


# Compliance with TJC Guidelines on CT Clinical Practice

AAPM 8/1/2017




# Objectives:

- Review of imaging standards
- Illustrate CT requirements for diagnostic imaging services RFIs scored 7/1/2015-3/1/2017
- Provide examples of specific items scored in diagnostic imaging



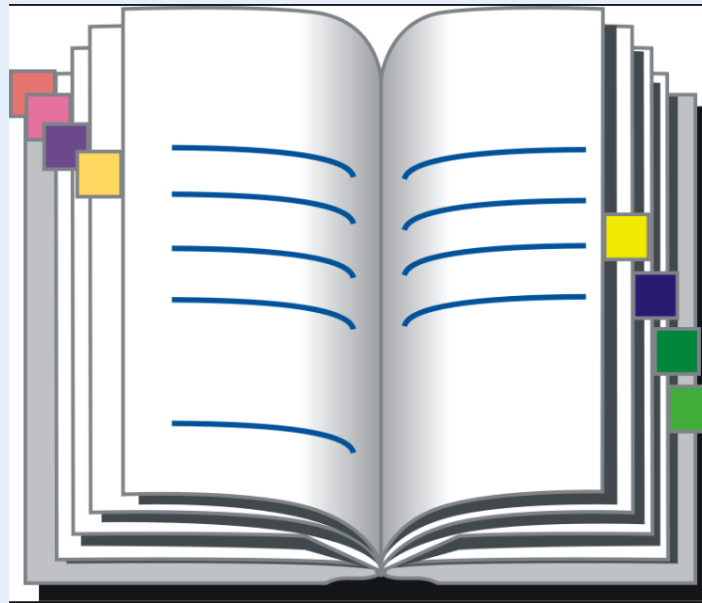
New standards went into effect ***July 1, 2015*** They address:

- Equipment performance evaluations
- MRI safety
- CT Protocol establishment/ review
- Technologist education
- CT radiation dose documentation



**Standards:** Statements define performance expectations/ structures/ processes to provide safe, quality care, treatment or services

**Elements of Performance (EP):** Statements detail specific performance expectations/ structures/ processes. EPs are scored and determine an organization's overall compliance with a requirement.



Deficiencies are scored at the EP level



## **Individual Patient Tracer:**

- ▶ CT protocol selection and review
- ▶ Observe for verifications-correct pt, site, position?
- ▶ Equipment quality control checks –documented?
- ▶ Patient age & prior imaging exams considered?

## **Data Management Session:**

- ▶ Data collection –MRI incidents, CTDIs exceeded

## **Competency Assessment Session:**

- ▶ Medical Physicist qualifications
- ▶ Technologist annual & ongoing education



*2017 January Meeting  
Environment of Care  
Radiology Survey Tips*

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Life Safety Code Specialist Field Surveyor  
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## How do I survey CT?

- Verification of orders for CT exam
- Contrast administration screening
- CT protocols: age and weight based, pediatric brain and abdomen protocols for each CT scanner; CTDI recorded
- Contrast administration; power injector
- Documentation in medical record / report of contrast administration

