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Improving Communication of Peer Review Conference Outcomes: A Practical Experience

Joseph A. Jones¹, Michael H. Soike², D. Hunter Boggs², John B. Fiveash², Rex A. Cardan²,
James A. Bonner², Andrew M. McDonald²

¹University of South Alabama, Mitchell Cancer Institute, Mobile, AL

²University of Alabama at Birmingham, Department of Radiation Oncology, Birmingham, AL

Short running title: Communicating peer review outcomes

Author responsible for statistical analyses: Andrew McDonald, ammcdonald@uabmc.edu

Corresponding author: Andrew M. McDonald, MD, MS, ammcdonald@uabmc.edu

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ABSTRACT

Purpose: To describe the design and implementation of a more robust workflow for communicating outcomes from peer-review chart rounds conference. We also provide information regarding cycle times, plan revisions, and other key metrics that we have observed since initial implementation.

Materials and Methods: A multidisciplinary team of stakeholders including physicians and developed a revised peer review workflow that addressed key needs to improve upon the prior process. Consensus terminology was developed to reduce ambiguity regarding the priority of peer-review outcomes and to clarify expectations of the treating physician in response to peer-review outcomes. A custom workflow software tool was developed to facilitate both upstream and downstream process from the chart rounds conference. The peer-review outcomes of chart rounds conference and resulting plan changes for the first 18 months of implementation were summarized.

Results: In the first 18 months following implementation of the revised processes 2,294 plans were reviewed and feedback priority levels assigned during. Across all cases with feedback, the median time for the treating attending physician to acknowledge conference comments was 1 day and was within 7 calendar days for 89.1% of cases. Conference feedback was

acknowledged within 1 day for 74 of 115 (64.3%) of cases with level 2 comments and for 18 of 21 (85.7%) cases with level 3 comments ($p=0.054$). Contours were modified in 13 of 116 (11%) cases receiving level 2 feedback and 10 of 21 (48%) cases receiving level 3 feedback ($p<0.001$). The treatment plan was revised in 18 of 116 (16%) cases receiving level 2 feedback and 13 of 21 (61%) of cases receiving level 3 feedback ($p<0.001$).

Conclusions: We successfully implemented a workflow to improve upstream and downstream processes for chart rounds conference. Standardizing how peer-review outcomes were communicated and recording physician responses allows for improved ability to monitor conference activities.

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INTRODUCTION

Plan quality in radiation oncology is strongly associated with patient outcomes, both in terms of tumor control and toxicity.¹⁻⁸ Peer-review conferences remain the most common strategy to ensure quality, and are an important quality management step for preventing failure modes in the clinic.^{9,10} Despite widespread agreement that peer-review is important, evidence that minimally structured chart rounds improves the quality and safety of delivered treatment is lacking. Instead, recent reports have called into question the ability of conventional chart rounds conferences to even detect grossly deficient treatment plans.¹¹

In 2020 we convened a journal club to review articles concerning radiation oncology peer-review, including a call to action to restructure approaches to peer-review.¹² We then reviewed our departmental quality management procedures through a series of conferences, small group meetings, and a formal failure modes and effects analysis. Our current chart conference remained an effective process control, but we identified multiple potential failure modes downstream from the conference where suggestions are communicated to the treating physician. For instance, lack of a closed-loop communication system, confusion by physicians about how to prioritize conference feedback, insufficient downstream workflows, and inability to formally monitor conference activities were identified as immediate opportunities for improvement.

Throughout the process of revising our peer review workflow we extensively reviewed publications regarding treatment quality in radiation oncology. We observed that most publications about peer review in radiation oncology were from centers with long established quality programs and tended to focus on peer review outcomes rather than how process controls were successfully implemented. At the other end of the spectrum, resources such as ASTRO's Safety is No Accident publication and Accreditation Program for Excellence guidelines provide a general framework for the goals of a quality program, but many specifics are left to the discretion of the reader. Practical reports of implementing more robust peer review processes were relatively scarce and are needed as a resource to clinics looking to improve upon existing quality programs.

The purpose of this report is to describe our department's initial effort to implement a more robust workflow for communicating outcomes from peer-review. Our department consists of 22 faculty, four photon treatment centers and one single vault proton center with approximately 1,500 patients treated each year. Most faculty treat multiple disease sites, necessitating a general conference where all plans are considered. We describe how processes were developed and implemented with a focus on practical considerations. We further provide information regarding cycle times, plan revisions, and other key metrics that we have observed over the past year. These data may be useful for those clinics looking to implement more robust peer-review workflows and to provide benchmarks of conference activities.

