



**American College  
of Radiology™**

# **Dose Index Registry (DIR®) Training Webinar Series**

Dose Optimization Using the DIR CT Facility Comparison Report

January 31, 2024

# Presenters



## **Moiz Ahmad, PhD**

Associate Professor of Imaging Physics, MD Anderson Cancer Center



## **Maryam Bostani, PhD, DABR**

Diagnostic Medical Physicist, Associate Clinical Professor, University of California, Los Angeles

# Presenters and Panelists

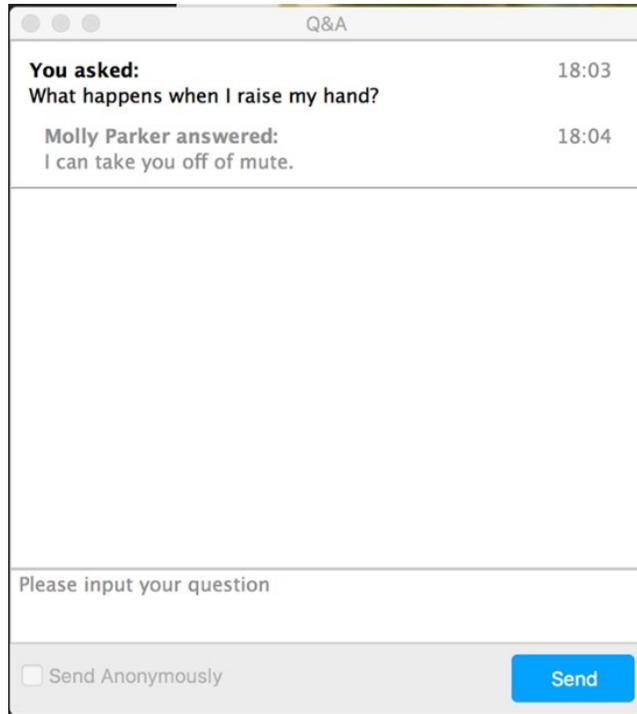
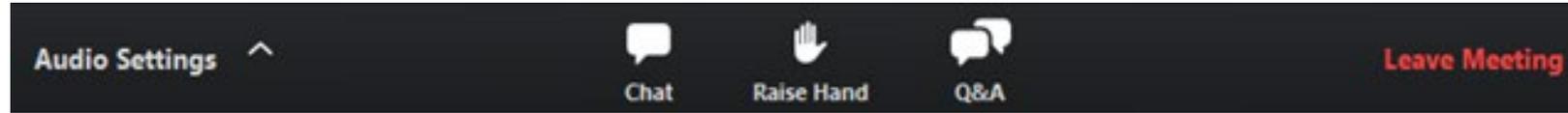


**Tom Fruscello, MBA**  
NRDR Tableau Report Developer, ACR



**Sarah McKenney, PhD, DABR**  
Division Chief, Radiology Physics, Associate Professor, Division of  
Medical Physics, Department of Radiology, UC Davis Medical  
Center

# 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

# Dose Index Registry (DIR®) Training Webinar Series



This webinar is first in a series that will continue in February 2024:

- **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>



# Webinar Agenda

1. CT Facility Comparisons Report Overview
  - a. Access and Navigation
  - b. Functionality
    - a. Facility Comparisons
    - b. Data Downloads
    - c. Short Name Lookups
2. CT Facility Comparisons Report Use Cases
  - a. Detailed Investigation of a Specific Exam Type
  - b. Protocol Usage Volume and Compliance with SOP
  - c. Comparison of a Specific Exam Across Multiple Facilities
3. Recent DIR Improvements
  - a. New Modality-Specific Registry Administrator Profiles
  - b. New RPID/Text Search in Exam Name Mapping Tool
  - c. Trauma
4. Q&A
5. Wrap-up

# CT Facility Comparison Report Overview



- ACR NRDR Homepage
- DIR
- Data Management ^
  - Exam Name Mapping ↗
  - Exam Name Mapping Settings
  - Manage Device Profiles
  - Fluoro Skin Reaction Assessments
- Reports ^
  - Operational Reports ^
    - Exam Detail
  - Interactive Reports ^
    - Aggregate Reports
  - CT ^
    - CT Standardized Dose Index ↗
    - CT Summary of Data Submitted ↗
    - CT Facility Comparisons ↗
  - DR ^
    - DR Standardized Dose Index ↗
    - DR Summary of Data Submitted ↗
  - Fluoro ^
    - Fluoro Standardized Dose Index ↗

## About DIR

The DIR enables participants to benchmark dose indices performance data against regional and national values using interactive reports. The report's extensive filters facilitate pinpointing outlier exams and identifying performance patterns for further investigation to ensure high-quality exam performance and patient care.

DIR-CT dose indices reports have been available since 2011 and work is underway to include a full slate of fluoroscopy, digital radiography and nuclear medicine reports. The DIR automatically de-identifies exam data sent directly to the registry with modality-specific dose information. Check the [DIR Available Reports](#) page in the NRDR Knowledge Base for ongoing updates.

The DIR offers opportunities to both fulfill reporting requirements for the Merit-based Incentive Payment System (MIPS) and earn credit for Maintenance of Certification (MOC) Part IV requirements of the American Board of Radiology (ABR).

# Knowledge Base Articles



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 went into effect in December 2023 to make it more intuitive for you to review your facility's performance and identify opportunities for dose optimization. The changes also reduce the redundancy of information. Updates will occur in three phases as described below.

### Phase 1: A New CT Administrative Aggregate Report Consolidates the Corporate 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* and provides new features, including:
    - Functionality to compare a single facility to a selected peer group and multiple facilities in the 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 NRDR Portal.



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

## CT Facility Comparison Report

Modified on: Fri, 12 Jan, 2024 at 2:01 PM

### Purpose

The DIR CT Facility Comparison Report provides insight into Corporate Account and Facility performance across the registry as a whole for the dose indices' measures: CTDIvol, Dose Length Product (DLP), and Size-Specific Dose Estimate (SSDE). The report highlights dose outliers for a variety of characteristics, e.g., exam type, body area, and facility. Reports are refreshed daily to provide up-to-date information.

### How to Access

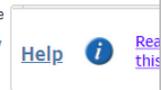


Log in to the [NRDR Portal](#). In the left menu under the **Quality Improvement Registry** section, click on **DIR Reports**. Then, in the DIR menu under the **Interactive Reports** select **CT Facility Comparison Report**.

### Report Help Features

The report is divided into four tabs called dashboards located across the top of the report. The *About this Report* tab provides a brief description of each dashboard, information about the measures and inclusion criteria, and instructions for navigating across the dashboards.

In each dashboard, hover the cursor over the information icon (blue circle) in the upper left corner to view a brief description of the dashboard's purpose and how to populate it with data.



Once the report is populated with data, click the [Help](#) link to bring up an overlay with specific report navigation information. Clicking the [Read about this report](#) link opens this Knowledge Base article and the Feedback form input form.



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
<a href="#">DIR Executive Summary Report and QCDR Preview</a>	Aggregated statistics for adult and pediatric exams for facility compared to the entire registry, for selected high-volume exams.  A sample Facility report is <a href="#">available here</a> . A sample Corporate report is <a href="#">available here</a> .	Quarterly	All



# Target Audience for CT Facility Comparison Report

1. Physicists
2. QA Lead Technologists
3. Physics assistants tasked with protocol management and review

# Navigating to the CT Facility Comparison Report



American College of Radiology  
**NRDR**  
National Radiology Data Registry®

<input type="checkbox"/> <b>ACR NRDR Homepage</b>
<b>New Corporate Account Registration</b>
<input type="checkbox"/> <b>Quality Improvement Registries</b>
CTC
<b>DIR</b>
GRID
LCSR
<b>MIPS Participation Portal</b>
NMD
3D Printing
<input type="checkbox"/> <b>Pilot and Research Registries</b>
<b>Assess-AI</b>
CDSR
LI-RADS

**NRDR**  
The National Radiology Data Registry (NRDR) is a national database that compares facility data to that of other facilities. This allows information to be shared across the industry.

