



# AGGREGATE DATA REPORT

**Quarter 1, 2022** 

January 1 - March 31, 2022

# **Patient Safety Work Product**

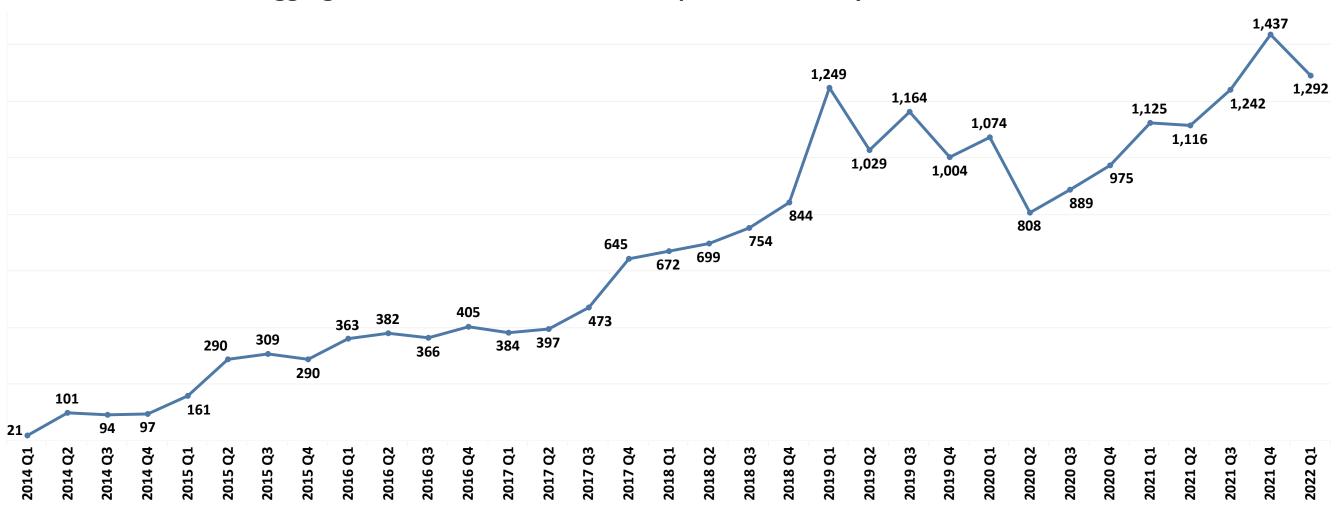
CLARITY PSO, a Division of Clarity Group, Inc. 8601 W Bryn Mawr Ave • Suite 110 • Chicago, IL 60631 T: 773.864.8280 • F: 773.864.8281 • www.claritypso.com

# **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.

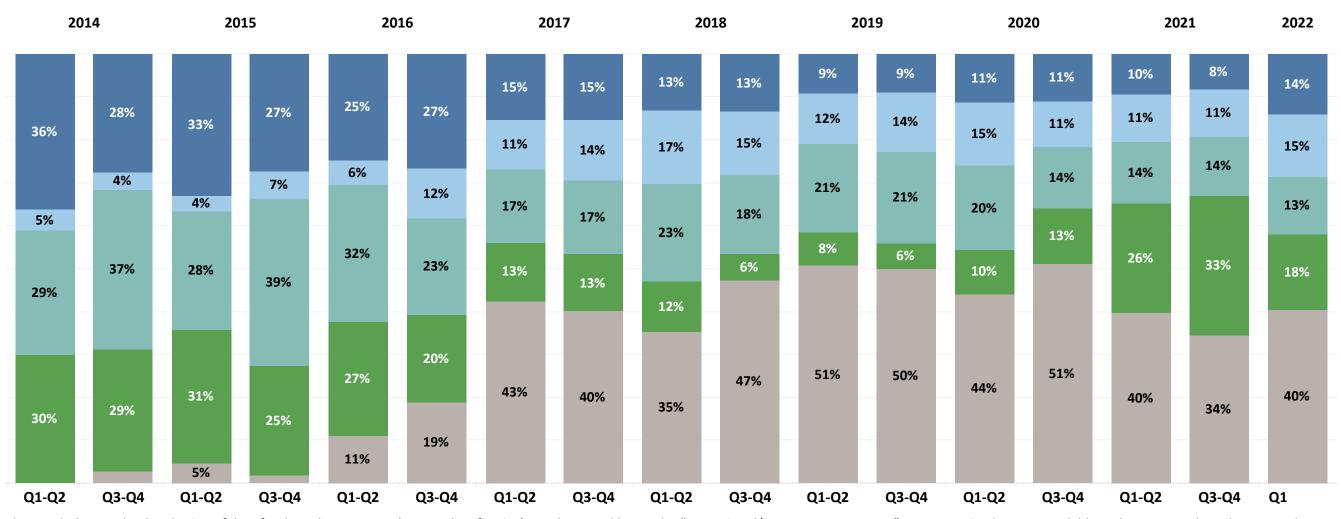
METRIC	Q4 2021	Q1 2022	AGGREGATE HISTORICAL SUM
Total Number Of Events	1437	1292	22151
Therapeutic Radiation Incident Other Safety Incident Near Miss Unsafe Condition	116 191 204 414	180 192 170 230	2918 2691 4244 3669
Operational/Process Improvement  Most Commonly Identified Workflow Step Where Event Occurred	Treatment Delivery Including Imaging  44% (635/1437)	520 Treatment Delivery Including Imaging 30% (390/1292)	8629  Treatment Delivery Including Imaging 30% (6607/22151)
Most Commonly Identified Workflow Step Where Event was Discovered	On-Treatment QA 32% (459/1437)	Treatment Delivery Including Imaging 32% (414/1292)	Treatment Delivery Including Imaging 30% (6742/22151)
Most Commonly Identified Treatment Technique	IMRT/VMAT 41% (595/1437)	IMRT/VMAT 42% (540/1292)	IMRT/VMAT 33% (7232/22151)
Most Commonly Identified Dose Deviation for Therapeutic Radiation Incidents that Did Not Effect Multiple Patients	≤ 5% maximum dose deviation to target 79% (38/48)	≤ 5% maximum dose deviation to target 78% (43/55)	≤ 5% maximum dose deviation to target  85% (1223/1439)

