Client Requirements

Client is a leading HIE that provides population management and care coordination services to community hospitals, serving over 24,000 providers and covering over 13 million patients along the East coast.

Client wanted to create disease-specific registries to help participating providers identify at-risk populations. The solution also needed to integrate with a number of source systems in the client environment, allowing end-users to seamlessly access data for reporting and performance benchmarking.

Client leveraged CitiusTech's BI-Clinical platform and its professional services team to build powerful integrated analytics capabilities, and provide greater support to its community care programs.

CitiusTech Solution

Requirement Analysis

The CitiusTech team conducted a detailed assessment of the requirements for disease specific registries for the client. The solution included:

- **Extensive Disease Registries**
  — Building diabetes, hypertension, asthma, heart failure and pediatric preventive care registries and identifying patients who were non-complaint for certain clinical quality measures based on definitions from NQF, NCQA, CMS, etc.

- **Out-of-the-Box Provider Scorecards**
  — Rendering physician and facility scorecards to monitor provider performance
  — Providing additional dashboards with drill-down capabilities

- **Single Sign-on Capability**
  — Implementing Single Sign-On through existing applications and integrating with active directory for access and privileges
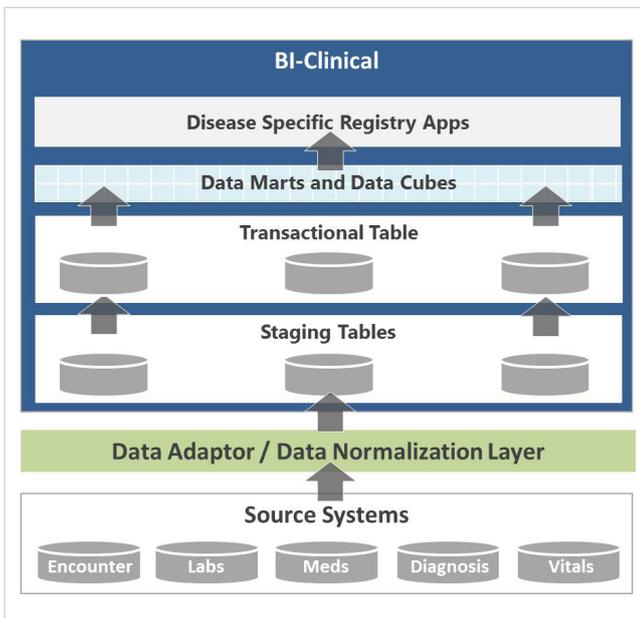
Development and Deployment

The BI-Clinical implementation team developed, tested and delivered disease registries for diabetes, hypertension, asthma and heart failure. Standard measure definitions were derived and customized to meet client's specific needs around Meaningful Use, PQRS, PCMH, ACO GPRO and HEDIS.

The custom Interface between client's application and BI-Clinical was developed using Java, JQuery, HTML5 and SSRS.

Value Delivered

By partnering with CitiusTech, the client was able to:
- Work with the CitiusTech consulting team to develop unique visualizations and additional drill-down reporting capabilities unique to its business needs
- Leverage BI-Clinical's advanced analytics capabilities to develop measure sets quickly and efficiently
- Achieve rapid integration of clinical, medical claims and pharmacy data
- Deliver quantifiable measures and actionable intelligence for population health management
- Introduce new custom applications to deliver aggregated and provider-level measure status for specific disease registries
- Seamlessly and efficiently integrate existing applications with BI-Clinical through Single Sign-on implementation

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About BI-Clinical

BI-Clinical, CitiusTech's healthcare BI and analytics platform, demystifies clinical quality reporting by offering an extensive suite of pre-built apps and 600+ KPIs around clinical, financial, operational and regulatory areas – the largest in the industry. BI-Clinical enables healthcare technology companies, providers, payers and life sciences organizations to generate actionable BI and build integrated clinical and financial analytics. BI-Clinical is certified for all Meaningful Use and HEDIS 2015 measures and covers a wide range of quality measures including PQRS, ACO, HCC, CMS Star, VBP, PCMH, etc.

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