**Quality Improvement**  
All NRDR registries are certified as a

**CTC Registry**  
The CT Colonography (CTC) Registry (CTC) provides a platform for participants to receive feedback on their performance.

**DIR**  
The Dose Index Registry (DIR) is a national database that tracks the procedure name and age group of patients. The DIR supports reporting re

**GRID**

# Navigating to the CT Facility Comparison Report



 **American College of Radiology™**  
National Radiology Data Registry®

Dose Index Registry

Support

Log in with ACR Account

ACR NRDR Homepage

DIR

Resources Startup Guide Features Data Dictionary Available Reports 

## About DIR

The DIR enables participants to benchmark dose indices performance data against regional and national values using interactive reports. The report's extensive filters facilitate pinpointing outlier exams and identifying performance patterns for further investigation to ensure high-quality exam performance and patient care.

DIR-CT dose indices reports have been available since 2011 and work is underway to include a full slate of fluoroscopy, digital radiography and nuclear medicine reports. The DIR automatically de-identifies exam data sent directly to the registry with modality-specific dose information. Check the [DIR Available Reports](#) page in the NRDR Knowledge Base for ongoing updates.

The DIR offers opportunities to both fulfill reporting requirements for the Merit-based Incentive Payment System (MIPS) and earn credit for Maintenance of Certification (MOC) Part IV requirements of the American Board of Radiology (ABR).

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# Navigating to the CT Facility Comparisons Report



Corporate Account - Facility 100000 - 100000: ACR Test

- ACR NRDR Homepage
- DIR**
- Data Management
  - Exam Name Mapping
  - Exam Name Mapping Settings
  - Manage Device Profiles
  - Fluoro Skin Reaction Assessments
- Reports
  - Operational Reports
  - Exam Detail
  - Interactive Reports
    - Aggregate Reports
  - CT
    - CT Standardized Dose Index
    - CT Summary of Data Submitted
    - CT Facility Comparisons**
- DR

## About DIR

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# Use Case: Detailed Investigation of a Specific Exam Type

Potentially, after flagging a high-dose finding:

OR

Investigational question:

- Are there specific scanners or scan protocols that contribute to the high-dose finding?

# Use Case: Detailed Investigation of a Specific Exam Type



- Example: CT HEAD BRAIN WO CONTRAST
  - I already know this exam has a median dose index that is 1.35 times the registry, and I would like to investigate further.
  - This prior information may have been obtained from the DIR Executive Summary Report OR from the CT Facility Comparison Report (Top 10 Exams filter).

# Use Case: Detailed Investigation of a Specific Exam Type



Facility Comparisons | Data Download | Short Name Lookups

Corporate Account: 58626153: CA 678 | Facility: 58626153: Fac... | From: 20-Oct-23 | To: 17-Jan-24 | Dose Index: CTDIvol M... | Exam Agg. Level: Exam Name | Comparison Data: Last Year | Body Area: (All) | Exam Name: (All) | Age Group: (All) | Scanner: (All) | Exam Limit: All Exams | Display N>=: 1 | 8,455

CTDIvol Max across Scans by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
Compared to Registry using comparison data from 2022 Q1 - Q4

Facility Median = Group Median

Click a mark (above) to show RPID and Device detail

- CT HEAD ANGIO WO THEN W IVCON
- CT HEAD BRAIN VENOGRAPHY W IVCON
- CT HEAD BRAIN W IVCON
- CT HEAD BRAIN WO IVCON
- CT HEAD BRAIN WO THEN W IVCON
- CT HEAD CISTERNOGRAPHY
- CT HEAD MAXILLOFACIAL W IVCON
- CT HEAD MAXILLOFACIAL WO IVCON
- CT HEAD NECK ANGIO
- CT HEAD PARANASAL SINUSES W IVCON
- CT HEAD PARANASAL SINUSES WO IVCON
- CT HEAD W IVCON
- CT HEAD WO IVCON
- CT L SPINE W IVCON
- CT L SPINE WO IVCON
- CT LE ANGIO WO THEN W IVCON
- CT LE FEMUR W IVCON
- CT LE FEMUR WO IVCON
- CT LE FIBULA TIBIA WO IVCON
- CT LE KNEE WO IVCON
- CT LE W IVCON
- CT LE WO IVCON
- CT LE WO THEN W IVCON
- CT NECK ANGIO W IVCON
- CT NECK W IVCON
- CT NECK WO IVCON
- CT PELVIS
- CT PELVIS ANGIO WO THEN W IVCON

Cancel | Apply

# Use Case: Detailed Investigation of a Specific Exam Type



[About this Report](#) | [Facility Comparisons](#) | [Data Download](#) | [Short Name Lookups](#)

[Help](#) | [Read about this report](#) | [Feedback](#)

Corporate Account: 58626153: CA 678 | Facility: 58626153: Fac...

From: 20-Oct-23 | To: 17-Jan-24 | Dose Index: CTDIvol M... | Exam Agg. Level: Exam Name | Comparison Data: Last Year

Body Area: (All) | Exam Name: CT HEAD BR... | Age Group: (All) | Scanner: (All) | Exam Limit: All Exams | Display N>=: 1 | 8,455

Comparison Group: Registry | Comparison Standing: All

Comparison Standing: Above 75th Percentile | Facility ID: \* 58626153

CTDIVol Max across Scans by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
 Compared to Registry using comparison data from 2022 Q1 - Q4

Facility Median = Group Median

Facility	Comparison Study	Age Group	RPID	RadLex Name	Study Description	Scanner	Facility Exam Count	Facility Median	Facility Median: Group Median	Group Exam Count for RPID	Group Exam Count
					Study Desc 54125	Scanner 1034	393	64.3	1.3	2,736,382	4,380,€
						Scanner 1011	252	63.2	1.3	2,736,382	4,380,€
						Scanner 1074	15	67.9	1.4	2,736,382	4,380,€
						Scanner 827	12	62.2	1.3	2,736,382	4,380,€
						Scanner 1298	11	64.3	1.3	2,736,382	4,380,€
						Scanner 1245	9	47.0	1.0	2,736,382	4,380,€

Comparison Group: All DIR Facili

Median: 64.3

Click an exam circle (above) to display events

# Use Case: Detailed Investigation of a Specific Exam Type



[About this Report](#) | [Facility Comparisons](#) | [Data Download](#) | [Short Name Lookups](#)

[Help](#) | [Read about this report](#) | [Feedback](#)

Corporate Account: 58626153: CA 678 | Facility: 58626153: Fac...

From: 20-Oct-23 | To: 17-Jan-24 | Dose Index: CTDIvol M... | Exam Agg. Level: Exam Name | Comparison Data: Last Year

Body Area: (All) | Exam Name: CT HEAD BR... | Age Group: (All) | Scanner: (All) | Exam Limit: All Exams | Display N>=: 1 / 8,455

Comparison Group: Registry | Comparison Standing: All

Comparison Standing: ■ Above 75th Percentile | Facility ID: \* 58626153

CTDIvol Max across Scans by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
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Facility	Comparison Study	Age Group	RPID	RadLex Name	Study Description	Scanner	Facility Exam Count	Facility Median	Facility Median: Group Median	Group Exam Count for RPID	Group Exam Count
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						Scanner 827	12	62.2	1.3	2,736,382	4,380,6
						Scanner 1298	11	64.3	1.3	2,736,382	4,380,6
						Scanner 1245	9	47.0	1.0	2,736,382	4,380,6
						Scanner 3498	9	62.2	1.3	2,736,382	4,380,6

Proto..

