American College of Radiology™

Dose Index Registry (DIR®) Training Webinar Series

Monitoring Performance with the DIR CT Administrative Aggregate Report

February 6, 2024

acr.org

Presenters and Panelists

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Sarah McKenney, PhD, DABR

Division Chief, Radiology Physics, Associate Professor, Division of Medical Physics, Department of Radiology, UC Davis Medical Center

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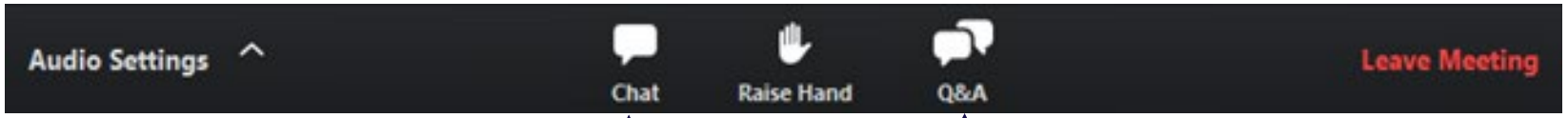
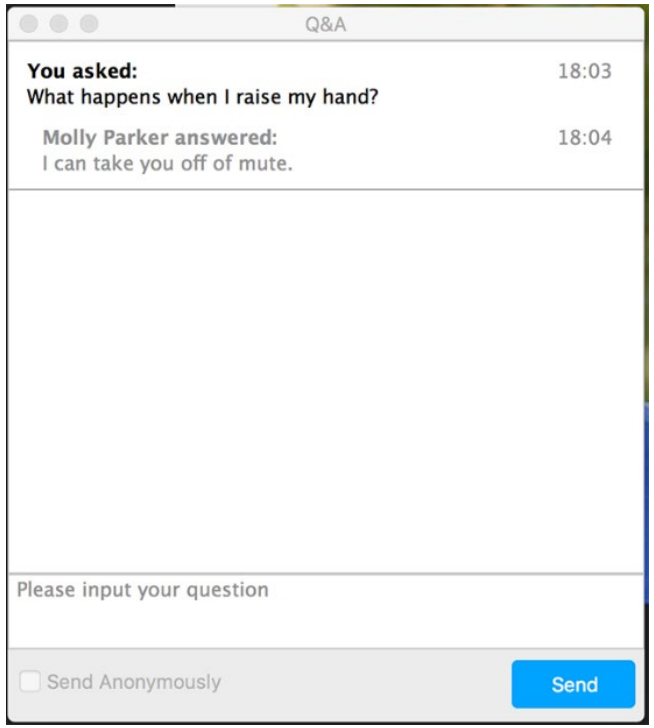
Attendee Zoom Interface



Type a question in Q&A (only seen by organizers)

Type a comment in the chat (only seen by organizers)



Questions can be entered in the Q&A field

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Dose Index Registry (DIR®) Training Webinar Series

This webinar is the second and final in this series:

- Jan. 31 | Dose Optimization Using the DIR CT Facility Comparison Report
- **Feb. 6 | Monitoring Performance with the DIR CT Administrative Aggregate Report**

The webinars will be recorded and distributed afterwards.

- Recordings will be posted on https://nrdrsupport.acr.org/support/solutions/articles/11000114744-dir-training-webinar-series

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Webinar Agenda

1. CT Administrative Aggregate Report Overview
    a. Access and Navigation
    b. New Report Structure as of December 2023
    c. Functionality
        a. Aggregate Comparisons, Trend Data, Short Name Lookups, Registry Statistics
2. CT Administrative Aggregate Report Use Cases
    a. CT QC Program – Protocol Review and Dose Optimization
    b. Implementation of a New Protocol – from Start to Finish
3. Recent DIR Improvements
    a. New Modality-Specific Registry Administrator Profiles
    b. New RPID/Text Search in Exam Name Mapping Tool
    c. Exam Name Mapping to Trauma Cases
4. Q&A
5. Wrap-up

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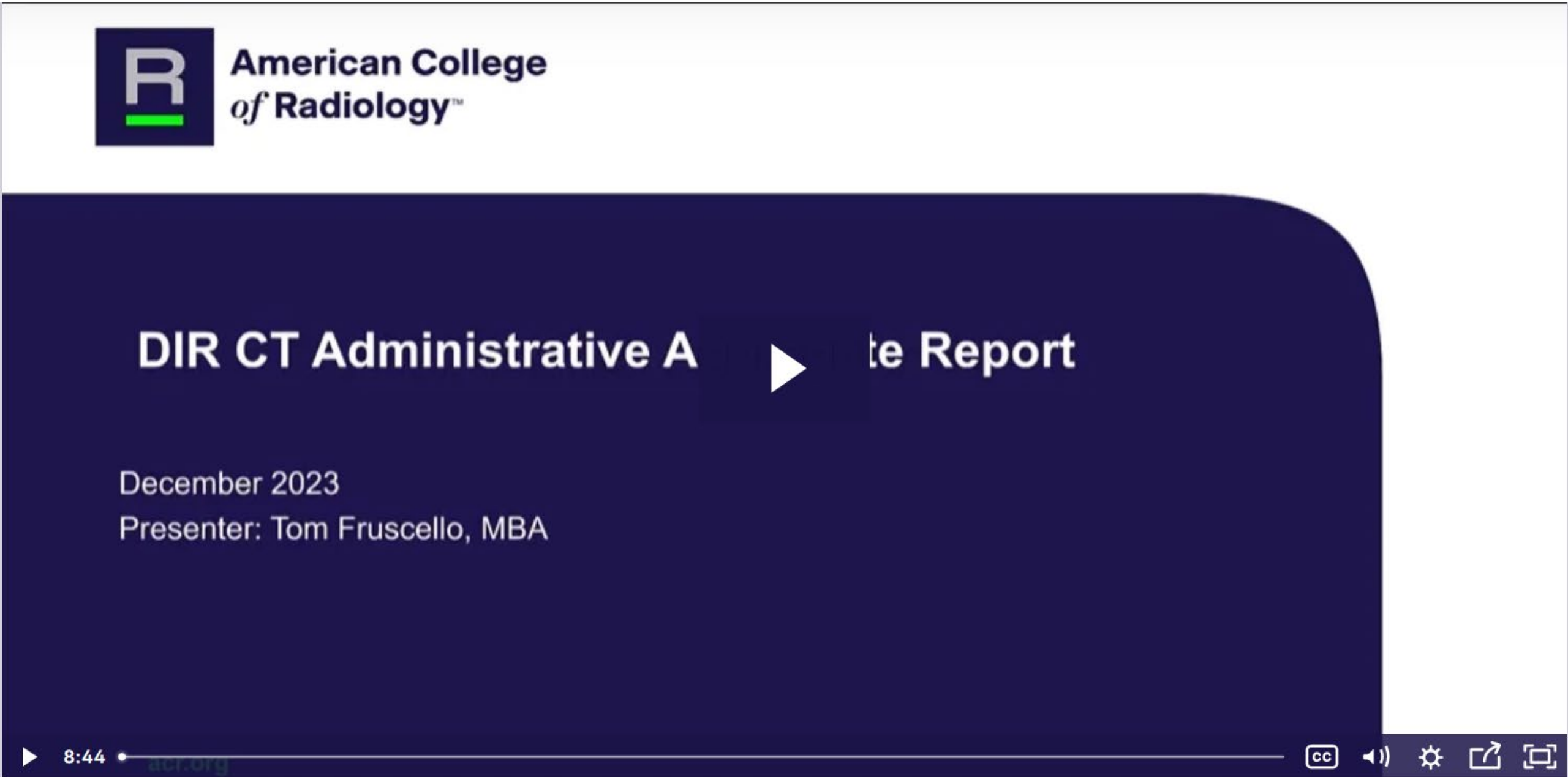
CT Administrative Aggregate Report - Overview



Knowledge Base Articles

https://nrdrsupport.acr.org

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NRDR Support Home › Knowledge Base › NRDR - Release Notes and Announcements

DIR CT Report Changes 2023

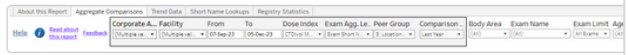
Modified on: Wed, 13 Dec, 2023 at 11:32 AM

Introduction

This article provides an overview of DIR CT report updates and new functionality that
December 2023 to make it more intuitive for you to review your facility's performance
opportunities for dose optimization. The changes also reduce the redundancy of infor
updates will occur in three phases as described below.

Phase 1: A New *CT Administrative Aggregate Report* Consolidates the *C*
Facility Excel Report and Adds New Features

- Timeline: December 20, 2023.
- User access: All NRDR user profiles have access to the report
- Major changes:
  - The *CT Administrative Aggregate Report* replaces the *Corporate Excel Report* ar
    provides new features, including:
    - Functionality to compare a single facility to a selected peer group and multipl
      registry
    - More flexible filter for selecting report timeframe
    - Filters to select the top 10 exams performed and comparison statistics.



Expanded filter options available in the *CT Administrative Aggregate Report*

  - Report access: The CT **Aggregate Report** link is available in two locations in the NR

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NRDR Support Home › Knowledge Base › NRDR - Understanding Your Reports › DIR Reports

DIR CT Administrative Aggregate R

Modified on: Mon, 8 Jan, 2024 at 2:42 PM

Report Purpose

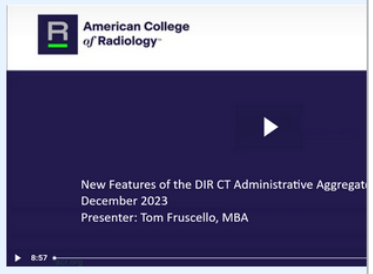
The *CT Administrative Aggregate Report* enables users to analyze performance and drive improveme
report provides insights about:

- How a facility's performance compares with the entire registry and with various peer groups, e
  location type, and census division
- Establishing site-specific radiation dose targets
- Opportunities for performance improvement
- Performance results after implementing changes.

The report is specially formatted for viewing and downloading aggregated dose performance data fo
report sharing.

Note: The *DIR CT Administrative Aggregate Report* released in December 2023 combines and replaces the *CT Corporate Excel Report* and *CT Facility Excel Report* plus adds new filters and functionality. View the video to learn what's new.

For information about other DIR CT report updates see the DIR CT Report Changes article.



