

AGGREGATE DATA REPORT Quarter 2, 2023 April 1 - June 30, 2023

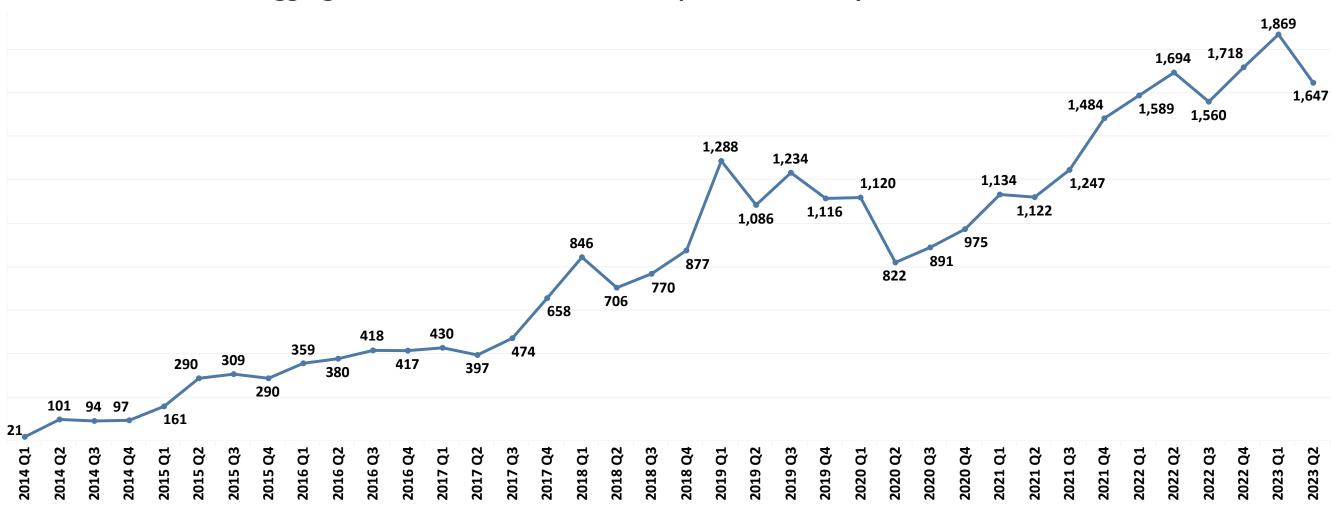
Patient Safety Work Product

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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.

