



AGGREGATE DATA REPORT

Quarter 2, 2021 April 1 - June 30, 2021

Patient Safety Work Product

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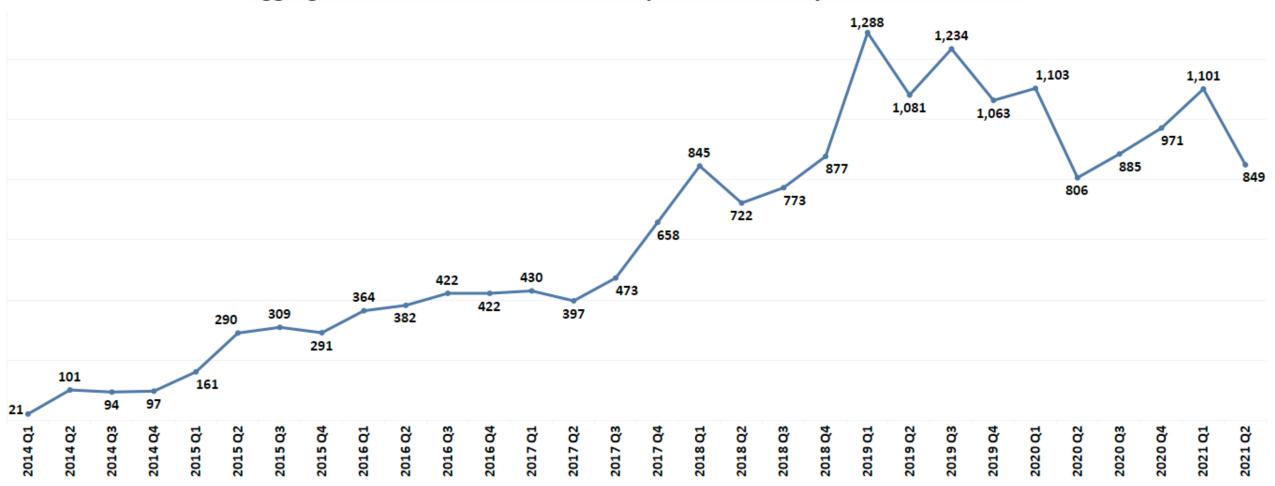
Aggregate Report Card

The timeframes utilized throughout this report are based on the timepoint of event submission (i.e., when the event was initially entered into the RO-ILS Portal, when the "Submit Event" form was completed). The national aggregate database only includes events that have been reviewed and reported to the PSO, which occurs after submission. All information in this report represent data in the national database. For this reason, the amounts provided for previous timeframes may change as older events are reviewed and reported to the PSO.

METRIC	Q1 2021	Q2 2021	AGGREGATE HISTORICAL SUM
Total Number Of Events	1101	849	18510
Therapeutic Radiation Incident Other Safety Incident Near Miss	99 140 171	86 85 88	2502 2277 3715
Unsafe Condition Operational/Process Improvement	237 454	268 322	2629 7387
Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging 31% (337/1101)	Treatment Delivery Including Imaging 44% (371/849)	Treatment Planning 31% (5763/18510)
Most Commonly Identified Workflow Step Where Event was Discovered	Treatment Delivery Including Imaging 31% (341/1101)	On-Treatment QA 32% (273/849)	Treatment Delivery Including Imaging 30% (5572/18510)
Most Commonly Identified Treatment Technique	IMRT/VMAT 41% (452/1101)	38% (321/849)	IMRT/VMAT 31% (5772/18510)
Most Commonly Identified Dose Deviation for Therapeutic Radiation Incidents that Did Not Effect Multiple Patients	≤ 5% maximum dose deviation to target 80% (40/50)	≤ 5% maximum dose deviation to target 80% (33/41)	≤ 5% maximum dose deviation to target 85% (1075/1263)



