Preparing For A DICOE Site Visit

Douglas Pfeiffer, MS, FACR, FAAPM Boulder Community Health

What is DICOE?

- Diagnostic Imaging Center of Excellence
- Comprehensive assessment of entire imaging enterprise
- Designed for facilities that wish to go beyond the minimum standard of accreditation
 - Accreditation sets a minimum standard of technology and performance
- Goal is not to raise the minimum standard for accreditation, but to give facilities goals for a higher level of achievement

Why DICOE?

- Some facilities go above and beyond the minimum standards and the ACR wants to recognize these facilities
- Demonstrates a facility's commitment to excellence to referring providers, patients, administrators and payers
- 3rd party payers have demonstrated interest in this type of program
- Bragging rights (good for advertisement)

Why DICOE?

- From ACR website:
 - Comprehensive assessment of the medical imaging facility, including structure and outcomes
 - Participation in ACR registries at no cost
 - Ongoing process for self-assessment
 - Recognition that distinguishes your facility to providers, payers, patients and administrators
 - Three-year status
 - Customizable materials for local public relations and marketing

Why DICOE?

- Working toward DICOE designation strengthens relationships within your entity
- Designated facilities can show their patients that they have a superior practice
- Gives patients confidence that this is where they want to have their imaging studies performed
- Gives referring physicians confidence that this is where they want to send patients

Why DICOE?

- Recipients believe referring physicians and payers will seek facilities that are acknowledged as top performers
- For payers and evolving federal government standards, demonstrating quality is becoming more important and will continue to be a major competitive factor in health care reform
- Economic environment is changing from volume model to value model.

•			
,			
,			
,			
·			
•			
,			
,			
,			
,			
<u> </u>			
·			
,			
,			

Who Can Apply?

- Inpatient facilities
- Outpatient facilities
- Accredited by ACR in all modalities they provide
 - State accreditation in mammography is acceptable
 - Do not have to provide all modalities



Who Can Apply?

- An entity can be one facility or multiple facilities
- Multiple facilities must have same radiology group and same management team
- Site visit will see the main facility and possibly one of the off-site facilities



Sites With DICOE Status



As of February 28, 2015 there are 28 DICOE entities with 70 facilities

Requirements

- · Accredited by ACR in all modalities they provide
- Participation in GRID (General Radiology Improvement Database)
- Participation in DIR (Dose Index Registry)
 - Applicable only to CT facilities
- Agree to an on-site survey from the ACR

Site Visit

- Team consists of
 - Radiologist
 - Medical Physicist
 - ACR Staff (technologist)
- One day visit
- Date arranged in collaboration with the facility
- · Will tour the main facility and possible on off-site facility

Site Visit

- The facility decides who should be present for the site
 - Brownie points for demonstrating commitment
- A nominal agenda is provided
- Much is covered in conversation
- Presentations of high points are welcome
- The tour provides opportunities for
 The facility to point out important features

 - The site visit team to ask questions
 - Suggesting recommendations for improvement based on observations from other facilities

Site Visit

- Each surveyor has designated elements of the DICOE program to cover
- Conversations take place
- During the tour
- Round-table discussions
- One-on-one
- Electronic versions of policies and procedures are fine - no need to print hard copy

Areas Assessed

- Governance
- Personnel
- Facility organization and Infection Control management
- Physical environment
- Equipment
- Radiation and general safety
- Quality Management

- Patient Rights
- Medical Records
- Communication
- Utilization and appropriateness of services
- Emergency services

Governance

- Department/facility organization chart
- Who approves policy and procedures
- How policies/procedures are communicated to department and other entities
- Patient safety and quality of care
- How problems within the department are addressed

Personnel

- Supervising physician
- Must have knowledge of imaging that you offer your patients
- Must be engaged in clinical practice
- In large facilities, the Chair of large might not have clinical duties, but will have supervising physician for different specialties
- Staff (e.g. medical physicist, technologists, nurses) have knowledge about imaging and patient care

Personnel (cont'd)

- Technologists have state license (if exists) and be certified by ARRT, ARDMS, NMTCB, ARMRIT or
- Other clinical staff must be state licensed when available
- Medical physicist credentialing must meet accreditation standards
- Adequately trained staff for all hours of operation

Organization and Management

- Responsibilities and reporting lines
- This can be put in the organizational chart
- Hours of service
 - If facility provides urgent or emergency service, Imaging service hours appropriate
- 1 ACLS-certified person available when open
- If interventional procedures performed, procedure in place to admit a patient if with complications

