

### Setting the Scene

#### MedQuest Associates, Inc.

- Multicenter, multistate outpatient imaging company
- Includes:
  - Independent diagnostic testing facilities
- Hospital outpatient departments (HOPD)
- Quality and safety scorecard developed

•	Part of overall company scorecard		
	Financial	Patient	Quality and
	Vitality	Satisfaction	Safety

Company held accountable to the scorecard

Patient-Provider Encounter

# Analysis

- Time period: 2010-2015
- Five states in the company during the entire time
- Alabama, Florida, South Carolina, North Carolina, Virginia
- 35-44 centers each year
- MR scanner(s): all centers
- CT scanners: 28-36 centers each year
- Results run chart key:
- MQ = company performance
- High = highest of all center metrics
- Low = lowest of all center metrics
- Benchmark = metric benchmark

# Crafting the Scorecard

#### Mapped the imaging workflow

 Identified key quality or safety points that address processes and outcomes

#### Developed metrics to measure those points Used variables that were:

- - Already available or easily developed
  - Measurable by computerized data inquiry
  - Able to be audited
- Preferred publicly reported metrics
- Set benchmarks for pass/fail score of metric
  - Some adjustment annually based on national averages or higher expectations

## Developed the quality and safety scorecard

- A blend of multiple metrics
  - 7 metrics in 2010
- 4 added in 2015 (followed them in 2014)
- Set scorecard scores
  - Threshold: the number of metrics expected to be achieved 90% of the time (e.g. 7/11)
  - Target: the number of metrics expected to be achieved 50% of the time (e.g. 9/11)
  - Maximum: the number of metrics expected to be achieved 10% of the time (e.g. 10/11)
- Programs that were separate from the quality and safety scorecard:
  - Patient satisfaction
  - Physician peer review
  - Technologist evaluation

# Quality and Safety Scorecard for Outpatient Imaging: Development, Implementation, Results

Sophia Brothers Peterman, MD, MPH

Crash Cart Inventory

Contrast Reaction Drills

in outpatient imaging

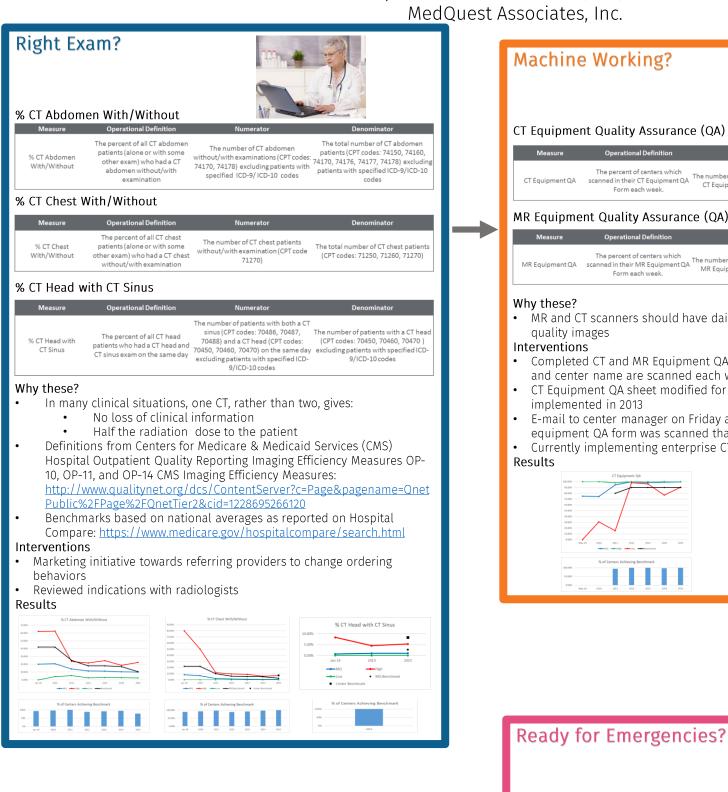
familiar with them

scanned that week

name are scanned each week

Why these?

MedQuest Associates, Inc.



**Exam Report Timely?** 

24-Hour Report Turnaround Time

Interventions

Results

statuses such as waiting for prior

Exam to dictation (< 8 hours)</li>

Benchmarks for intervals were set and are reported:

Dictation to transcription (< 6 hours)</li>

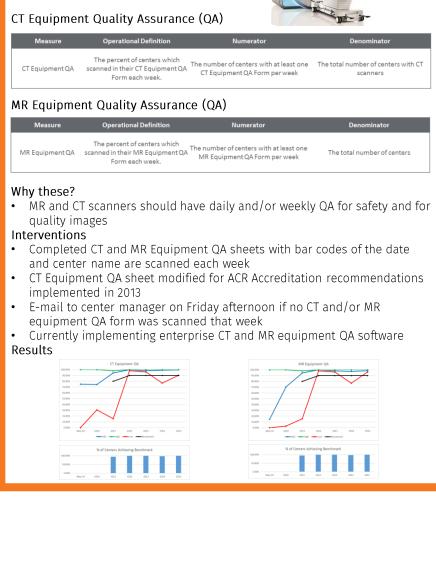
Transcription to signature (< 4 hours)</li>

