New American Spine Registry Dashboard Enhancements You Should Know About

Presented by:
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Learning Objectives

• Learn about ASR progress
• View an overview of the dashboard updates
• Learn what contributes to the future of ASR
• Understand how to join the ASR
Current ASR Status
ASR Participation and volume

- Over 250 participating sites contracted and 600 registered surgeons across all 50 states

- Data representing over 100,000 procedures and over 90,000 patients
ASR Milestones
ASR Milestones

March 2019
Collaboration between AANS & AAOS

March 2020
First Conference Presence for ASR at Spine Summit 2020

October 2020
ASR Launches on AAOS’ Common Registry Model Platform

July 2021
Launch of TJC’s ACSS – Requires ASR Participation

August 2021
Performance Measure Dashboard Enhancements to Institution & Surgeon Visuals for ASR Cervical / Lumbar Fusion Procedures and Labeling Updates

March 2021
Launch of ASR Fact Sheet

- January 2020
  - Launch of ASR

- May 2020 – September 2020
  - ASR Surgeon Leaders Provide Clinical Guidance in the Development of Performance Measures for TJC’s ACSS

- December 2020
  - Milestone: 160 Sites Contracted with ASR

- April 2021
  - CMS Data Received

- January – April 2022
  - ASR Dashboard enhancements

- December 2021
  - ASR reaches 250 participants
**Surgeon Dashboard Update Overview**

**New Features and Updates:**

<table>
<thead>
<tr>
<th>Overall Dashboard Updates</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Merged All (National) and Your tabs</td>
<td>• Add ASR Specific Filters to Dashboard</td>
</tr>
<tr>
<td>• One chart with your surgeon data and comparison against national</td>
<td>• Approach filter</td>
</tr>
<tr>
<td></td>
<td>• Primary vs Revision - Procedure Status</td>
</tr>
<tr>
<td></td>
<td>• Change dashboard default to Lumbar</td>
</tr>
<tr>
<td></td>
<td>• Primary Diagnosis</td>
</tr>
<tr>
<td>PROMs</td>
<td></td>
</tr>
<tr>
<td>• New 3-month PROMs visual</td>
<td><strong>Structural Pathology</strong></td>
</tr>
<tr>
<td>• Update to PROMs view</td>
<td>• Split into two visuals one for <strong>cervical</strong> and one for <strong>lumbar</strong></td>
</tr>
<tr>
<td>• Added ODI 2.0 on PROMs</td>
<td>• Disclaimer text under these charts</td>
</tr>
<tr>
<td>• Pre-Op Dashboards</td>
<td></td>
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<tr>
<td>• New Pre-Op PROMs tab added</td>
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</table>

**Procedural Discharge Disposition Rate**
- Display Several Procedure Types per Case
- Added procedure type categories

**Disclaimer text under these charts**

**ASR™**
ASR Dashboard Enhancements

✓ New landing page: Lumbar Module
✓ Updated data filters:  
  ▪ Approach,  
  ▪ Primary vs Revision,  
  ▪ Primary Diagnosis
✓ Removal of Anesthesia Type chart
✓ Removal of Surgical Times chart
✓ Combined Institution and National tab

As part of our user engagement plan, enhancements were communicated to ASR users via email on 02.02.2022
Merged National Data and Your Procedures Tab

- Added procedure type count, mean procedure age, and LOS by procedure type
Your Procedures | National and Your Procedure Data

Comorbidities Present upon admission for your site, system, and nationally

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Structural Pathology-split into Cervical and Lumbar Charts

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Complications

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Average Length of Stay
All Post-Operative Data | National and Your 90 Day Readmission Data

- Tiles display total aggregate view of National Data for Post-Operative Procedures
- Now National and site/surgeon level data are on the same tab
- Calculation Details
  - **Linked postops** = the number of postop encounters linked to a patient with a replacement procedure by patient ID, anatomical site, and laterality.
  - **Linked cases** = same as above, but this identifies the number of linked readmissions on a case-level, excluding multiple encounters.
All Post-Operative Data | National and Your 90 Day Readmission Data

Count of Top 10 Diagnosis and Procedure Codes for Your Institution & System
**All PROMs Data** | National and Your PROMs Data

### Your PROMs

<table>
<thead>
<tr>
<th>PROM</th>
<th>Your Procedures</th>
<th>Your 90 Day Readmission Data</th>
<th>Your PROMs</th>
<th>Your Performance Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Your Paired with Index Procedure PROMs</strong></td>
<td></td>
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<tr>
<td>Neck Disability Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>25.00%</td>
<td>0.00%</td>
<td>(Blank)</td>
<td>% MCID Achieved at 12 Months PostOp</td>
</tr>
<tr>
<td>PreOp Assessment Count</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRS Cervical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>25.00%</td>
<td>0.00%</td>
<td>(Blank)</td>
<td>% MCID Achieved at 12 Months PostOp</td>
</tr>
<tr>
<td>PreOp Assessment Count</td>
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<td></td>
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<tr>
<td>NRS Lumbar</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>434</td>
<td>13.36%</td>
<td>46.08%</td>
<td>30.00%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
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<tr>
<td>PreOp Assessment Count</td>
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<tr>
<td>Oswestry Disability Index</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>231</td>
<td>18.61%</td>
<td>46.75%</td>
<td>26.02%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
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<tr>
<td>PreOp Assessment Count</td>
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</table>