How to Access

Log into the NRDR Portal and access the *CT Administrative Aggregate Report* in one of two ways:

NRDR
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NRDR Support Home › Knowledge Base › NRDR - Understanding Your Reports › DIR Reports

DIR Available Reports

Modified on: Thu, 18 Jan, 2024 at 1:00 PM

The following types of reports are available for the DIR:

- DIR CT Published Aggregate Reports
- DIR CT Operational Reports
- DIR CT Interactive Reports
- DIR Fluoroscopy Interactive Reports
- DIR Digital Radiography Interactive Reports

- To learn about navigating DIR report filters, parameters and other features, view the Knowledge Base article or video demos.
- Click the link in the Report column to access a Knowledge Base article with more report details and examples.

DIR CT Published Aggregate Reports

Report	What does the Report Show?	Frequency	Users
DIR Executive Summary Report and QCDR Preview	Aggregated statistics for adult and pediatric exams for facility compared to the entire registry, for selected high-volume exams. A sample Facility report is available here. A sample Corporate report is available here.	Quarterly	All

CT Administrative Aggregate Report

Combined from two previously existing reports

- Corporate Excel Report
- Facility Excel report

Intended Users

- Administrative staff (Managers and Lead CT QC Technologists)

Minimal download capabilities

- Individual exams CANNOT be downloaded

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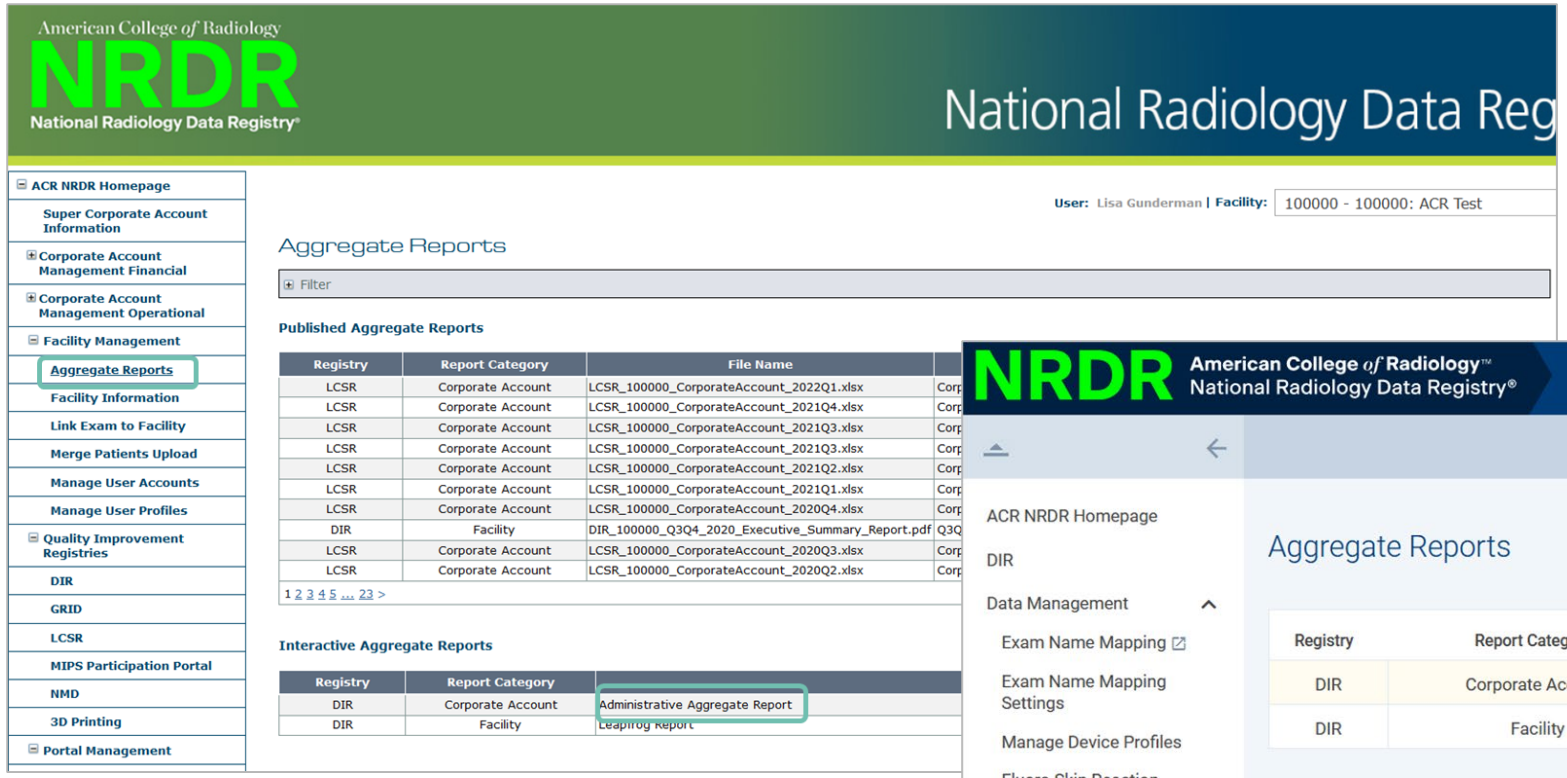
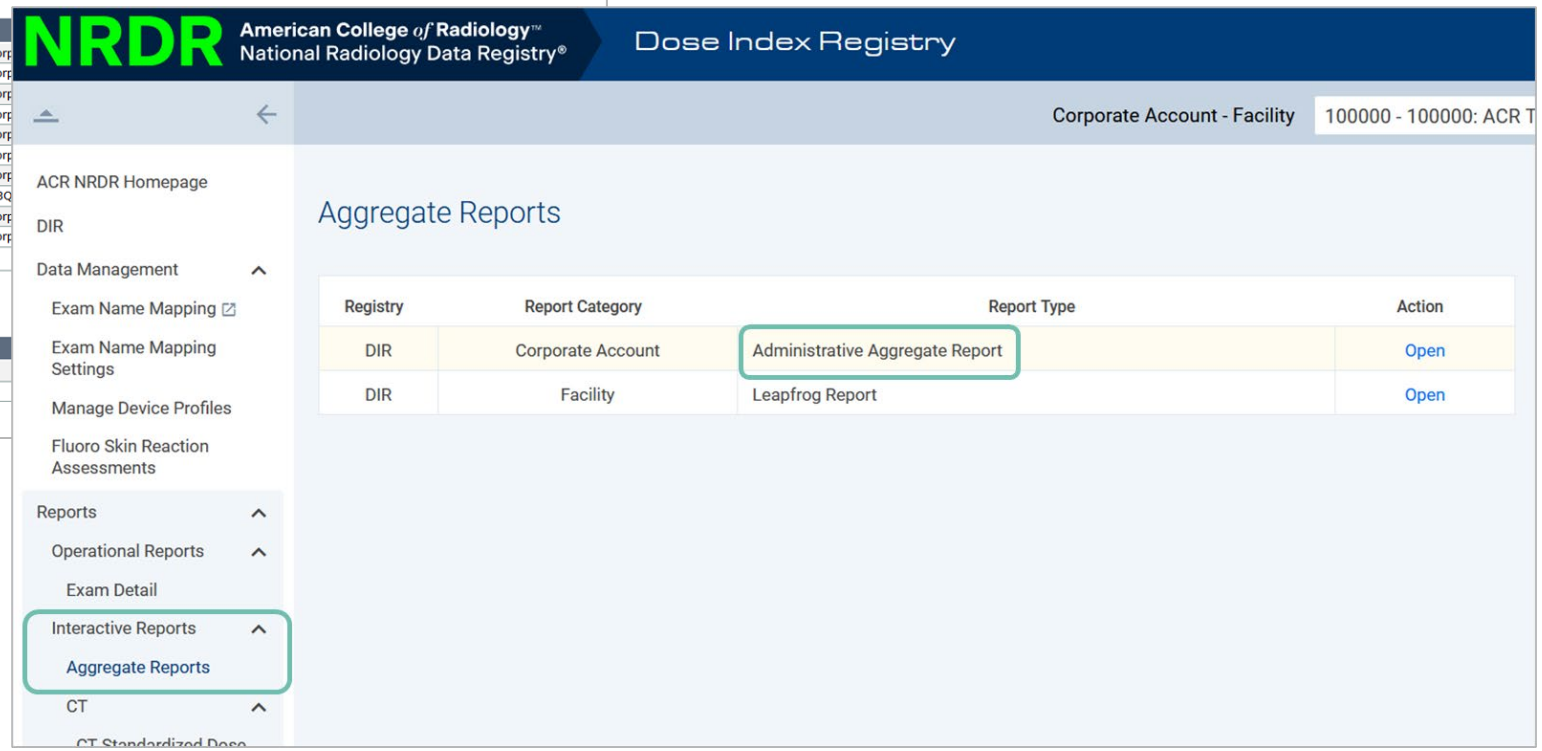
Navigating to the CT Administrative Aggregate Report

Accessible via the NRDR webpage and DIR menu



OR



Use Case: CT QC Program – Protocol Review and Dose Optimization

As part of the CT QC program, the CT committee periodically reviews protocols and identifies dose reduction opportunities.

Opportunities are evaluated and changes are approved and implemented.

After implementation, dose is tracked over time to illustrate and present dose reduction efforts back to the committee.

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 1

One aspect of protocol review is to compare your routine CT protocols' median $CTDI_{vol}$ values to DIR and ACR CTAP Reference Values.

