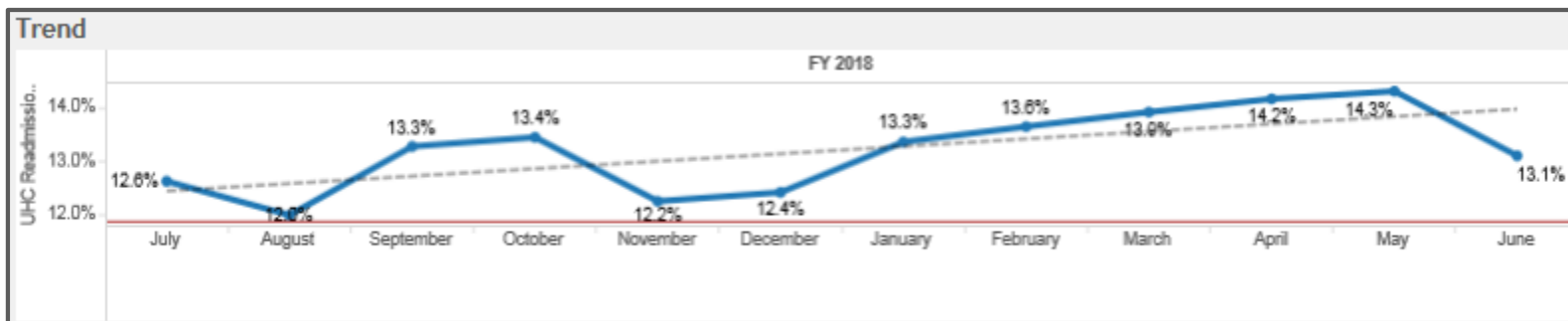
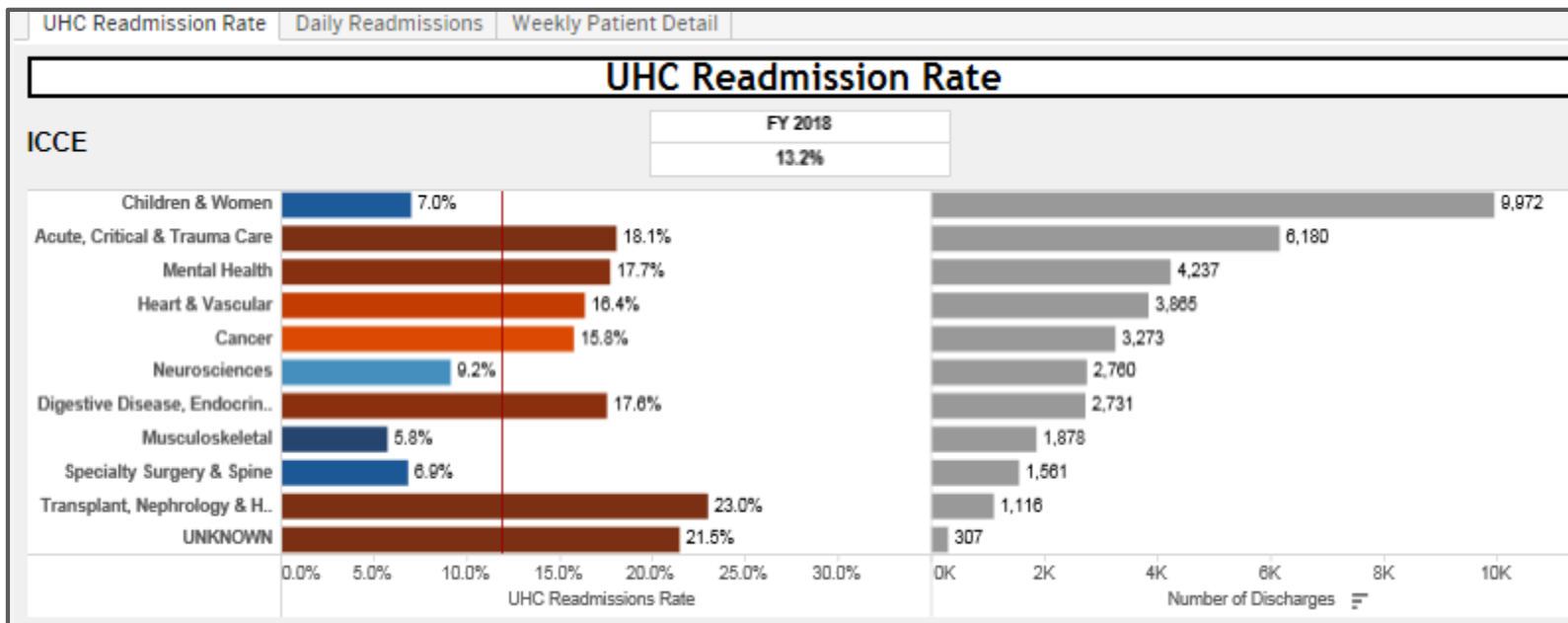
# Length of Stay