### Paired with Index Procedure PROMs Nationally

<table>
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<tr>
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<tr>
<td>Neck Disability Index</td>
<td></td>
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</tr>
<tr>
<td>4902</td>
<td>51.24%</td>
<td>36.94%</td>
<td>68.24%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
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<tr>
<td>PreOp Assessment Count</td>
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<tr>
<td>NRS Cervical</td>
<td></td>
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</tr>
<tr>
<td>8246</td>
<td>51.39%</td>
<td>38.52%</td>
<td>69.81%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
</tr>
<tr>
<td>PreOp Assessment Count</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>NRS Lumbar</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>16051</td>
<td>54.50%</td>
<td>42.00%</td>
<td>72.05%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
</tr>
<tr>
<td>PreOp Assessment Count</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oswestry Disability Index</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9150</td>
<td>54.09%</td>
<td>41.16%</td>
<td>72.11%</td>
<td>% MCID Achieved at 12 Months PostOp</td>
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- Your Institution or Your Surgeon Data vs. National PROMs collection
  - # of received PROMs for Pre-op, 3-month, and 1-year follow up surveys
  - % of Pre-op PROMs linked to a post-op PROM
  - % minimal clinically important difference (MCID) Achieved at 12 months post-op
• Added a new 3-month interval benchmark to accompany pre-op and 1-year post-op PROMs
• Benchmarked PROMs
  • ODI
  • NDI
  • NRS pain scale
  • VR-12
  • PROMIS-10
  • ODI 2.0
All PROMs Data | National and Your PROMs Data

- Added new version of ODI--->ODI 2.0
- New Pre-op PROM dashboard to display only Pre-Op Scores
Future of ASR
### Future of ASR

- **ASR aims to incorporate participant feedback for continuous improvement**
- **New PRO Portal enhancements for User Experience**
- **Updates to ASR Data Dictionary to clarify data elements**
- **Ease Participant data submission burden by providing improved error messaging and additional data extract development support**
- **ASR will be launching a user group network to connect sites and maximize the data provided by the registry**
- **ASR to provide research capability**
Confirmed ROI for participants include:

- ABOS Maintenance of Certification (MOC) and ABNS Continuous Certification (CC) Programs
- Aetna Institutes of Quality (IOQ) Orthopaedic Surgery
- BlueCross BlueShield Blue Distinction Specialty Care
- Centers for Medicare & Medicaid Services (CMS) Merit-based Incentive Payment System (MIPS) Quality Payment Program (QPP)
- CMS Bundled Payments for Care Improvement Advanced (BPCI-A)
- CMS MIPS Promoting Interoperability (PI)
- The Joint Commission's Advanced Certification for Spine Surgery (ACSS)
- DNV GL Orthopaedic Center of Excellence

For more information visit: [www.americanspineregistry.org/data-reuse-opportunities/](http://www.americanspineregistry.org/data-reuse-opportunities/)
Unique Capabilities

- ASR provides the first ever national database to longitudinally track implant survivorship in spine patients, focused on:
  - Using data to inform spine practice through actionable feedback to care teams
  - Accepting historical data back to ICD-10 implementation (late 2015, early 2016)
  - Learning from patient reported outcomes alongside clinical outcomes and implant survivorship
  - Improving coding and documentation for spine procedures
  - Providing a resource for device surveillance and monitoring for early implant failures
How to Join ASR
Steps to a Successful Start

Contract & Welcome
- Execute contract
- Schedule a welcome call to identify your site’s key contacts and roles with the Registry

Data Collection & File Build
- Walk through file development and file build
- File submission (SFTP/HTTPS) account creation

Test File Submission
- Two rounds of test file submissions

Live File Submission
- Final production set up and first live data submission

RegistryInsights® Walkthrough
- Once data has been submitted, sites will have a walkthrough with staff to review dashboards, reports, PROMs, and other platform functionality

For Questions Contact: Info@AmericanSpineRegistry.org
Why Join?
Delivering Value for AANS & AAOS Spine Surgeons

- On-demand practice and surgeon specific dashboards
- **Comparison** to national performance benchmarks
- **Monitor** longitudinal patient outcomes (Medicare data)
- **Qualify** for national distinction programs (Aetna, AAAHC, Blue Distinction, DNV, TJC)
- **CMS quality improvement programs** (MIPS & BPCI-A)
- Improve the **value of care** delivered to patients
- Maintenance of Certification credit (ABOS and ABNS)
  - 10 SAE Credits for ABOS
Questions