Click an exam circle (above) to display events

# Use Case: Detailed Investigation of a Specific Exam Type



[About this Report](#) | [Facility Comparisons](#) | [Data Download](#) | [Short Name Lookups](#)

[Help](#) [Read about this report](#) [Feedback](#)

Corporate Account: 58626153: CA 678 | Facility: 58626153: Fac...

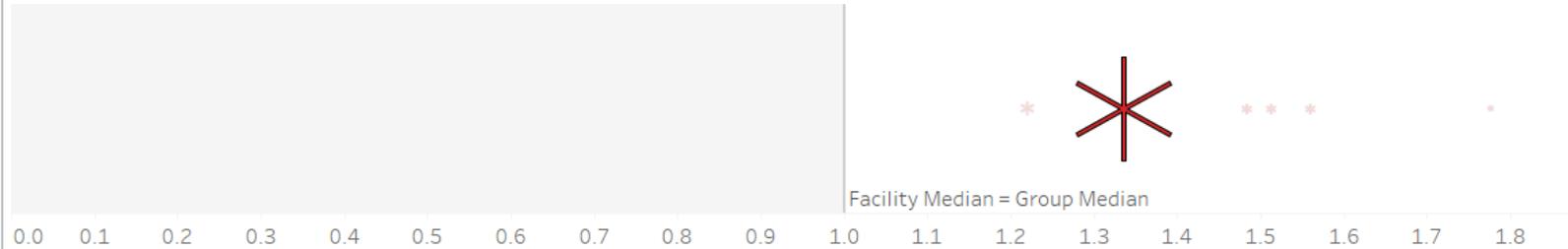
From: 20-Oct-23 | To: 17-Jan-24 | Dose Index: CTDIvol M... | Exam Agg. Level: Exam Name | Comparison Data: Last Year

Body Area: (All) | Exam Name: CT HEAD BR... | Age Group: (All) | Scanner: (All) | Exam Limit: All Exams | Display N>=: 1 to 8,455

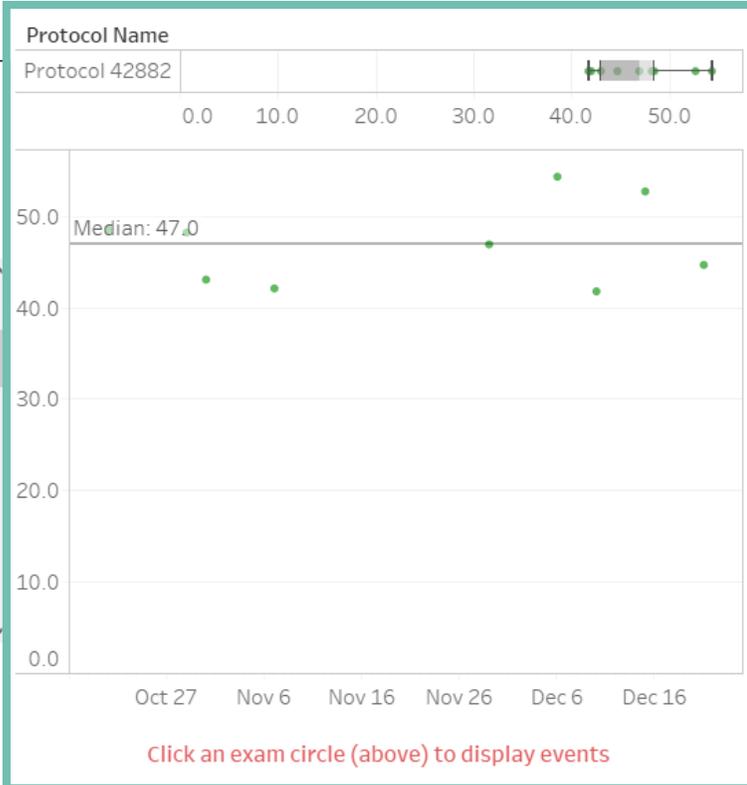
Comparison Group: Registry | Comparison Standing: All

Comparison Standing: ■ Above 75th Percentile | Facility ID: \* 58626153

CTDIvol Max across Scans by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
 Compared to Registry using comparison data from 2022 Q1 - Q4



Facility	Comparison Study	Age Group	RPID	RadLex Name	Study Description	Scanner	Facility Exam Count	Facility Median	Facility Median: Group Median	Group Exam Count for RPID	Group Exam Count
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						Scanner 1298	11	64.3	1.3	2,736,382	4,380,6
						Scanner 1245	9	47.0	1.0	2,736,382	4,380,6
						Scanner 3498	9	62.2	1.3	2,736,382	4,380,6



# Use Case: Detailed Investigation of a Specific Exam Type

## Summary

- Starting point: The CT HEAD BRAIN WO CONTRAST exam was known to have a high median dose index (CTDIvol maximum across scans).
  - Median CTDIvol: Facility: 64 mGy, Registry: 48 mGy, (1.3 facility/median ratio)
- We used the DIR to find the median dose index for each scanner at the facility. A bi-modal distribution was observed.
  - One group of scanners with dose index of 1.3 times the registry median
  - Second group of scanners with dose index of 1.0 times the registry median
  - The group with the lower dose index used TCM, whereas the higher group did not.
- Potential follow-up:
  - Investigate a potential dose reduction using TCM in the first group of scanners.

# Use Case: Protocol Usage Volume and Compliance with SOP



Investigational question:

- What is the incidence of incorrect CT protocol selection at the scanner?

Example:

- Let's find the distributions of scan protocols used for the CT CHEST WO IVCON exam.

# Use Case: Protocol Usage Volume and Compliance with SOP



[About this Report](#) | 
 [Facility Comparisons](#) | 
 [Data Download](#) | 
 [Short Name Lookups](#)

[Help](#) [Read about this report](#) [Feedback](#)

Corporate Account: 58626153: CA 678 | 
 Facility: 58626153: Fac...

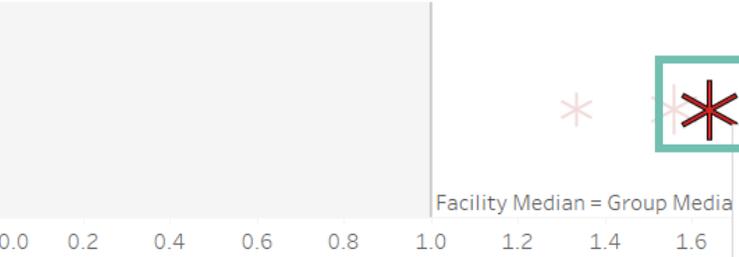
From: 20-Oct-23 | To: 17-Jan-24 | 
 Dose Index: CTDIvol M... | 
 Exam Agg. Level: Exam Name | 
 Comparison Data: Last Year

Body Area: (All) | Exam Name: (All) | Age Group: (All) | Scanner: (All) | 
 Exam Limit: Top 10 E... | Display N>=: 8,455

Comparison Group: Registry | Comparison Standing: All

Comparison Standing: Above 75th Percentile | Facility ID: \* 58626153

CTDIvol Max across Scans by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
 Compared to Registry using comparison data from 2022 Q1 - Q4

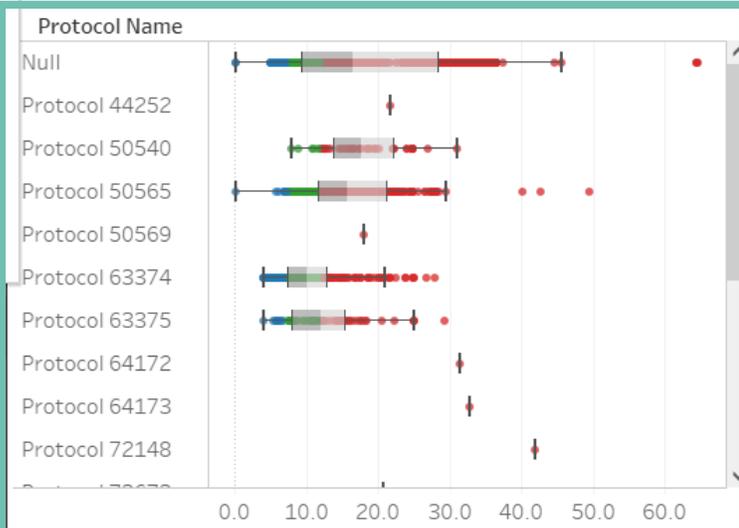


Facility: 58626153: Facility 135  
 Comparison Group: All DIR Facilities  
 Exam. Agg. Level: Exam Name  
 Comparison Study: CT CHEST W IVCON  
 Age Group: Adult (Over 18)  
 N: 2,414

The median CTDIvol Max across Scans for this facility is 15.4 which is 1.6 times the median of 9.4 and Above 75th Percentile for Comparison Group: All DIR Facilities.

