



# **AGGREGATE DATA REPORT**

## **Patient Safety Work Product**

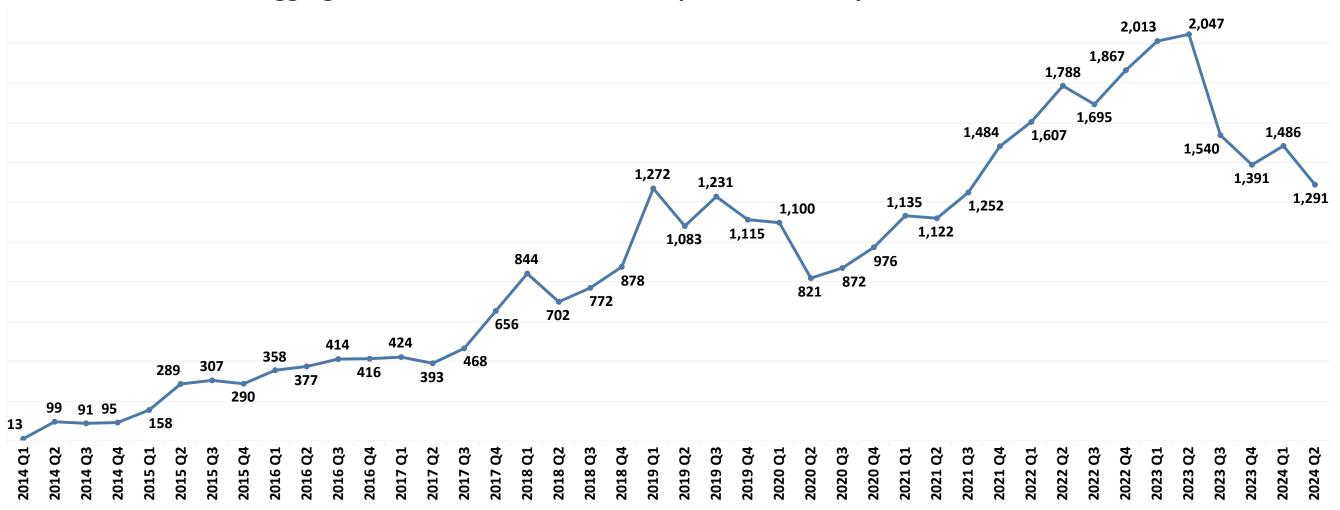
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### **Aggregate Report Card**

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.

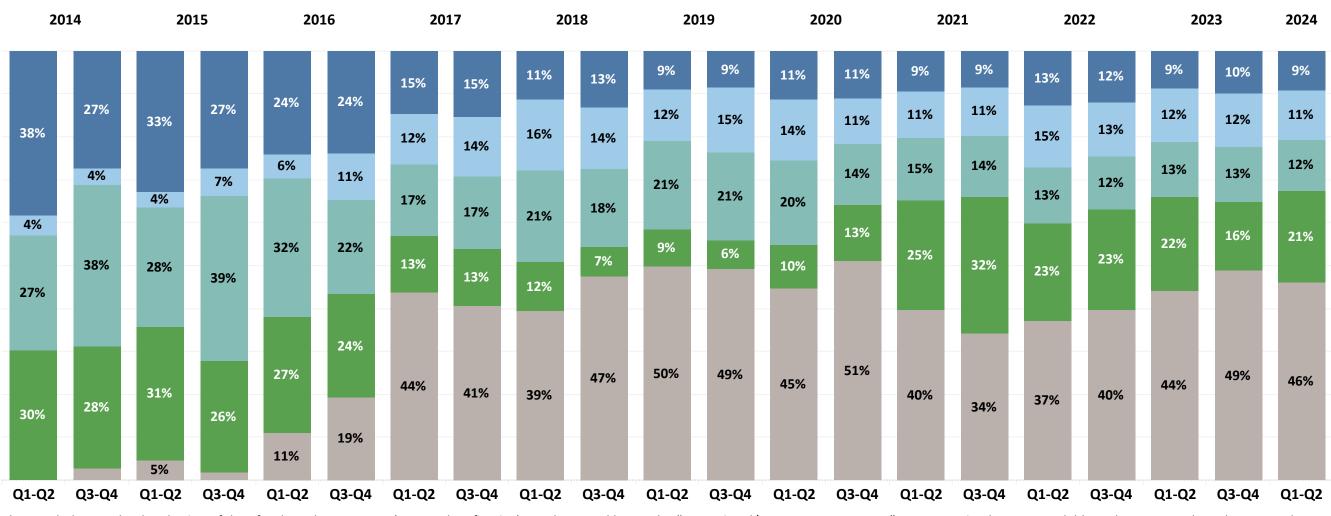
METRIC	Q1 2024	Q2 2024	AGGREGATE HISTORICAL SUM
Total Number Of Events	1486	1291	38232
Therapeutic Radiation Incident	134	123	4501
Other Safety Incident	179	137	4713
Near Miss	172	162	6280
Unsafe Condition	304	288	7119
Operational/Process Improvement	697	581	15619
Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging 29% (435/1486)	Treatment Delivery Including Imaging 31% (396/1291)	Treatment Delivery Including Imaging 29% (11206/38232)
Most Commonly Identified Workflow Step Where Event was Discovered	Treatment Delivery Including Imaging 28% (417/1486)	Treatment Delivery Including Imaging 31% (398/1291)	Treatment Delivery Including Imaging 29% (11127/38232)
	IMRT/VMAT	IMRT/VMAT	IMRT/VMAT
Most Commonly Identified Treatment Technique	41% (607/1486)	41% (529/1291)	37% (14015/38232)
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	89% (57/64)	83% (49/59)	80% (1706/2124)

