

# Diabetes - Adult

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

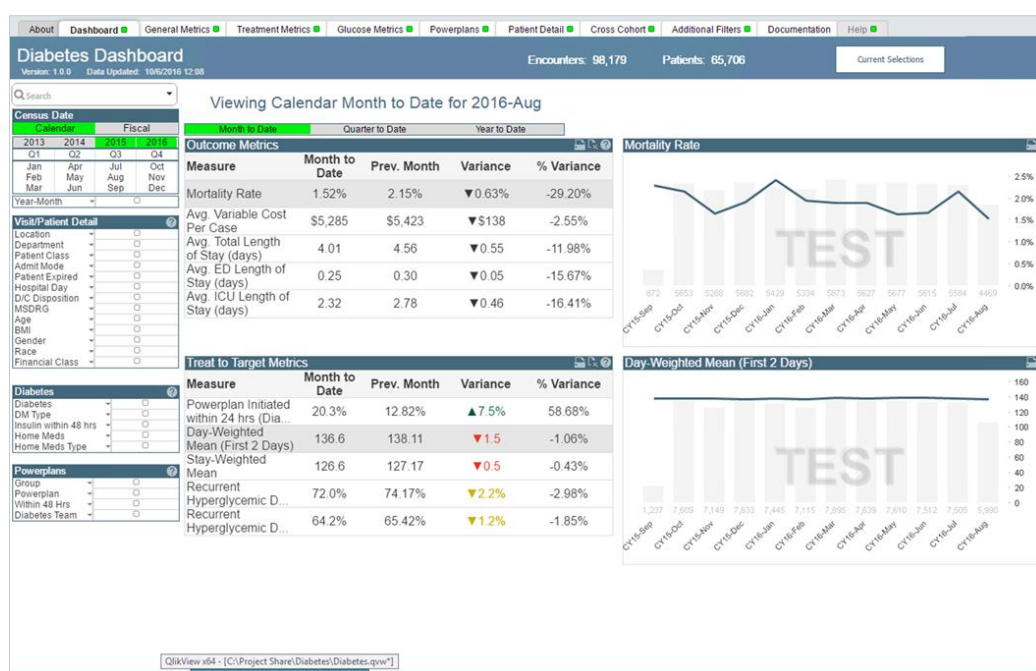
Type: Analytics Accelerator

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The **Diabetes - Adult** analytics accelerator aligns data from disparate systems to create a clear and comprehensive view of diabetes outcomes and care. 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.



This 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.

## The problem

- **Diabetes 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 are 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 evidence supports a range of interventions to improve diabetes outcomes, wide variation in management of diabetes across providers and practice settings (even after adjusting for patient factors) suggests potential for substantial system-level improvements in diabetes care.
- **Diabetes presents a considerable burden**. Typically, a progressive condition, diabetes diminishes patient quality of life and presents an enormous financial burden—both for patients and for healthcare systems.

## 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

## Potential data sources

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

## Our approach

The **Diabetes** 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 review variation in care and its impact on patients. Detailed analytics provide dynamic data exploration, real-time filtering, and drill-down to patient-level detail. Outcome metrics typically include clinical control measures (HbA1c, LDL, BP), CV events and other complications, ED and hospital utilization rate, PMPM costs, and health-related quality of life (HRQOL). Typical process metrics include documentation of risk factors, adherence to screening protocols, participation in education and smoking cessation, and adherence to best practice guidelines for medical management. Users can generate reports and worklists for sharing and patient follow-up. The result? Your team understands the priorities and can help solve problems that stand in the way of improvement.

## 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.

## Key measures

- Diabetes control measures (HbA1c, LDL, BP)
- Diabetes best-practice care (e.g., foot and eye exams, e.g.)
- Diabetes complication rates (e.g., nephropathy, retinopathy, neuropathy)
- 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

## Success stories

For examples of how customers have used Health Catalyst products and services to improve outcomes, see our [success stories at healthcatalyst.com](https://www.healthcatalyst.com/success-stories)

## Contact us

For more information on how Health Catalyst products and services can help your organization, please contact us:

- Reach out to your sales representative
- Call us at (855) 309-6800
- Email us at [info@healthcatalyst.com](mailto:info@healthcatalyst.com)

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