METHODS AND MATERIALS

Workflow development: The workflow surrounding our peer review conference prior to December 2020 is presented in **Figure 1**, where conference feedback to the attending physician was relayed through uncontrolled and non-confirmed methods of communication. A multidisciplinary team of stakeholders including physicians, physicists, and dosimetrists

convened to develop a revised peer review workflow that addressed key needs to improve upon the prior workflow: (1) develop consistent terminology to summarize the results of the peer review conference, (2) to close the communication loop by ensuring conference feedback is acknowledged by the treating physician, and (3) ensure that plans receiving high priority comments were routed back to the conference for additional review. A conceptual framework for a revised peer-review conference workflow (**Figure 1**) was developed to include standardized terminology regarding the severity of feedback, formal acknowledgement by the treating physician, and automated queueing for further review.

Consensus terminology to assign a priority level to the comments recorded at the peer-review conference was developed and consisted of 4 priority levels which correspond to specific actions required of the treating physician:

- Level 1: No comments and no further action required.
- Level 2: Minor comments requiring acknowledgement by the treating physician. Treatment may continue as planned and revised plans do not require additional peer review.
- Level 3: Significant comments requiring formal response by the treating physician and/or plan modification to be reviewed again by the peer review conference. Treatment may continue as planned.
- Level 4: Major safety concerns. Treatment plan unapproved at the time of peer review and treating physician notified.

We estimated that approximately 80% of cases would be classified as Level 1, 10-15% as Level 2, <5% as Level 3, and <1% as Level 4. Feedback and comments accompanying the priority level are recorded in the electronic workflow software which notifies the treatment physicians of the peer review outcome by automated email. The treating physician was required to acknowledge all comments; a response was optional for Level 2 comments and required for Level 3 or Level 4 comments.

Software development: A custom workflow software tool was developed to facilitate treatment planning and peer review workflow using the ProcessMaker (Durham, NC, USA) platform. This tool is available as open source or commercially supported models. Swim lane process maps were generated using Visio (Microsoft, Redmond, WA, USA) and translated to Business Process Model and Notation (Object Management Group, Milford, MA, USA) for integration into the interactive online module used to track the status of unit operations from patient simulation through plan peer-review. Patient courses were assigned to the peer-review module automatically once the attending physician indicated that the treatment plan was approved. The planning dosimetrist then assigned a date for review based on the disease site and treatment start date. Supporting documents were uploaded to the module, including the electronic prescription and results from the dosimetric safety checking tool XCheck (Redlon, Birmingham, AL USA). Representative screenshots of the workflow software user interface are presented as **Figure 2**.

Peer-review conference: Treatment plans were reviewed at one of six weekly conferences (2 general conferences, 2 proton conferences, and 2 stereotactic conferences) attended by attending and resident physicians, physicists, and dosimetrists. Minimum standards for review were: (1) review of the electronic prescription, (2) visual assessment the dose distribution at

multiple isodose levels, and (3) review of the dosimetric parameters defined by institutional treatment planning guidelines. Detailed review of contours was routine for proton therapy plans and optional for photon plans. Contour review was not routinely performed prior to treatment planning. A priority level was assigned to each plan by an attending physician and recorded in ProcessMaker and conference comments were summarized to accompany any priority level of 2 or higher. If the treating physician was present at the conference and verbally acknowledged minor feedback, then a peer review level 1 outcome was recorded in ProcessMaker.

Review of conference outcome: All cases with assigned peer-review priority levels of 2 or higher triggered automatic email notification to the assigned treating physician. Physicians also received daily reminder notifications of any outstanding peer review outcomes. The attending physician was required to acknowledge the comments and indicate whether any change to the contours or treatment plan was made. For priority level 3 or 4 feedback the physician was also required to document a brief response to the conference comments; a response was optional for priority level 2 feedback.

Data collection and analysis: The ProcessMaker peer review module was queried for individual course data. For courses with level 2-4 peer review feedback, the date that the attending physician acknowledged or responded to conference feedback was abstracted, as well as whether the associated plans underwent changes to contours or were replanned. Descriptive statistics were used to summarize conference outcomes and between group differences in frequencies was assessed using the χ^2 test.