_			
-			
-			
-			
-			
-			
-			
-			
-			
_			
_			
_			
_			
_			
-			
-			
-			
-			
-			
_			

Physical Environment

- If applicable, are there separate areas for inpatients and outpatients
 - Not mandatory
 - How emergencies and stats are handled
- Patient privacy
- Cleanliness
- · Easy access for patients and staff

Equipment

- All units/modalities accredited
- Routine QC and corrective action program
- Adequate time available for QC functions
- Interpretation workstations should be in compliance with the ACR-AAPM-SIIM Technical Standards for Electronic Practice of Medical

Radiation and General Safety

- RSO identification and responsibilities
- Radiation safety committee that meets regularly
- If multiple facilities all facilities represented
 RSO must be active member of committee
- Radiation and MRI hazard signs posted
 - Will look for the MRI zones
 - Picky about MRI zone III and IV
 - Must be in compliance with ACR MRI Safety White Paper
 Patient screening
- Screening of patients to see if they have had previous related exams

_			
-			
-			
-			
_			
_			
_			
-			
_			
_			
-			
-			
-			
-			
-			
-			
-			
-			
_			

Radiation and General Safety (cont'd)

- Contrast administration policies and procedures
 - Screen all contrast patients
 - Is Iso/LO contrast media used
 - Physician on-site during contrast injection
 - · Protocols in case of contrast reaction
- Emergency preparedness policies and procedures
- Crash carts
- Emergency response (ED, 911, etc.)
- Optimization of imaging protocols
 - Meet regularly
 - Protocol modification controlled
- Medical physicist included

Quality Management System

- How are quality and performance measured, analyzed and improved
 - Projects or activities
 - Responsibility for and oversight of the program
 - Methods for assessment
 - Data analysis, follow-up, or corrective action, as
- Measuring performance allows practice to see where there are outliers and take action to improve quality of care

Quality Management System (cont'd)

- Quality Manual
 Outlines methodology, practices, and policies for addressing how quality management is conducted
 Statement of quality policy

 - Measurable quality objectives
 Goal measurement and prioritization of activities
 - Reviewed at least annually
- Projects can include peer review, PQI or MOC
- Participation of technologists
- Part of patient surveyAble to freely make suggestions
- GRID and DIR participation
- Can participate in either level of GRID

Quality Management System (cont'd)

- Performance measurements must include

 Threats to patient safety
 Medication use
 Procedures: wrong site, wrong patient, wrong procedure
 Effectiveness of pain management system for interventional procedures including all biopsies.
 Sedation

- Sedation
 Infection control system
 Patient flow issues, excess wait time
 Customer satisfaction (clinical and administrative areas).
 Satisfaction surveys should be developed both for patients and referring providers
 Discrepant radiology reports
 The ACR Practice Guideline for Communication of Diagnostic Imaging Findings recommends expedited reporting of non-routine communications such as discrepant preliminary and final interpretations.
 Deaths, non-sertifule event, sentinel event, near-miss
 Other adverse events
 Medical record delinquency

Patient Safety System

- Should include medical errors and adverse patient events
- Clear expectations for patient safety
- Identify, implement and assess ways to prevent incidents (maybe perform a study)

Patient Rights

- Patient confidentiality
 - Agreement for staff that access to data
 - Release data internally on a "need to know" basis
- Compliance program (HIPAA and HITECH)
 - Educate staff
 - Define compliance issues
 - Corrective action for breach of confidentiality

۱			
	۰	•	

Patient Rights (cont'd)

- Waiting rooms, changing rooms, exam rooms etc.
- Patient complaint process
 - Protocol for addressing patient complaints
 - Notices posted telling patient how to make a complaint

Informed Consent

- Identify high-risk procedures
 - List?
- Consent forms
- Explain risks, benefits, and alternatives for
 - High-risk procedures
 - Sedation
 - · Participation in research projects

Medical Records

- Maintenance, storage, and handling of patient records
 Safe from flood, fire, etc.
 Secure access
 Timely retrieval of records
 Process for transferring records
- Confidentiality of medical records

 - Inform patients how to obtain their records
- Radiology report contained in medical records

 - Interpreting physician
 Who has authority to sign report
 Interpreting whenever possible
 Secure electronic signatures

Infection Control

- · Prevention, control, and surveillance
- Clean rooms, equipment and devices
 - Routine cleaning
 - Approved cleaning/disinfection materials
- Collection and analysis of infection data

Communication

- Receiving orders for imaging studies
- Patient report turn around times
- Preliminary and critical findings
 - List of critical findings
 - Discrepancies

Utilization Review & Appropriateness of Services

- Image Gently and Image Wisely
- Determination of whether patient had relevant study performed recently
- Assistance for referring physicians when they order exams
 - Appropriateness Criteria
 - Clinical Decision Support
- Reduce unwarranted, inappropriate procedures
- Training for staff
- Can staff question unwarranted exams

Emergency Services

- Applies to facilities that provide emergency services
- Radiology staffing for ED imaging services
- Monitoring of unstable patients in Imaging
- Images and reports done in ER
 - Critical findings
- Discordance

So, How Do We Prepare?