Click to drill down for more details.

Facility	Comparison Study	Age Group	RPID	RadLex Name	Scanner	Count	Mean	SD	Max	Min
					Scanner 110	177	24.5	2.6	735,227	739,0
					Scanner 3497	147	25.6	2.7	735,227	739,0
					Scanner 955	125	27.9	3.0	735,227	739,0
					Scanner 1074	123	11.4	1.2	735,227	739,0
					Scanner 5279	117	12.8	1.4	735,227	739,0
					Scanner 827	111	12.4	1.3	735,227	739,0



Click an exam circle (above) to display events

# Use Case: Protocol Usage Volume and Compliance with SOP



About this Report | Facility Comparisons | **Data Download** | Short Name Lookups

Corporate Account Facility: 58626153: CA 678 | 58626153: Facil... | From: 20-Oct-23 | To: 17-Jan-24 | Dose Index: CTDIvol M... | Exam Agg. Level: Exam Name | Comparison Da...: Last Year | Body Area: (All) | Exam Name: CT CHEST W... | Exam Limit: All Exams | Age Group: (All) | Scanner: (All) | Peer Group Statistics: Location... | Standing: (Multipl... | Show Exams: All

CTDIvol Max across Scans Compared to Registry and Location Type by Facility, Exam Name and Age Group, October 20 to December 20, 2023  
 Age Group(s): All  
 Scanner(s): All  
 Using Comparison Data from: 2022 Q1 - Q4

Summary Table

Body Area	Exam Short Name	Age Group	DIR - Exams	DIR - 25th Percentile	DIR - Median	DIR - 75th Percentile	DIR Standing	Facility Exam Count
CHEST	CT CHEST WO IVCON	Adult (Over 18)	1,620,632	5.5	7.9	10.6	75	1,802
		15 - 18y	2,586	3.0	4.2	5.5	75	5
		11 - 14y	1,782	2.2	3.1	4.3	50	1
		7 - 10y	1,117	1.5	1.9	2.2	75	1

Exam Name dropdown menu:

- CT CHEST ABDOMEN WO IVCON
- CT CHEST ABDOMEN WO THEN W IVCON
- CT CHEST ANGIO WO THEN W IVCON
- CT CHEST BRONCHOGRAPHY
- CT CHEST HEART
- CT CHEST HEART ANGIO W IVCON
- CT CHEST HEART ANGIO WO THEN W IVCON
- CT CHEST LOW DOSE
- CT CHEST LOW DOSE WO IVCON
- CT CHEST PULMONARY ARTERIES ANGIO W IVCON
- CT CHEST PULMONARY ARTERIES W IVCON
- CT CHEST VENOGRAPHY W IVCON
- CT CHEST W IVCON
- CT CHEST WO THEN W IVCON
- CT FACE
- CT FACE MAXILLOFACIAL
- CT FACE ORBITS WO IVCON
- CT FACE PARANASAL SINUSES WO IVCON
- CT FACE WO IVCON
- CT HEAD ANGIO WO THEN W IVCON
- CT HEAD BRAIN VENOGRAPHY W IVCON
- CT HEAD BRAIN W IVCON
- CT HEAD BRAIN WO IVCON
- CT HEAD BRAIN WO THEN W IVCON
- CT HEAD CISTERNOGRAPHY
- CT HEAD MAXILLOFACIAL W IVCON
- CT HEAD MAXILLOFACIAL WO IVCON

Buttons: Cancel, Apply

Peer Group - 75th Percentile
10.7
5.4
4.3
2.2

Set Show Exams = YES to display exam-level details

# Use Case: Protocol Usage Volume and Compliance with SOP



[About this Report](#) | [Facility Comparisons](#) | [Data Download](#) | [Short Name Lookups](#)

[Help](#) | [Read about this report](#) | [Feedback](#)

**Corporate Account** Facility  
 58626153: CA 678 58626153: Facil...

From: 20-Oct-23 To: 17-Jan-24 Dose Index: CTDIvol M... Exam Agg. Level: Exam Name Comparison Da...: Last Year

Body Area: (All) Exam Name: CT CHEST W... Exam Limit: All Exams Age Group: (All) Scanner: (All) Peer Group Statistics: Location... (Multipl... Standing: All Show Exams: Yes

CTDIvol Max across Scans Compared to Registry and Location Type by Facility, Exam Name and Age Group, October 20 to December 20, 2023

Age Group(s): All

Scanner(s): All

Using Comparison Data from: 2022 Q1 - Q4

*Summary Table*

							58626153: CA 678 58626153: Facility 135 Peer Group = Location type Metropolitan (> 100,000)									
Body Area	Exam Short Name	Age Group	DIR - Exams	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 WO IVCON	Adult (Over 18)	1,620,632	5.5	7.9	10.6	75	1,802	8.5	12.3	16.5	808,170	75	5.5	8.0	10.7
		15 - 18y	2,586	3.0	4.2	5.5	75	5	4.9	5.6	6.1	2,466	75	3.0	4.2	5.4
		11 - 14y	1,782	2.2	3.1	4.3	50	1	2.9	2.9	2.9	1,742	50	2.3	3.2	4.3
		7 - 10y	1,117	1.5	1.9	2.2	75	1	3.8	3.8	3.8	1,117	75	1.5	1.9	2.2

<input type="checkbox"/> Index	Facility	Comparison Study	Age Group	Dose Index	DIR 25th Percentile	DIR Median	DIR 75th Percentile	Facility Median	Facility Exams	Comparison - Overall	Dose Index Value	Comparison - this Exam	Comparison Period
<input type="checkbox"/> 1	58626153: Facility 135	CT CHEST WO IVCON	7 - 10y	CTDIvol Max across Scans	1.5	1.9	2.2	3.8	1	> 75th Percentile	3.8	> 75th Percentile	2022 Q
<input type="checkbox"/> 2	58626153: Facility 135	CT CHEST WO IVCON	11 - 14y	CTDIvol Max across Scans	2.2	3.1	4.3	2.9	1	Between 25th and 75th	2.9	Between 25th and 75th	2022 Q
<input type="checkbox"/> 3	58626153: Facility 135	CT CHEST WO IVCON	15 - 18y	CTDIvol Max across Scans	3.0	4.2	5.5	5.6	5	> 75th Percentile	6.1	> 75th Percentile	2022 Q
<input type="checkbox"/> 4	58626153: Facility 135	CT CHEST WO IVCON	15 - 18y	CTDIvol Max across Scans	3.0	4.2	5.5	5.6	5	> 75th Percentile	6.8	> 75th Percentile	2022 Q
<input type="checkbox"/> 5	58626153: Facility 135	CT CHEST WO IVCON	15 - 18y	CTDIvol Max across Scans	3.0	4.2	5.5	5.6	5	> 75th Percentile	5.6	> 75th Percentile	2022 Q
<input type="checkbox"/> 6	58626153: Facility 135	CT CHEST WO IVCON	15 - 18y	CTDIvol Max across Scans	3.0	4.2	5.5	5.6	5	> 75th Percentile	4.9	Between 25th and 75th	2022 Q
<input type="checkbox"/> 7	58626153: Facility 135	CT CHEST WO IVCON	15 - 18y	CTDIvol Max across Scans	3.0	4.2	5.5	5.6	5	> 75th Percentile	4.0	Between 25th and 75th	2022 Q

# Use Case: Protocol Usage Volume and Compliance with SOP



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**Corporate Account** 58626153: CA 678 | **Facility** 58626153: Facil...

