



# ASR Office Hours

**October 29, 2024**

Improving spine care through **data.**

# American Spine Registry



*A partnership between  
American Association of Neurological Surgeons  
American Academy of Orthopaedic Surgeons*

**Thank you for joining us today!**

**The webinar will begin at:**

**1 PM ET, 12 PM CT, 11 AM MT, 10 AM PT**

**We look forward to your participation!**

# TOPICS

- Registry Insights Dashboard Overview
- Enhancing Spine Data Utility with Dashboard Filters
- Participant Tools and Resource Updates
- Support Questions
- Q/A

# American Spine Registry



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*American Academy of Orthopaedic Surgeons*

## **Registry Insights Dashboard Overview**

# Dashboard | Access Overview

The screenshot displays the Registry Insights Portal dashboard. At the top left is the AAOS logo (American Academy of Orthopaedic Surgeons) and the 'registry insights' logo. To the right of the logos are navigation links: 'Registry Insights Report Password', 'Feedback & Support', 'Update Password', and 'Sign out'. Below the navigation is a red 'HOME' button. The main section is titled 'My Registries' and contains five registry cards: 'AJRR AMERICAN JOINT REPLACEMENT REGISTRY' (yellow), 'MsTR MUSCULOSKELETAL TUMOR REGISTRY' (blue), 'SER SHOULDER & ELBOW REGISTRY' (dark blue), 'American Spine Registry' (with subtext 'A partnership between American Association of Neurological Surgeons and American Academy of Orthopaedic Surgeons'), and 'FTR FRACTURE & TRAUMA REGISTRY' (purple). The footer contains copyright information '© 2012 - 2024 American Academy of Orthopaedic Surgeons', 'Feedback', 'Privacy Policy', and 'Version: 2023.11.0.286'.

Registry dashboards are available 'on demand' when logging in to the Registry Insights Portal

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Data is refreshed nightly

# Dashboard | Access Overview

There are two dashboard views available:

## Registry Authorized User:

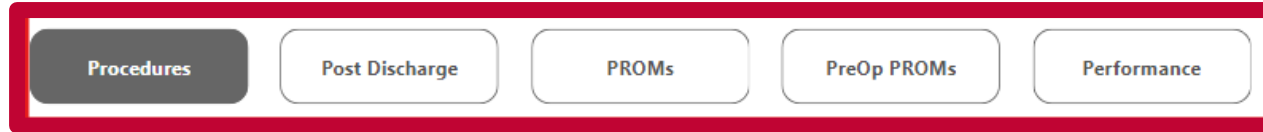
- Administrative users at participating sites
- These users can view data for their site or for multiple sites within a system

## Surgeon Authorized User:

- Individual surgeon users at participating sites
- These users can view data for their procedures only
- These accounts are setup by the participating site

The screenshot displays the 'Registry Insights' dashboard for the American Academy of Orthopaedic Surgeons (AAOS). The top navigation bar includes links for 'Registry Insights Report Password', 'Feedback & Support', 'Update Password', and 'Sign out'. Below the navigation bar, the 'HOME' section is visible. The main content area is titled 'My Registries' and features five registry cards: 'AJRR AMERICAN JOINT REPLACEMENT REGISTRY', 'MsTR MUSCULOSKELETAL TUMOR REGISTRY', 'SER SHOULDER & ELBOW REGISTRY', 'American Spine Registry' (a partnership between the American Association of Neurological Surgeons and the American Academy of Orthopaedic Surgeons), and 'FTR FRACTURE & TRAUMA REGISTRY'. The footer contains copyright information for 2012-2024 AAOS and links for 'Feedback', 'Privacy Policy', and 'Version: 2023.11.0.286'.