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Examination	Reference Value $CTDI_{vol}$ (mGy)	Pass/Fail Criteria $CTDI_{vol}$ (mGy)
Adult Head	75	80
Adult Abdomen	25	30
Pediatric Head (1-year-old)	35	40
Pediatric Abdomen (40-50 lb.) - 16 cm phantom	15	20
Pediatric Abdomen (40-50 lb.) - 32 cm phantom	7.5	10

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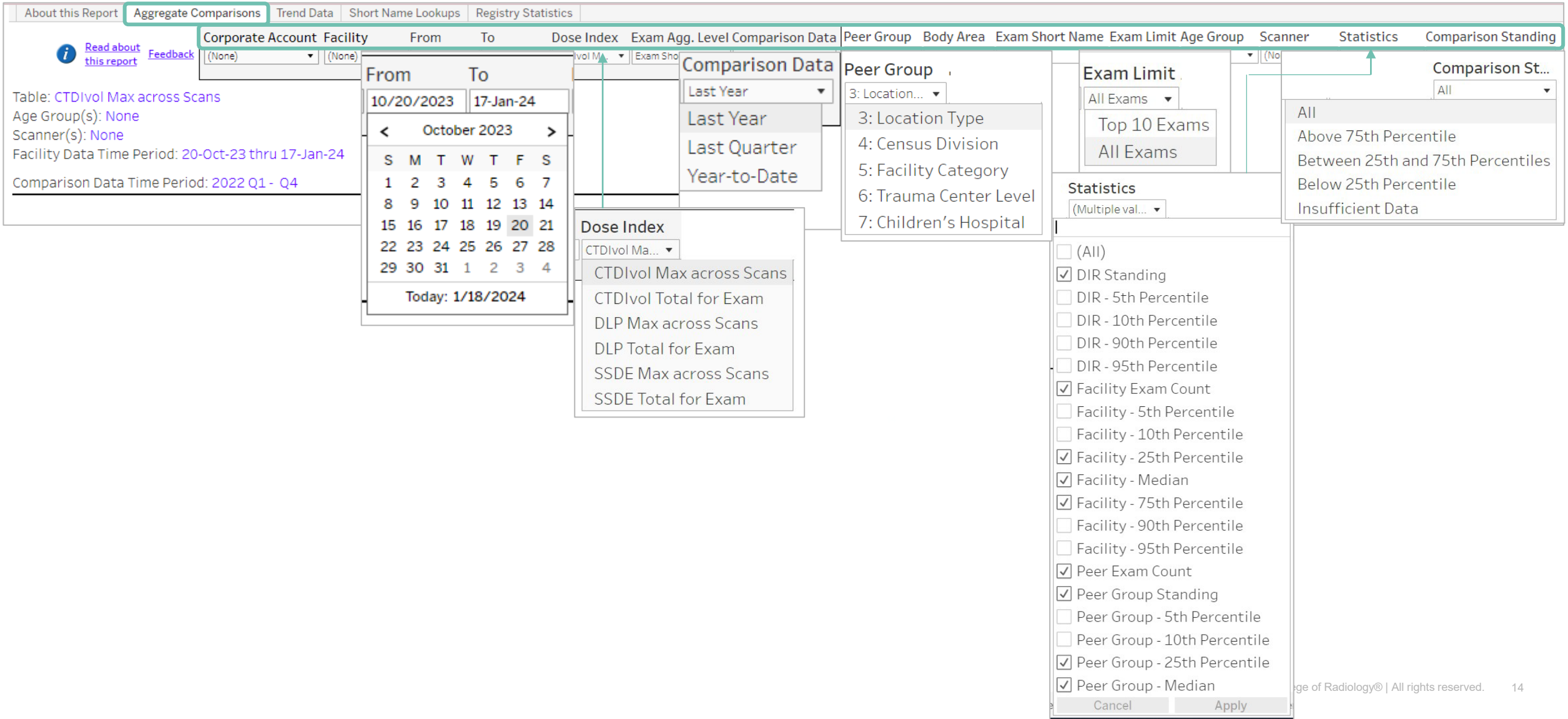
Use Case: CT QC Program – Protocol Review and Dose Optimization



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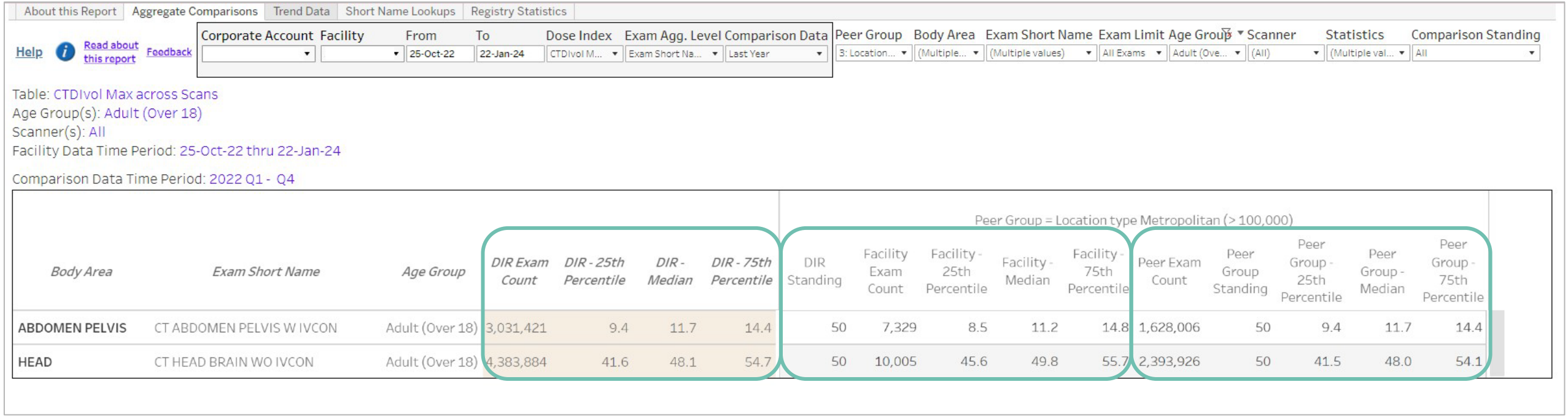
Use Case: CT QC Program – Protocol Review and Dose Optimization



About this Report | Aggregate Comparisons | Trend Data | Short Name Lookups | Registry Statistics

Help | Read about this report | Feedback

Corporate Account	Facility	From	To	Dose Index	Exam Agg. Level	Comparison Data	Peer Group	Body Area	Exam Short Name	Exam Limit	Age Group	Scanner	Statistics	Comparison Standing
		25-Oct-22	22-Jan-24	CTDIvol M...	Exam Short Na...	Last Year	3: Location...	(Multiple...	(Multiple values)	All Exams	Adult (Ove...	(All)	(Multiple val...	All

Table: CTDIvol Max across Scans
Age Group(s): Adult (Over 18)
Scanner(s): All
Facility Data Time Period: 25-Oct-22 thru 22-Jan-24

Comparison Data Time Period: 2022 Q1 - Q4

Body Area	*Exam Short Name*	*Age Group*	*DIR Exam Count*	*DIR - 25th Percentile*	*DIR - Median*	*DIR - 75th Percentile*	Peer Group = Location type Metropolitan (> 100,000)									
							DIR Standing	Facility Exam Count	Facility - 25th Percentile	Facility - Median	Facility - 75th Percentile	Peer Exam Count	Peer Group Standing	Peer Group - 25th Percentile	Peer Group - Median	Peer Group - 75th Percentile
ABDOMEN PELVIS	CT ABDOMEN PELVIS W IVCON	Adult (Over 18)	3,031,421	9.4	11.7	14.4	50	7,329	8.5	11.2	14.8	1,628,006	50	9.4	11.7	14.4
HEAD	CT HEAD BRAIN WO IVCON	Adult (Over 18)	4,383,884	41.6	48.1	54.7	50	10,005	45.6	49.8	55.7	2,393,926	50	41.5	48.0	54.1

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 1 Summary

- Aggregate Comparison dashboard can be used to review the performance of a particular protocol and age group based on a user-selected dose index.
  - Performance can be compared with the entire DIR or a selected peer group.
- Both protocols have a comparison standing of 50, i.e., median dose index is between both the DIR and peer group's 25th and 75th percentile values.
- Median dose indices for both protocols are below the ACR CTAP Reference Values of 25 and 75mGy for routine abdomen/pelvis and head, respectively.

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 2

The committee frequently reviews exams above the 75th percentile as part of the CT QC Program.

Based on this review, the committee decides if dose reduction opportunities are feasible.

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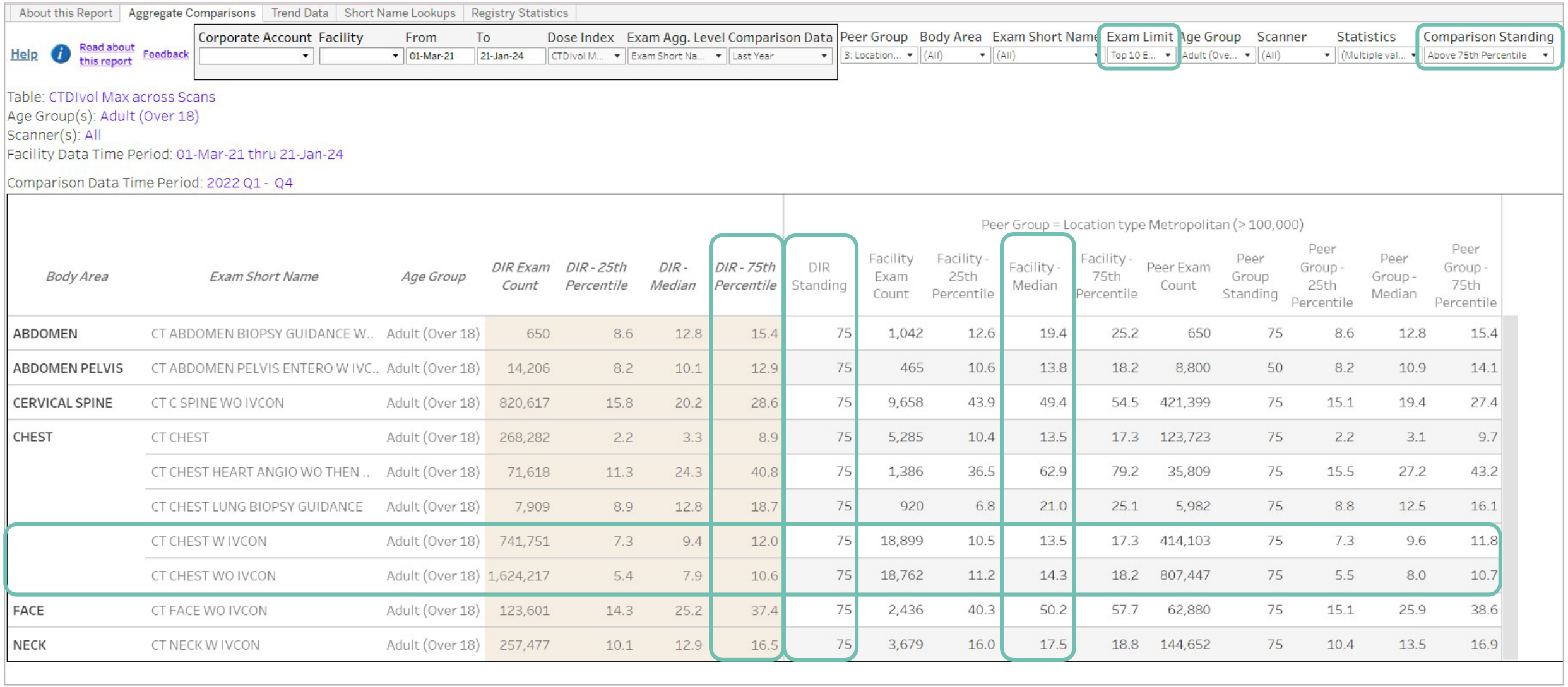
Use Case: CT QC Program – Protocol Review and Dose Optimization