### **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.

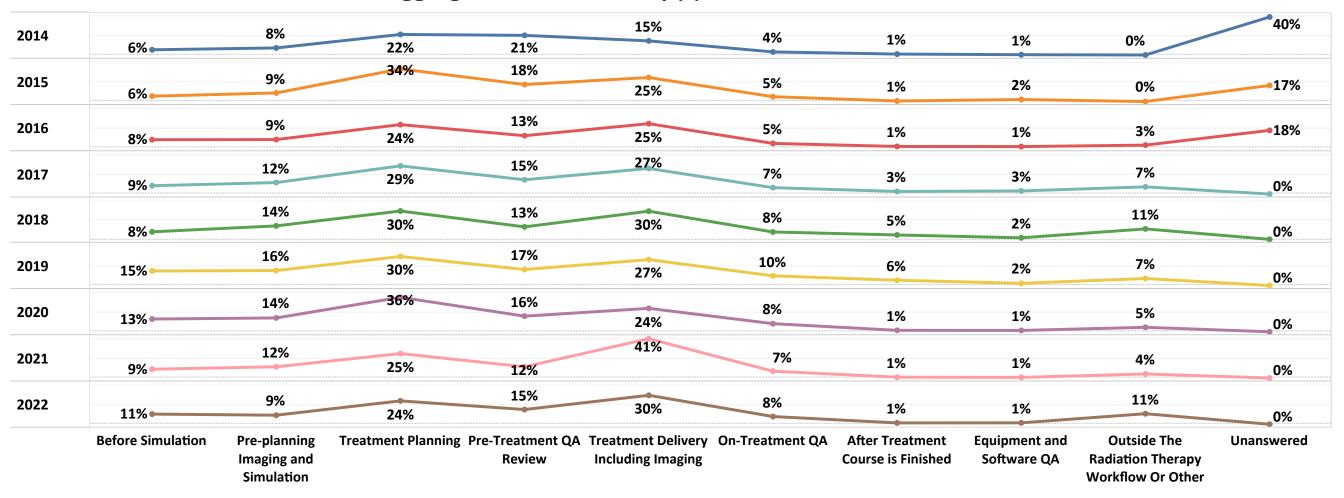
#### **Aggregate: Event Classification**



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**



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%	<b>4%</b>	1%	0%	18%
2016	4%	6%	7%	18%	30%	9%	3%	1%	3%	18%
2017	5%	6%	9%	23%	33%	10%	4%	3%	6%	0%
2018	5%	4%	12%	20%	35%	11%	6%	1%	6%	0%
2019	9%	6%	10%	19%	30%	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%	16%	32%	20%	2%	1%	11%	0%
	Before Simulation	Pre-planning Imaging and Simulation	Treatment Planning Pr	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.