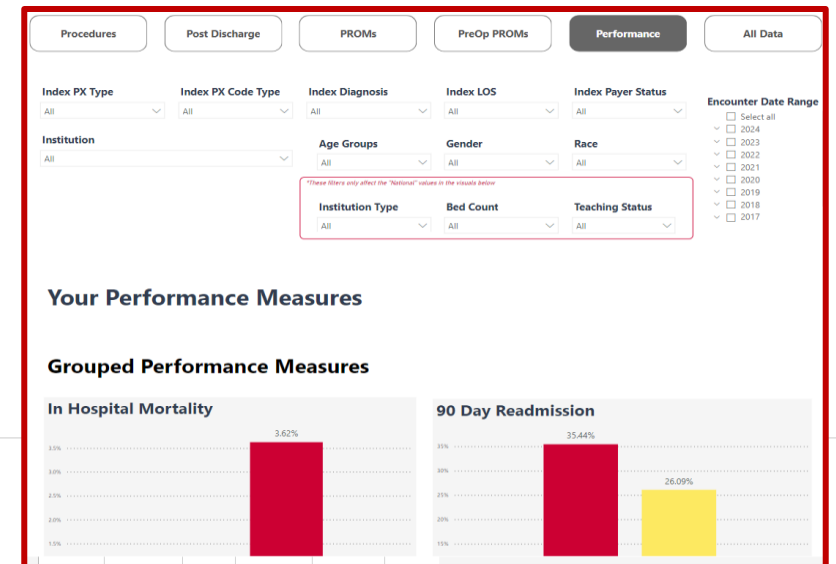
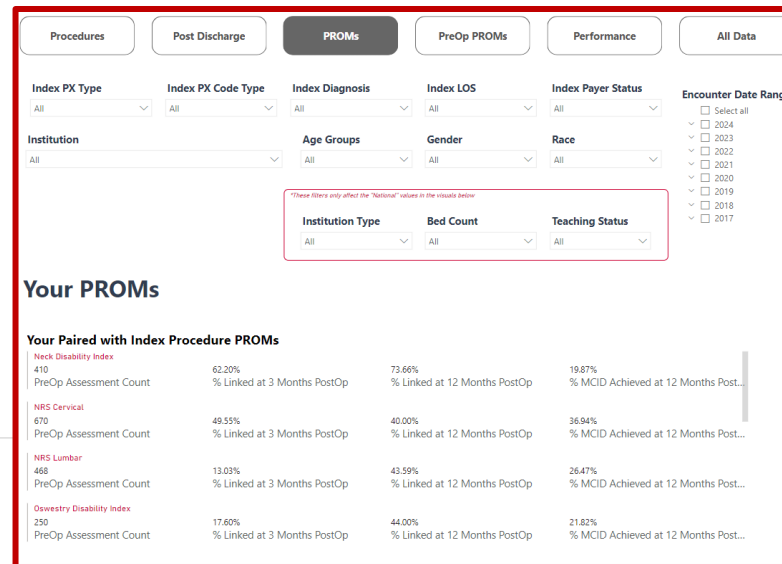
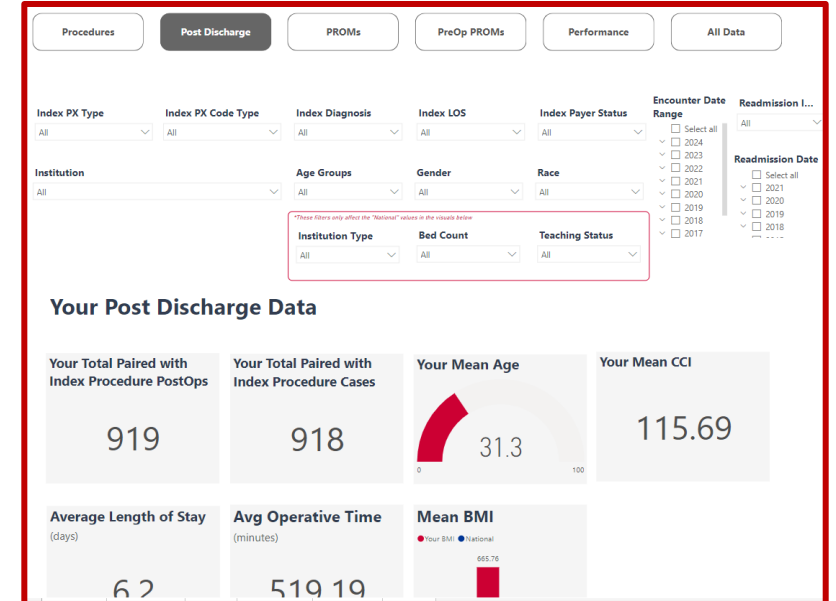
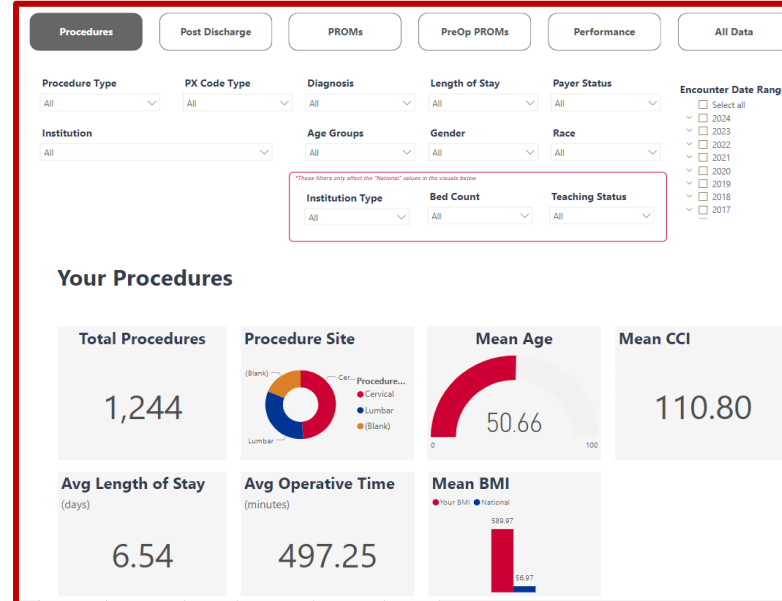
# Dashboard | **Tabbed View Summary**



