



Planning Interval 28 Solution Demo



**End-Stage Renal Disease
Quality Reporting System
(EQRS)**

10/15/2024

Overview

- Program Updates
- Anemia Medications
- SDOH Patient Screening
- Emergency – Facility Report
- Database Migration to Aurora Serverless
- Scheduled Scaling
- Bucket Replication for CloudTrail Data
- Other DevSecOps Improvements
- Production Support
- Production Data Management
- Data Extracts & CDR
- Additional Tables in CDR for the NCC
- Downstream Updates for Form 2746 and 2728
- Transplant Research, Designs, and Survey
- Patient Search Enhancements
- Clinical Month Filtering for HD and PD Reports
- Automated Email Notifications for Emergency Module

Anemia Medications

- **Business Value:**
 - Update clinical to capture oral medications used to treat anemia in dialysis patients.
- **Features:**
 - Create cutoff period in clinical for when new anemia management section would display, and ESA section would not be visible
 - Add medication section to anemia management

SDOH Patient Screening

- **Business Value:**
 - Provide an additional option to indicate that patients were not screened for SDOH factors during the assessment period.
- **Features:**
 - Update UI to add option “No screening was performed, with no reason given”

Emergency – Facility Report

- **Business Value:**
 - Create a new modernized electronic process for collecting emergency situational status information that can be utilized not only by networks and LDOs but can also be submitted directly by individual facilities.
- **Features:**
 - Create a single facility view
 - Create filter for corporate users
 - Create the ESSR form

Database Migration to Aurora Serverless

- **Business Value:**
 - Simplifies maintenance and reduces costs for the EQRS database structure by moving to a serverless platform that scales resources according to demand while maintaining high performance.
- **Features:**
 - The following Production Databases have been migrated:
 - Attestation
 - Batch Feedback
 - Coverage Calculator
 - Form 2728
 - Form 2744
 - Form 2746
 - Notification - Accretion
 - Oauth
 - Org
 - Patient Admission
 - Patient
 - Personnel
 - Reporting Measures
 - Reports
 - Sonarqube
 - Treatment
 - **Final migration scheduled for tonight:**
 - Clinical

Scheduled Scaling for Lower Environments

- **Business Value:**
 - Reduces costs by shutting down lower environments during overnight and weekend hours when they are not in use.
- **Features:**
 - Dev, Test and Prod Preview environments now shut down automatically at 8pm ET and restart automatically by 7am ET. each day.
 - Dev and Test environments remain shut down all day on weekends.
 - Automation is also in place to bring the environments back up on demand if needed.

Bucket Replication for CloudTrail Data

- **Business Value:**
 - Saves cost by eliminating the need for a secondary CloudTrail instance to store log data.
- **Features:**
 - Utilization of S3 bucket replication is implemented to store log data in place of the secondary trail.

Other DevSecOps Improvements

- **Business Value:**
 - **Reduced maintenance burden and improvements to the security, resilience and scalability of the EQRS infrastructure.**
- **Features:**
 - Automation that updates and tags docker files to ensure we're always running the latest available update.
 - Automation that creates container images and compiles, packages, and configures everything needed to run an application within the container.
 - CI/CD improvements.

Production Support

- **Business Value:**

- Received / Newly Opened Tickets in PI 28:
 - 1,235 CS tickets opened in PI28
- Resolved Tickets in PI28:
 - 1,219 CS tickets in PI28 (20,273 since Contract Begin)

- **Big Lifts:**

- Patient Race Updates
- 2023 2728 Support
- Error 11324 Support
- Error 215 Support

Production Data Management

- **Business Value:**

- Data Quality Review and Support of CMS and CMS Contractors:

- Patient Merges 1,024 (26,115 since contract begin)
- Facility Mapping 8,115 (127,279 since contract begin)
- Patient Record Review/Cleanup 2,619 (177,622 since contract begin)
- Patient Record Missing County 4,110 (2.89M since contract begin)
- Patient SSN Restoration 403 (40,789 since contract begin)
- Patient MBI Restoration 1,202 (100,373 since contract begin)
- Patient HICN Restoration 8,724 (899,286 since contract begin)
- Patient Duplicate MC Cleanup 1 (226,600 since contract begin)
- Patient Overlapping Admissions 2,119 (987,742 since contract begin)
- Patient Admission Reasons 1,201 (16,870 since contract begin)
- Patient Open Admits 391 (7,220 since contract begin)
- Patient Claims Data Processing 22.5M (62.8M since contract begin)
- 2023 Patient Race Updates 608,716 (781,224 since contract begin)

