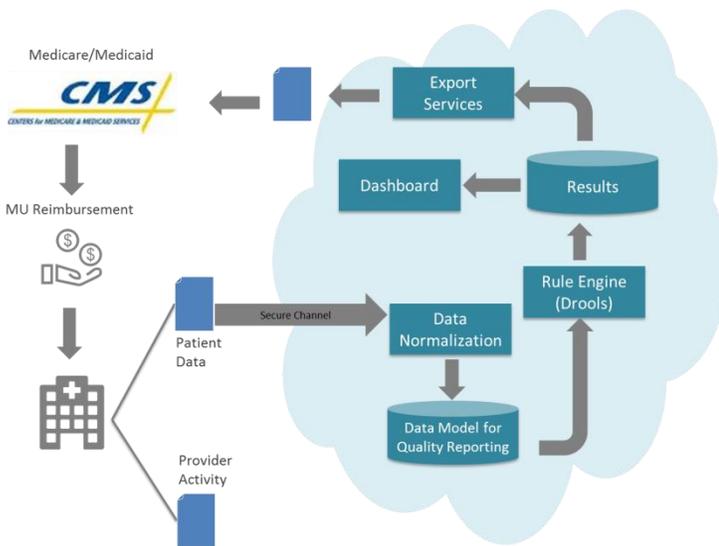# Rules Engine for Clinical Quality Reporting

Client Requirements

Client is a leader in healthcare IT and provides healthcare products, services and support across life sciences, imaging, radiography, diagnostic, ultrasound, etc. CitiusTech was involved to provide services to the client for their real time and predictive analytics solutions, using measure analytics framework on their hosted platform services. CitiusTech developed rules engine module on Azure for measure processing as part of clinical quality reporting.

Solution Schematic

CitiusTech Solution:

- Calculation of MU and PQRS measures through the calculation service; generation of dynamic reports

- Drools for rules engine to perform analysis on patient data; develop rules using Drools based on the measures published by CMS

- PaaS and IaaS as cloud service model

- High availability, scalability and fault tolerance; data encryption at rest and motion

- Provision for multi tenancy and secured access control with data backups

- Support for 2000 members and 10,000 users; storage of 50 million patient records

- Ingestion of 1.3 million patient records per day; Support for up to 1.3 billion calculations per day

Value Delivered

- Leveraged CitiusTech's expertise on cloud for application development and deployment on Azure

- Enabled Meaningful Use Stage 1 and Stage 2 Certification

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About CitiusTech

CitiusTech is a provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations, with over 2,500 professionals worldwide and serving over 75 healthcare organizations globally. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management. CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.