Tab	Description
Procedures	Displays aggregate case data for an individual institution, health care system or surgeon for comparisons against National and/or System Data for a specific registry
Post Discharge	Displays aggregate readmission case data for an individual institution, health care system or surgeon for comparisons against National and/or System Data for a specific registry
PROMs	Displays aggregate patient reported outcome data for an individual institution, health care system or surgeon for comparisons against National and/or System Data for a specific registry
PreOp PROMs	Displays aggregate preoperative patient reported outcome data for an individual institution, health care system or surgeon for a specific registry
Performance	Displays the quality program performance measure scores

# Dashboard Overview

- Procedures
- Post Discharge
- PROMs
- PreOp PROMs
- Performance





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## **Enhancing Spine Data Utility with Dashboard Filters**

# Introduction to Dashboard Filters

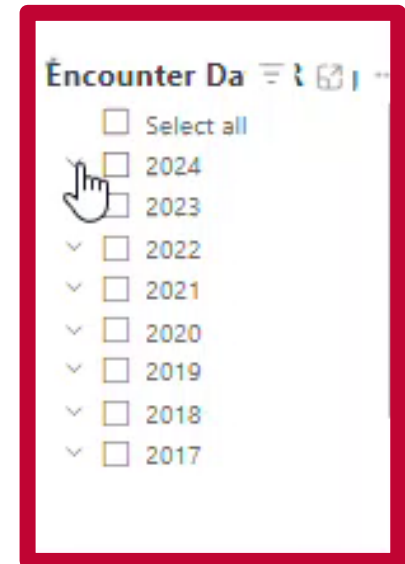
- Overview of dashboard filters and their importance
- How filters refine and customize data views
- Benefits of using filters for spine data analysis

# Dashboard Filters | Types of Filters

- Time-based filters
- Patient demographics
- Procedure-specific filters
- Institution type filters
- Payer status filters

# Dashboard Filters | Time-based Filters

- Helpful to analyze trends over specific time periods
- Can be used to track changes in patient outcomes over time.
  - Example: Filtering data to see how outcomes evolve each calendar year



# Dashboard Filters | Demographic Filters

- Helpful for understanding variability in outcomes due to demographics
  - Example: Filtering data by age group to identify how recovery differs across populations
- Use case: Identifying trends in complications or outcomes for older vs. younger patients