**From** 20-Oct-23 | **To** 17-Jan-24 | **Dose Index** CTDIvol M... | **Exam Agg. Level** Exam Name | **Comparison Da...** Last Year

**Body Area** (All) | **Exam Name** CT CHEST W... | **Exam Limit** All Exams | **Age Group** (All) | **Scanner** (All) | **Peer Group Statistics** Location... | **Standing** (Multipl... | **Show Exams** All | Yes

CTDIvol Max across Scans Compared to Registry and Location Type by Facility, Exam Name and Age Group, October 20 to December 20, 2023

Age Group(s): All  
 Scanner(s): All  
 Using Comparison Data from: 2022 Q1 - Q4

*Summary Table*

							58626153: CA 678									
							58626153: Facility 135									
							Peer Group = Location type Metropolitan (> 100,000)									
Body Area	Exam Short Name	Age Group	DIR - Exams	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 WO IVCON	Adult (Over 18)	1,620,632	5.5	7.9	10.6	75	1,802	8.5	12.3	16.5	808,170	75	5.5	8.0	10.7
		15 - 18y	2,586	3.0	4.2	5.5	75	5	4.9	5.6	6.1	2,466	75	3.0	4.2	5.4
		11 - 14y	1,782	2.2	3.1	4.3	50	1	2.9	2.9	2.9	1,742	50	2.3	3.2	4.3
		7 - 10y	1,117	1.5	1.9	2.2	75	1	3.8	3.8	3.8	1,117	75	1.5	1.9	2.2

on - this Exam	Comparison Time Period	ACR Exam ID	RPID	Exam Name	Body Area	Study Description	Scanner	Protocol Name	Study Date	Study Time
centile	2022 Q1 - Q4	474,041,630	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/08/2023	23:59
centile	2022 Q1 - Q4	474,151,490	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 94219	11/09/2023	23:59
centile	2022 Q1 - Q4	474,320,029	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/11/2023	23:59
centile	2022 Q1 - Q4	474,535,194	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/13/2023	23:59
centile	2022 Q1 - Q4	474,646,588	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/14/2023	23:59
centile	2022 Q1 - Q4	474,788,196	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/16/2023	23:59
centile	2022 Q1 - Q4	474,793,487	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/16/2023	23:59

# Use Case: Protocol Usage Volume and Compliance with SOP



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**Corporate Account** Facility **From** **To** **Dose Index** **Exam Agg. Level** **Comparison Da...** **Body Area** **Exam Name** **Exam Limit** **Age Group** **Scanner** **Peer Group Statistics** **Standing** **Show Exams**

58626153: CA 678 58626153: Facil... 20-Oct-23 17-Jan-24 CTDIvol M... Exam Name Last Year (All) CT CHEST W... All Exams (All) (All) Location... (Multipl... All Yes

CTDIvol Max across Scans Compared to Registry and Location Type by Facility, Exam Name and Age Group, October 20 to December 20, 2023

Age Group(s): All

Scanner(s): All

Using Comparison Data from: 2022 Q1 - Q4

## Summary Table

							58626153: CA 678									
							58626153: Facility 135									
							Peer Group = Location type Metropolitan (> 100,000)									
Body Area	Exam Short Name	Age Group	DIR - Exams	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 WO IVCON	Adult (Over 18)	1,620,632	5.5	7.9	10.6	75	1,802	8.5	12.3	16.5	808,170	75	5.5	8.0	10.7
		15 - 18y	2,586	3.0	4.2	5.5	75	5	4.9	5.6	6.1	2,466	75	3.0	4.2	5.4
		11 - 14y	1,782	2.2	3.1	4.3	50	1	2.9	2.9	2.9	1,742	50	2.3	3.2	4.3
		7 - 10y	1,117	1.5	1.9	2.2	75	1	3.8	3.8	3.8	1,117	75	1.5	1.9	2.2

<input checked="" type="checkbox"/> Index	Facility	Comparison Study	Age Group	Dose Index	DIR 25th Percentile	DIR Median	DIR 75th Percentile	Facility Median	Facility Exams	Comparison - Overall	Dose Index Value	Comparison - this Exam	Comparison Period
<input checked="" type="checkbox"/> 15	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	5.3	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 16	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	4.2	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 28	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	2.9	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 29	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	5.2	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 30	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	2.9	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 31	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	1.3	<25th Percentile	2022 Q
<input checked="" type="checkbox"/> 55	58626153: Facility 135	CT CHEST WO IVCON	Adult (Over 18)	CTDIvol Max across Scans	5.5	7.9	10.6	12.3	1,802	> 75th Percentile	4.0	<25th Percentile	2022 Q