#### **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**



This graph depicts the distribution of data for data element #104 (Event\_Classification) on a bi-annual basis. The "Operational/Process Improvement" answer option became available in the Q3 2016 data element update.

Therapeutic Radiation Incident Other Safety Incident Near-miss Unsafe condition Operational/Process Improvement

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

	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning	Pre-Treatment QA Review		On-Treatment QA	After Treatment Course is Finished	Equipment and Software QA	Outside The Radiation Therapy Workflow Or Other	Unanswered
2024	12%	15%	22%	12%	30%	7%	2%	1%	11%	0%
2023	10%	13%	26%	11%	28%	8%	1%	0%	12%	0%
2022	9%	10%	22%	13%	31%	9%	1%	1%	12%	0%
2021	9%	12%	25%	12%	41%	7%	1%	1%	4%	0%
2020	13%	14%	36%	16%	24%	8%	1%	1%	5%	0%
2019	14%	16%	31%	18%	26%	10%	5%	2%	7%	0%
2018	8%	15%	31%	14%	28%	7%	4%	2%	10%	0%
2017	9%	12%	30%	15%	26%	6%	3%	3%	7%	0%
2016	9%	9%	25%	12%	24%	4%	1%	1%	3%	18%
2015	6%	9%	34%	18%	25%	5%	1%	2%	0%	17%
2014	6%	8%	21%	20%	15%	4%	1%	0%	0%	42%

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	4%	7%	10%	18%	29%	19%	2%	0%	10%	0%
2024	5%	8%	10%	16%	29%	18%	3%	1%	9%	0%
	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning P	re-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

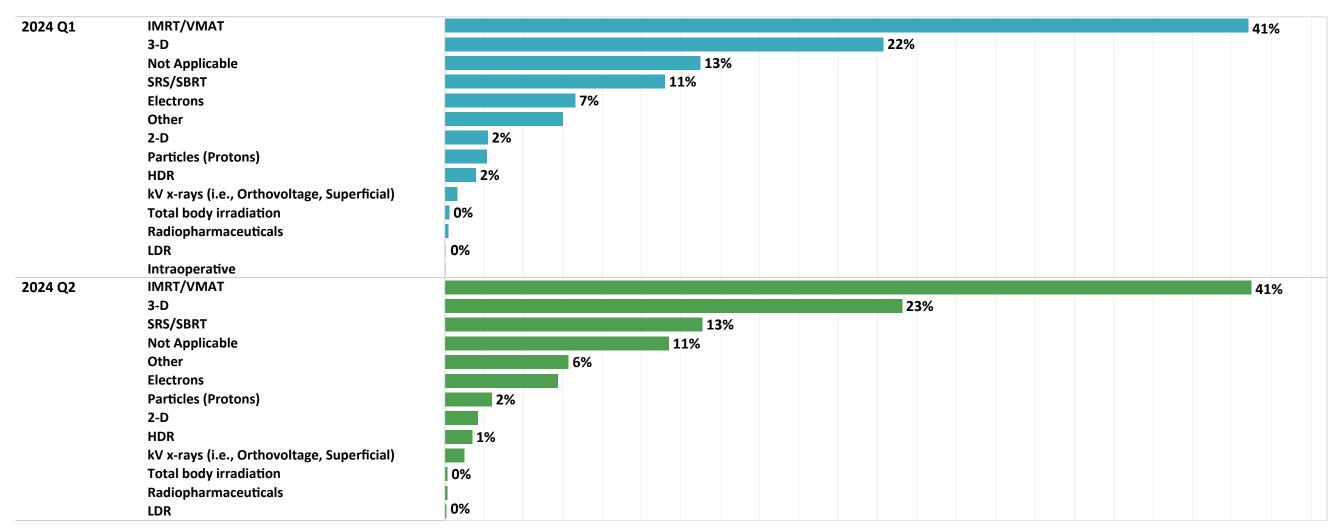
This data is based on data element #207 (*Discovered\_Workflow*), presented in yearly increments. As a part of the Q3 2016 data element update, this question became required and an answer option of "Outside the Radiation therapy Workflow or Other" was added.