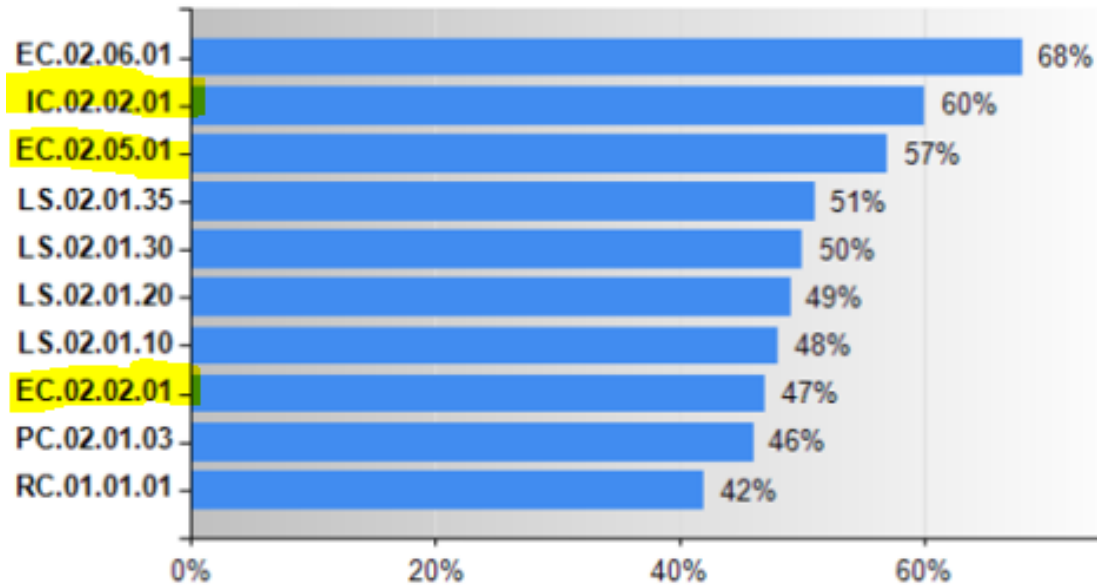
# Assessment of compliance during the onsite survey



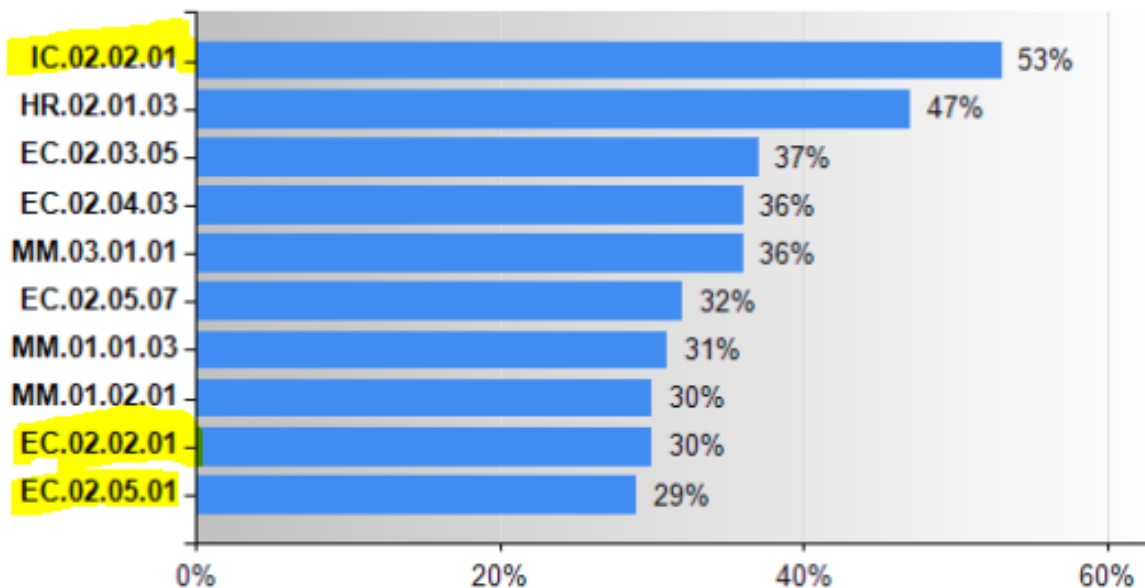
Process: Staff interview, Surveyor observation

What are surveyors scoring?