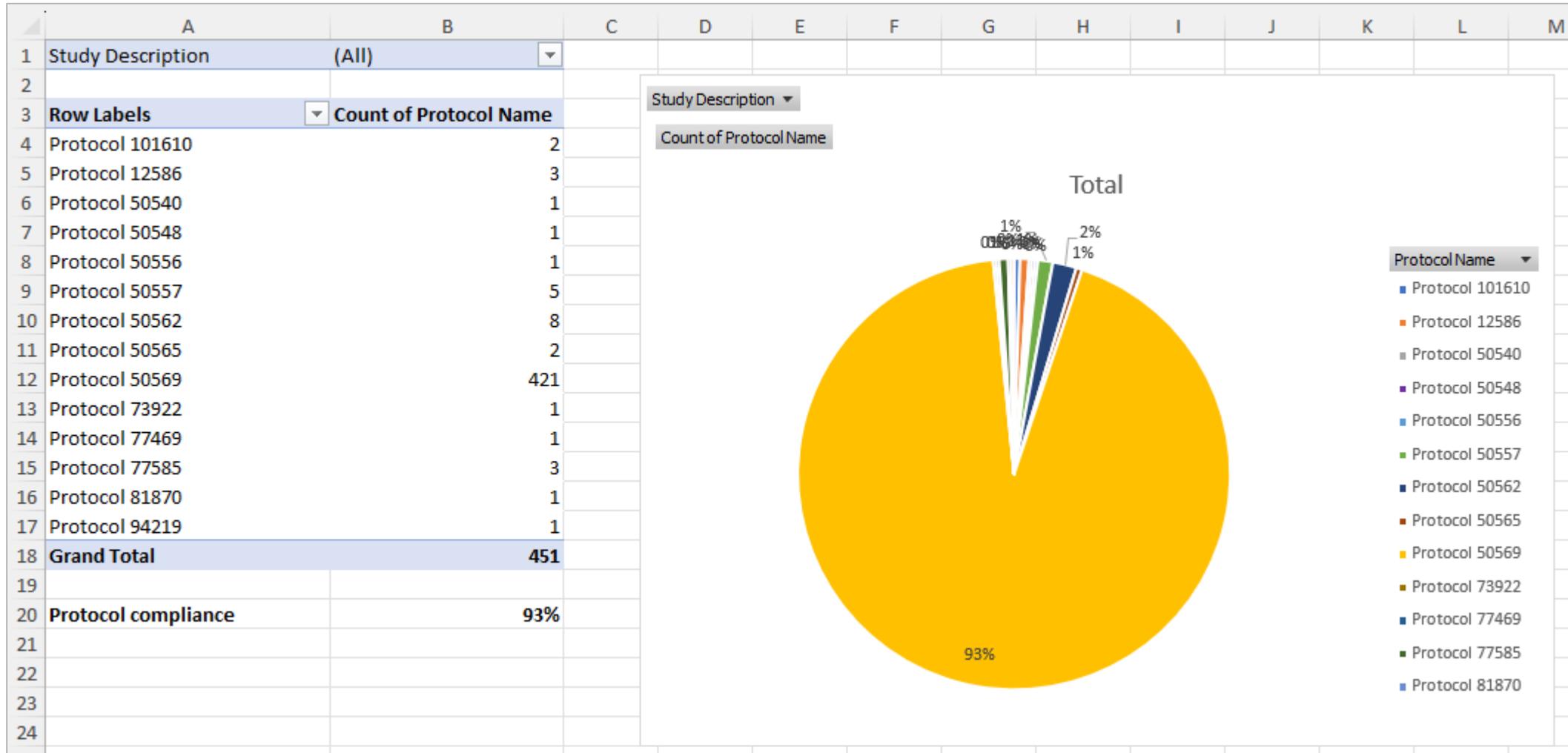


# Use Case: Protocol Usage Volume and Compliance with SOP



	N	O	P	Q	R	S	T	U	V	
1	am	Comparison Time Peric	ACR Exam ID	RPID	Exam Name	Body Area	Study Description	Scanner	Protocol Name	Study Date
2		2022 Q1 - Q4	475,123,152	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/19/2023
3		2022 Q1 - Q4	472,801,559	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1245	Protocol 50569	10/28/2023
4		2022 Q1 - Q4	473,537,662	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 3496	Protocol 12586	11/03/2023
5		2022 Q1 - Q4	477,053,259	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 3496	Protocol 12586	12/09/2023
6		2022 Q1 - Q4	477,309,236	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 3496	Protocol 12586	12/11/2023
7		2022 Q1 - Q4	475,502,109	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 3496	Protocol 77585	11/23/2023
8		2022 Q1 - Q4	474,540,457	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 3625	Protocol 50562	11/13/2023
9		2022 Q1 - Q4	478,256,729	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 3625	Protocol 50562	12/21/2023
10		2022 Q1 - Q4	473,407,537	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 3626	Protocol 50557	11/02/2023
11		2022 Q1 - Q4	476,163,587	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 3626	Protocol 50557	11/30/2023
12		2022 Q1 - Q4	472,183,725	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5315	Protocol 50562	10/22/2023
13		2022 Q1 - Q4	473,961,088	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5315	Protocol 50562	11/07/2023
14		2022 Q1 - Q4	474,334,863	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5315	Protocol 50562	11/11/2023
15		2022 Q1 - Q4	474,529,703	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5315	Protocol 50562	11/13/2023
16		2022 Q1 - Q4	475,564,317	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5315	Protocol 50562	11/24/2023
17		2022 Q1 - Q4	473,165,355	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5316	Protocol 50557	10/30/2023
18		2022 Q1 - Q4	476,475,370	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5316	Protocol 50557	12/03/2023
19		2022 Q1 - Q4	477,529,436	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 64105	Scanner 5316	Protocol 50557	12/14/2023
20		2022 Q1 - Q4	471,919,494	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/20/2023
21		2022 Q1 - Q4	472,051,590	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/21/2023
22		2022 Q1 - Q4	472,253,148	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/22/2023
23		2022 Q1 - Q4	472,374,271	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/23/2023
24		2022 Q1 - Q4	472,415,229	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/24/2023
25		2022 Q1 - Q4	472,475,766	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/25/2023
26		2022 Q1 - Q4	472,482,482	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/25/2023
27		2022 Q1 - Q4	472,807,162	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/28/2023
28		2022 Q1 - Q4	473,065,860	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	10/29/2023
29		2022 Q1 - Q4	473,403,025	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/02/2023
30		2022 Q1 - Q4	473,435,596	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/02/2023
31		2022 Q1 - Q4	473,397,794	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/02/2023
32		2022 Q1 - Q4	473,447,972	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/02/2023
33		2022 Q1 - Q4	473,623,559	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/04/2023
34		2022 Q1 - Q4	473,608,227	RPID16	CT CHEST WO IVCON	CHEST	Study Desc 43920	Scanner 1074	Protocol 50569	11/04/2023

# Use Case: Protocol Usage Volume and Compliance with SOP



# Use Case: Protocol usage volume and compliance with SOP



## Summary

- We used the DIR to find the scan protocol used in individual CT CHEST WO IVCON exams.
- Potential follow-up:
  - Education/discussion with technologist staff on protocol selection
  - Review the % SOP-compliance again after intervention

# Use Case: Comparison of a Specific Exam Across Multiple Facilities



Investigational question:

- How can I compare the performance for multiple facilities within my corporate account for exams with the highest volume?

Example:

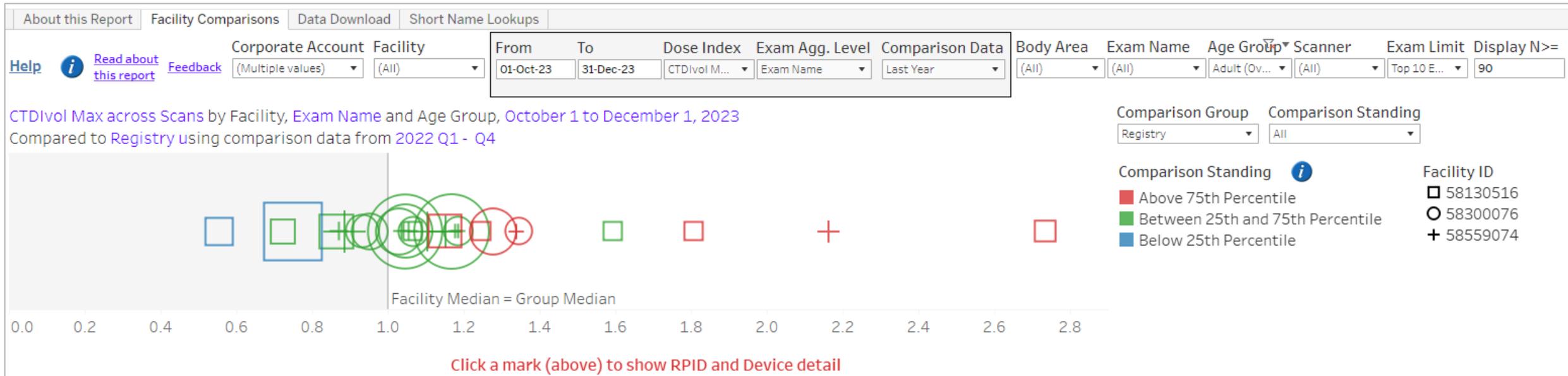
- Let's investigate performance of the facilities within my corporate account for the top 10 exams performed and then drill down to the details.