Diagnosis Length of Stay Payer Status

All All All

Age Groups Gender Race

All All All

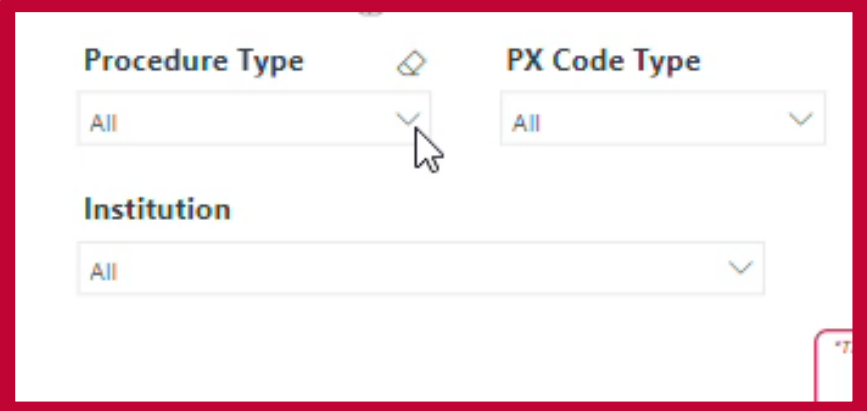
*\*These filters only affect the "National" values in the visuals below*

Institution Type Bed Count Teaching Status

All All All

# Dashboard Filters | Procedure-specific Filters

- Helpful for tailoring data based on specific procedures
  - Example: Identifying how a specific surgical approach impacts outcomes
  - Use case: Comparing different types of spinal surgeries and their effectiveness



The screenshot shows a dashboard filter interface with three dropdown menus. The first dropdown is labeled 'Procedure Type' and has a diamond icon to its right. The second dropdown is labeled 'PX Code Type'. The third dropdown is labeled 'Institution'. All three dropdowns currently show 'All' as the selected option. A mouse cursor is hovering over the 'Procedure Type' dropdown. The entire filter area is enclosed in a red rectangular border.

