

MOC: Practice Quality Improvement

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Trustee, American Board of Radiology

Much of the content presented is adapted from other individuals' efforts, including ABR Trustees, ABR Staff, and ABR volunteers



American Board of Radiology Mission

"To serve patients, the public, and the medical profession. . ." $\,$

"By certifying that its diplomates have acquired, demonstrated, and *maintained* a requisite standard of knowledge, skill, and understanding..."



Why MOC?

- Demonstrates commitment to lifelong learning and self-assessment
- Allows the diplomate to self-direct own continuing education
- Results in continuous quality improvement
- Provides a mechanism to reach goals related to patient quality and safety



Continuous Certification Summary

Element	Compliance Requirement	
Licensure	At least one valid license <i>or</i> professional standing attestation in previous 5 years	
CE	At least 50 Category 1 CE in previous 3 years, and	
Self-Assessment CE	At least 25 Self-Assessment CE in previous 3 years	
Exam	Passed MOC exam in previous 10 years	
PQI	Completed at least 1 PQI project in previous 3 years	
Fees Current with MOC fees at any time during the past 3 years		



Practice Quality Improvement

A framework to facilitate improvement of medical care and/or its delivery as an individual, a group, or an institution

Quality and safety in medical care have become important national priorities

PQI part of MOC permits medical physicists to demonstrate both their commitment to quality and safety as well as their compliance with associated external requirements



PDSA Cycle: intrinsic to PQI

PLAN: Identify an area in need of improvement and devise a measure to assess it. Develop a plan to implement the measure and obtain data. Set goal for the measure to be reached.

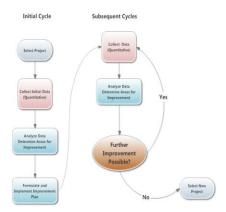
DO: Set your plan in motion and collect data.

STUDY: Determine how the measure compares to the goal. Explore root causes for lacking goal achievement.

ACT: Consider what can be done to address the root causes and develop an improvement plan to implement during the next PDSA cycle.









PQI Project requirements

PQI projects must:

- · Be practice-relevant
- Include focus on patients care & safety
- Use QI principles: Plan-Do-Study-Act
- Generate an improvement plan
- Implement the plan
- Measure the effectiveness over time
- Subsequently re-measure and re-assess

Opportunity for integrated, practical physics



PQI project initiatives

ABR recognizes that there are many types of QI programs and *encourages development of* creative and novel PQI initiatives

General categories of QI initiatives:

- Independent projects generated by individuals or groups
- Society-based projects or templates generated and managed by professional societies or other organizations

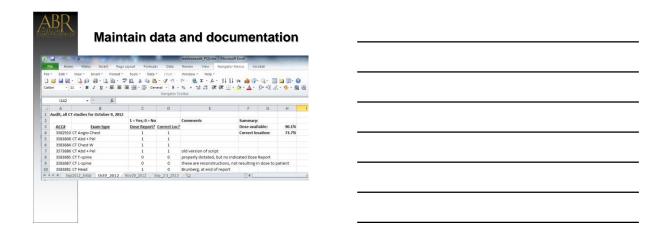
ABR	ndependent PQI Projects	
Generated by p	ractice <i>individuals or groups</i>	
Do not require s	submission of the plan to the ABR iew	
by the individua	artmental QI programs, adapted al to include their personal I improvement/action plan	
ABR	ndependent PQI Projects	
May be based o	n an ABR-endorsed, society- ate, which fulfills the essential	
 Templates are a and ABR websit 	vailable through the societies' es	
ABR	Collaborative PQI	
Many high-qual between med	ity PQI projects are collaborations ical physicists and physicians	
Both must conti	ribute to the process	
Medical physicis	sts bring special skills to the patient	
• familiarity wi • ability to app	th designing quantitative projects ly statistical techniques to data analysis of statistical quality control processes	
Results can be in the competer	nstitutionally useful in relating to icy of Systems-Based Practice	