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

#### **Occurred Workflow Outside The Treatment** After **Pre-planning** Radiation Pre-Equipment Treatment Before Delivery **On-Treatment Treatment Treatment QA Quarter Discovered Workflow** Imaging and and Software Therapy **Grand Total Planning** Including **Course is** QA Simulation Simulation Review QA **Workflow Or Imaging** Finished Other 2024 Q2 **Before Simulation** 94% 4% 1% 1% 100% 2% 2% 2% **Pre-planning Imaging and Simulation** 4% 39% 52% 100% **Treatment Planning** 9% 43% 43% 3% 1% 1% 100% 2% 44% 41% 2% **Pre-Treatment QA Review** 9% 3% 100% 18% 10% 59% 1% 0% 4% 100% **Treatment Delivery Including Imaging** 2% 7% 2% 9% 5% 43% 38% 0% **On-Treatment QA** 1% 0% 100% **After Treatment Course is Finished** 3% 5% 13% 30% 10% 38% 3% 100% 8% 8% 85% 100% **Equipment and Software QA** 3% 9% 1% **Outside the Radiation Therapy Workflow or Other** 3% 1% 1% 1% 82% 100%

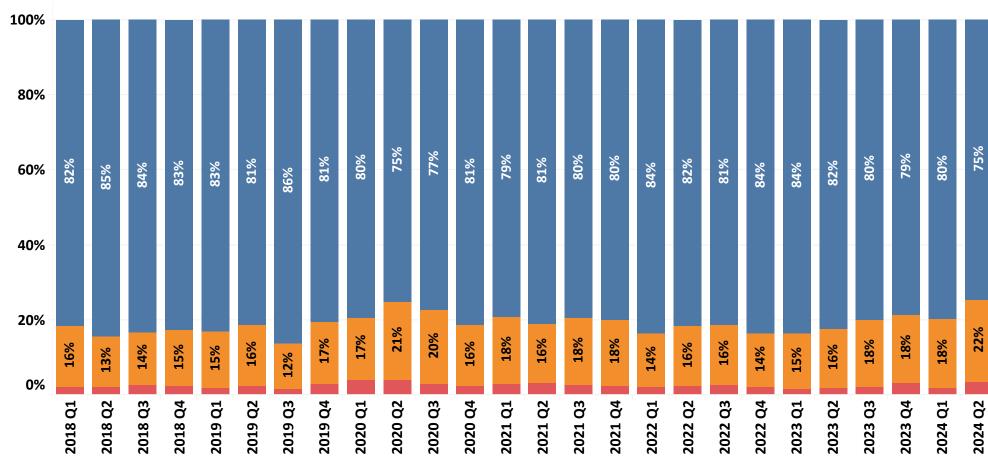
This graph displays the overlap of where in the workflow events occurred (208. Occurred\_Workflow) and where it was discovered (207. Discovered\_Workflow) for the most recent quarter. The percentage is based on the total number of events that were discovered in that workflow step (e.g., of events that 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%.

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



Quarter	Mild	Moderate	Severe
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%	1%
2019 Q4	81%	17%	3%
2020 Q1	80%	17%	4%
2020 Q2	<b>75</b> %	21%	4%
2020 Q3	77%	20%	3%
2020 Q4	81%	16%	2%
2021 Q1	79%	18%	3%
2021 Q2	81%	16%	3%
2021 Q3	80%	18%	3%
2021 Q4	80%	18%	2%
2022 Q1	84%	14%	2%
2022 Q2	82%	16%	2%
2022 Q3	81%	16%	3%
2022 Q4	84%	14%	2%
2023 Q1	84%	15%	1%
2023 Q2	82%	16%	2%
2023 Q3	80%	18%	2%
2023 Q4	79%	18%	3%
2024 Q1	80%	18%	2%
2024 Q2	<b>75</b> %	22%	3%

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