

# AGGREGATE DATA REPORT Quarter 3, 2023 July 1 - September 31, 2023

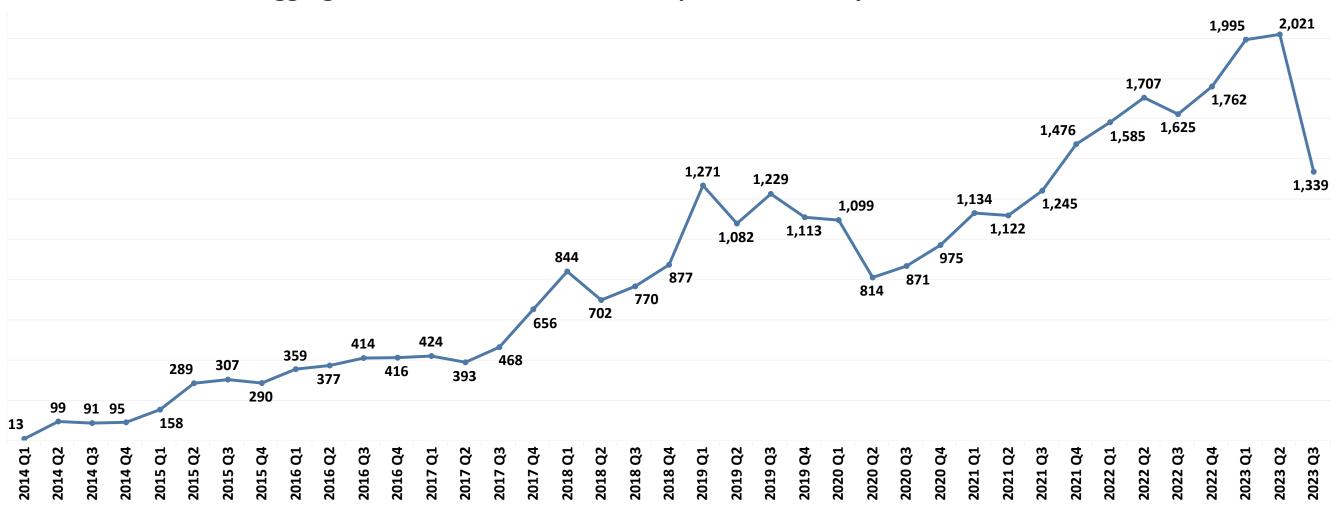
## **Patient Safety Work Product**

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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.

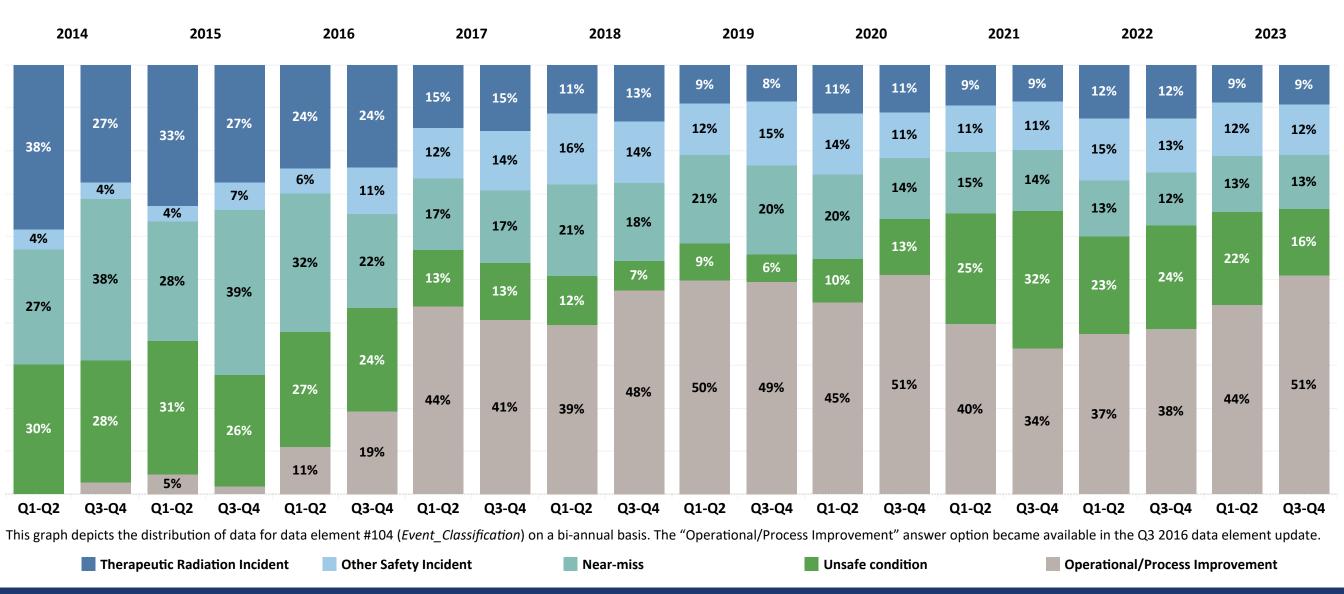
METRIC	Q2 2023	Q3 2023	AGGREGATE HISTORICAL SUM				
Total Number Of Events	2021	1339	33507				
Therapeutic Radiation Incident	171	122	4035				
Other Safety Incident	263	157	4154				
Near Miss	258	171	5691				
Unsafe Condition	439	208	6201				
Operational/Process Improvement	890	681	13426				
Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging 31% (627/2021)	Treatment Planning 28% (369/1339)	Treatment Delivery Including Imaging 29% (9839/33507)				
Most Commonly Identified Workflow Step Where Event was Discovered	Treatment Delivery Including Imaging 28% (574/2021)	Treatment Delivery Including Imaging 30% (407/1339)	Treatment Delivery Including Imaging 29% (9734/33507)				
Most Commonly Identified Treatment Technique	IMRT/VMAT 43% (868/2021)	IMRT/VMAT 46% (613/1339)	IMRT/VMAT 36% (12030/33507)				
Most Commonly Identified Dose Deviation for Therapeutic Radiation Incidents that Did Not Effect Multiple Patients	≤ 5% maximum dose deviation to target 63% (51/81)	≤ 5% maximum dose deviation to target 65% (35/54)	≤ 5% maximum dose deviation to target 80% (1523/1899)				