Aggregate: Total Number of Events Reported to PSO by Quarter Submitted

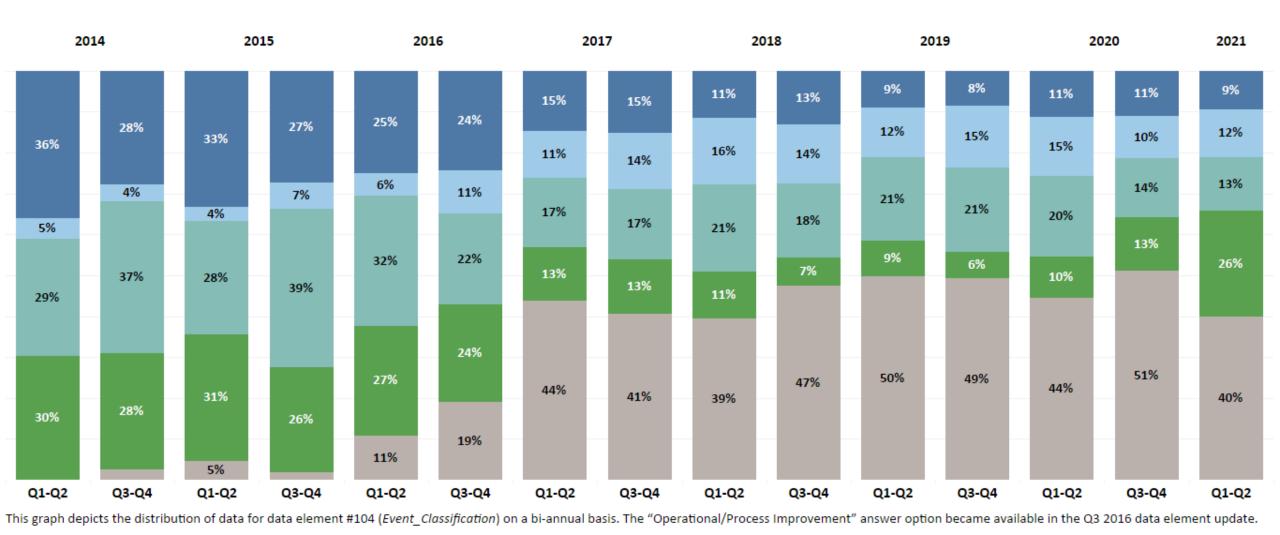


This graph displays how many events were submitted, reviewed, and reported to the PSO per quarter based on the date of submission.