Top 10 Standards Scored for HAP  
Full Year of 2016



Top 10 Standards Scored for AHC  
Full Year of 2016

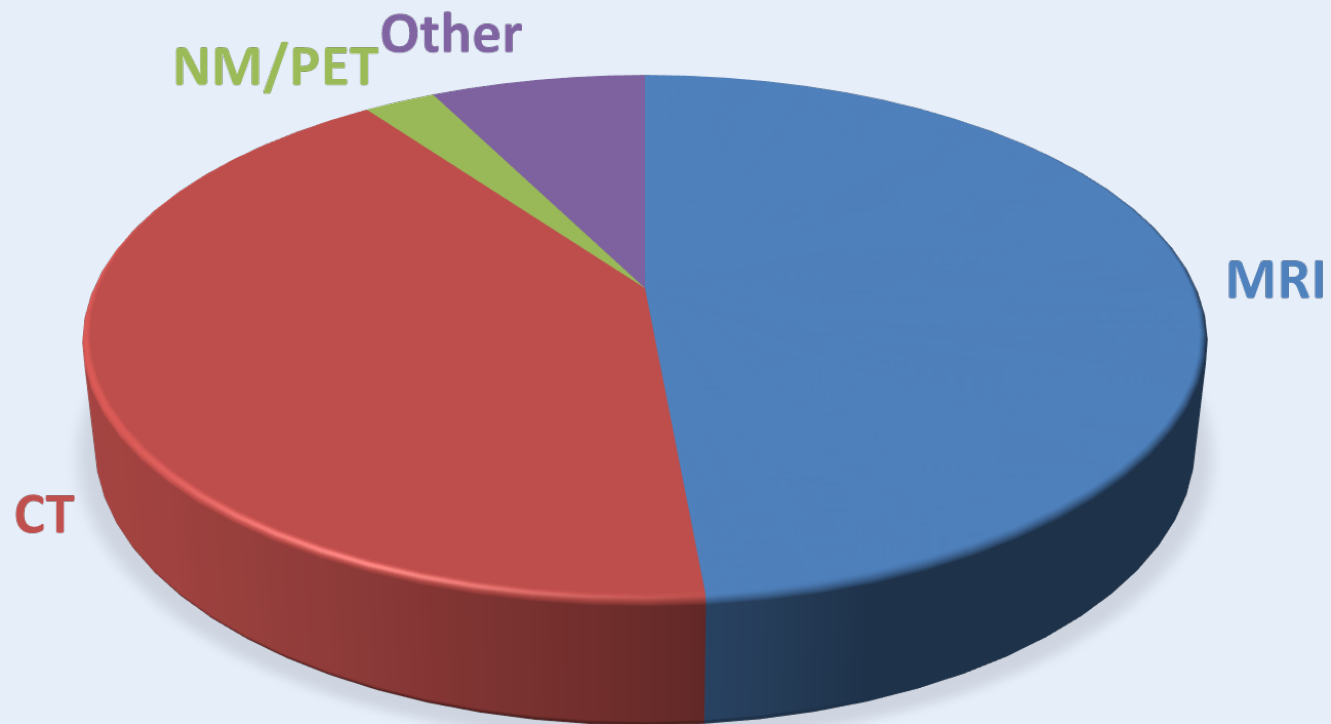


