

# AGGREGATE DATA REPORT Quarter 1, 2023 January 1 - March 31, 2023

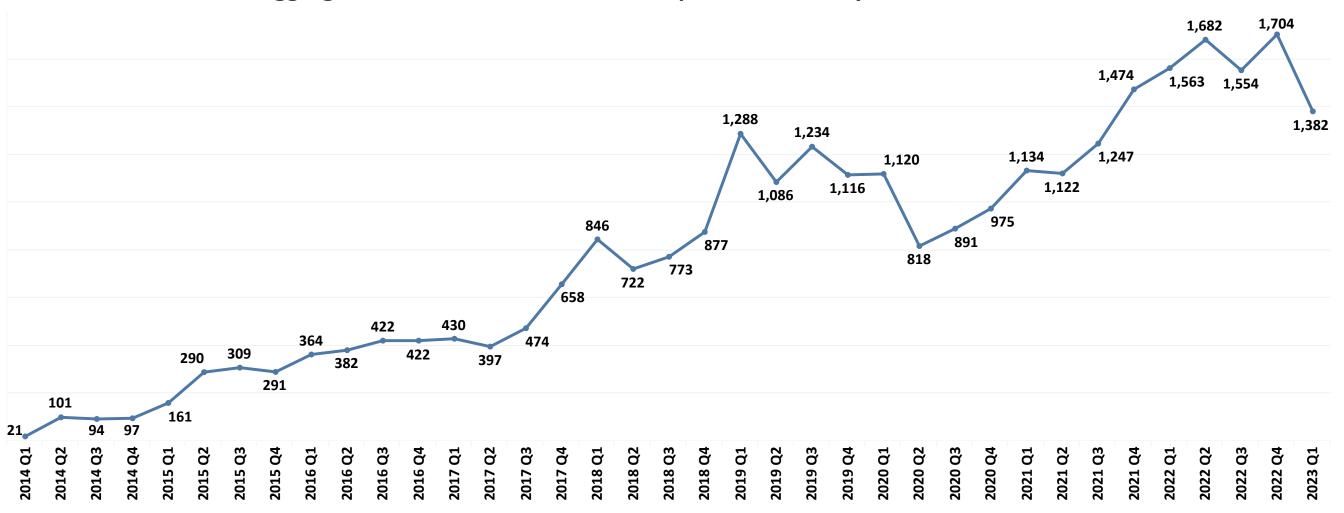
## **Patient Safety Work Product**

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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.