Data Extracts and CDR

- **Business Value:**
 - **Allows CMS to share data with the necessary contractor(s) essential to completing CMS initiatives.**
- **Features:**
 - Generated and delivered clinical extract data for clinical months ending May, June, and July.
 - Generated and delivered the quarterly Care Compare Extract in October.
 - Ran the quarterly RDS Extract and published to CDR in October.
 - Generated and delivered RDS Extract as a CSV for NIH, CCW, and CMMI in October.
 - Held a meeting with data consumers to share the latest data dictionaries and explain updates made to extracts and CDR for the new 2023 version of OMB forms ahead of the go-live.
 - Continued to hold regular office hours to answer data consumers' questions regarding extracts and CDR data.
 - We continued to support the USRDS contractor as they prepare to onboard to CDR.

Additional Tables in CDR for the NCC

- **Business Value:**
 - Making additional EQRS data available in the CDR in support of the NCC contractor's transition away from Redshift and toward CDR as the data source for NCC reports.
- **Features:**
 - Several additional data tables have been added to CDR for accretions, form 2744 and more.
 - All form statuses (includes saved forms instead of just submitted) are made available in CDR.
 - Additional new columns and data points are included at the request of NCC.

Downstream Updates for 2746 and 2728 – Extracts and Reporting

- **Business Value:**
 - Provides access for data consumers to all new or modified fields now being collected on the 2023 version of form 2746 and 2728 so that it may be included in EQRS reporting and research.
- **Features:**
 - Modifications to the Care Compare extract to reflect changes on the new forms.
 - Modifications to the RDS extract to reflect changes on the new forms.
 - Modifications to the Clincial extract to reflect changes on the new forms.
 - Modifications to the CDR ETL to reflect changes on the new forms.
 - Updated data dictionaries and related code for each of the extracts and CDR.
 - Communication and assistance to data consumers to provide updates, mapping tables, new data dictionaries, and office hours where they may ask questions and access knowledge from EQRS SMEs.

Transplant Research, Designs, and Capabilities Survey

- **Business Value:**
 - Brings us closer to capturing and sharing additional information for ESRD patients who have been referred for transplant in order to improve communication between dialysis facilities and transplant centers and help more patients get successfully referred in a timely manner.
- **Features:**
 - Current state workflows analysis and mapping of the patient's transplant journey.
 - Draft designs created to be shared with stakeholders for initial feedback.
 - Transplant Center Data Exchange Capabilities survey administered.
 - 18+ Potential participants for a proof-of-concept API with Transplant Centers.
 - Primary EMR vendors and their interface capabilities confirmed.

Patient Search Enhancements

- **Business Value:**
 - Patient search is enhanced to improve query performance and reduce or eliminate timeouts for corporate users when searching by a singular search criteria.
- **Features:**
 - Re-factoring of the patient search code to improve performance.
 - Removal of the old SIMS UPI and HICNUM search fields.
 - Search results return much faster than before.

Clinical Month Filtering for HD and PD Clinical Reports

- **Business Value:**
 - **Allows users to filter clinical dashboard data by Clinical Month and removes the requirement to select a start and end date.**
- **Features:**
 - Clinical Period Filter (drop-down menu).
 - Reports will ALWAYS filter by clinical period.
 - Five years of clinical periods are available.
 - Use the type ahead search to quickly find a clinical period by date.
 - Both closed and open clinical periods are available.
 - Change is in place for all HD and PD reports for all user roles.

Automated Email Notifications for Emergency Module

- **Business Value:**
 - Enhances the Emergency Module functionality by generating automated notifications to all relevant contacts of an affected facility when a new incident is created, when the facility is added to an existing incident, when the facility has not reported in at least 24 hours on weekdays, and when an emergency incident is closed. This removes the need for KCER to manually contact networks, corporations, or facilities that have been identified within the impact zone of an emergency incident and frees their time to address other needs.
- **Features:**
 - Incident created notifications.
 - Facility report reminder notifications.
 - Incident closed notifications.

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Questions?

**The Iteration 29.1 System Demo will be on
11/12/2024**