# Dashboard Filters | Procedure-specific Filters

## Cervical Procedures

### Fusion

- ACDF
- Posterior Fusion
- Anterior and Posterior Fusion

### Decompression

- Laminectomy
- Laminoplasty
- Foraminotomy
- Posterior Discectomy

### Corpectomy

- Corpectomy

### Arthrodesis

- Cervical Arthroplasty
- Removal of Hardware
- Odontoidectomy

# Dashboard Filters | Procedure-specific Filters

## Lumbar Procedures

### Fusion

- PLF
- TLIF or PLIF
- ALIF/LLIF
- Pelvic Fixation

### Decompression

- Laminectomy
- Discectomy

### Arthroplasty

- Lumbar  
Arthroplasty

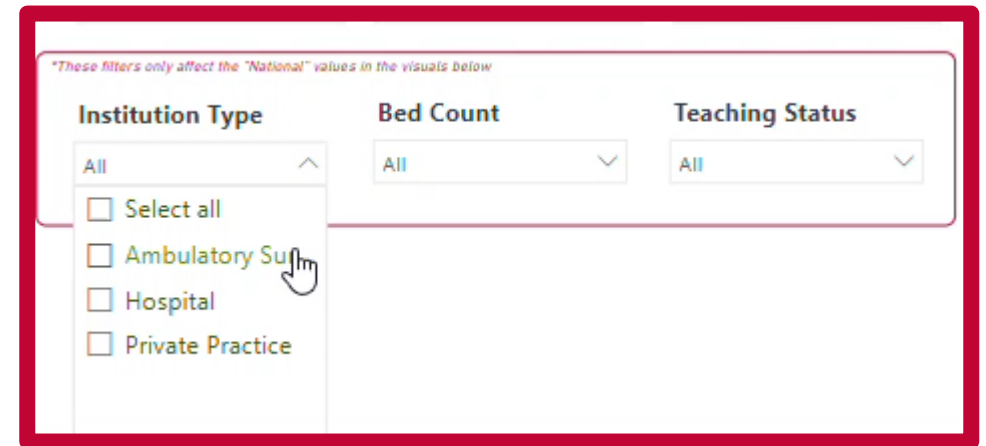
### Excision

- Corpectomy



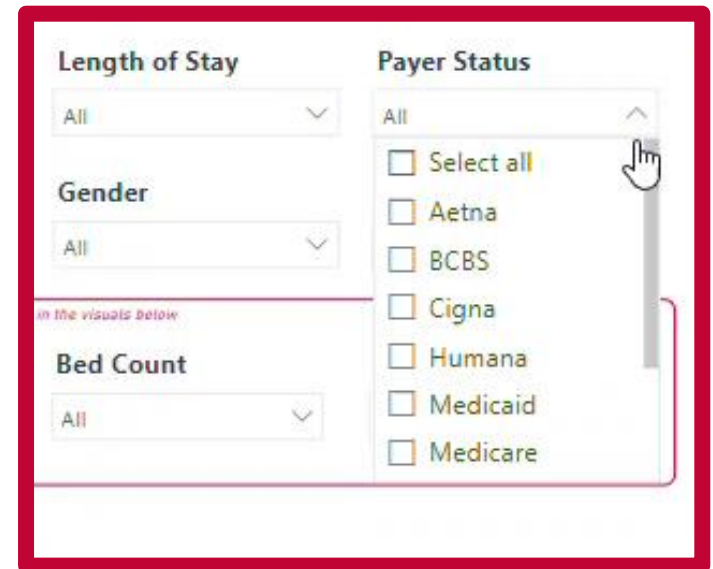
# Dashboard Filters | Institution type filters

- Helpful for filtering data based on institution type and size
  - Example: Using filters to focus only on data collected from major teaching hospitals
  - Use case: Comparing procedural outcomes against the national benchmarks from institutions of the same size and teaching status



# Dashboard Filters | Payer status filters

- Helpful for filtering data based on payer status
  - Example: Using filters to focus on patients with federally funded healthcare plans.
  - Use case: Assessing the outcomes of patients utilizing Medicaid vs patients utilizing commercial healthcare plans



# Dashboard Filters | Combining Filters

- Helpful for demonstrating how multiple filters can be combined for deeper insights
  - Example: Filtering by age, procedure type, and time interval to understand nuanced trends in spine surgery outcomes.

# Dashboard Filters | Combining Filters

Procedure Type: All | PX Code Type: All | Diagnosis: All | Length of Stay: All | Payer Status: All | Encounter Date Range:  Select all,  2024,  2023,  2022,  2021,  2020,  2019,  2018,  2017

Institution: All | Age Groups: All | Gender: All | Race: All

*\*These filters only affect the "National" values in the visuals below*

Institution Type: All | Bed Count: All | Teaching Status: All

### Your Procedures

<b>Total Procedures</b>	<b>Procedure Site</b>	<b>Mean Age</b>	<b>Mean CCI</b>
1,269		51.1	Your CCI: 111.51 National: 2.71
<b>Avg Length of Stay (days)</b>	<b>Avg Operative Time (minutes)</b>	<b>Mean BMI</b>	
Your LOS: 6.57 National: 3.15	Your OP Time: 498.92 National: 204.66		

Procedure Type:  Select all,  ACDF,  ALIF/LLIF,  ALIF/LLIF & Posteri...,  Anterior and Posteri...,  Corpectomy,  Discectomy | PX Code Type: All | Diagnosis: All | Length of Stay: All | Payer Status: All | Encounter Date Range:  Select all,  2024,  2023,  2022,  2021,  2020,  2019,  2018,  2017

Age Groups: All | Gender: All | Race: All

*\*These filters only affect the "National" values in the visuals below*

Institution Type: All | Bed Count: All | Teaching Status: All

### Your Procedures

<b>Total Procedures</b>	<b>Procedure Site</b>	<b>Mean Age</b>	<b>Mean CCI</b>
1,269		51.1	Your CCI: 111.51 National: 2.71
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Your LOS: 6.57 National: 3.15	Your OP Time: 498.92 National: 204.66		

# Dashboard Filters | Practical Applications

- Participating institutions can use filters for quality improvement initiatives.
  - Example: Identifying areas of care that need improvement based on filtered data insights
  - Use case: Monitoring outcomes for specific patient demographics or identifying high-complication procedures.