# Use Case: Comparison of a Specific Exam Across Multiple Facilities



## Report Parameters:

- Results for the last quarter in 2023
- Comparison to 2023 data (Last Year)
- Adults only
- For top-ten exams by volume
- For exam type volume of at least 90 cases for the quarter
- All body areas and exam names for all facilities
- Comparison group: Entire registry
- Comparison Percentile: All



# Use Case: Comparison of a Specific Exam Across Multiple Facilities



Comparison Data

Last Year

Body Area: (All) Exam Name: (All) Age Group: (All) Scanner: (All) Exam Limit: Top 10 E... Display N>= 90

Comparison Group: Registry Comparison Standing: All

Comparison Standing 

-  Above 75th Percentile
-  Between 25th and 75th Percentile
-  Below 25th Percentile

Facility ID

- 58130516
- 58300076
- 58559074



Facility: 58130516: Facility 23

2.4 Comparison Group: All DIR Facilities

Exam. Agg. Level: Exam Name

Comparison Study: CT C SPINE WO IVCON

Age Group: Adult (Over 18)

N: 377

The median CT DIvol Max across Scans for this facility is 55.3 which is 2.7 times the median of 20.3 and Above 75th Percentile for Comparison Group: All DIR Facilities.

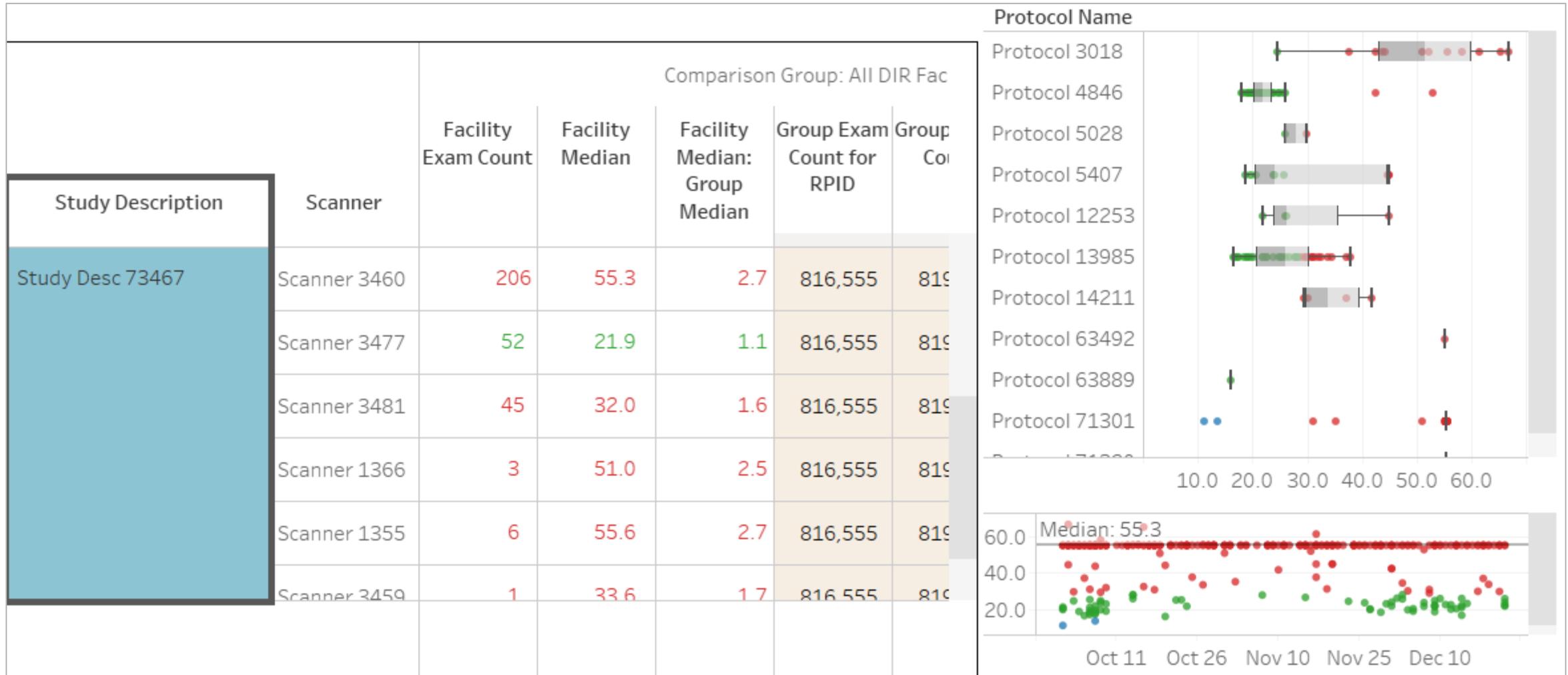
Click to drill down for more details.