RESULTS

Development to incorporate the treatment planning workflow into ProcessMaker was initiated on January 28, 2020 and integration of the peer review process began on September 3, 2020. The integrated peer review software tool went live on December 18, 2020. Between December 18, 2020 and May 31, 2022, 2,294 plans were reviewed and feedback priority levels assigned; 1,952 (85.1%) of plans were associated with photon-based treatments with the remaining 342 (14.9%) plans associated with proton-based treatments. A total of 2,154 (93.9%) plans received level 1 scores, 116 (5.1%) plans received level 2 feedback, 21 (0.9%) plans received level 3 feedback, and 3 (0.1%) of the 2,294 plans reviewed received level 4 scores during peer review and were set to unapproved status in the treatment planning software during the conference. A summary of feedback priority levels by disease site and treatment modality is shown in **Table 1**.

Across all priority levels, the median time for the treating attending physician to acknowledge conference comments was 1 day and was within 7 calendar days for 89.1% of cases. Conference feedback was acknowledged within 1 day for 74 of 115 (64.3%) of cases with level 2 comments and for 18 of 21 (85.7%) cases with level 3 comments ($p=0.054$). A scatter plot of the number of days for attending physicians to acknowledge peer review comments over time since implementation of the revised workflow is presented as **Figure 3**.

Contours were modified in 13 of 116 (11%) cases receiving level 2 feedback and 10 of 21 (48%) cases receiving level 3 feedback ($p<0.001$). The treatment plan was revised in 18 of 116 (16%) cases receiving level 2 feedback and 13 of 21 (61%) of cases receiving level 3 feedback ($p<0.001$).

DISCUSSION

The purpose of this report is to provide a practical description of the process of implementing a standardized support workflow to a conventional chart rounds conference and to describe the initial results of cycle times and plan changes. Peer review in radiation oncology is a critically important as a process control and to monitor the quality of radiation therapy treatment plans. The topic of peer review is an active area of discussion among radiation oncologists, particularly regarding strategies to increase effectiveness and consistency as a part of a high reliability organization.¹³ For more than 10 years the peer review approach at our institution followed the weekly chart conference model, typically with about one-third of attending physicians present to review between 20 and 40 external beam plans in a 1-hour span. In 2020 we began formal review of our quality management process in response to the American Association for Physicists in Medicine Task Group 100 report as well as a growing number of reports criticizing unstructured chart conferences.^{9,11,14} During the conceptualization and implantation phases of our revised processes we identified key challenges that are likely to impact other groups looking to make similar changes.

When this peer review initiative commenced, there was no commercially available software designed to facilitate peer review. Others have also reported a need to develop custom electronic whiteboards to track peer review outcomes.¹⁴ Capturing peer review outcomes and physician responses electronically allowed us to track cycle times. We observed that the fewer instances of response times longer than 1 week after the initial 6 months following implementation. We were also able to confirm physicians tended to respond quicker to higher level feedback, with a large majority of level 3 comments addressed within 1 day. We were also able to monitor the frequency that physicians modified contours or treatment plans in response to conference feedback where, as expected, higher priority comments were more likely to trigger changes.

Another benefit of electronic data capture of peer review outcomes is that it enables a program to benchmark its peer review practices. Our peer review conference yielded level 2 comments for 5.1% of plans and level 3% comments for 0.9% of plans which was lower than our initial estimate that 10-15% of plans would prompt level 2 comments and as many as 5% would prompt level 3 comments. Prior to this initiative, we did not have any internal data to benchmark our existing workflow since the outcomes had not been formally recorded. The optimal frequency of plan modifications triggered at peer review depends on many factors. Given the size of our academic practice spanning multiple facilities, there are few similar series reported to draw from for comparison. In similar models of peer review, about 8-30% of plans are returned for modification.¹⁴⁻¹⁷ The rate of plan revision greatly depends on department-specific methods to evaluate plan quality and provide feedback. Major contributors to this variation include peer review of contours prior to treatment planning and virtual vs in-person attendance. Both in-person attendance at conferences and peer review of contours prior to treatment planning are associated with higher engagement and higher rates of plan revisions.¹⁸ The ideal rate of plan revisions to ensure optimal care is unknown, but monitoring the impact of peer-review is important for internal review of conference activities.