**IC.02.02.01** reduces risk of infections associated w/ medical equipment, devices and supplies

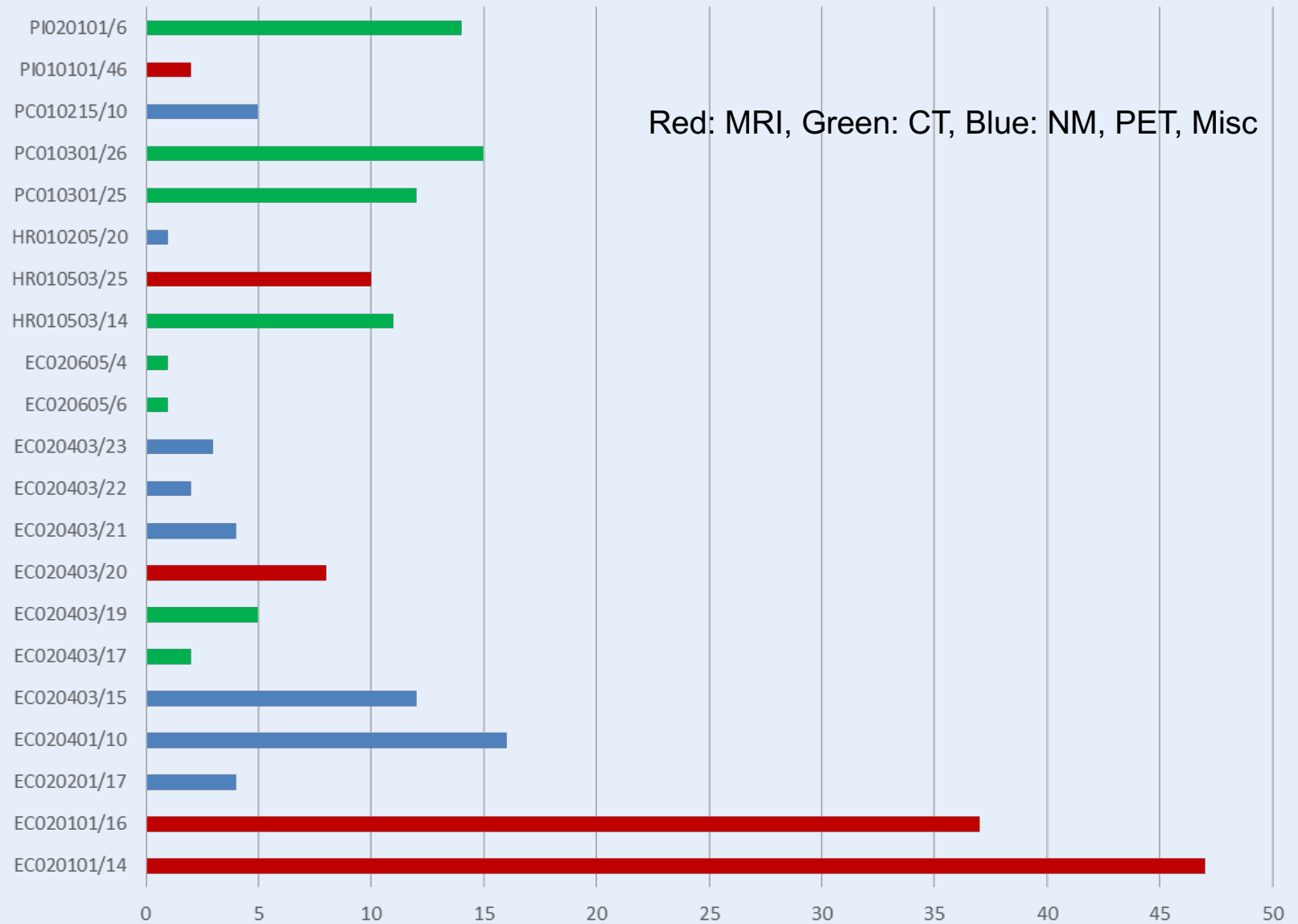
**EC.02.05.01** manages risks associated w/ utility systems