About this Report | Aggregate Comparisons | Trend Data | Short Name Lookups | Registry Statistics

Help | Read about this report | Feedback

Corporate Account	Facility	From	To	Dose Index	Exam Agg. Level	Comparison Data	Peer Group	Body Area	Exam Short Name	Exam Limit	Age Group	Scanner	Statistics	Comparison Standing
		01-Mar-21	21-Jan-24	CTDIvol M...	Exam Short Na...	Last Year	3: Location...	(All)	(All)	Top 10 E...	Adult (Ove...	(All)	(Multiple val...	Above 75th Percentile

Table: CTDIvol Max across Scans
Age Group(s): Adult (Over 18)
Scanner(s): All
Facility Data Time Period: 01-Mar-21 thru 21-Jan-24

Comparison Data Time Period: 2022 Q1 - Q4

							Peer Group = Location type Metropolitan (> 100,000)								
Body Area	*Exam Short Name*	*Age Group*	*DIR Exam Count*	*DIR - 25th Percentile*	*DIR - Median*	*DIR - 75th Percentile*	DIR Standing	Facility Exam Count	Facility - 25th Percentile	Facility - Median	Facility - 75th Percentile	Peer Exam Count	Peer Group Standing	Peer Group - 25th Percentile	Peer Group - Median	Peer Group - 75th Percentile
ABDOMEN	CT ABDOMEN BIOPSY GUIDANCE W..	Adult (Over 18)	650	8.6	12.8	15.4	75	1,042	12.6	19.4	25.2	650	75	8.6	12.8	15.4
ABDOMEN PELVIS	CT ABDOMEN PELVIS ENTERO W IVC..	Adult (Over 18)	14,206	8.2	10.1	12.9	75	465	10.6	13.8	18.2	8,800	50	8.2	10.9	14.1
CERVICAL SPINE	CT C SPINE WO IVCON	Adult (Over 18)	820,617	15.8	20.2	28.6	75	9,658	43.9	49.4	54.5	421,399	75	15.1	19.4	27.4
CHEST	CT CHEST	Adult (Over 18)	268,282	2.2	3.3	8.9	75	5,285	10.4	13.5	17.3	123,723	75	2.2	3.1	9.7
	CT CHEST HEART ANGIO WO THEN ..	Adult (Over 18)	71,618	11.3	24.3	40.8	75	1,386	36.5	62.9	79.2	35,809	75	15.5	27.2	43.2
	CT CHEST LUNG BIOPSY GUIDANCE	Adult (Over 18)	7,909	8.9	12.8	18.7	75	920	6.8	21.0	25.1	5,982	75	8.8	12.5	16.1
	CT CHEST W IVCON	Adult (Over 18)	741,751	7.3	9.4	12.0	75	18,899	10.5	13.5	17.3	414,103	75	7.3	9.6	11.8
	CT CHEST WO IVCON	Adult (Over 18)	1,624,217	5.4	7.9	10.6	75	18,762	11.2	14.3	18.2	807,447	75	5.5	8.0	10.7
FACE	CT FACE WO IVCON	Adult (Over 18)	123,601	14.3	25.2	37.4	75	2,436	40.3	50.2	57.7	62,880	75	15.1	25.9	38.6
NECK	CT NECK W IVCON	Adult (Over 18)	257,477	10.1	12.9	16.5	75	3,679	16.0	17.5	18.8	144,652	75	10.4	13.5	16.9

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 2 Summary

The Aggregate Comparison dashboard can be used to identify opportunities for performance improvement using the Exam Limit filter and Comparison Standing filter (above 95th percentile will be added).

Chest Wo and Chest W were identified as high-volume protocols that can be presented to the committee as dose optimization opportunities.

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 3

High-dose exams and dose reduction opportunities were identified.

The committee approved protocol changes and a new protocol was implemented.

The committee is now asked to present data on its dose optimization efforts.

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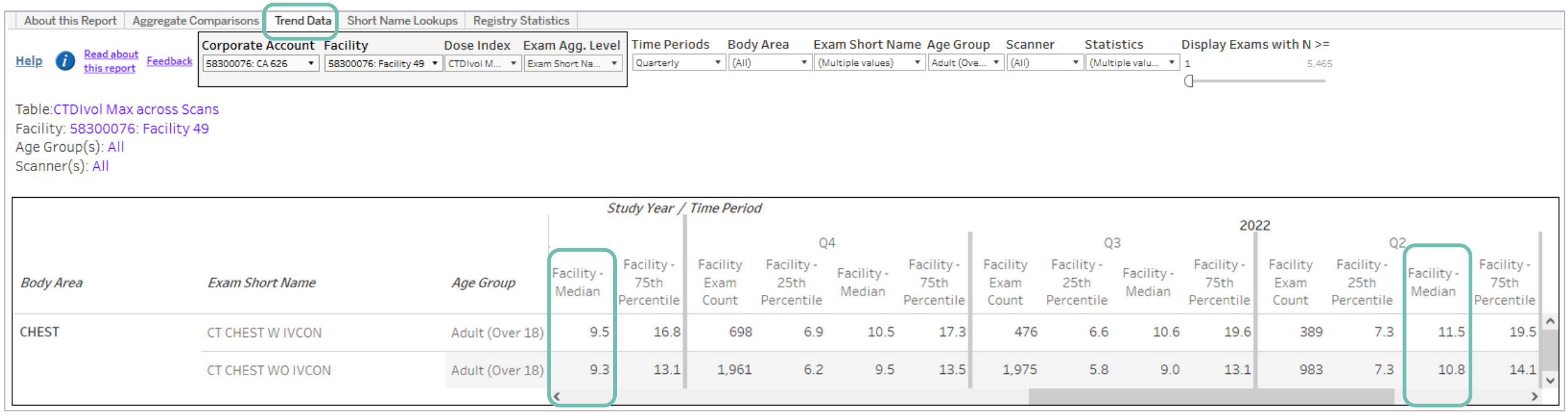
Use Case: CT QC Program – Protocol Review and Dose Optimization



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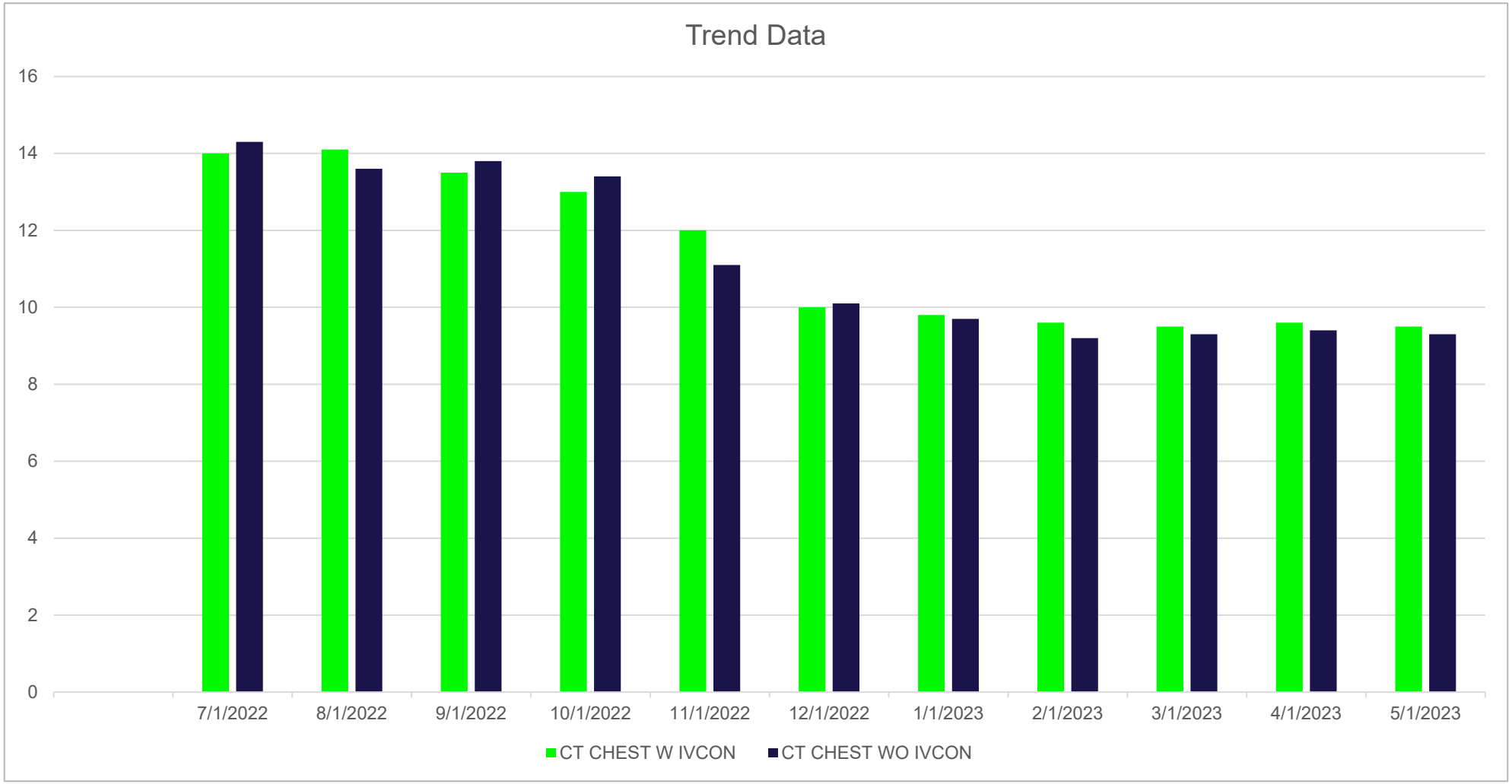
Use Case: CT QC Program – Protocol Review and Dose Optimization



