

Introduction of a “Good Catch” Reporting System As a Component of Radiation Oncology Quality Improvement and Patient Safety



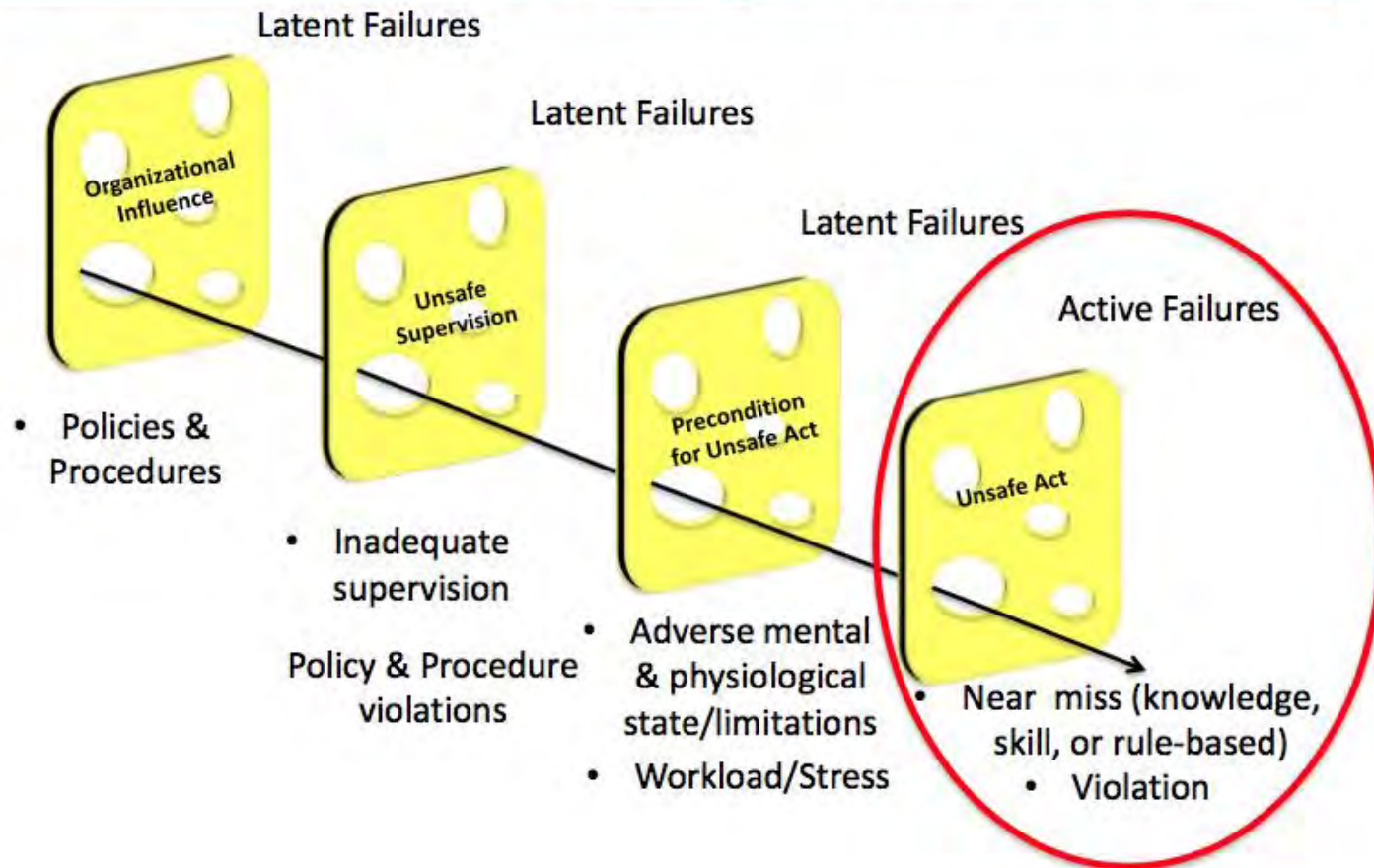
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What is a Good Catch?