**EC.02.02.01** manages risks related to Hazardous materials and waste

## RFIS SCORED TOTAL

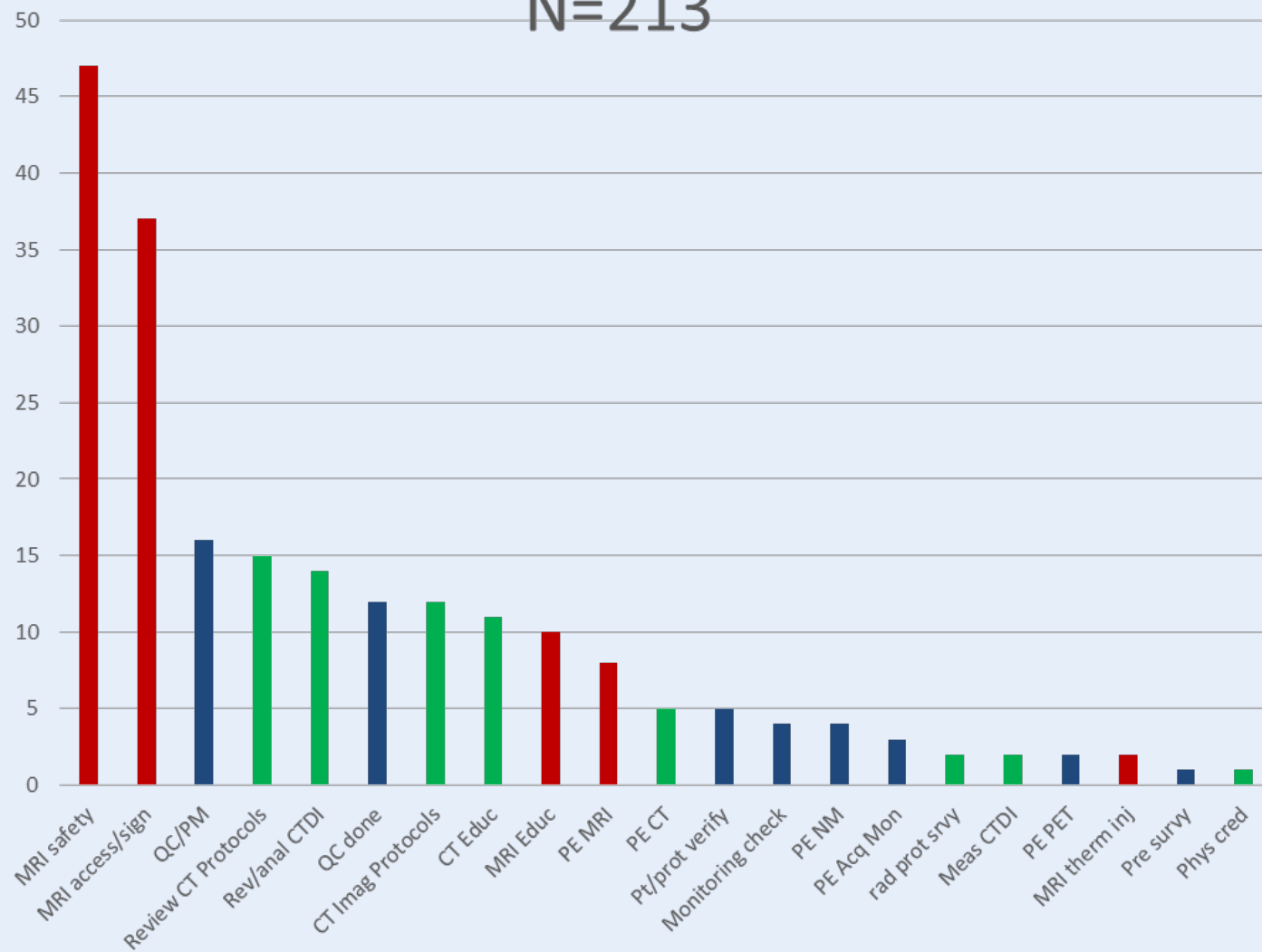


## Total RFIs 7/1/15-3/1/17

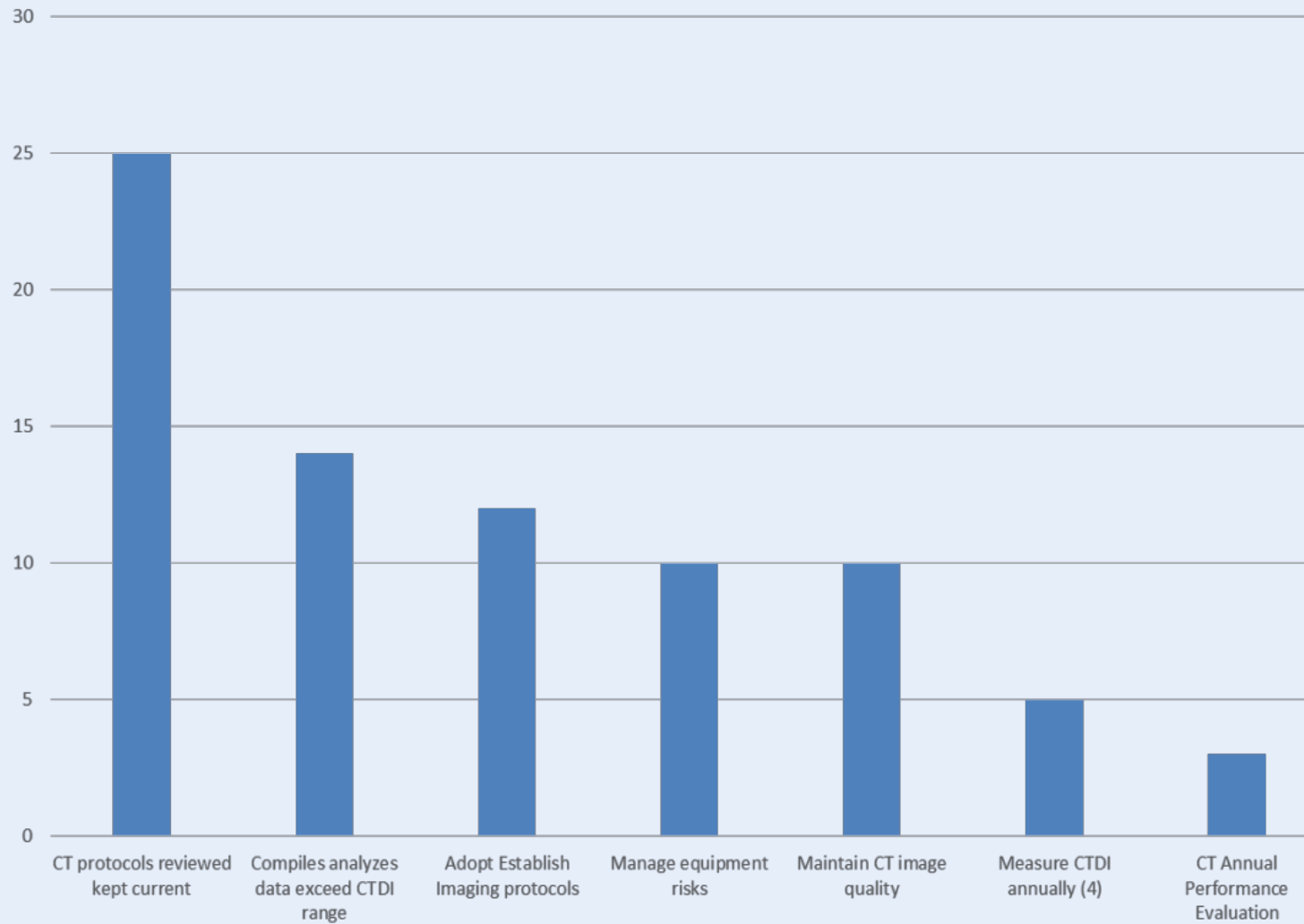



# Total RFIs Scored 7/1/15-3/1/17

## N=213



RFI Dose Related Standards  
7/1/15-3/1/17





# PC.01.03.01 EPs 25 & 26 Establishing/ reviewing imaging protocols

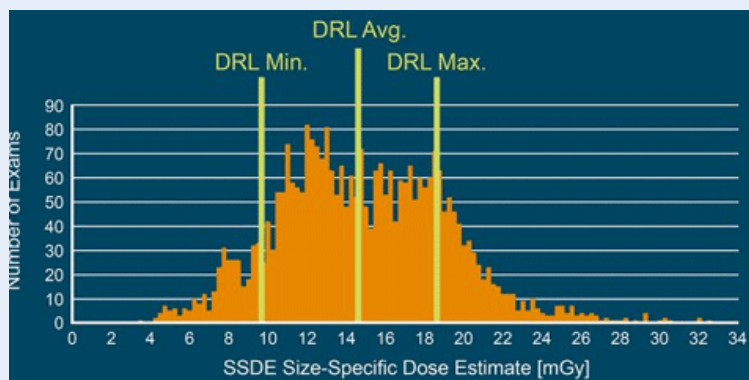
## Themes:

- No kV, mA in protocol; std of care vary kV, mA
- Contrast use/amount not in policy/protocols
- Random adjustment/modification CT protocols; no documentation
- No evidence established CT protocols
- Not all required elements in protocols
- No time frame for review; no evidence physicist, imaging MD, technologist included in review

## PI.02.01.01 EP 6 Review & analyze incidents where radiation dose index exceeded expected range identified in imaging protocols. Compare to external benchmark

### Themes: Surveyor Comments

- No data collection process
- Review of patient records: 2 of 3 exceeded range in protocol



EXAMPLE CT DOSE LOG

Date:	Patient Name:	Tech(s):	Pre CT DIvol:	Exam Type:	CT Number:	Post CT DIvol:	Reviewer:
Time:		Assist. Tech:					
Time:		Assist. Tech:					
Time:		Assist. Tech:					
Time:		Assist. Tech:					
Time:		Assist. Tech:					
Time:		Assist. Tech:					
Time:		Assist. Tech:					

This form is meant to be a starting place for facilities to log CT exams.  
It is an example of the basic information that facilities should consider capturing.  
A handwritten log allows easy documentation to ensure technologists are capturing  
information on each scan and will help facilitate review by the dose management committee.