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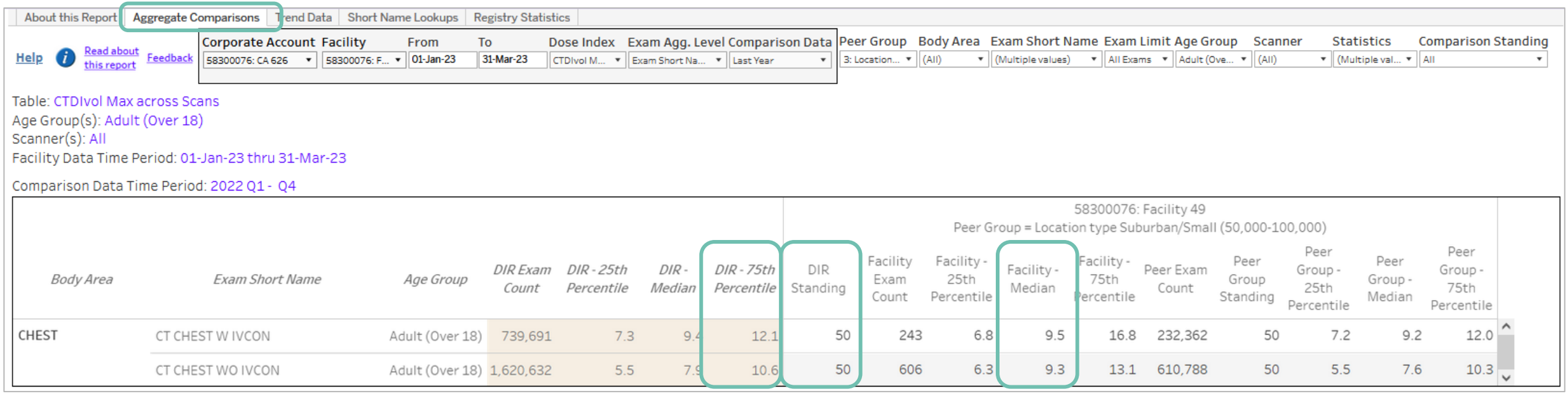
Use Case: CT QC Program – Protocol Review and Dose Optimization



Body Area	*Exam Short Name*	*Age Group*	*DIR Exam Count*	*DIR - 25th Percentile*	*DIR - Median*	*DIR - 75th Percentile*	DIR Standing	Facility Exam Count	Facility - 25th Percentile	Facility - Median	Facility - 75th Percentile	Peer Exam Count	Peer Group Standing	Peer Group - 25th Percentile	Peer Group - Median	Peer Group - 75th Percentile
CHEST	CT CHEST W IVCON	Adult (Over 18)	739,691	7.3	9.4	12.1	50	243	6.8	9.5	16.8	232,362	50	7.2	9.2	12.0
	CT CHEST WO IVCON	Adult (Over 18)	1,620,632	5.5	7.9	10.6	50	606	6.3	9.3	13.1	610,788	50	5.5	7.6	10.3

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Use Case: CT QC Program – Protocol Review and Dose Optimization

Part 3 Summary

The Trend Data dashboard can be used to monitor performance over time after implementing changes.

Data can be downloaded for users to create their own trend charts.

Changes to Chest Wo and Chest W protocols resulted in the facility's DIR Standing going down to 50 from 75.

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Use Case: Implementation of a New Protocol – from Start to Finish

Part 1

Your institution has a new Liver Transplant program.

The leading physician has asked Radiology to create a CT multiphase liver protocol.

The CT QC Committee wants to know if ACR DIR has any dose index data on this protocol to help implement it at their facility.

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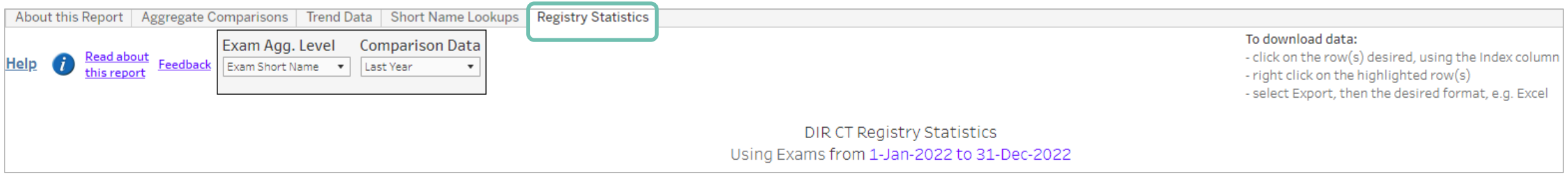
Use Case: Implementation of a New Protocol – from Start to Finish



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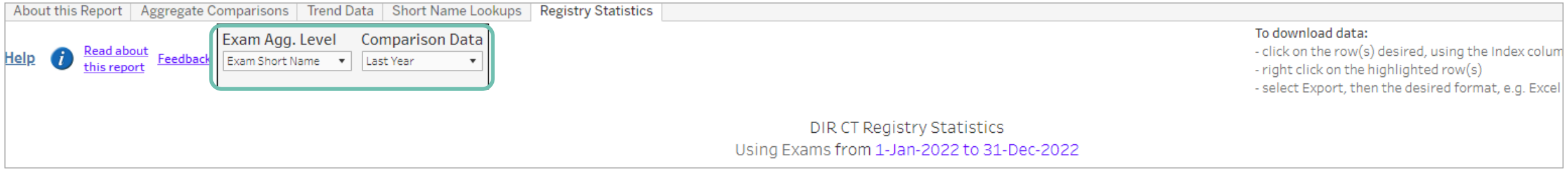
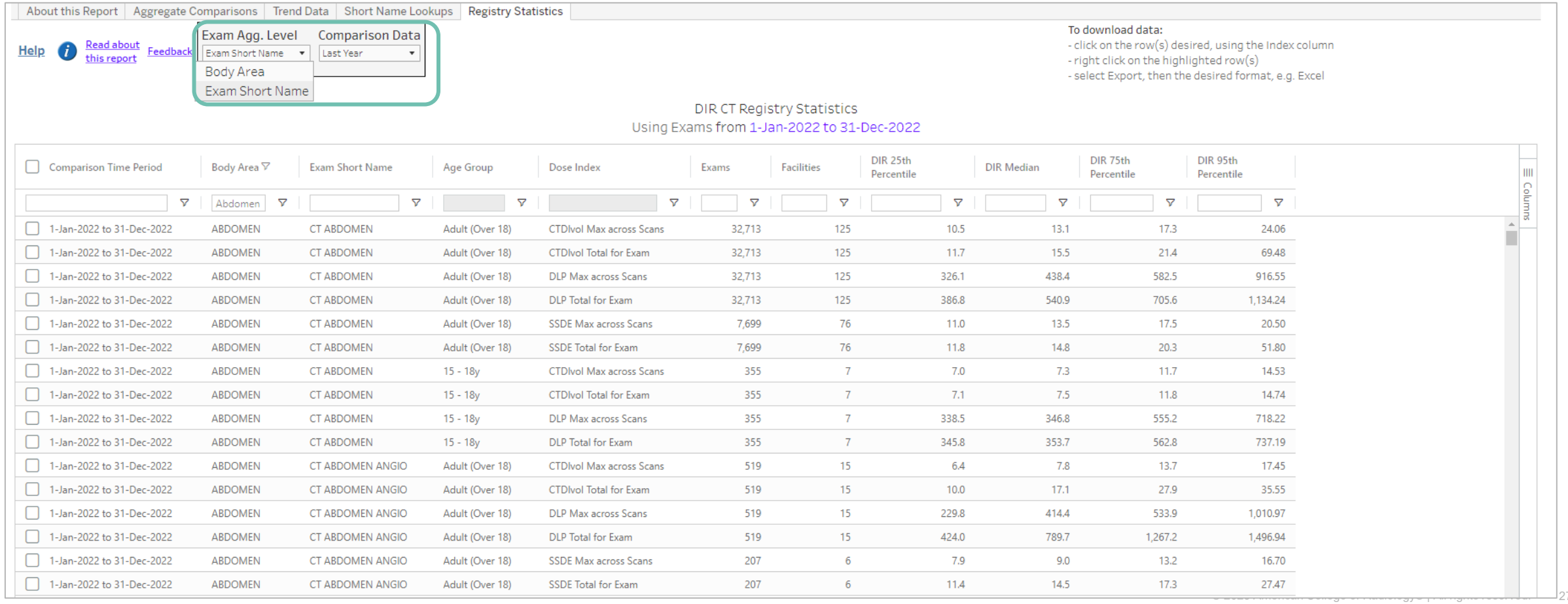
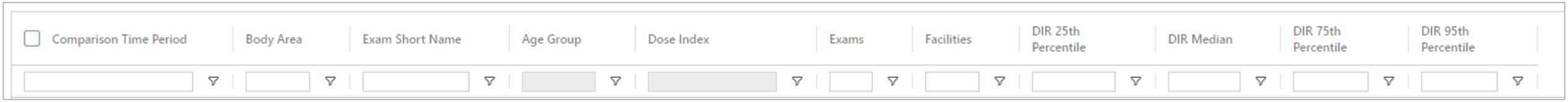
Use Case: Implementation of a New Protocol – from Start to Finish