A { condition
defect
event
situation
miscommunication } that could have or did result in { harm
delay
rework
waste
an error }

Radiation Oncology Error Propagation

Reason's Swiss Cheese Model of Organizational Error Prevention



Reporting Model:

- Any staff member can submit a Good catch
- Good catches are assigned to a champion for initial review.
- Details and possible interventions are added and the Good catch is then reviewed by the Good Catch committee.
- The good catch committee reports significant good catches and recommendations to the department's Continuous Quality Improvement team.

Good Catch v1.0

VCC RADIATION ONCOLOGY "GOOD CATCH" REPORT

Instructions:

1. The involved staff should complete the Report while facts are still fresh and submit to their Incident Team Leader.
2. The Incident Team Leader is responsible for reviewing the Report and assessing if immediate action is required.
3. The Report must be completed, reviewed by the Clinical Manager & distributed **within 14 days**.
4. The Clinical Manager is responsible for gaining commitment from those responsible for action completion.
5. The Incident Team will review all Reports for the month and prepare a report to the Quality and Safety Committee.
6. Do not include any personal medical information, on this form.

Inc. Date	Inc. Time	Inc. Day	Exact Location of Incident	Clinical Area of Incident

Date Incident Reported	Witness(es) Names, if any	Report #

Incident Details Section: Check the Appropriate Boxes (see Instructions 5 and 6 for guidance)

1. Involved person(s) <input type="checkbox"/> Patient <input type="checkbox"/> Visitor <input type="checkbox"/> Staff <input type="checkbox"/> Student <input type="checkbox"/> Visiting Worker	2. Incident Area Classification (check one) <input type="checkbox"/> Medical <input type="checkbox"/> Physics <input type="checkbox"/> Simulation <input type="checkbox"/> Dosimetry <input type="checkbox"/> Treatment <input type="checkbox"/> Nursing <input type="checkbox"/> Equipment <input type="checkbox"/> Other: _____	3. Please briefly describe the incident: _____ _____ _____
4. What was your response and/or actions taken to intervene? _____ _____ _____	5. What other forms were filled out? (i.e. pt. incidence report,) _____ _____	6. Who did you notify (check all that apply) <input type="checkbox"/> Your Supervisor <input type="checkbox"/> Physics <input type="checkbox"/> Attending Physician <input type="checkbox"/> Other: _____

7. Signature:

Name: _____
(Print)

Signature: _____

Date: _____

VCC RADIATION ONCOLOGY "GOOD CATCH" REPORT

Incident Investigation Section:

8. Incident Type

- Near Miss
 Error
 Radiation/Dose Event

9. Describe Learning Points from this Incident:

10. Incident Severity Classification: (See definitions below)

- Low
 Medium
 High
 Critical

11. What is the Root Cause of This Incident?

12. Actions to Prevent this Incident from Happening Again:

13. Incident Investigation Team Leader:

14. Other Investigation Team Members:

15. Has the Report been reviewed and distributed as necessary? (Please describe)

16. Have all action items been addressed? (Please describe)

17. If indicated, has an SBAR or PDCA project been initiated to evaluate effectiveness of action?

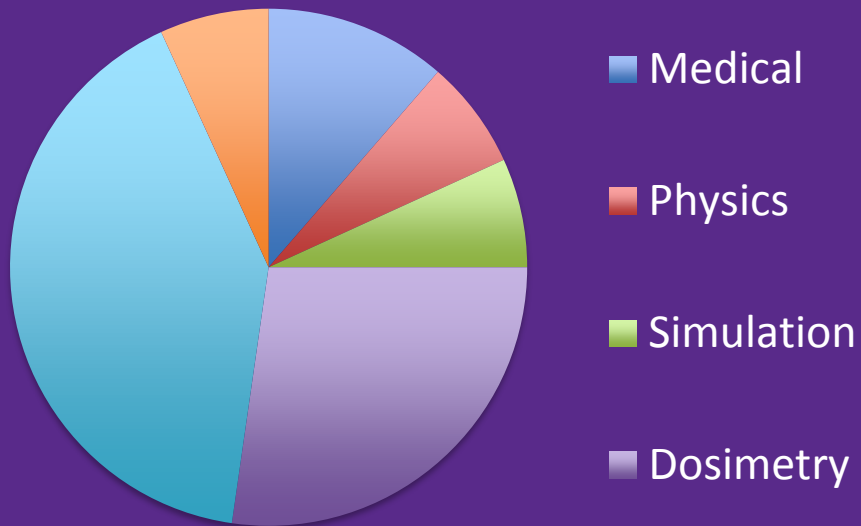
18. Investigator Signature: _____ Date: _____

19. Manager Signature: _____ Date: _____

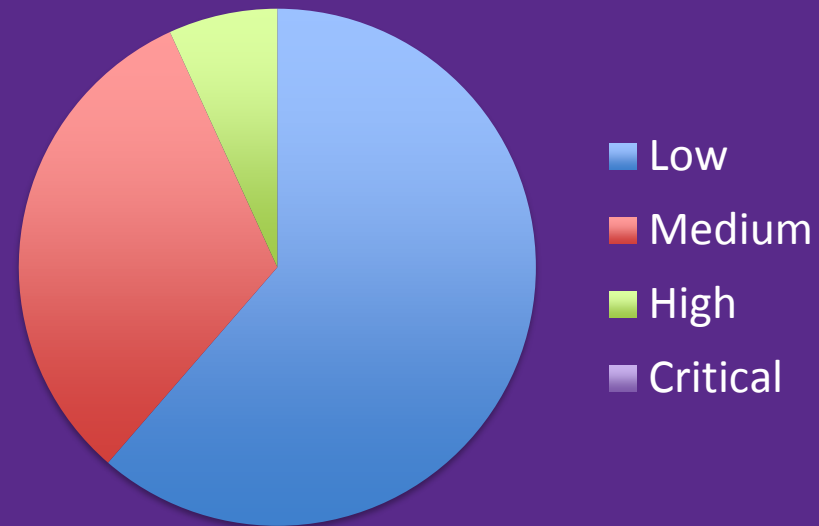
Good Catch v1.0

- 8/3/17 – 10/31/17
- 44 Good Catches submitted
- Weekly meetings

Submissions




Severity



Good Catch v2.0

- Communitify Health
 - ImprovementFlow

IF ImprovementFlow 

Submit GoodCatch

Select where you work

Describe your Goodcatch.
— Keep it short; details will be collected later.
— Indicate if you are reporting for someone else.


Advanced (optional)

Submit as User Team

To post as user use your own username and password

Username Password

This field is required.

 Communitify Health
Unifying Healthcare Communities

Good Catches



ECU Rad Onc
ECURO



82



0



0



Runyon Woods
Admin — ECU Rad Onc ECURO



GoodCatch List [Graph](#)

Mode:

Sort by: \downarrow ID

Shown: 82 of 84 View **Not selected** Status **Unreviewed by QSC, Reviewed...** Ignored **Not ignored** More Columns