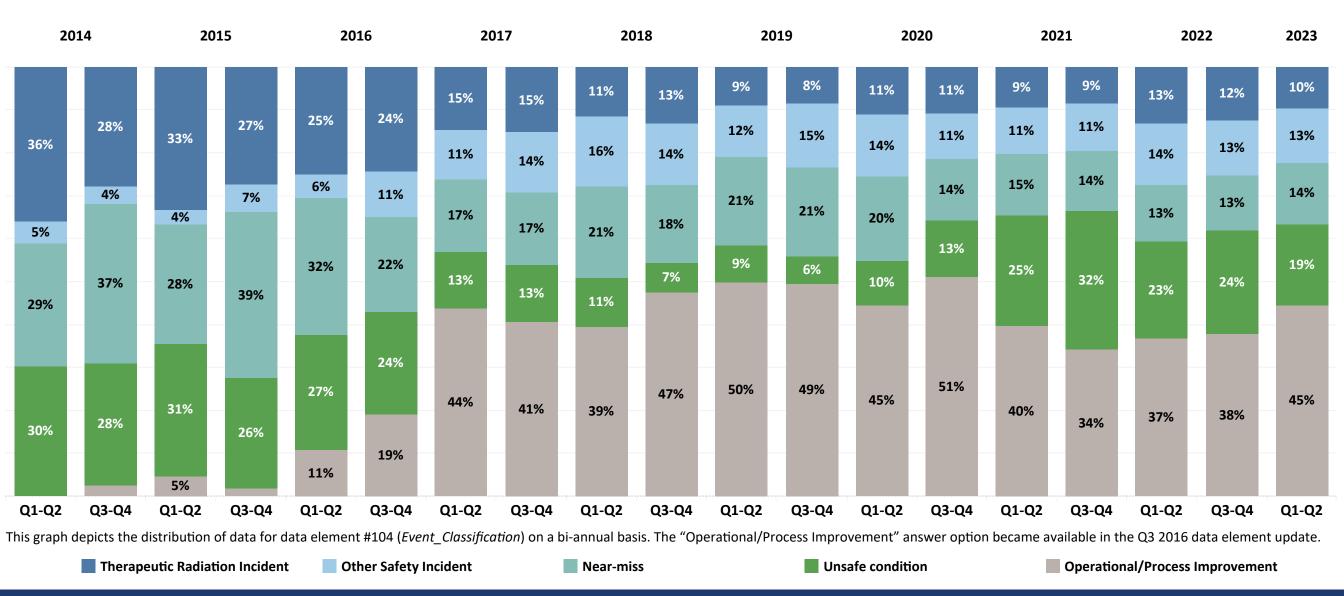
METRIC	Q4 2022	Q1 2023	AGGREGATE HISTORICAL SUM				
Total Number Of Events	1704	1382	29521				
Therapeutic Radiation Incident	194	134	3730				
Other Safety Incident	186	175	3671				
Near Miss	214	197	5217				
Unsafe Condition	440	261	5376				
Operational/Process Improvement	670	615	11527				
Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging 31%	Treatment Delivery Including Imaging 28%	Treatment Delivery Including Imaging 30%				
	(522/1704)	(387/1382)	(8722/29521)				
Most Commonly Identified Workflow Step Where Event was Discovered	Treatment Delivery Including Imaging 28% (474/1704)	Treatment Delivery Including Imaging 29% (404/1382)	Treatment Delivery Including Imaging 29% (8628/29521)				
	IMRT/VMAT	IMRT/VMAT	IMRT/VMAT				
Most Commonly Identified Treatment Technique	38% (654/1704)	41% (571/1382)	35% (10202/29521)				
Most Commonly Identified Dose Deviation for	≤ 5% maximum dose deviation to target	≤ 5% maximum dose deviation to target	≤ 5% maximum dose deviation to target				
Therapeutic Radiation Incidents that Did Not Effect Multiple Patients	64% (49/76)	77% (40/52)	82% (1426/1744)				



#### 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%	22%	21%	15%	4%	1%	1%	0%	40%
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%	31%	14%	28%	8%	4%	2%	10%	0%
2019	15%	16%	31%	18%	26%	10%	5%	2%	7%	0%
2020	13%	15%	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	8%	14%	27%	14%	28%	6%	1%	1%	14%	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%	6%	5%	33%	12%	7%	3%	1%	0%	30%
2015	2%	6%	5%	25%	26%	11%	4%	1%	0%	18%
2016	4%	6%	7%	21%	30%	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%	
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%	8%	17%	28%	23%	2%	1%	11%	
2023	3%	7%	12%	17%	29%	16%	2%	0%	13%	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.

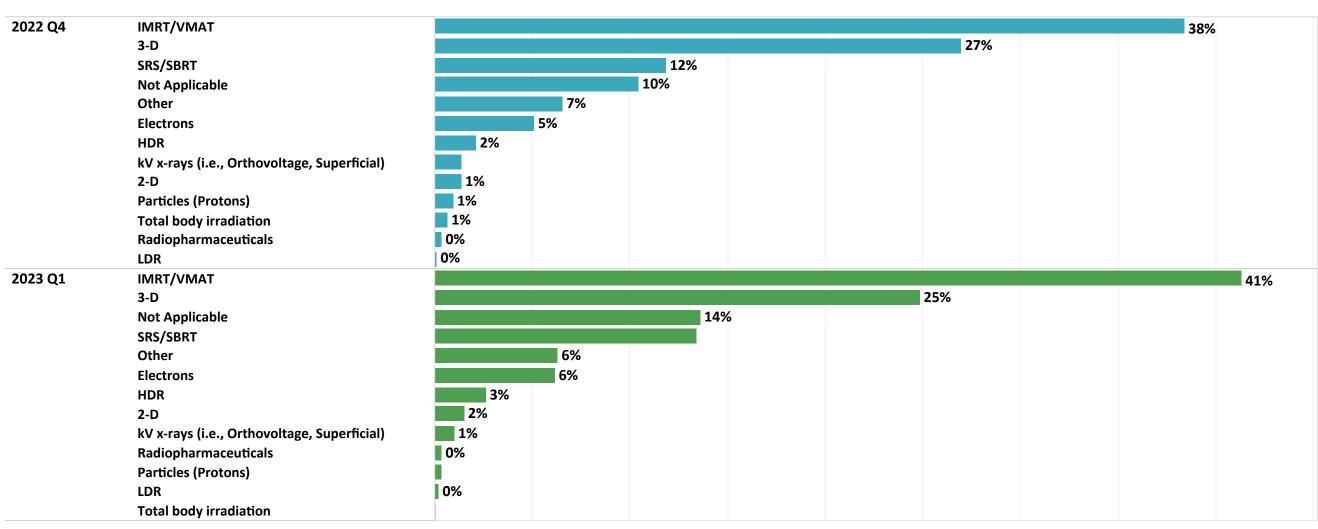
#### Aggregate: Workflow Step Where Event Occurred & Event Discovered

