

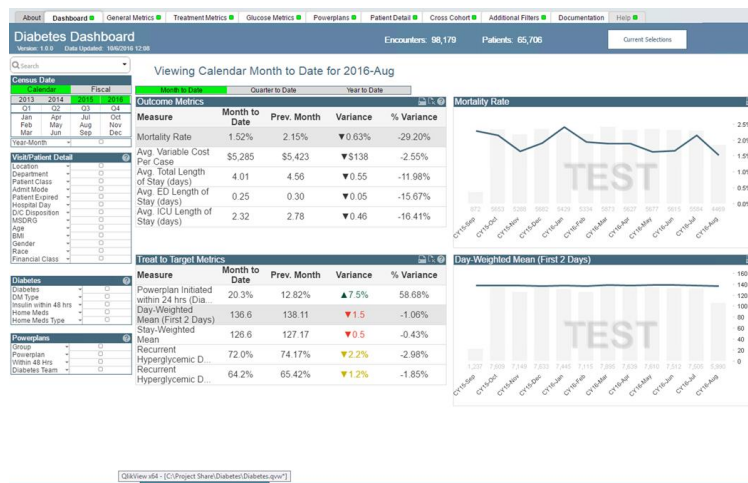
Type
Analytics Accelerator

Status
Custom Services

Revised
2019-October-15

Technical Description

The **Diabetes - Adult** Analytics Accelerator aligns data from disparate systems to create a clear and comprehensive view of diabetes outcomes and care across the system and across the care continuum. By helping to identify and monitor the variation in diabetes care across practice settings, the application helps teams prioritize improvement projects and assess their impact on patients.



The *Diabetes - Adult* Analytic Accelerator provides data and visualizations to drive improvement in clinical and financial outcomes—and to improve the lives of patients with type 2 diabetes or prediabetes.

Background

Organizations typically choose to focus on diabetes for these reasons:

- **Diabetes mellitus is a major public health issue, with high—and rising—prevalence** . More than 30 million people in the U.S. have diabetes, and an additional 84 million have prediabetes. A recent study projects that 40% of American adults can be expected to develop diabetes during their lifetimes.
- **Management is complex**. Diabetes is a chronic illness that requires lifelong medical care using multifactorial risk reduction strategies. Although significant evidence supports a range of interventions to improve diabetes outcomes, management—which includes ongoing monitoring, adjustments to treatment, coordination of care, and promotion of patient self-care—is often challenging and resource intensive. Wide variation in quality of diabetes care across providers and across practice settings (even after adjusting for patient factors) suggests that there remains potential for substantial system-level improvements in diabetes care.
- **Diabetes presents a considerable burden**. Typically, a progressive condition, diabetes diminishes patient quality of life. Diabetes also presents an enormous financial burden—both for patients and for healthcare systems.

Application Overview

Actionable insight to improve quality of life and care across the continuum for patients with prediabetes or type 2 diabetes

The **Diabetes - Adult Analytic Accelerator** supports improved evaluation and management of patients with—or at risk for—type 2 diabetes. Typical implementations focus on early identification of diabetes and diabetes risk, improved patient engagement, and medication optimization. Improvement in these areas of focus can yield substantial short- and long-term clinical and financial improvements.

Benefits and Features

- **Start faster with meaningful, scalable clinical definitions.** The cohorts, definitions, and process measures that come with the accelerator are clinically relevant, standard, and meaningful across domains, ready for customization or adoption in your organization. Organizations are able to look at patients' demographic information, medication history, and clinical features—not just administrative codes (e.g., ICD, CPT codes)—to precisely identify cohorts of patients with diabetes and at risk for diabetes.
- **Identify improvement opportunities and focus on what matters most.** The application provides summary views of performance in key areas to help teams and leaders review the variation in care and its impact on patients. Detailed analytics provide dynamic data exploration, real-time filtering, and drill-down to patient-level detail for additional insight. Outcome metrics typically include clinical control measures (HbA1c, LDL, BP), cardiovascular events and other diabetes complications, ED and hospital utilization rate, per-member-per-month costs, and health-related quality of life (HRQOL). Typical process metrics include documentation of diabetes risk factors, adherence to diabetes screening protocols, patient participation in education and smoking cessation, and adherence to best practice guidelines for medical management of diabetes. Users can generate reports and worklists for additional sharing and patient follow up. The result? Your team understands the priorities and can help solve problems that stand in the way of improvement.

Intended Users

- Chief Medical Officer
- Chief Quality Officer
- Population Health leadership
- Clinical directors
- Operational directors
- Diabetes educators
- Front-line clinicians: physicians, nurses, care managers
- Ambulatory office staff
- Diabetes improvement teams

Use Cases

- **The Chief of Population Health** in a large system observes that the per-member-per-month costs for their diabetes patient population has been creeping upward over the previous three quarters. What are possible drivers of this trend? They use the analytic accelerator to explore performance—particularly adherence to system standards for education and medication optimization—and to guide a plan to improve.
- **An improvement team** wants to check progress on diabetes improvement efforts initiated a year ago. They use the application to compare the most recent 12 months to the previous 12 months in terms of diabetes control (HbA1c, LDL, BP), patients' health-related quality of life, and incidence of diabetes complications.

Data Sources

This product may leverage one or more of the following sources:

- EMR - Clinical
- Claims
- Patient Satisfaction
- Other:
 - Other: external laboratory data sources

Key Measures

- Diabetes control measures (HbA1c, LDL, BP)
- Diabetes best-practice care (foot and eye exams, e.g.)
- Diabetes complication rates: nephropathy, retinopathy, neuropathy, etc.
- Diabetes-related cardiovascular events, mortality
- Time between prediabetes and diabetes diagnosis (diabetes conversion rate)
- Per-member-per-month (PMPM) costs
- Total medical costs per patient
- Health-related quality of life (HRQOL) and patient satisfaction

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