ID	Description	Submitter	Champ	Status	Severity	Date-time
G84	Sheryl was printing a breast plan and noticed insufficient flash on the fields. She opened the jaw on all the fields to allow for more flash.	Michelle Schwer	Runyon Woods	Reviewed By QSC	1 No Pt impact	Dec 28, 2017 09:09 AM
G83	Artifact was not overridden on a H&N plan. Physics performed an evaluation as to the effect overriding the artifact would have on the plan. This allowed the physician to make a decision on how to proceed.	Michelle Schwer	Runyon Woods	Reviewed By QSC	1 No Pt impact	Dec 27, 2017 02:59 PM
G82	Plan name does not match RX, and energy in plan does not RX. Given back to dosimetry to edit and perform time out.	Michelle Schwer	Runyon Woods	Reviewed By QSC	1 No Pt impact	Dec 27, 2017 11:14 AM
G81	Prostate Replan starting on 12/27 did not have the reference point correctly defined, did not have a plan sum, or shift notes. Also, the plan printout contained the "completed early" plan's DVH to 70 Gy when the replan is only going to 30 Gy. Physics completed a plan sum, edited the reference points, and reprinted the plan printout b/c the patient was starting in an hour.	Michelle Schwer	Tim Barnes	Reviewed By QSC	2 Mild	Dec 27, 2017 10:27 AM



Good Catch v2.0

- As of 1/22/18
- 86 Good Catches submitted by departmental staff.
- Allows for greater organization and identification of *origin* of error

Good Catch v2.0: Care Path



ECU Rad Onc
ECURO



84

A3

0



0



Runyon Woods
Admin — ECU Rad Onc ECURO



>	<input type="checkbox"/>	0.000	Pt Assessment	18
>	<input type="checkbox"/>	1.000	Imaging for RT Planning	14
∨	<input type="checkbox"/>	2.000	Treatment Planning (was E,F,G,H,J)	18
	<input type="checkbox"/>	3.00	MD draws target contours	Barrier (P or P)
	<input type="checkbox"/>	3.01	CMD/MD draws OAR contours	Barrier (P or P)
	<input type="checkbox"/>	3.02	MD writes Tx intent: preliminary Rx parameters, constraints & technique	Barrier (P or P)
	<input type="checkbox"/>	3.03	Attending MD reviews Tx plan note	Barrier (P or P)
	<input type="checkbox"/>	3.04	Staff review contours at sim review meeting	Barrier (P or P)
	<input type="checkbox"/>	3.05	Complete sim review QCL	Barrier (P or P)
	<input type="checkbox"/>	3.06	Pre-planning: confirm TX-77, amend QCL, verify CT orientation, verify contours were reviewed by attending MD	Barrier (P or P)
	<input type="checkbox"/>	3.07	Dose distribution optimization and calculation	Barrier (P or P)
	<input type="checkbox"/>	3.08	Iterate Tx plan	Barrier (P or P)
	<input type="checkbox"/>	3.09	MD approves	Barrier (P or P)
	<input type="checkbox"/>	3.10	Transfer plan from TPS to Mq	Barrier (P or P)
	<input type="checkbox"/>	3.11	MD approves Rx in Mq	Barrier (P or P)
	<input type="checkbox"/>	3.12	Complete chart + image documentation. Schedule Tx sessions	Barrier (P or P)
	<input type="checkbox"/>	3.13	Create QCLs	Barrier (P or P)
	<input type="checkbox"/>	3.14	CMD completes planning QCL	Barrier (P or P)
	<input type="checkbox"/>	3.15	Pre-Tx check. MP plan review. Independent dose calculation	Barrier (P or P)
	<input type="checkbox"/>	3.16	MD completes QCL review	Barrier (P or P)
	<input type="checkbox"/>	3.17	MP appends SIM QCL	Barrier (P or P)

Good Catch v2.0: Care Path



ECU Rad Onc
ECURO

84 A3 0 # 0 ?

Runyon Woods
Admin — ECU Rad Onc ECURO



GoodCatch
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	Pre-visit		Pt Assessment		Imaging for RT Planning		Treatment Planning (was E,F,G,H,J)		Pretreatment review and verification (was K, L, M, N)		Treatment delivery (was P)		On-Tx quality management (was Q)		Post-Tx completion		Equipment & software quality management	
	Tripped	0	Tripped	4	Tripped	2	Tripped	27	Tripped	0	Tripped	0	Tripped	0	Tripped	0	Tripped	0
	Caught	0	Caught	1	Caught	2	Caught	21	Caught	4	Caught	4	Caught	1	Caught	0	Caught	0
G1 2																		
G52 2																		
G29 1																		
G15 3																		
G28 3																		
G17 1																		
G13 1																		
G12 4																		



Good Catch evaluation Leads to a Solution

- Multiple GC's submitted identified the need for a “timeout” between physicians and dosimetrists
 - Patient plans were proceeding without corrected prescriptions
- Introduced the “4 P’s” Timeout
 - Prescription?
 - Pacemaker?
 - Pregnant?
 - Prior Radiation?