Operational/Process Improvement

Aggregate: Event Classification



Unsafe condition

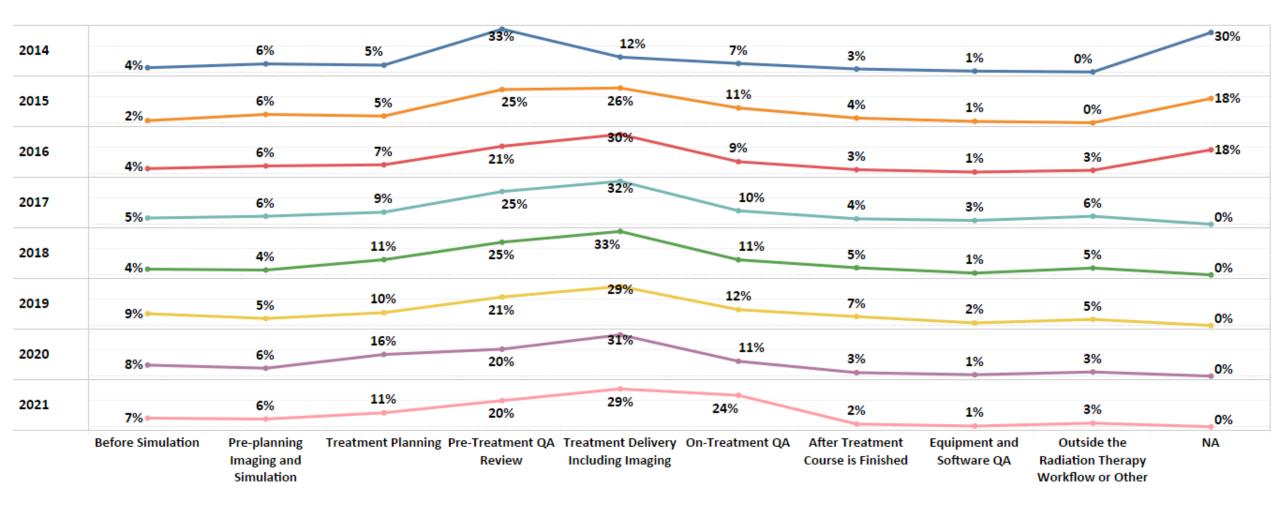
Near-miss

Therapeutic Radiation Incident

Other Safety Incident



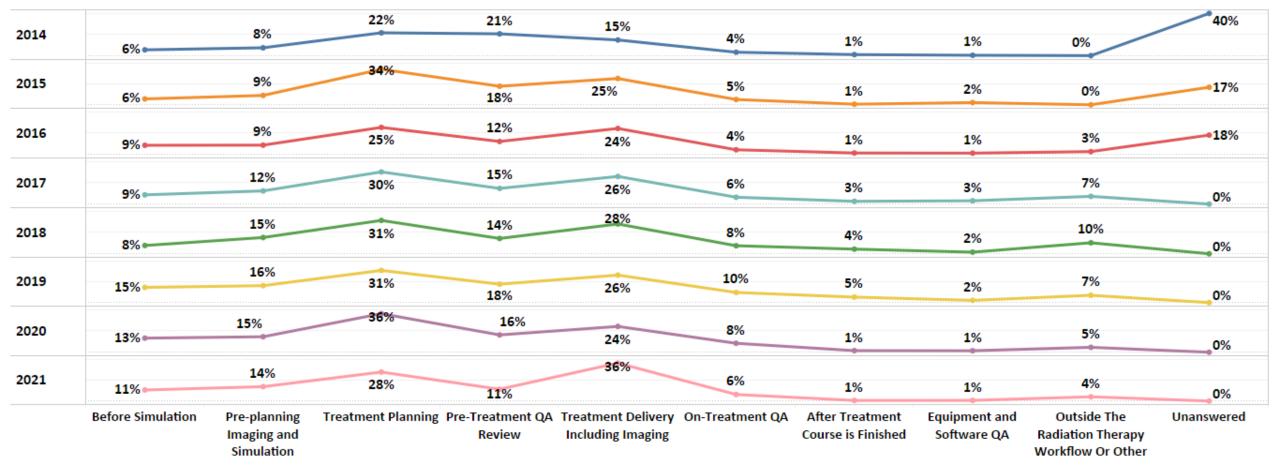
Aggregate: Workflow Step Where Event Discovered



This data is based on data element #207 (Discovered_Workflow), presented in yearly increments. As a part of the Q3 2016 data element update, this question became required and an answer option of "Outside the Radiation therapy Workflow or Other" was added.



Aggregate: Workflow Step(s) Where Event Occurred



This graph depicts the frequency of answer options for data element #208 (Occurred_Workflow) based on the calendar year it was submitted. Users have the option to select more than one answer option, therefore, there is a potential for each year's total percentage to be greater than 100%. As a part of the Q3 2016 data element update, this question became required and an answer option of "Outside the Radiation therapy Workflow or Other" was added.



