

InterSystems HealthShare Health Insight




Unlock the Value of Unified Health Information

Healthcare runs on data – for diagnosis, treatment, wellness, performance improvement, payment, and knowledge discovery. Healthcare data is diverse, dispersed, and frequently changing, and it is growing at a rate that far exceeds our ability to consume it. To make the most of that data – for timely insights, informative lookbacks, and predictive modeling – you need an analytics platform that can leverage the power of all that data in a unified care record. That is **InterSystems HealthShare Health Insight**.

Health Insight delivers information for better decisions based on the aggregated data in HealthShare's community-wide unified care record. HealthShare aggregates and continuously updates this care record from electronic medical record (EMR) systems, claims systems, health information networks, social care, and other sources.

Based on automated updates from the unified care record, Health Insight provides actionable intelligence within existing clinical and care management workflows. It enables you to more effectively care for individuals while also providing comprehensive insights for patient cohorts.



“THE ABILITY TO REFINE AND FOCUS ALERTING TO SPECIFIC PATIENTS WILL ADVANCE SERVICES AND RESOURCE ALLOCATION ACROSS THE CARE CONTINUUM.”

Nick VanDuyne, Executive Director, NY Care Information Gateway

Use cases for Health Insight include:

- Epidemiological monitoring of disease outbreaks and syndromic surveillance across a community or region
- Using clinical dashboards to better manage at-risk members and deliver better care coordination
- Closing gaps in care with event-based and time-based clinical notifications
- Automatically identifying patients for community-wide care management, registries, and population health management
- Data aggregation, normalization, and cleansing to feed InterSystems or third-party analytics, decision support, and machine learning applications
- Assessing data quality
- Monitoring and assessing resource utilization such as emergency services or a hospital bed census

Key Features

Safe, coordinated care requires insight delivered in time to identify opportunities for action and enable interventions. Health Insight receives updates from the unified care record automatically, making it ideally suited for analytics to reduce readmissions, improve sepsis rates, and lower the per member per month costs for chronic disease populations. Health Insight makes this possible with automated event logic and notifications configured for the issues that matter to you and your organization. It enables you to properly manage those who are sick and encourage healthy behaviors for those who are not.

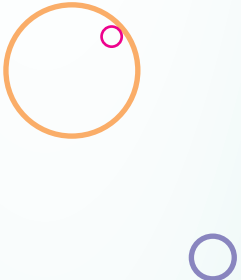
Analytics Infrastructure

Health Insight offers a robust analytics data model and infrastructure to add meaningful health analytics to your current workflows. A customization framework lets you extend the model to include other sources and data types, and developers have SQL access to this data for complete freedom in how it is used.

The comprehensive health analytics data model is automatically populated and updated in near real-time via InterSystems HealthShare Unified Care Record. The data model and analytics can incorporate social determinants of health, care plans, and other text-based information such as radiology or pathology reports, in addition to structured data.

More Data than an EHR

Health Insight monitors your entire health and care ecosystem, across multiple EHRs and other data sources, to avoid costly adverse events and align care teams around desired outcomes for individuals and populations. Clinicians and care managers can subscribe to Health Insight clinical event notifications on population members of interest for events such as Emergency Department admissions or abnormal lab results.



In addition to event-based notifications, Health Insight uses analytics based on time periods or missing events to trigger notifications about possible gaps in care. Changes in calculated risk scores can also trigger notifications to clinicians and patients.

Dynamic Cohorts

With a single lab result, missed appointment, or emergency room visit, an individual can move from one population cohort to another. Health Insight automates cohort assignments and dynamically updates cohort membership, so you always know where to focus your time and resources.

Out-of-the-Box Dashboard Solutions and Reports

The Emergency Department (ED) Usage Report identifies high utilizers of the emergency department in near real time, enabling staff to identify opportunities to improve care. Users can easily view the unified care record for complete background on the patient's health status and history. Hospitals and health systems can make configuration changes to the ED Usage Report to meet their specific needs.

Another available report helps administrators monitor the flow of data from the unified care record into Health Insight by comparing the number of encounters, patients, and unique patients throughout the system. Other examples focus on real-time epidemiological monitoring and syndromic surveillance for COVID-19.

Create Your Own Dashboards and Reports

Health Insight provides tools to create fully interactive dashboards, reports, statistical and text analyses, and business graphics with high-level summaries and detailed drill downs. You can accelerate time to benefits by using Health Insight's templates for dashboards and reports unique to your organization.

Data Management Application Programming Interfaces (APIs)

The Health Insight toolset lets you develop analytics applications using the data in HealthShare Unified Care Record. It also includes a library of APIs for populating the Health Insight data model from other data sources. As with all HealthShare solutions, Health Insight understands and supports the relevant healthcare interoperability standards.

Data Provisioning

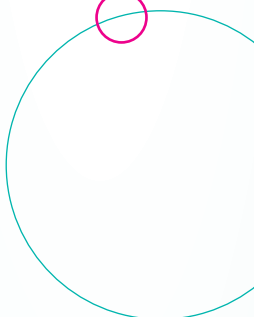
In addition to its own rich analytics environment, Health Insight can provide data services to the rest of your analytics portfolio. These include conditioning, harmonization, normalization, and transport services to feed current, comprehensive and credible data to other applications.


Data Provenance for Trustworthy Data

Health Insight tracks and exposes the source of the data it contains, including information such as sending facility. This helps ensure that data provenance is known, can be vetted, and can be trusted by the people using the data for decision-making.



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When relevant patient data changes in the unified care record, the changes are propagated to Health Insight. Health Insight's Data Consistency Check tool compares data counts in the unified care record with Health Insight, presenting data consistency trends over time. Health Insight users can drill down into the data behind the trends to explore gaps and support data cleaning or corrections, ensuring that decision makers can always trust that Health Insight is working with the latest information.

More than a Service

Health Insight is part of the HealthShare suite of connected health solutions, and can be delivered as a managed service. Combine Health Insight with InterSystems HealthShare Unified Care Record, HealthShare Personal Community, HealthShare Care Community, HealthShare Provider Directory, or HealthShare Patient Index to advance your digital transformation strategy.

Customer Support and Education

When you select Health Insight, you get more than technology. You also get our acclaimed customer support and extensive educational opportunities. Search for Health Insight education resources at [Learning.Intersystems.com](https://learning.intersystems.com). Learn more about Health Insight and all of the products within the HealthShare suite at [InterSystems.com/HealthShare](https://intersystems.com/HealthShare).