# Use Case: Comparison of a Specific Exam Across Multiple Facilities

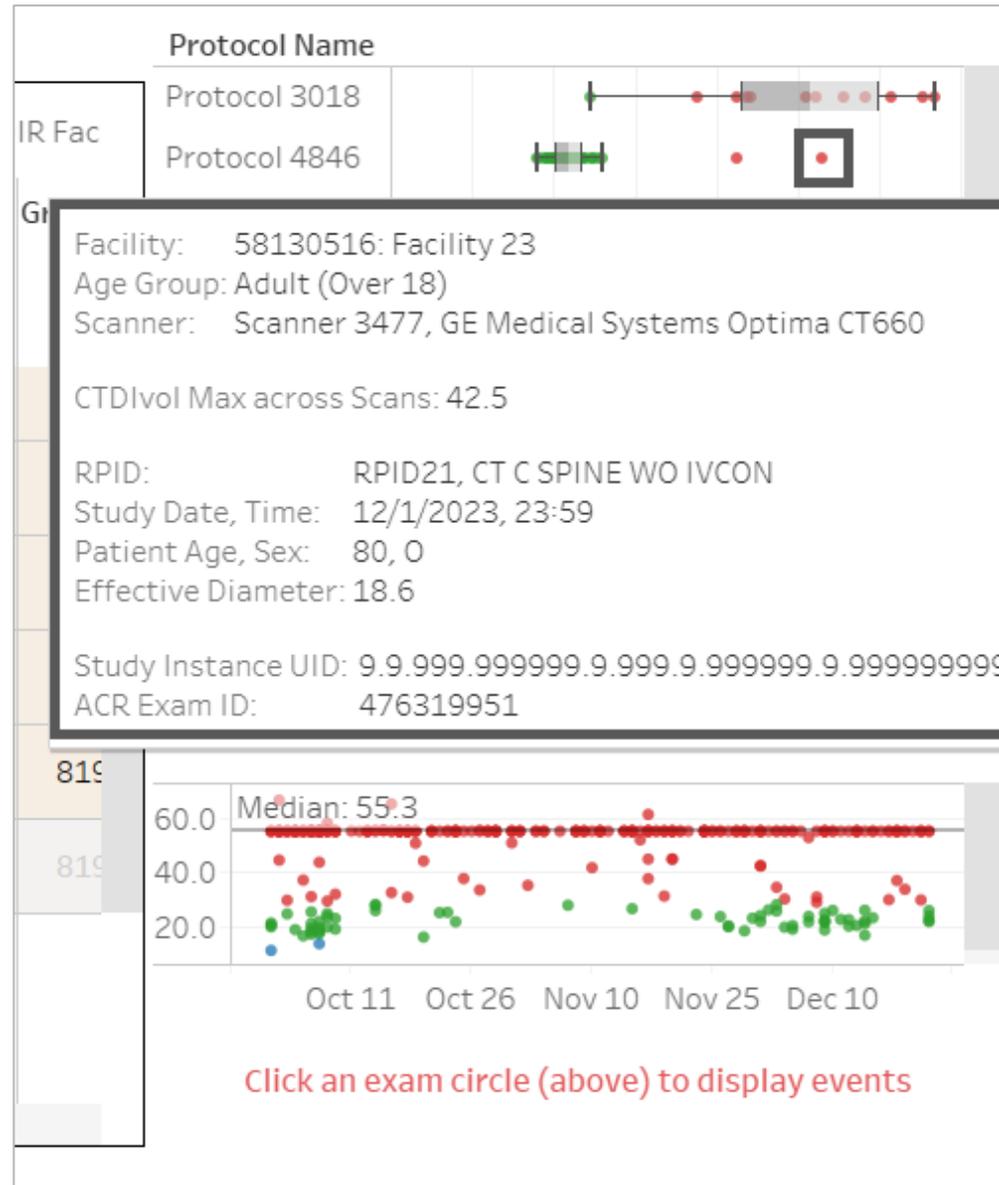


Facility	Comparison Study	Age Group	RPID	RadLex Name	Study Description	Scanner	Comparison Group: All DIR Facilities						
							Facility Exam Count	Facility Median	Facility Median: Group Median	Group Exam Count for RPID	Group Exam Count	Group Median	Group 75th %-ile
58130516: Facility 23	CT C SPINE WO IVCON	Adult (Over 18)	RPID21	CT C SPINE WO IVCON	Study Desc 16877	Scanner 3477	1	28.8	1.4	816,555	819,645	20.3	28.6
					Study Desc 73467	Scanner 3460	206	55.3	2.7	816,555	819,645	20.3	28.6
						Scanner 3477	52	21.9	1.1	816,555	819,645	20.3	28.6
						Scanner 3481	45	32.0	1.6	816,555	819,645	20.3	28.6
						Scanner 1366	3	51.0	2.5	816,555	819,645	20.3	28.6
						Scanner 1355	6	55.6	2.7	816,555	819,645	20.3	28.6

# Use Case: Comparison of a Specific Exam Across Multiple Facilities



# Use Case: Comparison of a Specific Exam Across Multiple Facilities





## Summary

- We used the DIR to identify a facility that had results for CT C SPINE WO IVCON above the 75<sup>th</sup> percentile as compared with all DIR Facilities.
- Potential follow-up:
  - Investigating dose reduction at the facility found to have a high dose index

# New Modality-Specific Registry Administrator Profiles



<b>TIN/NPI Summary Report</b>	<b>Add New User</b>	<b>View History</b>
<b>Facility Management</b>	<b>User Account</b>	New User
<b>Aggregate Reports</b>	<b>Status</b>	Active
<b>Facility Information</b>	<b>User Type</b>	Registry Administrator
<b>Link Exam to Facility</b>	<b>First Name</b>	
<b>Merge Patients Upload</b>	<b>Last Name</b>	
<b>Manage User Accounts</b>	<b>Facility ID</b>	100853
<b>Manage User Profiles</b>	<b>E-mail</b>	
<b>Quality Improvement Registries</b>	<b>Office phone</b>	
<b>CTC</b>	<b>Registries</b>	<input checked="" type="checkbox"/> NRDR <input type="checkbox"/> 3D Printing <input type="checkbox"/> Assess-AI <input type="checkbox"/> CDSR <input type="checkbox"/> CTC <input type="checkbox"/> DIR <input type="checkbox"/> GRID <input type="checkbox"/> LCSR <input type="checkbox"/> LI-RADS <input type="checkbox"/> MIPS <input type="checkbox"/> NMD
<b>DIR</b>	<b>DIR Modality</b>	<input checked="" type="checkbox"/> CT <input type="checkbox"/> Fluoro <input type="checkbox"/> DR <input type="checkbox"/> NM
<b>GRID</b>		
<b>LCSR</b>		
<b>MIPS Participation Portal</b>		
<b>NMD</b>		
<b>3D Printing</b>		
<b>Portal Management</b>		
<b>Account Balance Report</b>		
<b>Aggregate Reports Upload</b>		
<b>Aggregate Reports Backend Upload History</b>		
<b>Application Completed Worklist</b>		
<b>Broadcast Message</b>		
<b>Comments</b>		
<b>Data Upload Applications</b>	<b>Add</b>	<b>Cancel</b>

Step 1: select "Registry Administrator" for User Type

Step 2: select "DIR" for Registries

Step 3: select desired DIR Modalities

# New RPID/Text Search in Exam Name Mapping Tool



Search RPID

Search RPID

Population	select	Laterality	select
Body Region	Select options	Reason for Exam	select
Modality Modifier	select	Technique	select
Procedure Modifier	select	IV Contrast	select
PlayBook Type	select	Modality	select
Anatomic Focus	select	RPIDCode/Shortname	<input type="text"/> Search Clear

	RPIDcode	Short Name
<input type="radio"/>	RPID1	CT ABD PELVIS LE ANGIO WO & W IVCON
<input type="radio"/>	RPID10	CT LE ANGIO RT WO & W IVCON
<input type="radio"/>	RPID100	CT CHST ANGIO HEART CONG DX WO & W IVCON
<input type="radio"/>	RPID101	CT CHST COR ARTS CALC SCORE WO IVCON
<input type="radio"/>	RPID102	CT CHST ANGIO HEART STRUCT MORPH WO & W IVCON
<input type="radio"/>	RPID103	CT RECON BILAT PREOP
<input type="radio"/>	RPID104	CT RECON BILAT POSTOP
<input type="radio"/>	RPID105	CT HEAD SELLA W IVCON
<input type="radio"/>	RPID106	CT HEAD SELLA WO IVCON
<input type="radio"/>	RPID107	CT UE WO & W IVCON
<input type="radio"/>	RPID108	CT UE W IVCON

Page 1 of 69 20 View 1 - 20 of 1,378

Assign RPID

# Trauma Exams



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

**Search Exam**

Exam: trauma

Exams
<input type="checkbox"/> Abdomen^TRAUMA ABDOMEN_PELVIS
<input checked="" type="checkbox"/> Head^TRAUMA_HEAD
<input type="checkbox"/> Thorax^TRAUMA
<input type="checkbox"/> Thorax^TRAUMA_CAP_W_SPINE

Note: You can tag the selected exams by :  
1) assigning an RPID using the 'Search RPID' button

Search RPID

**Search RPID**

Population: select, Laterality: select, Body Region: Select options, Reason for Exam: select, Modality Modifier: select, Technique: select, Procedure Modifier: select, IV Contrast: select, PlayBook Type: select, Modality: select, Anatomic Focus: select, RPIDCode/Shortname: trauma, Search, Clear

RPIDcode	Short Name
<input type="radio"/> RPID405	CT CRST ABD PELVIS TRAUMA W IVCON
<input type="radio"/> RPID1010	CT ABD SPINE TRAUMA WO IVCON
<input type="radio"/> RPID1198	CT LE TRAUMA WO IVCON
<input type="radio"/> RPID1212	CT CHST ABD PELVIS RECON TRAUMA W IVCON
<input type="radio"/> RPID1261	CT TRAUMA
<input type="radio"/> RPID1263	CT UE SHLDER TRAUMA WO IVCON
<input type="radio"/> RPID1313	CT CHST ABD T SPINE PELVIS TRAUMA WO IVCON
<input type="radio"/> RPID1333	CT CHST ABD PELVIS ANGIO TRAUMA WO & W IVCON
<input type="radio"/> RPID1464	CT HEAD 3D IMAGE FACL BNS TRAUMA WO IVCON
<input checked="" type="radio"/> RPID1807	CT HEAD TRAUMA WO IVCON
<input type="radio"/> RPID1813	CT HEAD NECK C SPINE FACE CHST MULTI PLAN REF TRAUMA

Page 1 of 1, 20, View 1 - 11 of 11, Assign RPID

# Q&A





## Next Webinar in the DIR Training Series



Join the ACR for part 2 of Maximizing Your DIR CT Reports

**Feb. 6, 12-1pm ET | Monitoring Performance with the DIR CT  
Administrative Aggregate Report**

Share with your colleagues:



<https://pages.acr.org/2024-DIR-Webinar-Series.html>





WHEN YOU GET TO THE  
END OF YOUR ROPE

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- **Phone:** 1-800-227-5463 x3535
- **Web:** <https://nrdrsupport.acr.org>