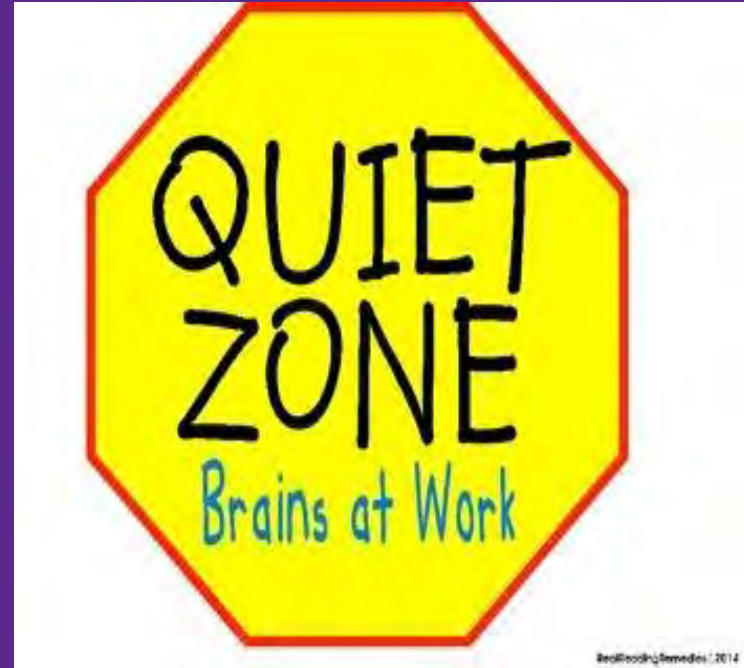
Staff Recognition and Cultural Change

- GC Program allows for a verifiable way to commend staff for excellent work
- Drives a culture of staff engagement and safety
- Increases staff awareness and promotes individual ownership of processes
- “Good catch of the month” in progress...

Not Just for Errors!

- G.C. # 70:
 - The Omnipaque used for Oral contrast usually comes on 50 mL bottles. We only need 10 mL for some of our scans. Since the remaining must be discarded once opened there is a substantial amount of product and money wasted. After discussing with Diagnostic Radiology they said that 50 mL was the smallest amount available so they do the same (throw away remaining of a 50ml bottle). After further searching on Mkesons ordering website Omnipaque is in fact available in 10 mL bottles which only cost \$16 each, as opposed to \$51 per bottle for the 50ml. This will save the dept \$35/bottle when only a small amount is needed.

Sometimes it's the small things!!



Summary

- Still evolving as an important part of the CQI program within our department
- Organization of GC's is greatly improved with new software
- Submissions are increasing
 - Encompassing more than just errors, but suggestions for improvements in all areas
- Team members feel empowered to drive change for the better
- More staff education and training is needed to expand the program.

Thank You!

- Questions??
- References:
- “Implementing a Good Catch Program in an Integrated Health System”, Debbie Barnard et al. Healthcare Quarterly Vol. 9, Special Issue, October 2006.
- “Patient Safety Reporting Systems: Sustained Quality Improvement Using a Multidisciplinary Team and “Good Catch” Awards. Kurt R Herzer, et al. The Joint Commission Journal on Quality and Patient Safety, August 2012, Volume 38, Number 8.
- “To Err is Human Building a Safer Health System”, Institute of Medicine, 1999.