Work Product of the  
H-32 Task Force for Computed Tomography  
Conference of Radiation Control Program Directors, Inc. (CRCPD)  
1030 Burlington Lane, Suite 4B  
Frankfort, KY 40601



## **EC.02.04.01 EP 10 – Manages medical equipment; IDs quality control & maintenance activities; identifies frequencies**

### **Themes:**

- QC being performed but no policy
- No frequency identified
- No manuals; unaware of manufacturer's recommendations
- No record of actions when QC failed



## **EC.02.04.03 EP 15 (17) – Inspects, tests maintains medical equipment; maintains quality of CT, MRI, PET, NM images produced**

### **Themes:**

- ▶ CT QC plan not being done per policy
- ▶ MRI performance evaluation > 12 months
- ▶ Not following manufacturer's recommendations
- ▶ Annual PE failures not corrected for 5 months



### **EP 17 (19) Measures CTDIvol for four protocols**

- ▶ Four CT protocols not evaluated

# PC.01.02.15 Provides for diagnostic testing

## EP 10 Verification: correct patient, site, position, CT imaging protocol, scanner parameters

### Themes:


- Observed study did not match protocol for imaging or contrast; incorrect scanner specified in CT protocols
- No verification process
- CT technologist unaware of imaging protocols



# EC.02.06.05 EPs 4, 6 Manage environment during demolition, renovation, new construction

## Themes:

- New CT installed; shielding not evaluated before use
- EP 6 \*This survey is conducted prior to clinical use of the room.



How are EPs scored being reported  
to organization?

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# **Survey Analysis For Evaluating Risk SAFER Matrix**

6/1/2016 Deemed Psychiatric Hospitals  
(tailored and non-tailored)



1/1/2017 All other programs



## The SAFER Matrix: A New Scoring Methodology

Project REFRESH (*see* related articles on pages 3 and 5), the Joint Commission's multiphase process improvement project, includes a transformative approach for

### Contents

- 1  The SAFER Matrix: A New Scoring Methodology
- 2 In Sight
- 3  Project REFRESH and Improving the Survey Experience