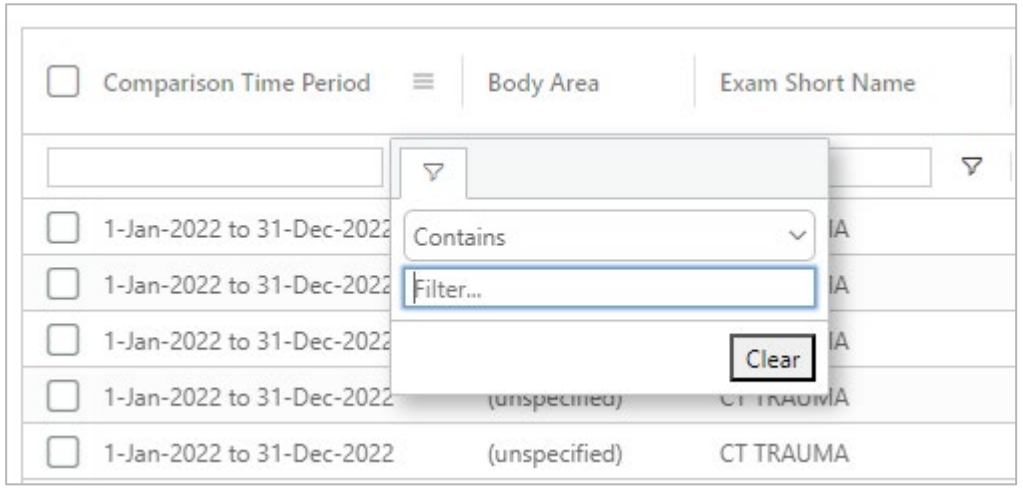


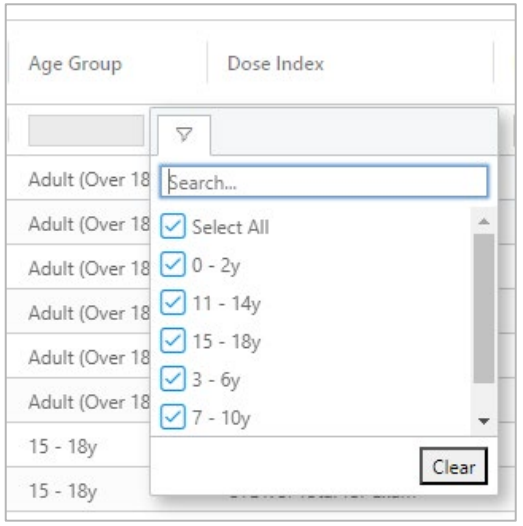


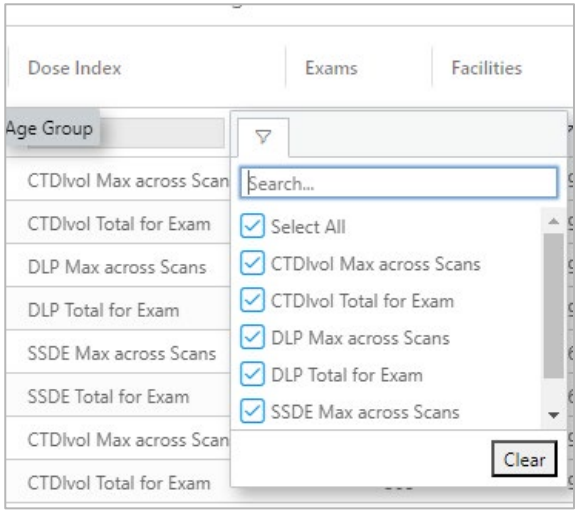
Comparison Time Period	Body Area	Exam Short Name	Age Group	Dose Index	Exams	Facilities	DIR 25th Percentile	DIR Median	DIR 75th Percentile	DIR 95th Percentile
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	CTDIvol Max across Scans	32,713	125	10.5	13.1	17.3	24.06
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	CTDIvol Total for Exam	32,713	125	11.7	15.5	21.4	69.48
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	DLP Max across Scans	32,713	125	326.1	438.4	582.5	916.55
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	DLP Total for Exam	32,713	125	386.8	540.9	705.6	1,134.24
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	SSDE Max across Scans	7,699	76	11.0	13.5	17.5	20.50
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	Adult (Over 18)	SSDE Total for Exam	7,699	76	11.8	14.8	20.3	51.80
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	15 - 18y	CTDIvol Max across Scans	355	7	7.0	7.3	11.7	14.53
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	15 - 18y	CTDIvol Total for Exam	355	7	7.1	7.5	11.8	14.74
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	15 - 18y	DLP Max across Scans	355	7	338.5	346.8	555.2	718.22
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN	15 - 18y	DLP Total for Exam	355	7	345.8	353.7	562.8	737.19
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	CTDIvol Max across Scans	519	15	6.4	7.8	13.7	17.45
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	CTDIvol Total for Exam	519	15	10.0	17.1	27.9	35.55
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	DLP Max across Scans	519	15	229.8	414.4	533.9	1,010.97
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	DLP Total for Exam	519	15	424.0	789.7	1,267.2	1,496.94
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	SSDE Max across Scans	207	6	7.9	9.0	13.2	16.70
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN ANGIO	Adult (Over 18)	SSDE Total for Exam	207	6	11.4	14.5	17.3	27.47

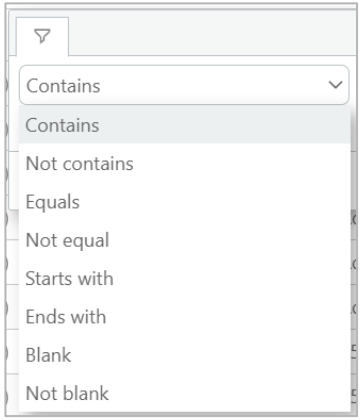
Use Case: Implementation of a New Protocol – from Start to Finish











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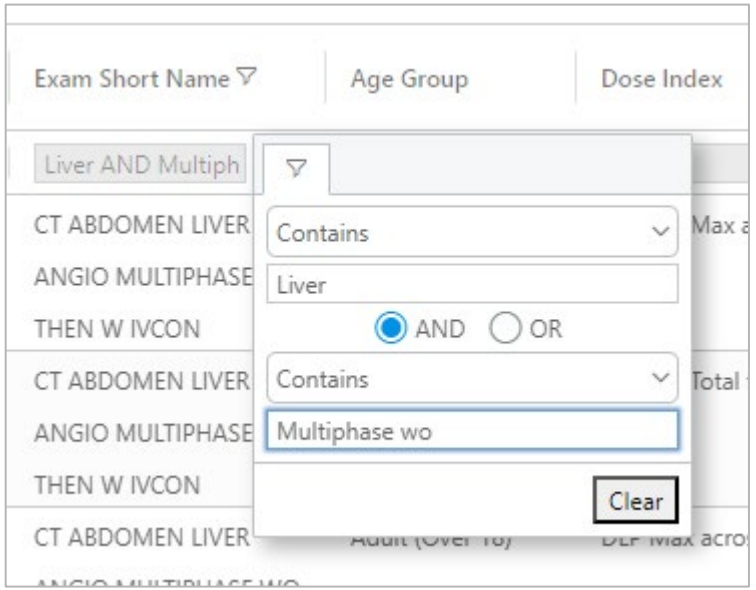
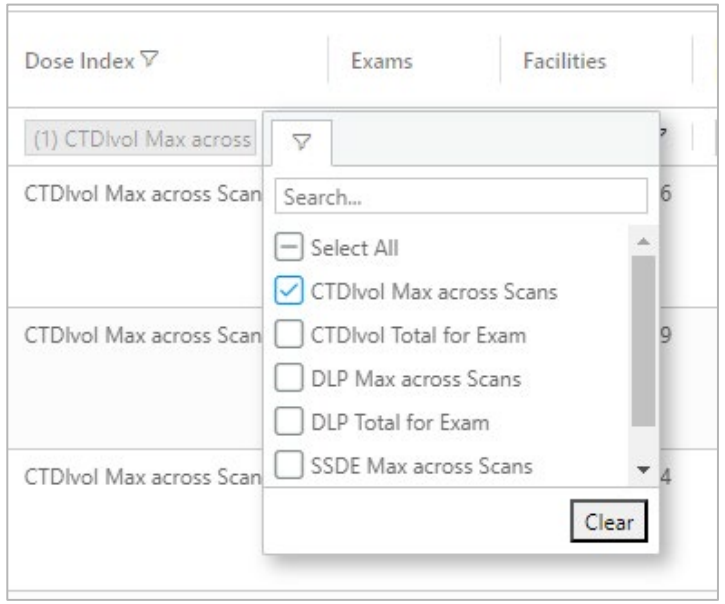
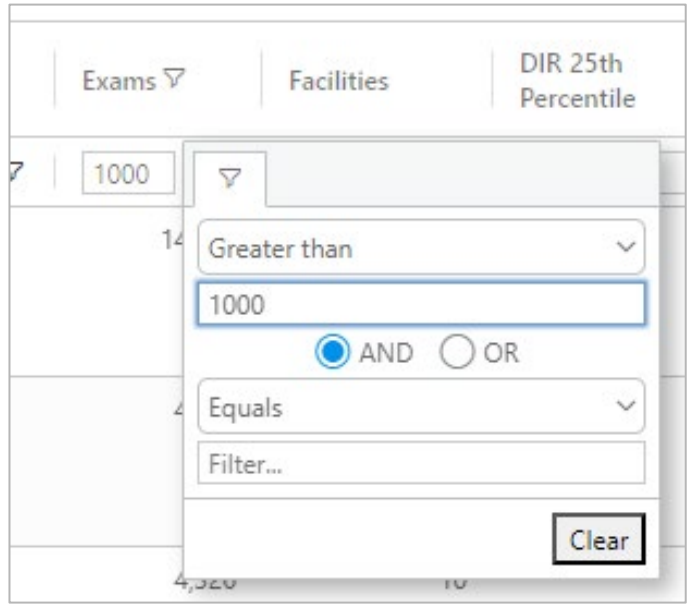
Use Case: Implementation of a New Protocol – from Start to Finish







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Use Case: Implementation of a New Protocol – from Start to Finish

DIR CT Registry Statistics
Using Exams from 1-Jan-2022 to 31-Dec-2022

Comparison Time Period	Body Area	Exam Short Name	Age Group	Dose Index	Exams	Facilities	DIR 25th Percentile	DIR Median	DIR 75th Percentile	DIR 95th Percentile
		Liver AND Multiph		(1) CTDIvol Max across	1000					
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	CTDIvol Max across Scans	14,776	189	10.7	13.7	17.4	21.51
1-Jan-2022 to 31-Dec-2022	ABDOMEN PELVIS	CT ABDOMEN PELVIS LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	CTDIvol Max across Scans	4,890	24	13.7	15.6	17.4	24.81
1-Jan-2022 to 31-Dec-2022	CHEST ABDOMEN PELVIS	CT CHEST ABDOMEN PELVIS LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	CTDIvol Max across Scans	4,326	10	13.9	17.9	22.1	26.65

DIR CT Registry Statistics
Using Exams from 1-Jan-2022 to 31-Dec-2022

Comparison Time Period	Body Area	Exam Short Name	Age Group	Dose Index	Exams	Facilities	DIR 25th Percentile	DIR Median	DIR 75th Percentile	DIR 95th Percentile
		Liver AND Multiph		(1) DLP Total for Exam	1000					
1-Jan-2022 to 31-Dec-2022	ABDOMEN	CT ABDOMEN LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	DLP Total for Exam	14,776	189	956.1	1,448.4	1,882.1	2,655.06
1-Jan-2022 to 31-Dec-2022	ABDOMEN PELVIS	CT ABDOMEN PELVIS LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	DLP Total for Exam	4,890	24	1,334.6	1,812.8	2,448.8	3,070.72
1-Jan-2022 to 31-Dec-2022	CHEST ABDOMEN PELVIS	CT CHEST ABDOMEN PELVIS LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	DLP Total for Exam	4,326	10	1,626.8	2,102.2	2,445.7	3,325.25

Use Case: Implementation of a New Protocol – from Start to Finish

Part 1 Summary

The Registry Statistics dashboard provides facilities with dose index target values for new CT protocols.

These target values can be used as a starting point to craft new protocols and modify them as needed.

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Use Case: Implementation of a New Protocol – from Start to Finish

Part 2

Based on clinical requirements and ACR DIR data, the CT QC Committee created and implemented a multiphase liver CT protocol.