ABR	Group PQI Projects	
	Well-suited to address systems-based problems	-
	Tremendous potential as a multiplier of MOC's power to advance healthcare quality and safety	
-	More convenient and manageable for administrative purposes	
ARD		
ADIT AMELON SOME STANDS FRANCISCO	Group PQI Projects	
	Must designate project leader	
	Document project title, description, and timeline	
	Participants must attend 3+ meetings for credit	
	Each participant must fulfill <i>meaningful</i> participation requirements during the project	
	and upon completion	
•	Each participant must complete a short paragraph of self-reflection stating the ways in which the project positively impacted practice / patients	
	http://theabr.org/sites/all/themes/abr-media/pdf/ABR-PQI-Guide.pdf	
ΔRD		
SOURCE PRADICTORY	Group PQI Projects	
	Can link directly to departmental/institutional QI programs; Examples:	
	Detailed departmental quality improvement programs related to the ACR standards / peer review	
-	Quality improvement programs related to patient safety, medical documentation, communication	
-	Multidisciplinary quality improvement programs	
	related to patient care and management compared with accepted consensus or evidence-based practice	



Checklist 8	Summary Record	
American Board of Radiology MOC Part & Practice Quality Improvement (PQ) Group Participant POSA (Plan Qu. Study-ACT) Checklet. & Summary Record* Group Participant of POSA (Plan Qu. Study-ACT) Checklet. & Summary Record* MOVID: The special form and the study of the POSA (Plan Quality of the Posa (Pla	Here 2: DO, Bearline Measurement Summer Number of the point windows A., patient wording of Bedelogy majority, was, performed in surveyed from patients 2013/2012/16/costh/2020/2012, and the performed in surveyed from patients 2013/2012/16/costh/2020/2012, and the performed in surveyed from patients of the first persons of a fine mount. A mount of Summer and performance of the first performance of a fine mount. A pro- ceeding the performance of th	
BASELINE PDSA CYCLE (Cycle #1)	correct location, 69.6% of froze store report sections were considered to be properly formatted.	
In Cycle #1, a topic is selected, and baseline duta-pathered to compare with post-improvement law data in Cycle #2.)	Step 8: STUDY. Beseltse Data Analysis (SRICUP MEETING K2) How Skil the bayeline measurement results compare to the predicted	
irosp reembers: Tony Selbert, PhD (Level) Anjeet Destro, MD (nember)	measurement results? The baseline results some above the predicted compliance rate, but well below the desired compliance rate.	-
Step 1: PLAN, Identify and Describe the Project (Group-Designed) [OROUP MEETING H1] September 10, 2012.	 How did the results compare to the desired target goal? The results were soft-use relative to the desired search speed of at least 31% compliance. If baseline results did nor meet the target, the potential corenibuting. 	
 Select a topic [area of interest]. This should address a part of your group's practice that you would like to improve, or an observed gap in service or patient care. Badianno, from tracking, monething and communication, in response to the. 	factors and/or root course: 1. Radicional, complexency an lock of inscendence respecting the state, law for CT owns done reporting.	
California State Law requiring, CTD/not and SAE'be reported and included in the interpretive report of the exam, effective July 1, 2012.	Josephinspriate or no template for receiving the dose data set up in the seeech recognition software	
 Define a measurement to be obtained. Percent of CT radiation dose metric values at UCDMC correctly reported 15° indicators and correctly formatted 12° indicator in the Radiologist, interpretion report through audits of patient CT data and associated diagnostic reports. 	 Door maters deligated or never sens from Radinserius disse, calculation, software. Lectinologies, not closing, the studies, properly after the man has. 	
 Establish a desired measurement target/goal. What ison the group want the measurement to be in order to achieve an appropriate standard of performance. 	completed, which causes a dose report data that "misses" the handbash for transferring information through RLZ remaines. 5. A specific CT scancer does not used dose data to the facilitations.	
and/or patient con? Based upon menting the exence of the California State, law, a compliance of IDSS security the exercised, with some data not being available, for some said response (e.g., inseed dealers with trauera potients and lack of	software (Neurologica portable CT scorner) Proceed to Step 4. If the lassifier most superportably did most or receed the desired goal.	
medical record reambers IMPRs, afficient with data, zero faculty not, understanding requirements for reporting with Estimate the predicted baseline measurement record What does the group think the product of the product of the product of the product than the product think the product of the product of the product of the product than the product than the product than the product than the product of the product than the product than the product that the product than the product that the product the product that the produc	complete Stops 9 and 10 as appropriate. Then return to Step 1 to select a new project and begin a new PDSA process.	
the measurement will be? Intitable, even with anomated information sook to; slace the dose metrics in the interpretion report. It is likely that there will be a last to get up to speed during the initial months of the last's required dose ments.	Step 4: ACT, Improvement Plan Development Discuss and adopt actions to address contributing factors and/or root causes:	
respective. There are several insens that must be accommissed: (1) emissions the proper information commonship throw the Clausere to the Mademiss date, software (2) before the droops calculated in a streety manner (3). Herearth that each madelship in each power incomprise memoring terminals to a with this is mixed. It is likely that an much as 50% of the other neparts initially self and the propert in the report.	 Zies, Birdon and Selbert will created this data to the acologies backly, receives held on collection 12, 2021 Lin Bisson, Frieders with the Sales of E. Jacilearation of the required elements for done resources, including CTD-reli and DLT or a series lay series, below, will be smoth element. 	