Effective communication of peer review recommendations is critical to ensure that both content and priority are accurately conferred to the treating physician. We previously observed a wide

range of behaviors among physicians after receiving peer review recommendations; some physicians would nearly always modify treatment plans even for minor comments about stylistic differences whereas others would rarely change a plan. Standardizing our terminology regarding the priority of feedback was able to reduce ambiguity and ensure high priority comments prompted further conference review. The priority level system we implemented was a minor modification to the “No Fly” grading system used by Cox and colleagues.¹⁴ Priority level 2 was developed to convey minor suggestions or stylistic differences that should be acknowledged but not necessarily prompt a plan revision. We also added a fourth category to indicate plans that were set to unapproved status (i.e. not deliverable) by the conference since our current peer review occurs after plan approval. Prior to the implementation of this scored model, we and others have observed that comments made by senior physicians, or those with assertive personalities, were often perceived as higher priority than comments made by others regardless of content and intent. Using common terminology forces the vocal or senior peer reviewer to clarify the priority of their comments so they are less likely to be over or under interpreted.

Whether the treating physician received and acted on feedback from their peers was not recorded, which was concerning given that physicians were often not present at the conference. The need to create an electronic data capture tool therefore became apparent early in this process, and our focus began to shift from modifying the peer review conference itself to developing better processes to monitor conference activities and to effectively communicate conference recommendations to the treatment team. In other words, we believed that improving the rigor of peer review would not translate to improved treatment quality unless we first developed more robust supporting processes.

This early report of our changing peer review workflows is subject to a range of limitations that are important to acknowledge. Perhaps the most important consideration is that this was developed as a quality improvement project rather than a formal research study designed to address a specific hypothesis. We applied this workflow at a single institution using software that is not commercially available which is an important consideration for generalizability. We did not systematically record the dosimetric impact of planning changes that were prompted by conference feedback and recognize this as an important consideration moving forward. Another future direction includes formally assessing variable conference participation and other factors that impact the frequency and type of feedback.

In summary, we successfully implemented a program to transform our peer review process from an unquantifiable, open-ended communication system nested within a hierarchical academic practice model to a closed-loop, quantifiable system that operates smoothly and provides feedback promptly. We continue to explore avenues to improve our process, including contour review prior to treatment planning, and our ability to assess physician, patient, and plan metrics provides a solid foundation for continued growth and a commitment to safety. We would encourage other practices to embrace a quantitative model of peer review plans that is reasonable to implement while respecting the stresses placed on each department and that incorporates metrics that can be utilized to modify physician behavior as well as provide an opportunity for continual self-improvement of the model.

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Figure 1. Framework of peer-review workflow prior to 2020 (upper) and revised workflow (lower).

Figure 2. Screenshot of ProcessMaker electronic peer-review comments worksheet (top pane) and physician acknowledgement form (bottom pane).

Figure 3. Scatter plot of days to acknowledgement of peer review comments plotted over time since program implementation.

Declaration of interests

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

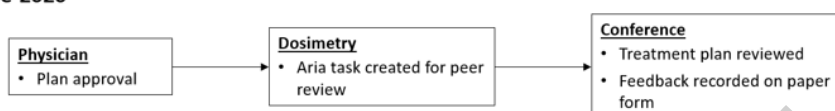
Table 1. Peer review priority scores stratified by disease site.

	Disease site	No. of Cases	Level 1 N (%)	Level 2 N (%)	Level 3 N (%)	Level 4 N (%)
Photon	Breast	337	319 (94.7)	17 (5.0)	1 (0.3)	0
	CNS	301	283 (94.0)	15 (5.0)	2 (0.7)	1 (0.3)
	GI	112	101 (90.2)	10 (8.9)	0	1 (0.9)
	GU	161	149 (92.5)	8 (5.0)	4 (2.5)	0
	GYN	57	55 (96.5)	2 (3.5)	0	0
	H&N	113	101 (89.4)	11 (9.7)	1 (0.9)	0
	Met	444	421 (94.8)	17 (3.8)	5 (1.1)	1 (0.2)
	Peds	36	36 (100)	0	0	0
	Thorax	199	188 (94.5)	10 (5.0)	1 (0.5)	0
	Other	192	179 (93.2)	10 (5.2)	3 (1.6)	0
	Total	1,952	1,832 (93.9)	100 (5.1)	17 (0.9)	3 (0.2)
Proton	Breast	47	45 (95.7)	1 (2.1)	1 (2.1)	0
	CNS	39	35 (89.7)	4 (10.3)	0	0
	GI	6	6 (100)	0	0	0
	GU	44	43 (97.7)	1 (2.3)	0	0
	GYN	1	1 (100)	0	0	0
	H&N	133	127 (95.5)	5 (3.8)	1 (0.8)	0
	Met	8	8 (100)	0	0	0