# American Spine Registry



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## **Tools and Resource Updates**

# Tools and Resources Updates

The screenshot displays the American Spine Registry (ASR) website interface. At the top left, the ASR logo is accompanied by the text "American Spine Registry" and "A partnership between American Association of Neurological Surgeons and American Academy of Orthopaedic Surgeons". To the right is the "registry insights" logo. A yellow "ASR" button is in the top right corner. A navigation bar contains links for "Registry Insights", "Report Password", "Feedback & Support", "Update Password", and "Sign out". Below this is a red navigation menu with categories: "HOME", "SEARCH", "PRO PORTAL", "DASHBOARD & REPORTS", "TOOLS & RESOURCES", "DATA MANAGEMENT", and "ADMINISTRATION". The "TOOLS & RESOURCES" menu is highlighted with a yellow border and lists: "Data Submission Tools", "PRO Tool Resources", "Orthopaedic Certification Toolkits", "CMS Resources", "Payer Programs", "Dashboard Guides", "Surgeon Resources", and "Release Notes". Below the menu, there are news updates: "7/12/24 The Tools and Resources section was updated to improve the organization of instructional documents. Explore the new layout in the menu." and "6/21/24 New visuals for the Blue Cross Blue Shield Blue Distinctive Performance Measures tab. View the 6.20 Release Notes in the Tools and Resources section to learn more." The "Stats" section features four cards: "Registry Total Procedures" (361.67 K), "Your Breakdown" (a donut chart showing Cervical at 55.95% and Lumbar at 44.05%), "Your Total Procedures" (1.27 K), and "Actual Cases" (Earliest Procedure: 8/26/2018, Latest Procedure: 7/28/2023).

*The Tools and Resources section has been updated to improve the organization of instructional documents. Explore the new layout in the menu.*

# Tools and Resources Updates | Post Op Guide

*This guide outlines the criteria for inclusion of post-operative cases to ASR*



## Inclusion Criteria Guide for Post-Operative Case File Submission

### Introduction:

The following guide outlines the criteria for inclusion of post-operative cases to the American Spine Registry to ensure comprehensive and accurate data submission.

### Inclusion Criteria

- Inclusion in Post-Operative File must pertain to patients who have been **readmitted or admitted** (if the index procedure was performed in outpatient setting) **within 90 days** of the index procedure date.
- Inclusion in the Post-Operative File also comprises cases where an unplanned return to the OR occurs within the same admission of the index procedure.
- Planned or Multistage procedures are **excluded** from the post operative file.
- Inclusion in the Post-Operative File comprises cases where readmission or admission (if the index procedure was performed in outpatient setting) has occurred for **any diagnosed cause**.
- **Each readmission episode may be submitted as a distinct case**, provided that the readmission episode for the patient occurs within 90 days of the index procedure date.
- While a readmission diagnosis code (**RE\_DX\_1**) is mandatory for inclusion, a procedure code (**RE\_PX\_1**) is optional.

### Required Data Fields

The following fields are required for processing Post-Operative Case files. Please consult the ASR Cervical and Lumbar Spine Module Data Specifications for detailed descriptions of acceptable values for each field.

Field Name	
Registry	Required for Processing
Module	Required for Processing
Version	Required for Processing



# Tools and Resources Updates | PROMs Guide

*This guide offers resources for accessing Patient-Reported Outcome Measures (PROMs) approved by ASR*



## American Spine Registry Patient-Reported Outcome Measures Resource Guide

### Introduction:

This guide offers resources for accessing Patient-Reported Outcome Measures (PROMs) approved by the American Spine Registry.