- Designate 1-2 people to spearhead
- Make a checklist of the requirements
- Meet regularly
- Go through each point in the checklist
 You will have many completed already
 Be honest in your self-assessment

- Bring in others as needed
 - This really does have to be a team effort
 Radiologist
 - Transcription/records
 - NursingLead tech in each area

 - Administration

Documentation

- Have complete policies and procedures
- Make sure that you have a policy written covering each
- item, as appropriate

 Have documentation demonstrating that you follow your
- Document your Quality Management program
- What projects are you working on?
- What measurements are you making?
- What do you do with the data?
- Electronic is fine
 - You do not need to print everything.

Policies and Procedures

- Must be reviewed regularly
 Is a system in place to ensure that they are all reviewed?
- Who approves changes
- Complete
 - Make sure that they cover everything that should be covered
 - Departments do a lot of things, but never document the practice
- Don't put into policy things that you don't want to be held to
- Make policies general

Physics

- · Remember that this is "above and beyond"
- Facilities with DICOE are demonstrating that they exceed minimum standards underlying principle
- Physics reports should reflect this dedication
- Make sure that reports are consistent
 - Have seen multiple physicists providing substantially different reports hard to follow
- Make sure that reports are complete
 - Is testing complete, all the boxes filled in?
 Does everything pass or are there deficiencies?

 - Have deficiencies been identified in a summary?

Physics

- Follow up
 - Has the facility read the report?
 - At least the summary...
- Have deficiencies been addressed?
 - Is a procedure in place?
 - Who is notified?
 - Who is responsible for repairs?
 - Is retesting done when needed?
 - How are non-repair issues handled?

-			
-			
_			
_			
-			
_			
-			
-			
_			
_			
_			
_			
-			
-			

Physics

- Cover more than just the regulations
 - Protocols
 - Image quality
 - Radiographic
 - Fluoroscopic
 - Dose issues
 - Pulsed vs. continuous fluoroscopy
 - Low dose rate fluoro when clinically feasible
 - Consistency between systems
 - AEC performance
 - Radiographic
 - Fluoro AERC
 - Typical entrance exposure rates
 CT dose modulation

Physics

- These are not "requirements", per se
 - Facility will not fail if CT dose modulation isn't evaluated, for example
 - Minimalist physics might lead to a comment to "beef up your physics game"
- Remember, even the accreditation manuals are starting points
 - May not address advanced features or new capabilities

So, What Happens?

- ACR staff organizes visit with facility and radiologist, physicist
- ACR team arrives on site
- Introductions
- Usually tour first
- Meet in conference room for open table discussion
- Team members individually review documents and talk to facility members
- After ACR team finishes its work, they meet together to discuss results
- Close-out meeting with facility team

 Discuss any areas for improvement identified

 Announce whether DICOE status is granted at the time or not

_		
-		

DICOE Awarded!

- YAY!
- Facility may announce status
- ACR will provide press release text and marketing materials



DICOE Not Awarded

- Not yet...
- Facility is provided with a list of improvements to be made
- Documentation and follow-up may be faxed/e-mailed to ACR
- If accreditation is still required for a modality, site visit can occur during accreditation process, but DICOE designation will be delayed until accreditation complete
- Once the required improvements have been made, DICOE status will be granted
 No second site visit is generally required



Cost

- \$2500
- Surveyor expenses
- Get free participation in ACR registries



Re-Certification

- Three year certification
- After three years, another site visit will be required
- Facilities should maintain the same standards of excellence (or better) during the period.



Conclusion

- DICOE provides an opportunity for facilities to evaluate themselves and improve practices
- Facilities can then demonstrate the superior quality of their work
- Achieving DICOE is challenging
- Physicists can play an important role, both in physics support and in the critical evaluation of the facility

Many Thanks...

• To Marion Boston (ACR) for her help with this talk



I don't know why... I picture of Elvis just seemed important.