A few months after implementation, the committee wants to ensure mapping of this new protocol to the appropriate RPID.

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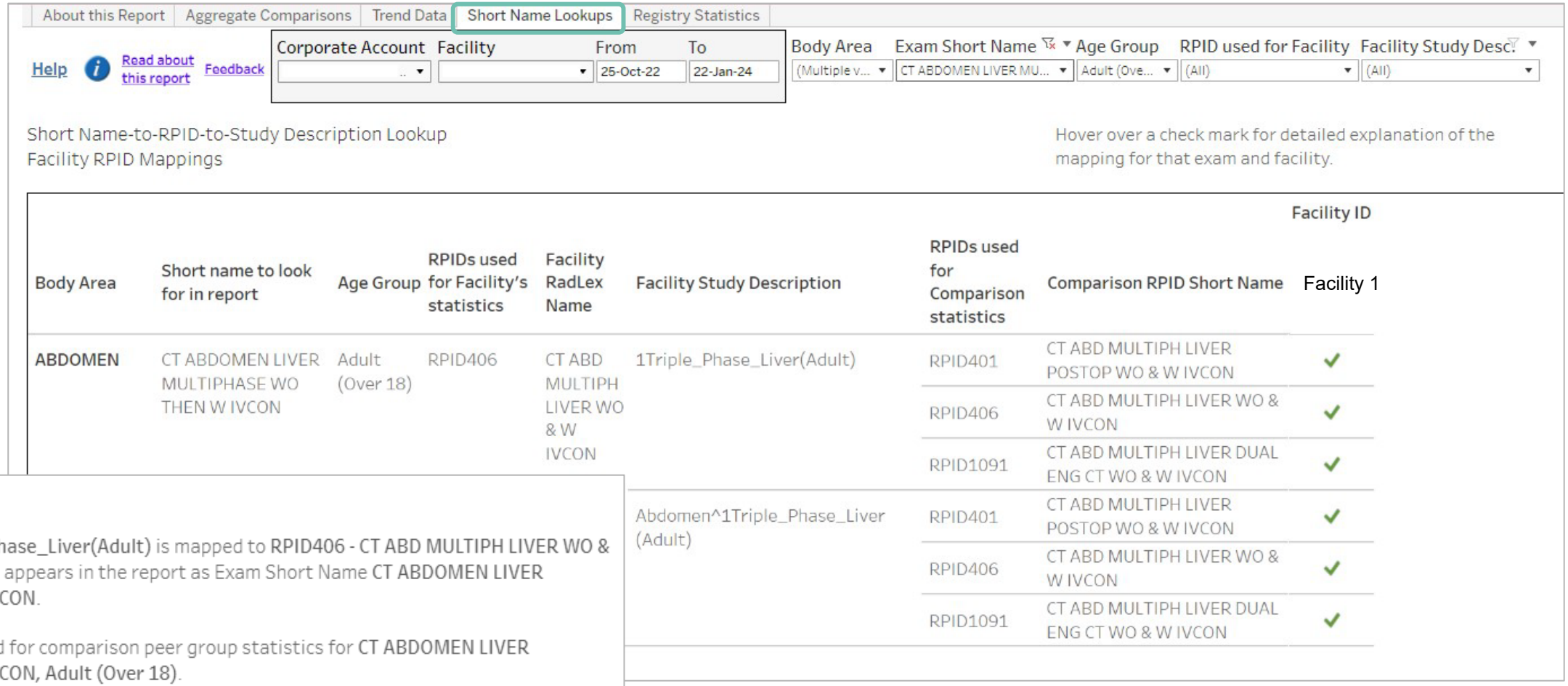
Use Case: Implementation of a New Protocol – from Start to Finish



About this Report | Aggregate Comparisons | Trend Data | Short Name Lookups | Registry Statistics

Help | Read about this report | Feedback

Corporate Account	Facility	From	To
..		25-Oct-22	22-Jan-24

Body Area	Exam Short Name	Age Group	RPID used for Facility	Facility Study Desc
(Multiple v...	CT ABDOMEN LIVER MU...	Adult (Ove...	(All)	(All)

Short Name-to-RPID-to-Study Description Lookup
Facility RPID Mappings

Hover over a check mark for detailed explanation of the mapping for that exam and facility.

Body Area	Short name to look for in report	Age Group	RPIDs used for Facility's statistics	Facility RadLex Name	Facility Study Description	RPIDs used for Comparison statistics	Comparison RPID Short Name	Facility ID: Facility 1
ABDOMEN	CT ABDOMEN LIVER MULTIPHASE WO THEN W IVCON	Adult (Over 18)	RPID406	CT ABD MULTIPH LIVER WO & W IVCON	1Triple_Phase_Liver(Adult)	RPID401	CT ABD MULTIPH LIVER POSTOP WO & W IVCON	✓
						RPID406	CT ABD MULTIPH LIVER WO & W IVCON	✓
						RPID1091	CT ABD MULTIPH LIVER DUAL ENG CT WO & W IVCON	✓
					Abdomen^1Triple_Phase_Liver (Adult)	RPID401	CT ABD MULTIPH LIVER POSTOP WO & W IVCON	✓
						RPID406	CT ABD MULTIPH LIVER WO & W IVCON	✓
						RPID1091	CT ABD MULTIPH LIVER DUAL ENG CT WO & W IVCON	✓

Facility 1

Study Description **1Triple_Phase_Liver(Adult)** is mapped to **RPID406 - CT ABD MULTIPH LIVER WO & W IVCON** for this facility and appears in the report as Exam Short Name **CT ABDOMEN LIVER MULTIPHASE WO THEN W IVCON**.

The following RPIDs are used for comparison peer group statistics for **CT ABDOMEN LIVER MULTIPHASE WO THEN W IVCON, Adult (Over 18)**.

RPID401	CT ABD MULTIPH LIVER POSTOP WO & W IVCON
RPID406	CT ABD MULTIPH LIVER WO & W IVCON
RPID1091	CT ABD MULTIPH LIVER DUAL ENG CT WO & W IVCON

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Use Case: Implementation of a New Protocol – from Start to Finish

Part 2 Summary

Mapping can be verified using the Short Name Lookups dashboard.

For a selected Facility Study Description, the RPID used to map to the study can be verified.

For multi-facility accounts, it can be verified if mapping is consistent across facilities.

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Use Case: Implementation of a New Protocol – from Start to Finish

Part 3

A year after the implementation of the multiphase liver protocol, the CT QC Committee wants to review dose indices and compare their facility's performance with the DIR.

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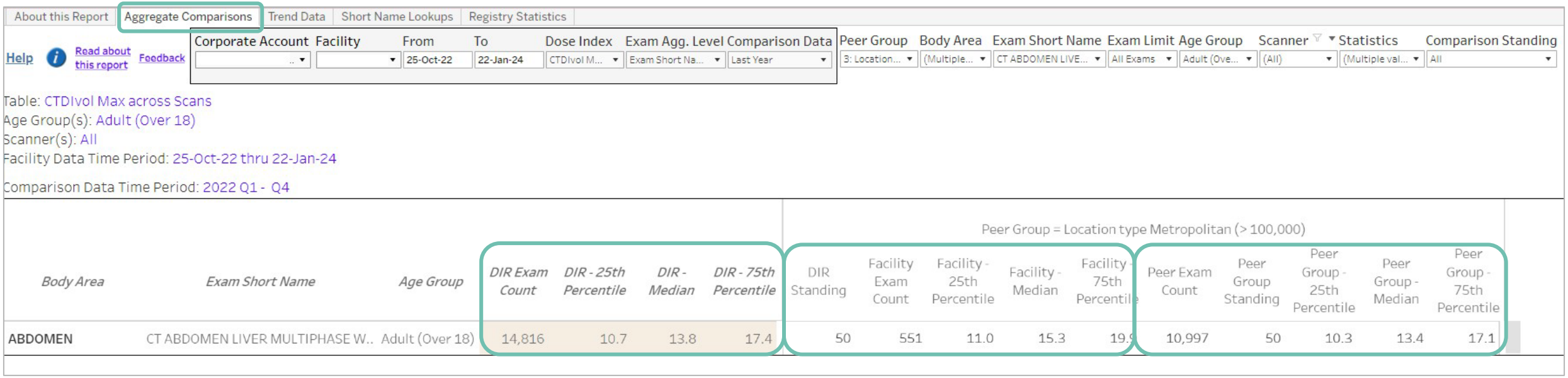
Use Case: Implementation of a New Protocol – from Start to Finish



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Use Case: Implementation of a New Protocol – from Start to Finish

Part 3 Summary

The Aggregate Comparison dashboard can be used to evaluate performance.

As compared to DIR and the selected peer group, the facility's standing for the newly implemented multiphase liver is at 50, i.e., median dose index is between both the DIR and Peer Group's 25th and 75th percentiles values.