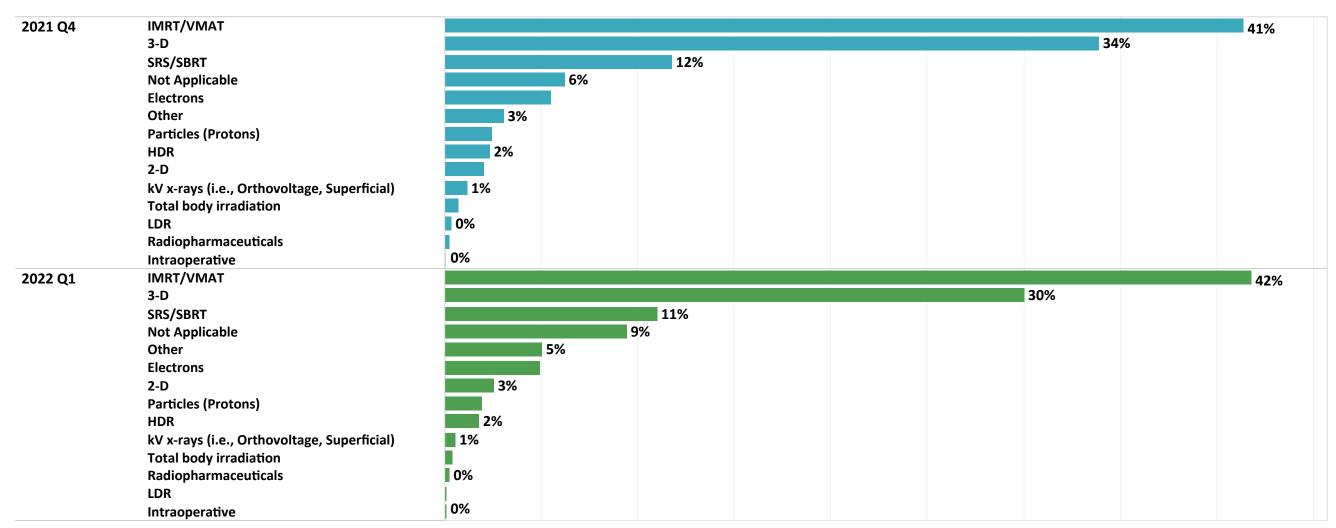
# **Aggregate: Workflow Step Where Event Occurred & Event Discovered**

#### **Occurred Workflow**

<u>Quarter</u>	<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
2022 Q1	Before Simulation	95%	4%							2%	100%
	Pre-planning Imaging and Simulation	62%	35%	1%						1%	100%
	Treatment Planning	4%	24%	67%	4%	1%	1%				100%
	Pre-Treatment QA Review	2%	13%	44%	39%	1%			0%	0%	100%
	Treatment Delivery Including Imaging	4%	5%	23%	18%	46%	1%	0%	1%	2%	100%
	On-Treatment QA		1%	5%	4%	54%	34%	1%	0%	0%	100%
	After Treatment Course is Finished		3%	14%	7%	17%	3%	52%		3%	100%
	Equipment and Software QA	7%	7%			7%			80%		100%
	Outside the Radiation Therapy Workflow or Other	1%	1%	4%	1%	1%	2%			89%	100%

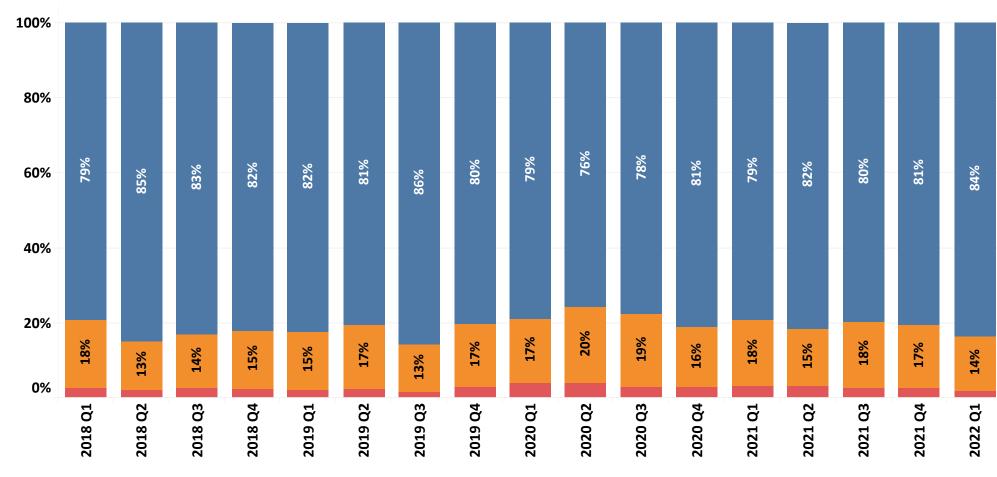
This graph displays the overlap of where in the workflow events occurred (208. Occurred\_Workflow) and where it was discovered (207. Discovered\_Workflow) for the most recent quarter. The percentage is based on the total number of events that were discovered in that workflow step (e.g., of events that 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	79%	18%	3%
2018 Q2	85%	13%	2%
2018 Q3	83%	14%	3%
2018 Q4	82%	15%	2%
2019 Q1	82%	15%	2%
2019 Q2	81%	17%	2%
2019 Q3	86%	13%	2%
2019 Q4	80%	17%	3%
2020 Q1	79%	<b>17</b> %	4%
2020 Q2	76%	20%	4%
2020 Q3	78%	19%	3%
2020 Q4	81%	16%	3%
2021 Q1	79%	18%	3%
2021 Q2	82%	15%	3%
2021 Q3	80%	18%	3%
2021 Q4	81%	17%	3%
2022 Q1	84%	14%	2%

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