

# Improve Quality of Care With Microsoft Cloud for Healthcare and Informatica

## Key Benefits

- Move data securely and seamlessly to and from on-premises and cloud-based healthcare applications
- Foster healthcare team collaboration while maintaining a critical focus on data quality, data privacy, and compliance
- Enhance operational and clinical processes and create a foundation for analytics with reliable and governed master data
- Protect sensitive patient data with full confidence via automated orchestration

## Enable Seamless Application Data Sharing and Trusted Data Insights

Healthcare is in the midst of a digital transformation that touches every aspect of the patient, provider, and employee experience. Multiple forces are reshaping the healthcare industry, including the widespread adoption of digital tools and competitive integration, as well as multifaceted policy shifts and regulation changes.

To succeed, healthcare companies need to focus on delivering exceptional experiences to their patients, providers, and employees—with “digital first” being the order of the day. Shared business, preference, and clinical information are key to delivering the highly personalized, exceptional customer experiences that will lead to more engaged patients and consumers and result in improved quality of care, healthier populations, and more cost-effective and efficient healthcare.

To facilitate information sharing, healthcare organizations need to streamline and orchestrate the data residing across disparate healthcare applications and operate as an integrated whole at all levels. By using artificial intelligence (AI) and machine learning (ML) to automate data management tasks in much the same way they use AI to automate other clinical and business functions, organizations can overcome data quality and interoperability challenges at enterprise-scale level.

## Informatica and Microsoft Cloud for Healthcare—Driving Healthcare Forward

Informatica® and Microsoft Cloud for Healthcare provide comprehensive applications and analytics solutions powered by accurate, reliable, and trustworthy data. This data can be shared seamlessly across Microsoft Cloud for Healthcare and on-premises and multi-cloud environments.

Informatica’s AI-driven enterprise cloud data management platform, based on a microservices architecture, ensures data is managed as a reliable asset. The platform’s capabilities orchestrate the flow of data across health organization applications, data sources, and third-party applications, whether they are on-premises or in the cloud. By ensuring data interoperability, Informatica provides relevant, actionable information to specialists, nurses, care teams, payers, and administrators, helping them make optimal care decisions.

“Informatica solutions allow us to deliver rapid data marts—a single source of truth—to meet business needs during the COVID-19 pandemic. Specifically, our SMEs can standardize metrics definitions across the enterprise, helping our business users make informed decisions.”

— Mohamed Humaidi, VP, Healthcare Data and Analytics, Franciscan Alliance

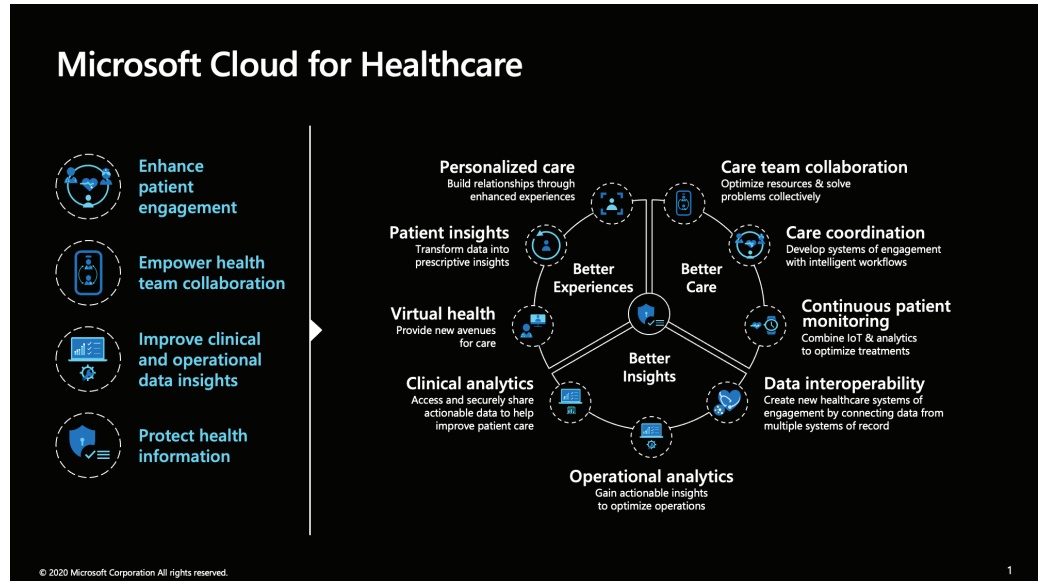


Figure 1: Microsoft Cloud for Healthcare provides capabilities that enable better experiences, better insights, and better care make optimal care decisions.

Together, Microsoft Cloud for Healthcare and Informatica are enabling organizations to harness the power of their data to make healthcare more preventive, predictive, and personalized. With our integrated solutions, you can synchronize data across a broad range of healthcare and clinical systems, improving decision-making and promoting quality patient care.