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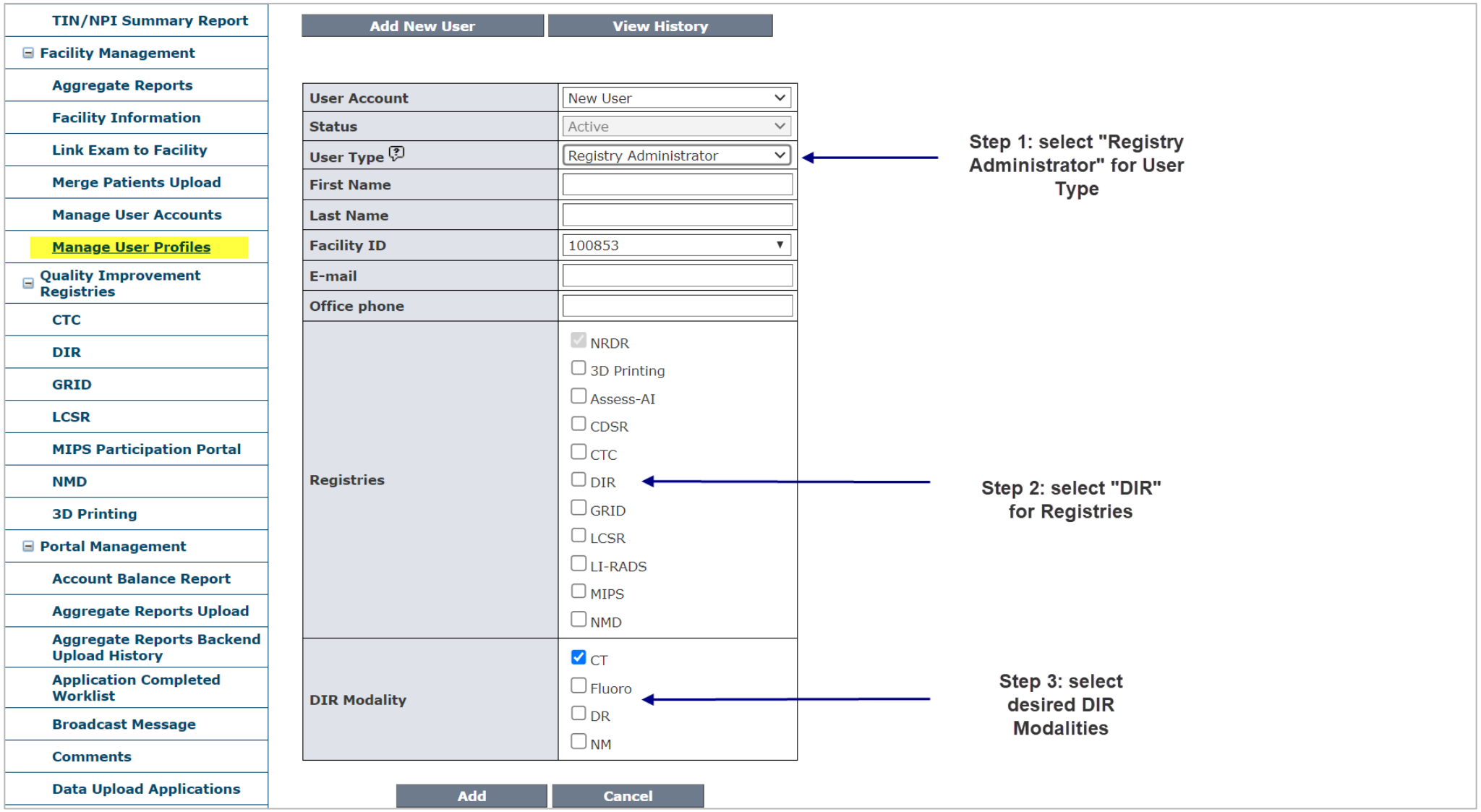
New Modality-Specific Registry Administrator Profiles



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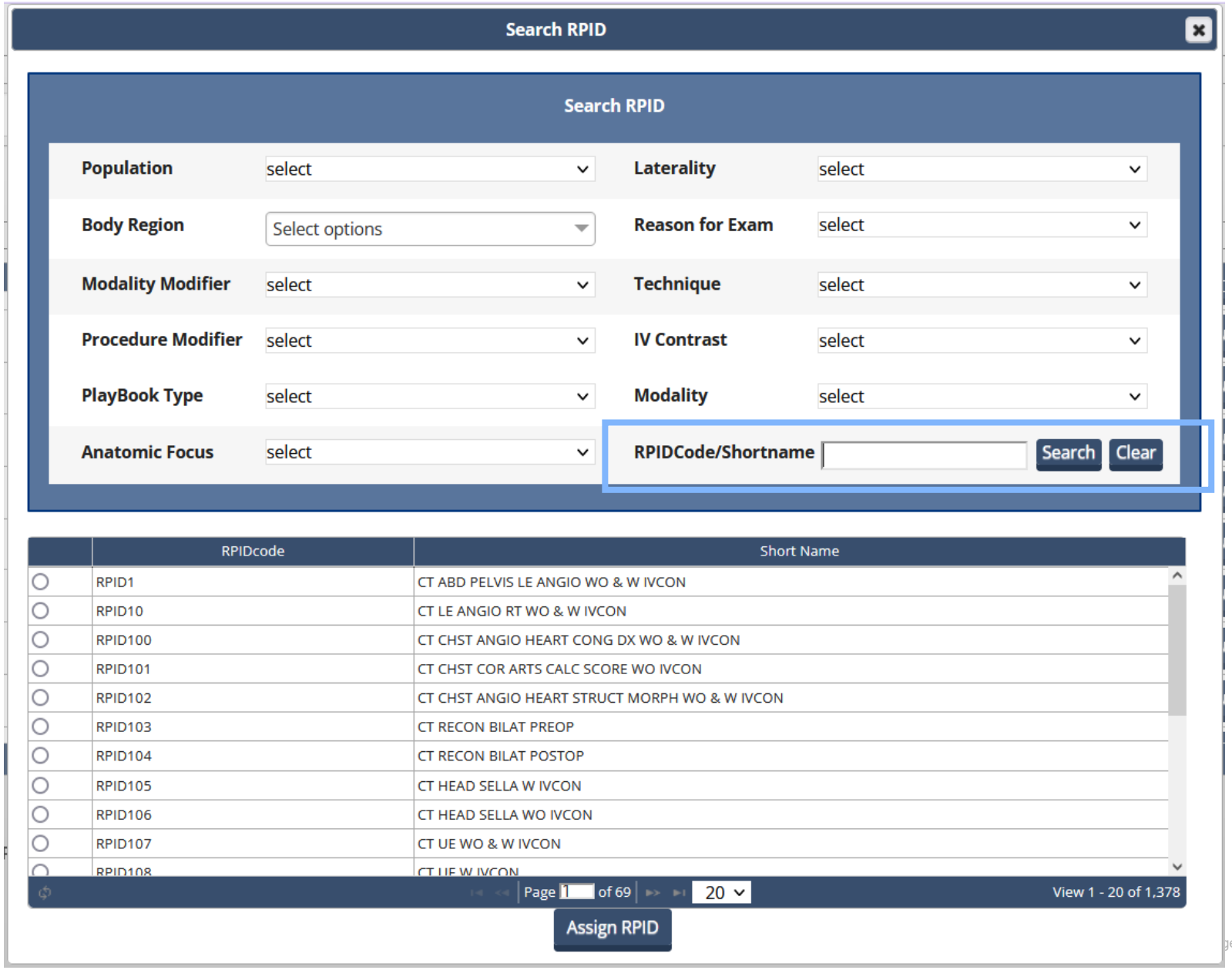
New RPID/Text Search in Exam Name Mapping Tool



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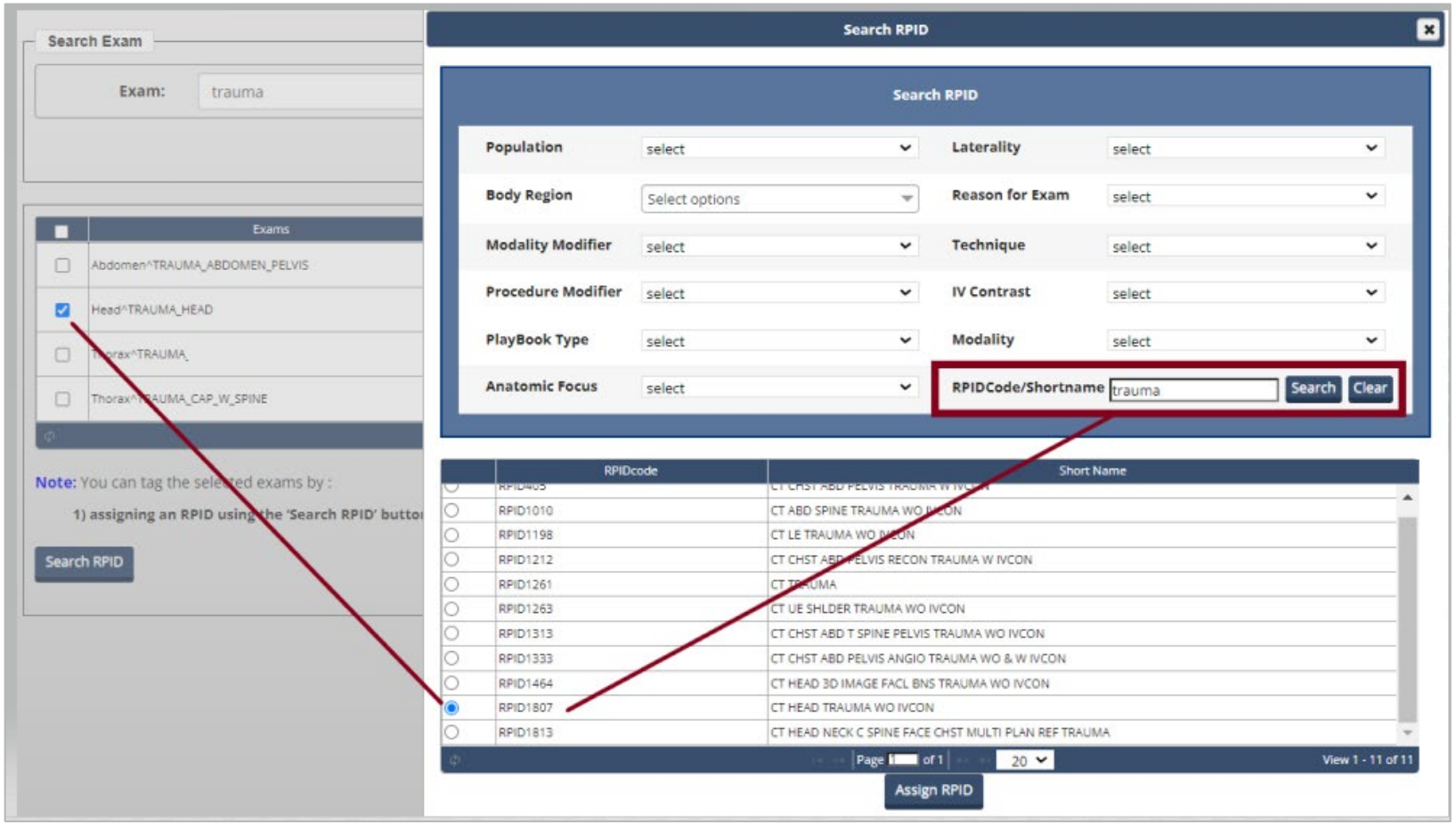
Exam Name Mapping to Trauma Cases

The highest-level trauma IDs are below. The complete list of trauma IDs is available in the NRDR Knowledge Base Mapping Guide.

- Radlex Playbook ID: RPID1261 – Short Name: CT Trauma
- ACR Common ID: 4012963 – Name: RAD, trauma series, unspecified



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Q&A

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Webinar Recordings and Slides

View recordings and slides for the Jan 31 and Feb 6 webinars here:

https://nrdrsupport.acr.org/support/solutions/articles/11000114744-dir-training-webinar-series

The Jan 31 webinar is available on demand now. Today's webinar will be available later this week.

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NRDR Help Desk

- **Email**: NRDRSupport@acr.org
- **Phone**: 1-800-227-5463 x3535
- **Web:** https://nrdrsupport.acr.org

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