Monthly metric by center and by radiologist is distributed

No meaningful change in dictation/transcription software

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• Delivery of a timely report on a consistent basis is important for patient



The percent of centers which The number of centers with at least one The total number of centers

reaction drills no closer than 90
least 90 days apart, in the calendar year

Serious contrast reactions and other serious medical conditions are rare

Calling 911 is the back-up for emergency treatment in an freestanding

On-site medications should be current and technologists should be

A drill helps team members rehearse and prepare for rare but serious

Completed Crash Cart Inventory with bar codes of the date and center

Completion of the crash cart inventory is rotated throughout the center

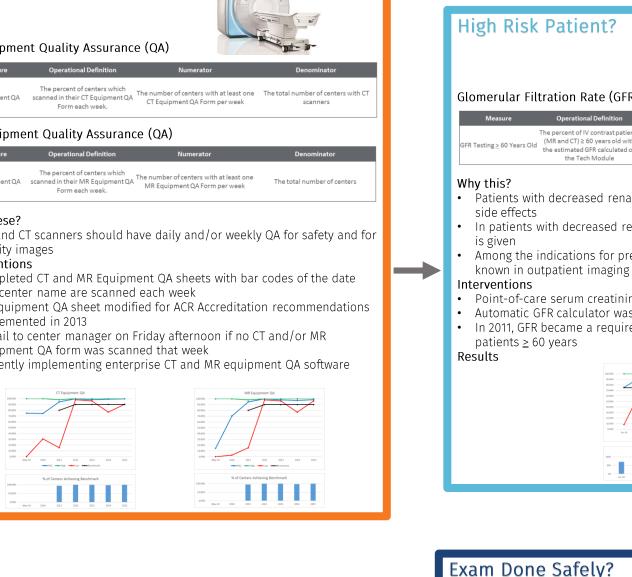
E-mail to center manager on Friday afternoon if Crash Cart Inventory was

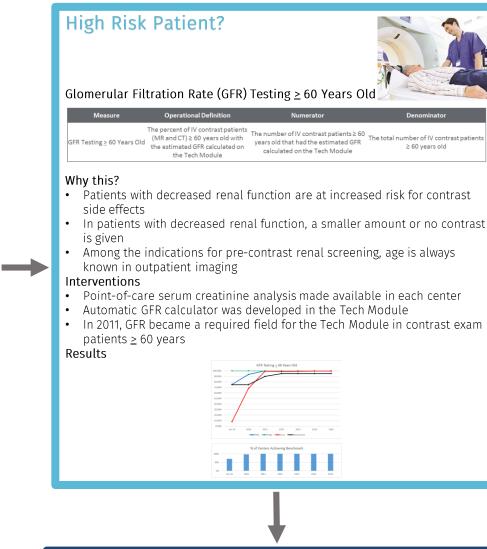
Completed Contrast Reaction Drill Attendance List with bar code of the

Reminders are sent encouraging the first contrast reaction drill before

date and center name is scanned after completion

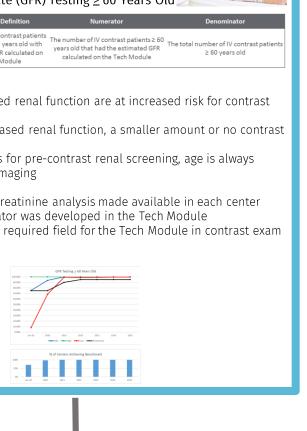
July and the second before December

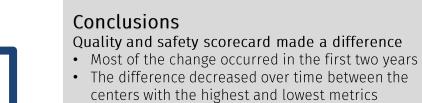




CT Head CT Dose ≤ 75 mGy







In addition to those for specific metrics

of not meeting the benchmark

Leadership backing and attention

Ability to view scanned forms

Monthly e-mail of monthly and year-to-date metrics

• Ability to guery lists of patient exams or instances

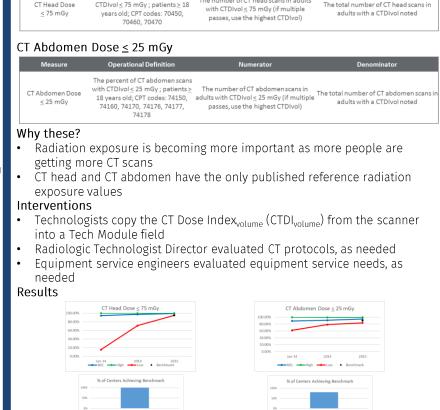
Ability to identify which scanned forms are missing

to the center managers and leadership team

Moving the Needle

General interventions

#### The change has been sustained Focus on the CMS Hospital Imaging Efficiency measures impacted the ordering behavior of the referral community





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