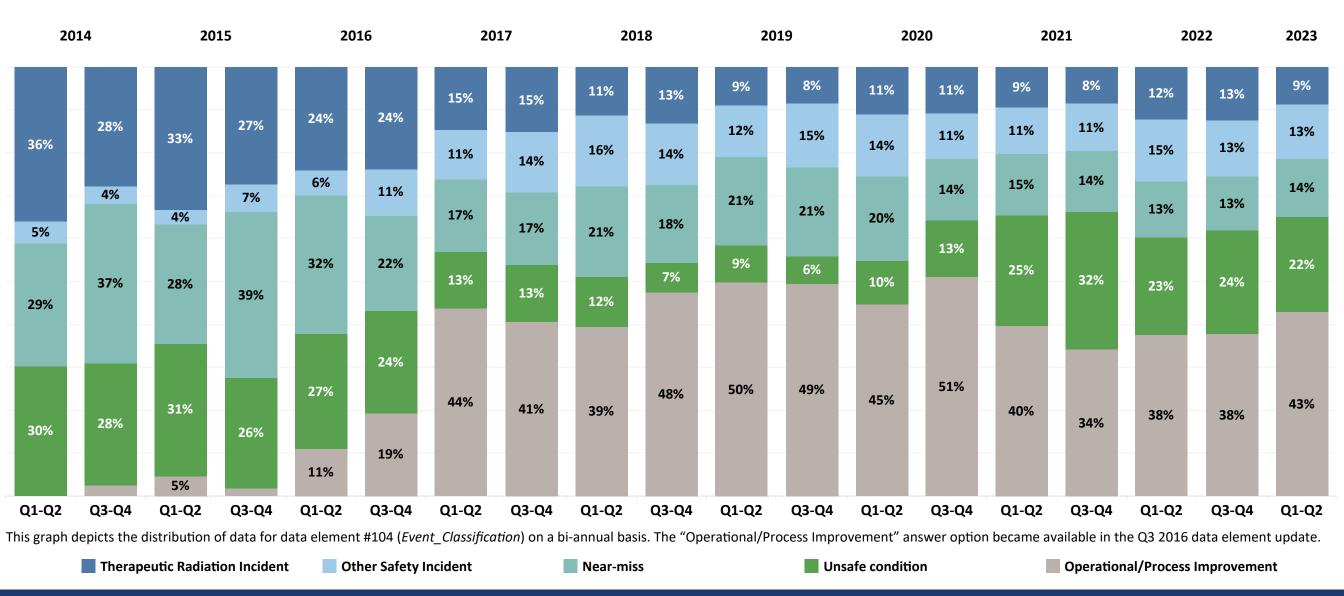
METRIC	Q1 2023	Q2 2023	AGGREGATE HISTORICAL SUM
Total Number Of Events	1869	1647	31691
Therapeutic Radiation Incident	171	134	3866
Other Safety Incident	225	219	3948
Near Miss	257	218	5505
Unsafe Condition	416	370	5907
Operational/Process Improvement	800	706	12465
Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging 30% (565/1869)	Treatment Delivery Including Imaging 34% (552/1647)	Treatment Delivery Including Imaging 30% (9452/31691)
Most Commonly Identified Workflow Step Where Event was Discovered	Treatment Delivery Including Imaging 27% (511/1869)	Treatment Delivery Including Imaging 28% (469/1647)	Treatment Delivery Including Imaging 29% (9202/31691)
Most Commonly Identified Treatment Technique	IMRT/VMAT 41% (775/1869)	IMRT/VMAT 42% (699/1647)	IMRT/VMAT 35% (11123/31691)
Most Commonly Identified Dose Deviation for Therapeutic Radiation Incidents that Did Not Effect Multiple Patients	≤ 5% maximum dose deviation to target 75% (53/71)	≤ 5% maximum dose deviation to target 64% (39/61)	≤ 5% maximum dose deviation to target 81% (1473/1822)



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%	7%	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%	
2023	9%	11%	25%	11%	32%	7%	1%	0%	13%	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%	29%	9%	3%	1%	3%	18%
2017	5%	6%	9%	25%	32%	10%	4%	3%	6%	0%
2018	4%	4%	12%	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%	0%
2023	4%	8%	9%	17%	28%	21%	2%	0%	11%	0%
	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning Pr	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.

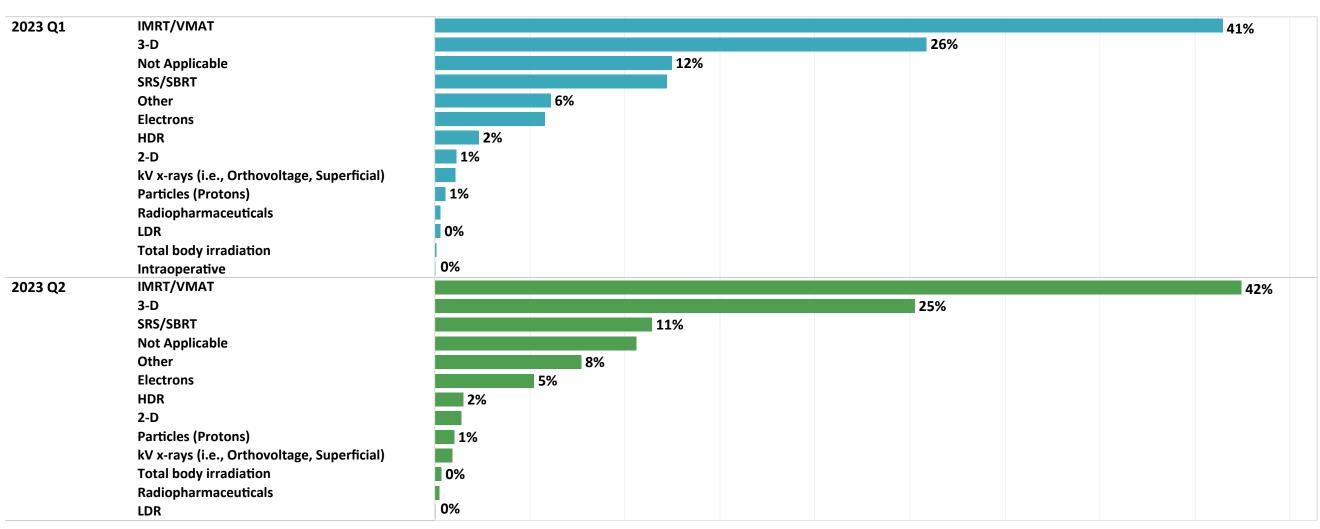
Aggregate: Workflow Step Where Event Occurred & Event Discovered