\*The source for this data is UHC. This data is updated in full increments with a 45 day lag on the 20th of the month.

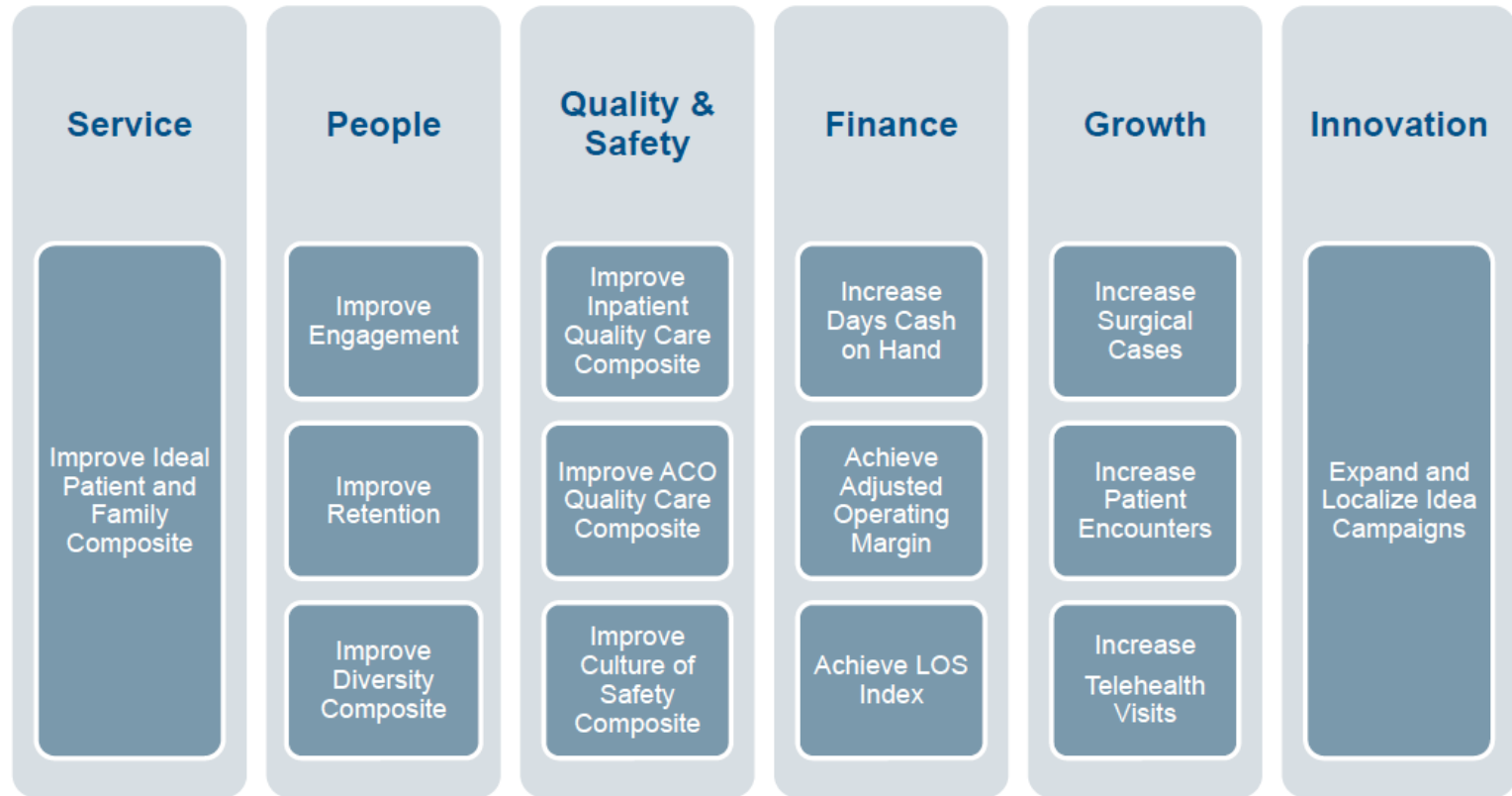


# Readmission

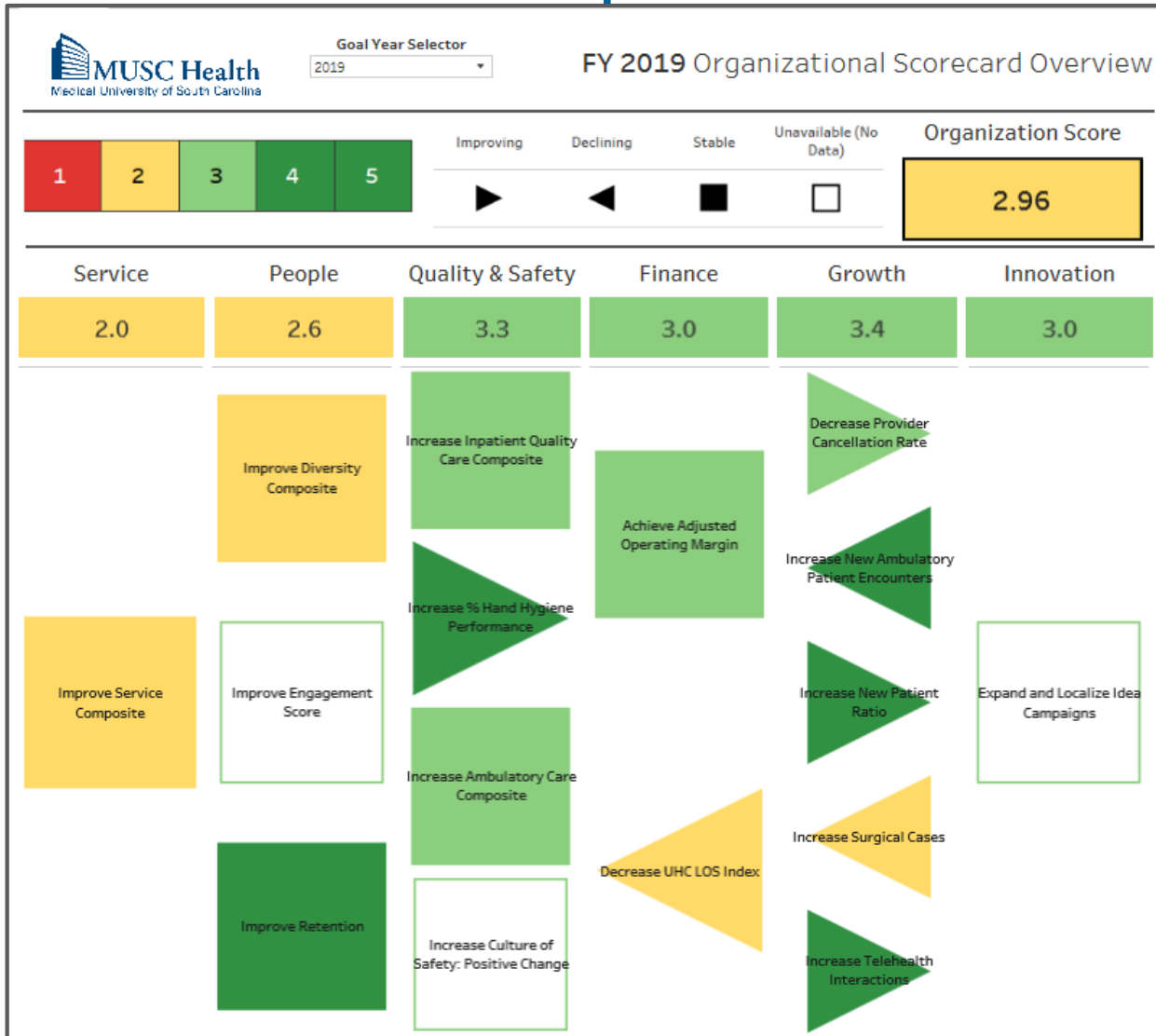


# LEAP Goal Process










## MUSC Health Goals – Pillars



# Hospital



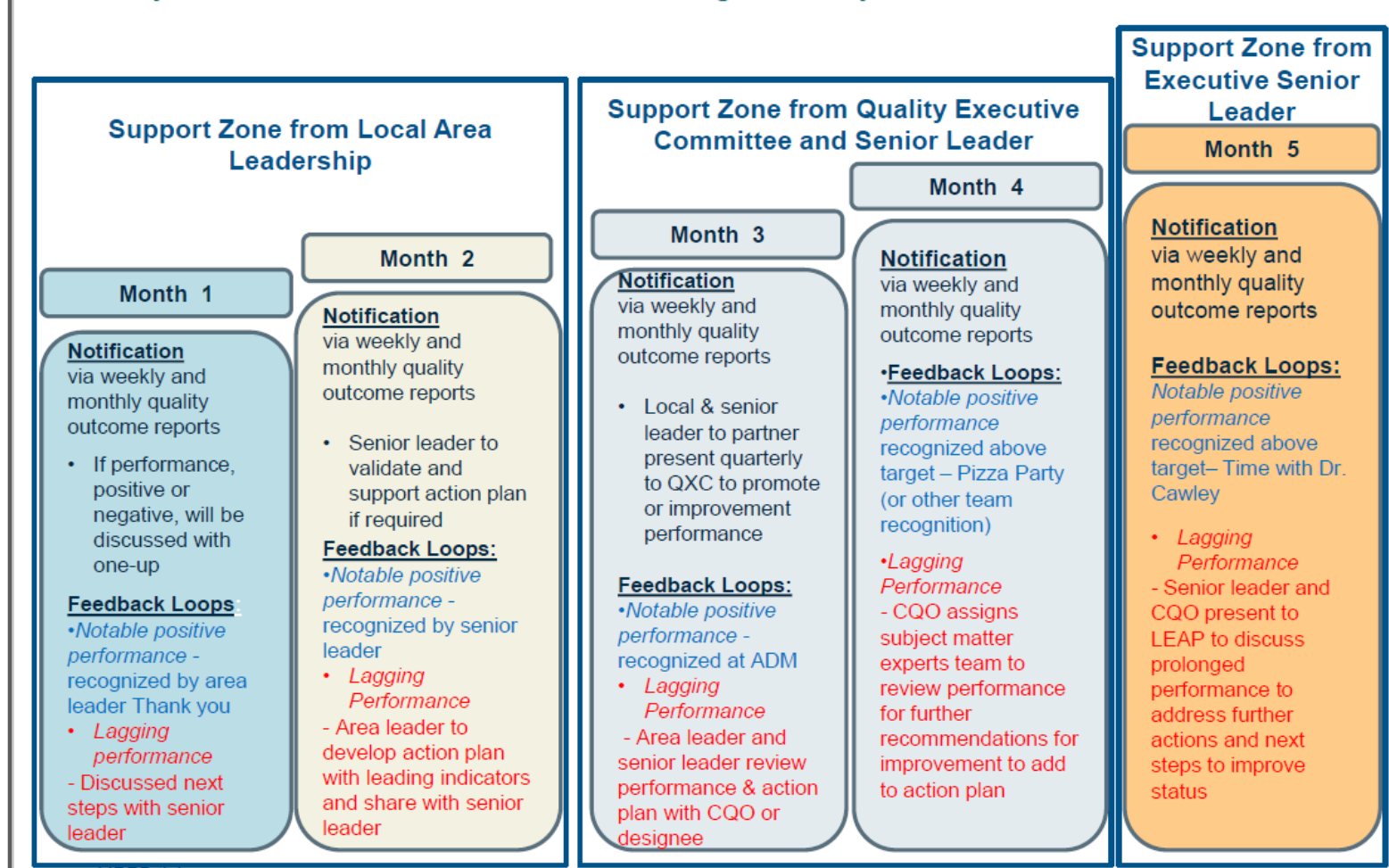
# [ICCE]Balanced Scorecard – FY19

Area	YTD Month Sep - 17	Metrics	Source
Growth		<ul style="list-style-type: none"> <li>Gross Charges vs. FY18 Budget MUHA</li> <li>Gross Charges vs. FY18 Budget MUSCP</li> </ul>	<ul style="list-style-type: none"> <li>Monthly Budget Presentation Report - EPSi</li> <li>MUSCP = Tableau - MUSC-P - Budget MTD Daily</li> </ul>
Gross Margin		<ul style="list-style-type: none"> <li>Actual YTD Gross Margin vs. FY18 Budgeted Gross Margin MUHA</li> </ul>	<ul style="list-style-type: none"> <li>Monthly Budget Presentation Report - EPSi</li> </ul>
Retention		<ul style="list-style-type: none"> <li>Actual turnover % vs. Target % MUHA</li> </ul>	<ul style="list-style-type: none"> <li>Tableau – People Analytics - Organizational Turnover Dashboard; Filter ICCE cost centers</li> </ul>