#### **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 Q1	Before Simulation	86%	9%							5%	100%
	Pre-planning Imaging and Simulation	33%	60%	5%		1%				1%	100%
	Treatment Planning	5%	36%	58%	1%					1%	100%
	Pre-Treatment QA Review	4%	13%	45%	33%	2%		0%		2%	100%
	Treatment Delivery Including Imaging	1%	4%	23%	17%	48%	1%	1%	0%	4%	100%
	On-Treatment QA	1%	1%	7%	5%	55%	29%		0%	1%	100%
	After Treatment Course is Finished	2%	2%	7%	17%	22%	20%	29%			100%
	Equipment and Software QA	14%	14%						71%		100%
	Outside the Radiation Therapy Workflow or Other	3%	3%	3%		2%	1%	1%	1%	88%	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%.

#### **Aggregate: Significance Scale**

100%																						Quarter	Mild	Moderate	Severe
																						2018 Q1	82%	16%	2%
																						2018 Q2	85%	13%	2%
80%																						2018 Q3	84%	14%	3%
																						2018 Q4	83%	15%	2%
																						2019 Q1	83%	15%	2%
60%	82%	*	%	83%	83%	81%	<b>v</b>	80%	79%	75%	78%	81%	79%	81%	80%	80%	83%	83%	81%	%	82%	2019 Q2	81%	16%	2%
00/0	8	85%	84%	8	83	õ	86%	õ				<b>∞</b>	~	òò	õ	õ	83	83	òò	83%	82	2019 Q3	86%	12%	2%
																						2019 Q4	80%	17%	3%
																						2020 Q1	79%	17%	4%
40%																						2020 Q2	75%	<b>21%</b>	4%
																						2020 Q3	78%	20%	3%
																						2020 Q4	81%	16%	2%
20%					_	_				<b>\</b> 0												2021 Q1	79%	18%	3%
	%	<b>N</b> 0	%	%	%	16%		17%	17%	21%	20%	16%	18%	16%	18%	18%	%	%	17%	~	%	2021 Q2	81%	16%	3%
	16%	13%	14%	15%	15%	16	12%	1	-		2	16	Ĥ	1(	Ŧ	18	15%	15%	11	15%	16%	2021 Q3	80%	18%	3%
0%																						2021 Q4	80%	18%	2%
	<b>Q1</b>	Q2	<u>Q</u> 3	Q4	Q1	Q2	G	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	<b>01</b>	Q2	Q3	Q4	Q1	2022 Q1	83%	15%	2%
	2018	2018	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3	2019 Q4	2020 Q1	2020 Q2	2020 Q3	2020 Q4	2021 Q1	2021	2021 Q3	2021	2022	2022	2022 Q3	2022	2023	2022 Q2	83%	15%	2%
	5	5(	5(	5(	5	2(	5(	5(	5	5(	5	5(	5(	5(	5(	5	5	5	5(	5	5	2022 Q3	81%	17%	3%
This gra	oh sho	ws the f	requen	cy of ar	nswers fo	or data	elemen	t #225 (	Signific	ance_Sc	<i>ale</i> ) wh	nich asks	s, "In tei	rms of r	isk to pa	atient sa	afety, ho	ow signi	ificant v	vas this		2022 Q4	83%	15%	2%
event?"	This graph shows the frequency of answers for data element #225 ( <i>Significance_Scale</i> ) 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.												2023 Q1	82%	16%	2%									

Mild

Moderate

Severe