## The Joint Commission's Survey Analysis for Evaluating Risk (SAFER) Matrix™

Likelihood to Harm a Patient/Staff/Visitor

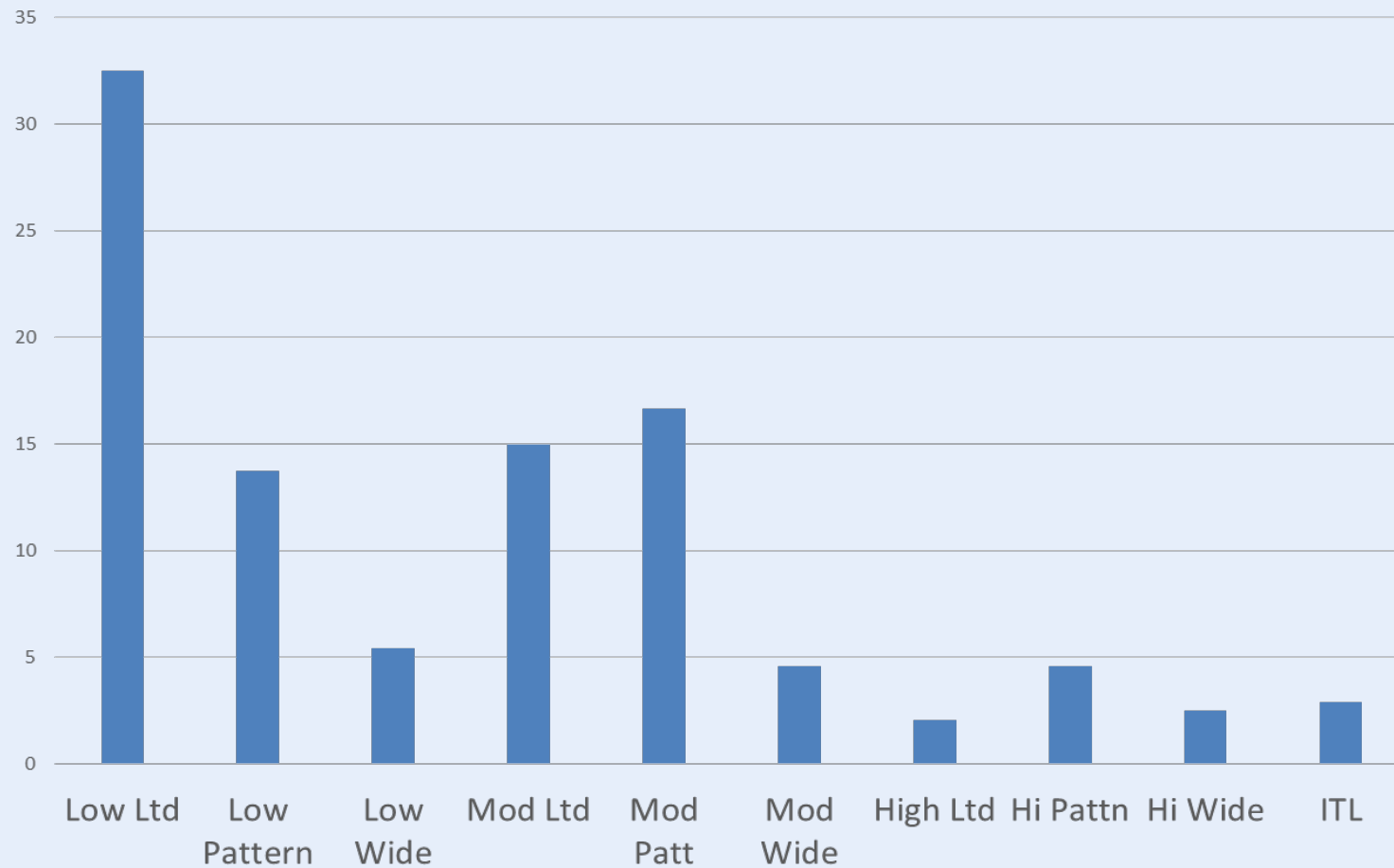
HIGH

MODERATE

LOW

<i>Immediate Threat to Life</i>		
LIMITED	PATTERN	WIDESPREAD
Scope		

## EC.02.04.03 Inspects, tests, maintains medical equipment





# So...What's next?





## **Areas to be explored include:**

- Fluoroscopy – Research/ Focus Groups/ Gap Analysis
- Radiology Assistant qualifications
- MRI scientist qualifications
- Cone Beam CT – on hold



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*Email:*  
*[abrowne@jointcommission.org](mailto:abrowne@jointcommission.org)*

# Resource: Everyone



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Top Links: Pioneers in Quality | High Reliability | Joint Commission Online | Quality Check

Friday 12:03 CST, March 31, 2017

**Field Reviews Open for Public Comment thru May 1, 2017** Monday March 20, 2017

Proposed Requirements of the National Patient Safety Goal Related to Suicide for the Hospital, Critical Access Hospital and Behavioral Health Care accreditation programs. [Learn More](#)

**Action Center**

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- Problem with Login
- Find an Accredited or Certified Organization
- Ask a Standards Question
- Report a Patient Safety Event
- Sign up for News and Alerts
- How to become Accredited/Certified
- Request a Speaker
- Visit the Center for Transforming Healthcare

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Viewed | Searched

- National Patient Safety Goals
- Sentinel Event
- Hospital: 2017 National Patient Safety Goals

**Joint Commission Center for Transforming Healthcare**  
[Visit the Website](#)  
Creating Solutions for High Reliability Healthcare

Here to help you navigate the challenges of healthcare quality & safety  
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**The Joint Commission Quality Check**  
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# Resource: Everyone



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