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 Q2	Before Simulation	96%	3%							1%	100%
	Pre-planning Imaging and Simulation	57%	38%	3%		1%				1%	100%
	Treatment Planning	4%	30%	61%	1%	2%				2%	100%
	Pre-Treatment QA Review	4%	9%	55%	29%	1%	1%			1%	100%
	Treatment Delivery Including Imaging	2%	6%	22%	11%	51%	2%	1%		6%	100%
	On-Treatment QA	1%	2%	5%	2%	68%	23%	0%			100%
	After Treatment Course is Finished			15%	3%	36%	15%	30%			100%
	Equipment and Software QA					17%			50%	33%	100%
	Outside the Radiation Therapy Workflow or Other		3%	3%	1%	4%	2%		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%
CO 0/	%		\ 0	~	~	%		%	79%	75%	78%	%	79%	%	80%	80%	\ 0	%	%	>	\ 0	%	2019 Q2	81%	16%	2%
60%	82%	85%	84%	83%	83%	81%	86%	80%	76		7	81%	79	81%	80	80	84%	83%	81%	83%	83%	81%	2019 Q3	86%	12%	2%
							~																2019 Q4	80%	17%	3%
																							2020 Q1	79%	17%	4%
40%			-																			-	2020 Q2	75%	21%	4%
																							2020 Q3	78%	20%	3%
																							2020 Q4	81%	16%	2%
200/																							2021 Q1	79%	18%	3%
20%									\ 0	21%	>												2021 Q2	81%	16%	3%
	16%	13%	14%	15%	15%	16%	%	17%	17%	21	20%	16%	18%	16%	18%	17%	14%	5%	16%	15%	15%	17%	2021 Q3	80%	18%	3%
0%	-	÷,	÷.	÷.	÷.	-	12%										÷.	÷.		ŧ	÷	7	2021 Q4	80%	17%	2%
0%	_		~	-			~		_		~	_			~	_	_		~				2022 Q1	84%	14%	2%
	g d1	3 Q2	ğ	ð	0 Q1	02	ö	ð	õ	0 Q2	ö	ð	ğ	ğ	<u>0</u> 3	ð	01	: Q2	ö	: Q4	1 Q1	03 02	2022 Q2	83%	15%	2%
	2018	2018	2018 Q3	2018 Q4	2019	2019	2019 Q3	2019 Q4	2020 Q1	2020	2020 Q3	2020 Q4	2021 Q1	2021 Q2	2021	2021 Q4	2022	2022	2022 Q3	2022	2023	2023	2022 Q3	81%	16%	3%
	2	2	2	7	7	2	2	7	7	7	8	8	7	7	2	0	7	2	2	7	2	7	2022 Q4	83%	15%	2%
This gra	oh shov	ws the f	reque	ncy of a	nswer	s for da	ta elem	ent #22	25 (Sign	ificance	_Scale)	which	asks, "I	n term	s of risk	to pati	ent safe	ety, ho	w signifi	icant w	as this		2023 Q1	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 Q2	81%	17%	2%										



Moderate

Severe