#### 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.

#### **Aggregate: Event Classification**



#### Aggregate: Workflow Step(s) Where Event Occurred

2014	6%	8%	21%	20%	15%	4%	1%	0%	0%	42%
2015	6%	9%	34%	18%	25%	5%	1%	2%	0%	17%
2016	9%	9%	25%	12%	24%	4%	1%	1%	3%	18%
2017	9%	12%	30%	15%	26%	6%	3%	3%	7%	0%
2018	8%	15%	32%	14%	28%	7%	4%	2%	10%	0%
2019	14%	16%	31%	18%	26%	10%	5%	2%	7%	0%
2020	13%	14%	36%	16%	24%	8%	1%	1%	5%	0%
2021	9%	12%	25%	12%	41%	7%	1%	1%	4%	0%
2022	9%	10%	23%	13%	31%	10%	1%	1%	12%	0%
2023	9%	13%	26%	11%	28%	9%	1%	0%	12%	0%
	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	Unanswered

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 Discovered

2014	4%	7%	5%	32%	11%	7%	3%	1%	0%	32%
2015	2%	7%	5%	25%	26%	11%	4%	1%	0%	19%
2016	4%	6%	7%	21%	29%	9%	3%	1%	3%	18%
2017	5%	6%	9%	25%	32%	10%	4%	3%	6%	0%
2018	4%	4%	11%	25%	33%	11%	5%	1%	5%	0%
2019	9%	5%	10%	22%	29%	12%	7%	2%	5%	0%
2020	8%	6%	16%	20%	31%	11%	3%	1%	3%	0%
2021	5%	5%	8%	18%	28%	29%	2%	1%	3%	0%
2022	4%	6%	9%	17%	28%	23%	2%	1%	11%	0%
2023	3%	7%	11%	18%	28%	20%	2%	0%	10%	0%
	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning Pre	e-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	Unanswered

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.