### General Health Assessment Patient-Reported Outcome Measures:

PROMIS-10 Global	[PDF]	<a href="#">Web Version with scoring</a>	MCID* data and visualized metrics for this measure are available in the dashboard.  This measure can be used to calculate the numerator for TJC ACSS-04 and ACSS-08 measures.
VR-12	[PDF]	<a href="#">Web Version with scoring</a>	MCID* data and visualized metrics for this measure are available in the dashboard.  This measure can be used to calculate the numerator for TJC ACSS-04 and ACSS-08 measures



### Spine Specific Patient-Reported Outcome Measures:

NDI	[PDF]	<a href="#">Web Version with scoring</a>	MCID* data and visualized metrics for this measure are available in the dashboard.  This measure can be used to calculate the numerator for TJC ACSS-04 and ACSS-08 measures
ODI	[PDF]	<a href="#">Web Version with scoring</a>	MCID* data and visualized metrics for this measure are available in the dashboard.  This measure can be used to calculate the numerator for TJC ACSS-04 and ACSS-08 measures
ODI 2.0	[PDF]		MCID* data and visualized metrics for this measure are available in the dashboard.  This measure can be used to calculate the numerator for TJC ACSS-04 and ACSS-08 measures

\* Minimal Clinically Important Difference (MCID) is defined as the smallest change in a treatment outcome that an individual patient would identify as important, and which would indicate a change in the patient's management.

# Support Questions

The screenshot shows the American Spine Registry website interface. At the top left, the logo for American Spine Registry is displayed, along with the text "A partnership between American Association of Neurological Surgeons and American Academy of Orthopaedic Surgeons". To the right is the "registry insights" logo. In the top right corner, there is an "ASR" logo and a navigation menu with links for "Registry Insights Report Password", "Feedback & Support", "Update Password", and "Sign out". The "Feedback & Support" link is highlighted with a yellow box, and a yellow arrow points to it from the "DATA MANAGEMENT" menu item in the red navigation bar below. The navigation bar also includes links for "HOME", "SEARCH", "PRO PORTAL", "DASHBOARD & REPORTS", "TOOLS & RESOURCES", "DATA MANAGEMENT", and "ADMINISTRATION". Below the navigation bar, there are sub-links for "HOME", "PROM HOME", and "INDUSTRY HOME". The main content area features three news items: "7/12/24 The Tools and Resources section was updated to improve the organization of instructional documents. Explore the new layout in the menu.", "Registry Insights SFTP Changes. Refer to the announcement below.", and "6/21/24 New visuals for the Blue Cross Blue Shield Blue Distinction program were added to the Performance Measures tab. View the 6.20 Release Notes in the Tools and Resources section to learn more." Below the news items is a "Stats" section with four cards: "Registry Total Procedures" (361.92 K), "Your Total Procedures" (361.92 K), "Your Breakdown" (a donut chart showing NR (0%), Cervical (32.93%), and Lumbar (67.07%)), and "Actual Cases" (Earliest Procedure: 4/16/2015, Latest Procedure: 7/12/2024).

American Spine Registry  **registry insights** 

[Registry Insights Report Password](#) [Feedback & Support](#) [Update Password](#) [Sign out](#)

[HOME](#) [SEARCH](#) [PRO PORTAL](#) [DASHBOARD & REPORTS](#) [TOOLS & RESOURCES](#) [DATA MANAGEMENT](#) [ADMINISTRATION](#)

[HOME](#) [PROM HOME](#) [INDUSTRY HOME](#)

7/12/24 The Tools and Resources section was updated to improve the organization of instructional documents. Explore the new layout in the menu.

Registry Insights SFTP Changes. Refer to the announcement below.

6/21/24 New visuals for the Blue Cross Blue Shield Blue Distinction program were added to the Performance Measures tab. View the 6.20 Release Notes in the Tools and Resources section to learn more.

### Stats

**Registry Total Procedures**


361.92 K

**Your Total Procedures**

361.92 K

**Your Breakdown**

- NR (0%)
- Cervical (32.93%)
- Lumbar (67.07%)



**Actual Cases**

Earliest Procedure  
4/16/2015

Latest Procedure  
7/12/2024

# Questions?

[Info@AmericanSpineRegistry.org](mailto:Info@AmericanSpineRegistry.org)

[www.americanspineregistry.org](http://www.americanspineregistry.org)

Improving spine care through **data.**