Aggregate: Workflow Step Where Event Occurred & Event Discovered

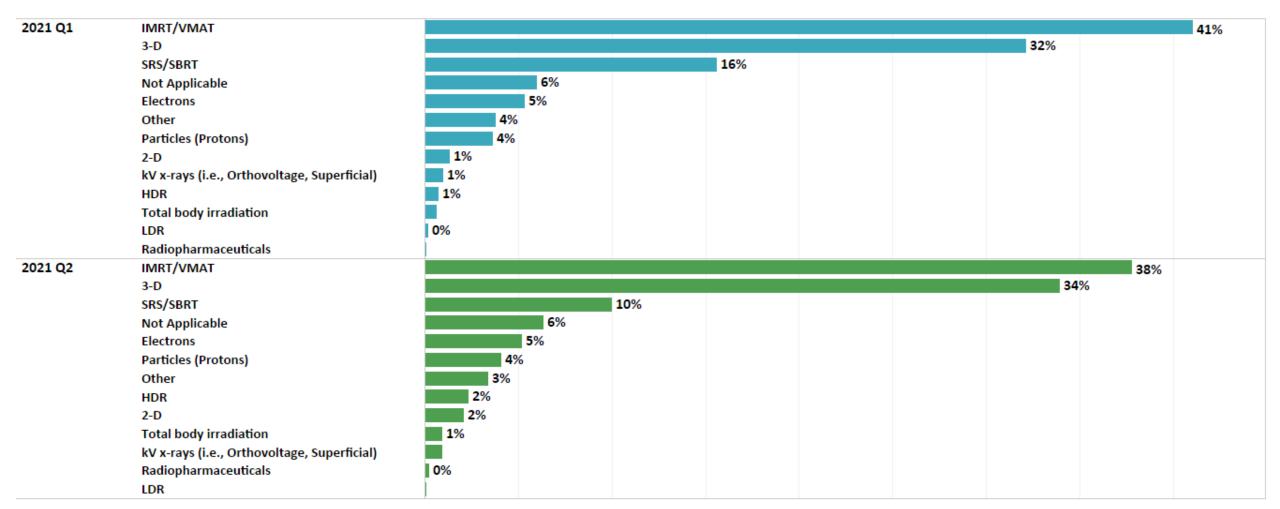
Occurred Workflow

Quarter	<u>Discovered Workflow</u>	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning	Pre- Treatment QA Review	Treatment Delivery Including Imaging	On-Treatment QA	After Treatment Course is Finished	Equipment and Software QA	Outside The Radiation Therapy Workflow Or Other	Grand Total
2021 Q2	Before Simulation	91%	6%	2%							100%
	Pre-planning Imaging and Simulation	21%	71%	6%						3%	100%
	Treatment Planning	10%	25%	61%	2%	1%				1%	100%
	Pre-Treatment QA Review	2%	12%	45%	36%	2%	1%		1%	1%	100%
	Treatment Delivery Including Imaging	1%	5%	23%	9%	56%	4%			2%	100%
	On-Treatment QA	1%	1%	3%	1%	79%	15%				100%
	After Treatment Course is Finished		5%	18%	5%	36%	5%	32%			100%
	Equipment and Software QA								100%		100%
	Outside the Radiation Therapy Workflow or Other	18%		5%	9%	5%		5%		59%	100%

This graph displays the overlap of where in the workflow events occurred (208. Occurred_Workflow) and where it was discovered (207. Discovered_Workflow) for the most recent quarter. The percentage is based on the total number of events that were discovered in that workflow step (e.g., of events that were discovered "before simulation").



Aggregate: Treatment Technique(s)

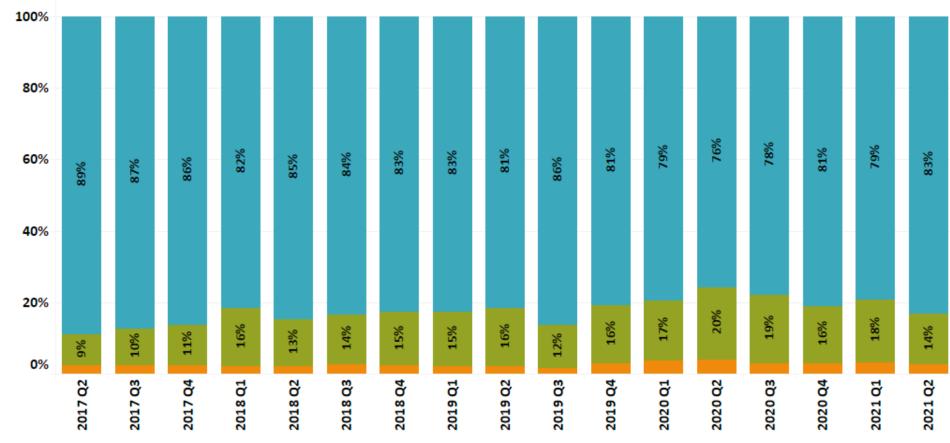


This graph demonstrates the distribution of answers for data element #106 (Tx_Technique) per quarter for the last two quarters. Users may be select more than one technique if pertinent to the event and thus the quarterly percentage total may be greater than 100%.



Mild Moderate

Aggregate: Significance Scale



This graph shows the frequency of answers for data element #225 (Significance_Scale) which asks, "In terms of risk to patient safety, how significant was this event?" This question was introduced in Q3 2016. The graph and table provide the severity percentages per quarter since 2017.

Quarter	IVIIIU	Woderate	Severe
2017 Q2	89%	9%	2%
2017 Q3	87%	10%	2%
2017 Q4	86%	11%	2%
2018 Q1	82%	16%	2%
2018 Q2	85%	13%	2%
2018 Q3	84%	14%	3%
2018 Q4	83%	15%	2%
2019 Q1	83%	15%	2%
2019 Q2	81%	16%	2%
2019 Q3	86%	12%	2%
2019 Q4	81%	16%	3%
2020 Q1	79%	17%	4%
2020 Q2	76%	20%	4%
2020 Q3	78%	19%	3%
2020 Q4	81%	16%	3%
2021 Q1	79%	18%	3%
2021 Q2	83%	14%	3%

Quarter

Mild Moderate Severe