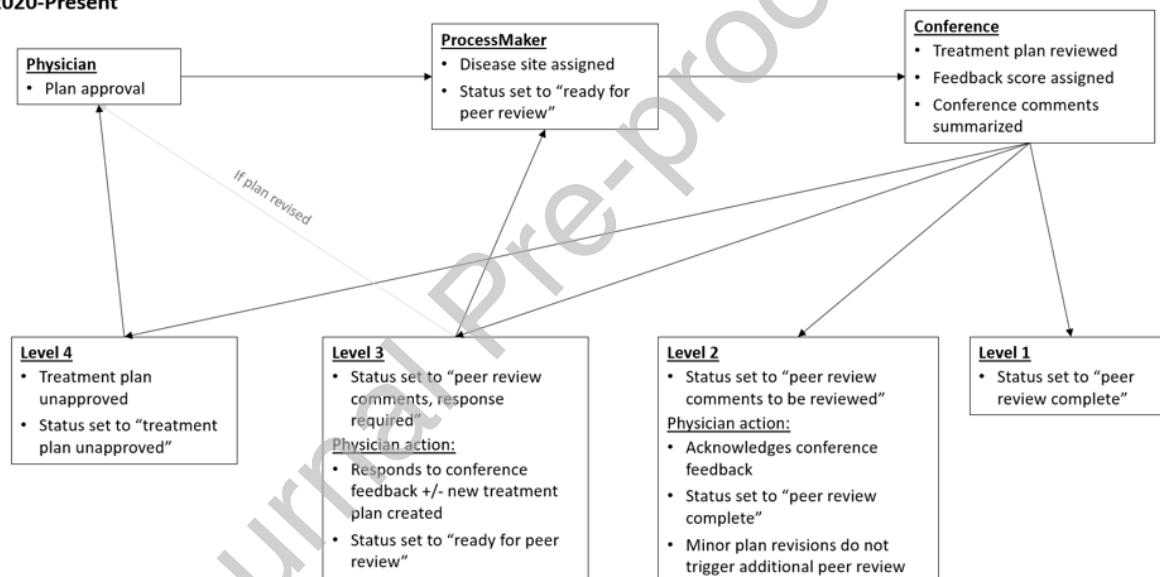
Peds	26	23 (88.5)	1 (3.8)	2 (7.7)	0
Thorax	12	11 (91.7)	1 (8.3)	0	0
Other	26	23 (88.5)	3 (11.5)	0	0
Total	342	322 (94.2)	16 (4.7)	4 (1.2)	0

CNS: Central nervous system; GI: Gastrointestinal; GU: Genitourinary; GYN: Gynecologic; H&N: Head and neck; Met: Metastatic; Peds: Pediatrics.

Pre-2020



2020-Present



Steps Information Actions Case Notes
Case #: 11313 Case #: 11313 Title: EXAMPLE, EXAMPLE - 1234

Radiation Treatment Planning Peer Review Process

Course ID*	C4790	MR#*	1234
Last Name*	EXAMPLE	First Name*	EXAMPLE
Attending Physician*	[REDACTED]	Resident*	[REDACTED]
Department*	[REDACTED]	Planner*	[REDACTED]
Simulation Date*	07/18/2022	Draw Date*	
Start date not needed	<input type="checkbox"/>	Start Date*	
Plan Status	Initial plan ready for review	Active	Yes
Diagnosis*	GU	Phase	Initial
Upload Supporting Documentation	Choose Files		
Plan Name	EXAMPLE PLAN		

Present Case

User	[REDACTED]
Peer Review Status	Ready for Peer Review
Projected Review Date*	
Peer Review Date*	07/19/2022
Score*	- Select -
Conference Comments*	<ul style="list-style-type: none">0. Represent Next Meeting1. Treatment Approval2. Review Comments / re-plan FRN3. Respond to comments / re-plan FRN4. Treatment unapproved in ARBA
Upload Document	Choose Files

SUBMIT

Acknowledge Comments

User	[REDACTED]
Previous Comments	Example comments.
Peer Review Status	Peer Review comments, response required
Projected Review Date*	07/21/2022
Change Contours*	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments*	Contours were changed and plan revised.

Submit