Quality		<ul style="list-style-type: none"> <li>TBD</li> </ul>	<ul style="list-style-type: none"> <li>TBD</li> </ul>
Patient Experience		<ul style="list-style-type: none"> <li>HCAHPS Overall Rating vs. PY</li> <li>CGCAHPS Overall Rating vs. PY</li> <li>Press Ganey Overall Assessment vs. PY</li> </ul>	<ul style="list-style-type: none"> <li>Tableau - Patient Experience – Patient Experience Balanced Scorecard – Organization Scorecard; Filter ICCE (also Press Ganey tab)</li> </ul>
Access Improvement		<ul style="list-style-type: none"> <li>New Patient Appointments w/in 14 days vs. PY</li> <li>Provider Cancellation Rate vs. PY</li> </ul>	<ul style="list-style-type: none"> <li>MUSCP Tableau – Ambulatory Balanced Scorecard – Access (PATH); Filter ICCE locations</li> </ul>
Length of Stay		<ul style="list-style-type: none"> <li>Length of Stay Index vs. 1.06</li> </ul>	<ul style="list-style-type: none"> <li>Tableau – Medical Center Capacity Management – Length of Stay – UHC LOS Index</li> </ul>
Supply Cost		<ul style="list-style-type: none"> <li>Supply expense as % of gross revenues MUHA</li> </ul>	<ul style="list-style-type: none"> <li>Monthly Budget Presentation Supplies Report - EPSi</li> </ul>