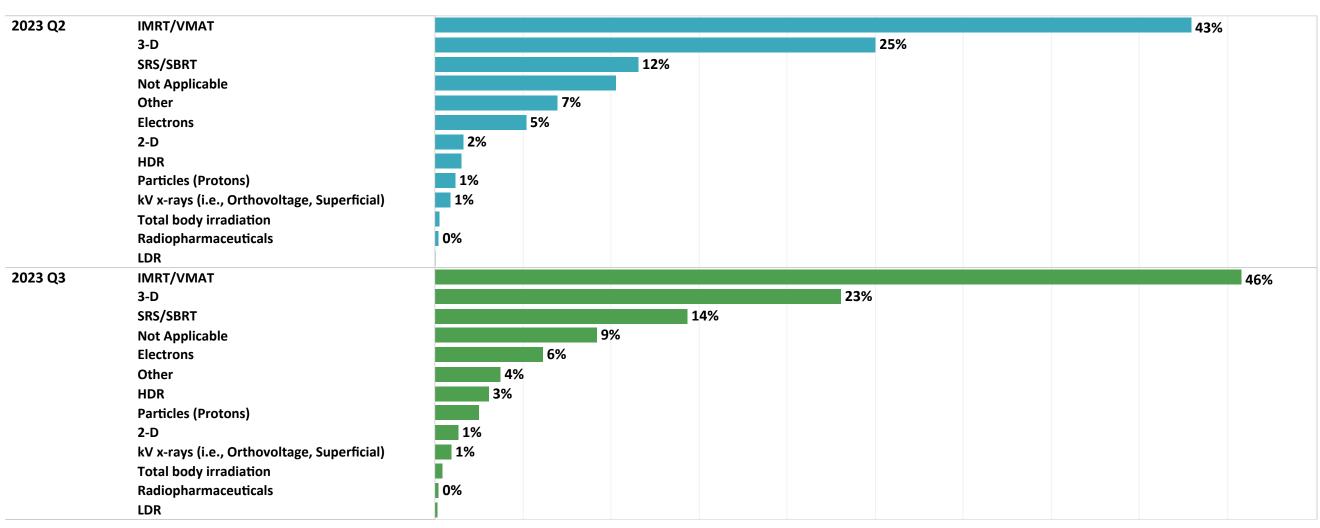
#### Aggregate: Workflow Step Where Event Occurred & Event Discovered

#### **Occurred Workflow**

<u>Quarter</u>	Discovered Workflow	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
2023 Q3	Before Simulation	94%	3%							3%	100%
	Pre-planning Imaging and Simulation	44%	47%	3%		2%	1%			2%	100%
	Treatment Planning	9%	29%	57%	3%	1%	1%			1%	100%
	Pre-Treatment QA Review	9%	14%	46%	28%	0%			0%	3%	100%
	Treatment Delivery Including Imaging	2%	6%	22%	12%	50%	1%		1%	7%	100%
	On-Treatment QA	3%	3%	8%	2%	22%	60%	0%		1%	100%
	After Treatment Course is Finished	5%	7%	17%	12%	17%	19%	24%			100%
	Equipment and Software QA								100%		100%
	Outside the Radiation Therapy Workflow or Other	2%		1%		4%	1%	1%		91%	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", X% occurred "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%.

#### 100% Quarter Mild Moderate Severe 82% 2018 Q1 16% 2% 2018 Q2 2% 85% 13% 84% 14% 3% 2018 Q3 80% 2% 2018 Q4 83% 15% 2% 2019 Q1 83% 15% 76% 2019 Q2 81% 16% 2% **77%** 80% 80% **%6**L 81% 80% 81% 81% 80% 81% 81% 82% 82% 82% 83% 83% 84% 84% 84% 84% 60% 85% 86% 1% 2019 Q3 86% 12% 3% 81% 17% 2019 Q4 80% 17% 4% 2020 Q1 2020 Q2 4% 76% 20% 40% 2020 Q3 77% 20% 3% 2% 16% 2020 Q4 81% 3% 2021 Q1 79% 18% 3% 81% 16% 2021 Q2 20% 20% 3% 2021 Q3 80% 18% 20% 17% 18% 18% 17% 16% 17% 18% 16% 16% 16% 15% 16% 14% 15% 16% 15% 14% 14% 15% 13% 2% 12% 2021 Q4 80% 17% 2022 Q1 84% 14% 2% 0% 2022 Q2 82% 2% 15% 2021 Q4 2018 Q2 2018 Q3 2018 Q4 2019 Q4 2020 Q2 2020 Q3 2021 Q3 2022 Q1 2022 Q4 2023 Q2 2020 Q1 2020 Q4 2019 Q1 2019 Q2 2019 Q3 2021 Q1 2021 Q2 2022 Q2 2022 Q3 2023 Q1 2023 Q3 2018 Q1 2022 Q3 81% 16% 3% 2% 2022 Q4 84% 14% 2023 Q1 15% 2% 84% 2% 2023 Q2 82% 16%

**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.

Mild

Moderate

Severe

2%

2023 Q3

80%

18%