



CMS 2025

Quality Conference

Make America Healthy: Improving Health Outcomes Through Prevention, Quality, and Safety

Come to the Data & Explore the CCSQ Data and Analytics Roadmap

July 2025



Speakers



Manoj Nagelia

Sr. Technical Advisor | Quality
Systems Governance, Engineering,
and Development | CMS



Justyna Sardin

Technical Advisor | Quality
Systems Governance, Engineering,
and Development | CMS

Agenda

- Come to the Data!
- Our Mission: Supporting our users to ensure success
- Strategic Roadmap and Technological Direction of the CDR (Centralized Data Repository)
- Q&A

Come to the Data!

The philosophy of "Come to the Data" emphasizes the importance of centralized, well-governed data management, which inherently reduces unnecessary duplication and optimizes resource utilization. By allowing users and systems to access data where it resides, rather than creating costly data silos or redundant storage, this approach aligns with effective cost management strategies while also ensuring:

- High security compliance
- Detailed monitoring of usage and enhanced transparency to ensure compliance
- Improved accessibility of data
- Reduction of data duplication
- Alignment with cost management strategies

Come to the Data! What does this mean for you?

At Centers for Clinical Standards & Quality (CCSQ), we have adopted the ‘Centralized Data Repository (CDR) First’ approach to support “Come to the Data” initiative. What does this mean for you?

- All initiatives that you work on (related to Quality Programs) need to occur within the CDR ecosystem.

What if that’s not an option for you?

- Let’s chat- We can discuss your use case to help us understand any gaps that we, as the CDR Team may have. We will work with your teams, to find what right can look like whether that be in CDR, or with of our partner components (i.e., the Integrated Data Repository (IDR)). We are constantly evaluating our communities needs to ensure we are providing solutions that align with “Come to the Data” initiative.

Addressing end users' needs with the Databricks Platform

Struggling with writing code in modern open-source languages or navigating Databricks efficiently?

You're not alone. Many users have expressed the need for better guidance when coding, querying data, or troubleshooting issues.

- That's why we're thrilled to introduce **Databricks Assistant**—your AI-powered coding companion designed to streamline your workflow. Whether you're writing **R**, **Python**, **SQL**, or **Scala**, Databricks Assistant provides real-time recommendations, automates repetitive tasks, and helps you unlock insights faster—all within the Databricks environment.

Experiencing performance slowdowns during peak usage? We have a solution!

- With **Databricks Jobs Clusters**, you get **personal, isolated compute environments**, ensuring that your work isn't impacted by shared workloads. This means faster execution, dedicated resources, and a more secure development experience.

We're committed to making your Databricks experience even better—stay tuned for more AI-driven innovations!

Addressing end users' needs with the CCSQ Data & Analytics Portal (1 of 3)

The CCSQ Data & Analytics Portal is a one-stop shop to find resources related to data and analytics to support the CCSQ mission to improve outcomes, beneficiary health and reduce health care costs.

Would you like to be able to share data with others without needing to open a ticket to do so?

- You'll be able to do just that with Portals self-managed **Data Publishing** feature. Users will be able to select and publish their data assets to the CDR for general use.

Want to easily grant permissions to your Data File and Folders within Databricks?

- We hear you, so we are enabling admins to have control over object permissions within their organization. Streamline applying and managing object-locking to prevent unauthorized modifications or accidental deletions.

Addressing end users' needs with the CCSQ Data & Analytics Portal (2 of 3)

Do you find that you constantly need to restore or archive files?

- You'll soon be able to restore, archive/unarchive, and mark/unmark data as read-only effortlessly.

We understand that sometimes your Databricks jobs require increased cluster sizing and memory, but opening a ticket and waiting for approvals can be a pain.

- Get ready for **Databricks our Self-service Cluster Configuration feature**. You'll gain flexibility with on-demand memory increases, cluster sizing adjustments, and the ability to add necessary libraries and packages.

Addressing end users' needs with the CCSQ Data & Analytics Portal (3 of 3)

Wouldn't it be nice to have the ability to contribute and share data assets across teams and external organizations?

- We agree, we are working on a solution that will allow you to do just that, while ensuring that proper permissions are enforced.

Do you find yourself needing to locate specific Data & Analytics trainings, demos, or Knowledgebase articles?

- We're creating an improved **Training Hub** to help Increase user comprehension of our tools and enhance logical flow of information and training based on user feedback.

We're committed to making data management easier, more secure, and more efficient for you. Stay tuned for these exciting updates!

Our Mission: Supporting our Users to Ensure Success!

New Features (1 of 2)

Converting old SAS Code to an open-source language such as Python shouldn't consume so much of your day.

- In January 2025, we released the **SAS2PY Code Conversion Tool** to our CCSQ community to help easily convert SAS procedures, data steps, and macros into Python. SAS2PY simplifies the process of modernizing code by automatically converting SAS code into Python which greatly reduces the manual effort to do so.

We understand that sometimes gaining access to critical healthcare data can be a hassle. Especially if the data you work with lives in two separate environments

- As a first step to help streamline your work, we're pleased to announce **Centralized Data Repository (IDR/CDR) Connectivity**. The first phase of this integration will provide access to Medicare Advantage Encounter Data (also known as Part C Encounter data).

Our Mission: Supporting our Users to Ensure Success!

New Features (2 of 2)

Want to save time and boost collaboration amongst your team and within the Data & Analytics Community?

- Welcome to the **Shared Code Repository** where you can share and reuse common code within the CCSQ D&A Portal to improve efficiency across teams.

We heard your feedback, and we agree! The current CCSQ Data Catalog has been hard to navigate, requires manual updates, and is just overall not the best user experience. It's time for that to change.

- Say goodbye to manual updates and a clunky experience. Our upcoming Data Catalog will enhance metadata accuracy, standardize documentation, and allow self-service updates—making CDR data easier to find and use.

Strategic Roadmap and Technological Direction of the CDR

- Coming in 2025:
 - SAS2PY Code Conversion Tool (Released January 2025)
 - IDR/CDR connectivity
 - Shared Code Repository
 - Self-Service Data Sharing in Portal
 - Datahub (Data Catalog Tool)
 - Enhanced Training Hub in Portal
 - Decommission SAS Viya
 - Community Collaboration Forum





CMS 2025

Quality Conference

Make America Healthy: Improving Health Outcomes Through Prevention, Quality, and Safety

Questions?

CCSQDataAnalytics@cms.hhs.gov