Medication Costs		<ul style="list-style-type: none"> <li>Medication Cost per patient day vs. PY</li> <li>Medication Cost per encounter vs. PY</li> </ul>	<ul style="list-style-type: none"> <li>Tableau – ICCE – MUSC Health Medication Cost – MUSC Health Medication Costs – Inpatient Medication Costs; Filter ICCE</li> </ul>

# LEAP Goal Process

## Rolling Monthly Performance

Quality Executive Committee Monitoring- Quality Performance



# Capabilities Grid

**CAPABILITIES GRID**

← Lower Degree of Risk and Integration Required → Higher

Organizational Capabilities	Focus Area	Fee for Service	Pay for Performance	Penalties for Adverse/ Preventable Events	Episodic Bundling	Disease/Chronic Care Management	Total Health Management
People & Culture	Cultural Emphasis	Establishing Learning Organization	Leading with Quality			Managing Long-Term Conditions	Engaging the Community
	Management and Governance	Informal Physician Leadership	Formal Acute-Care Physician Leadership		Communities of Practice		
	Operating Model	Department Structure		Episode-Focused Service Lines	Cross-Continuum Product Lines	Community Collaboratives	
	Performance and Compensation	Productivity-Based		Outcomes Based			
Business Intelligence	Financial Reporting and Costing	Procedure-Level		Activity-Level	Longitudinal	PMPM	
	Quality Reporting	Core Measures	Process Measures	Outcome Measures		Condition Measures	Population Indicators
	Business Case	Supply/Drug and Productivity		Medical/Surgical Interventions		Lifestyle Interventions	
	Decisions Support Systems	Financial Data	Acute Quality Data	Ambulatory Indicators	Claims and Prescription Info	Health Risk Assessment, Biometrics, and Predictive Modeling	
Performance Improvement	Process Engineering	Identifying Service Variability	Increasing Reliability within Clinical Value Bundles		Optimizing Care Pathways Across the Continuum		
	Evidence-Based Medicine	Increasing Patient Safety	Developing Clinical Value Bundles			Managing Conditions	Improving Wellness
	Stakeholder Engagement	Creating Transparency		Informing Patient Alternatives		Developing Accountability	
Contract and Risk Management	Contract Management	Negotiating Pricing	Balancing Cost and Quality Aims		Network Development Funds Distribution		
	Risk Modeling and Management	Profit/Loss Analysis	Estimating Exposure			Predicting Outcomes	

■ Low Degree   
 ■ Medium Degree   
 ■ High Degree