Checklist & Summary Record 1. Section 2016 but face. PLAS interface. PLAS int



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	James Anthony Seibert, PhD (P1039) Log Out
Practice Qu	ality Improvement
CT Dose Repor	ting - Radiology, UCDavis
Project Abstract Applied to MOC	Reporting CT Dose metrics in the interpretive report of the patient has been required in California since July 1, 2012. This prospective PDJ project seeks to determine the rate of compliance by the radiology faculty in providing these values initially with no feetback or training with a subsequent audit of CT records in September 20.2 During a faculty meeting on September 20, 2012, we (Jaspet Bindra, MD and Tony Seitember PDD) will discuss the requirements for ensuring that CT dose information and correct formatting are included on the report. We then plan to perform at least three subsequent audits to verify improvements in reporting compliance and formatting accuracy during the next year. Results will be tallied to demonstrate effects of feedback and intervention on the process
Share this project?	No
Start Date	9/10/2012
Submitted Date	12/11/2013

ABR	PQI Project Attestation
Basel	ine Plan
	Step 1: Plan
	How do you plan to complete your PQI project? Group
	Select the type of project you plan to complete. Non-sponsored PQI Project
	Which of the Six institute of Medicine Quality Aims describes your project? (select all that apply) Timely
	Efficient Effective
	4. What measure will you use to gauge performance improvement in the quality/safety gap area you selected?
	Audits of the process and statistical methods to demonstrate changes (if any)
	Did you set a performance target? Yes

PQI Project Attestation

Step 2: Do
6. Did you finish collecting your data points?
Yes
7. Did you analyze your results?
Yes
Step 3: Study
8. Did your baseline meet your target?
No
Step 4: Act
9. Did you design an improvement plan?
Yes

ABR	PQI Project Attestation
Impr	ovement Plan
	Step 1: Plan
	Did you implement your improvement plan?
	Yes
	Step 2: Do
	2. Did you finish collecting your data points?
	Yes
	3. Did you analyze your results?
	Yes
	Step 3: Study
	Did you meet your performance target?
	Yes
	Step 4: Act



PQI Project Attestation

5. Please provide a brief narrative describing your reflections on the project, improvements in quality/safety, and the overall value to the practice or patient care.

Reporting CT dose metrics is one of those "detail" issues that can represent extra unwanted work by the radiologist, but must be performed in an accurate and efficient way. Implementation of "automatic" insection of these values in the interpretive report through informatics tools, however, does not guarantee that the required dose metric values will be appropriately recorded or formatted. All of our practicing radiologists must be cognizant of the need to understand and ensure how the dose data can be properly transferred and formatted on the report. This required a group training session and individual interactions

.....

Patient care indirectly benefits from this recognition of dose values and importance of optimizing CT protocols. The radiology practice and the UC Davis Medical Center also benefits for meeting the letter of the law (no unintended violations of the public health statute) and demonstrating leadership that others can mimic.

6. Please enter the date your project was completed.

12/11/2013



Random Annual Audits

Each diplomate should maintain records (even if participating in an organizational project)

If audited, ABR requires submission of

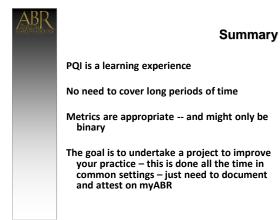
Evidence of Part 1

Details of Part 2

Outline of elements of Part 4 PQI project: data collection, data analysis, improvement plan, creation and implementation, and re-measurement

http://www.theabr.org/moc-policy#audit

ABR	Where c	an I get e	xamples of PQI projects?	
	ABR website, specialty organizations			
•	AAPM on-line data of previous meetings			
	edical Physics ctice Guidelines		PQI: Example Projects for Nuclear Medicine Physics	
	hael Yester, Ph.D. y of Alabama at Birmingham		Sharon L. White PhD University of Alabama at Birmingham August 6, 2013	
LIB MEDICINE	PQI	for Radiotherapy I	Physics NE	
	W	Bruce Thomadsen University of Wisconsin Madaton		



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