## Key Features

### Powerful Data Integration

Informatica provides the scalable and comprehensive data integration capabilities required to support the applications and systems of insight available on Microsoft Cloud for Healthcare. Native Azure Common Data Model (CDM) connectors equip healthcare organizations with the capability to bridge the gap between patients and their healthcare data with semantic and structural interoperability, providing a holistic picture of patients. Ingest, integrate, and curate data at scale from disparate healthcare applications and devices while complying with industry standards (including HL7, CCD, FHIR, EDI X12, IHE, DICOM, NCPDP, ICD 10, and QRDA). Exchange healthcare information from within the clinical workflow and the point of care.

### A Foundation of Data Quality and Data Governance

Informatica data quality and data governance capabilities ensure the integrity and completeness of enterprise data that serves as the essential foundation of the applications and systems of insight in Microsoft Cloud for Healthcare. Ensuring that data is of known quality and is fit for use (for EHR, patient, member, etc.) is a critical step in the data lifecycle. This includes profiling data as early as possible; understanding and resolving data quality issues as close to the source as possible; conducting ongoing monitoring of data quality to identify issues before they result in adverse downstream impacts; and tying the technical implementation of data quality rules to business- and clinical-facing data governance.

Automate data quality at scale with power of cloud, AI, and ML to make trusted and reliable data readily available for decision making at the point of care. Informatica's data governance solution—fueled by a robust data catalog and AI and metadata-driven assets for transparent and governed data meanings—ensures linkage and transparency in how data moves across the healthcare organization and supports operations and clinical analytics. Easily monitor and quickly report on compliance by linking compliance requirements (HIPAA, HITECH Act, California Consumer Privacy Act, GDPR and SPOR, etc.) to specific data sources, data elements, and data consumers.

### **Intelligent Data Privacy**

Protect sensitive data required by insurance, managed care, and payers. Powered by AI, Informatica's intelligent data privacy capabilities help automate the discovery, mapping, and categorization of electronic protected health information (ePHI) and sensitive patient data. Trace how protected health data proliferates across healthcare applications and devices and reduce risk. Create a comprehensive, enterprise-wide risk profile for sensitive data residing in applications, databases, and other healthcare systems on-premises or in the cloud. With these insights, you can monitor for suspicious activity and unauthorized patient-data access, raise alerts, and remediate with security controls such as data masking and access reporting.

### **Healthcare-Specific Master Data Management**

Informatica's master data management capabilities enable healthcare organizations to create and maintain a reliable and trustworthy single version of patient, member, provider, employee, service, and location data. By mastering these domains to be accurate, reliable, and trustworthy, clinical and business operations eliminate costly and time-consuming rework, quality of care is enhanced, and the essential foundation for analytics and new digital solutions is available to speed high-priority digital transformation initiatives. The solution includes prebuilt healthcare-specific data models for payers, providers, patients, members, locations, plans, and employees. You can also get insight into the relationships between all your data points.

### **Customer Insights at Scale**

Comprehensive capabilities for data integration, data quality and governance, intelligent data privacy, and master data management all work together to enable and power customer insights at scale. Informatica's customer insights capabilities encompass Azure-native CDM connector and data discovery, data quality, data integration, and multidomain MDM services in a modular format built on Azure. They include AI, ML, and Graph Data Stores to create a complete view of patients.

Automatically resolve patient data linkages and create relationships using advanced ML algorithms to provide patient insights in real time. Visualize and manage complex relationships between patients, members, healthcare providers, and services. Infer additional attributes from unstructured data using Natural Language Processing, and generate insights that enable initiatives like personalized communications, care management, and wellness.

## About Informatica

Digital transformation changes expectations: better service, faster delivery, with less cost. Businesses must transform to stay relevant and data holds the answers.

As the world's leader in Enterprise Cloud Data Management, we're prepared to help you intelligently lead—in any sector, category, or niche. Informatica provides you with the foresight to become more agile, realize new growth opportunities, or create new inventions. With 100% focus on everything data, we offer the versatility needed to succeed.

We invite you to explore all that Informatica has to offer—and unleash the power of data to drive your next intelligent disruption.

## Key Benefits

### Seamlessly Move Data Between Healthcare Applications

Seamlessly and securely exchange information between healthcare applications (EHR, customer relationship management [CRM], telehealth, mobile applications, etc.) and other healthcare data management systems across on-premises and multi-cloud environments. This in turn enables you to deliver consistent patient, provider, and employee experiences, along with high-value insights from comprehensive, reliable, and trustworthy data.

### Improve Operational Efficiency and Enhance Collaboration

By enabling seamless information exchange across on-premises and cloud-based healthcare applications, the joint Informatica and Microsoft solution foster collaboration between physicians, care providers, payers, members, and member-approved third parties, driving better operational efficiency and enhancing the quality of care with end-to-end interoperability.

The flexible data model can be extended to suit your unique clinical and business requirements. Integrate with a wide variety of data sources, remove duplications and inconsistency, and prevent proliferation of poor-quality data. Make high-quality and governed master data available across your healthcare organization to improve cross-departmental collaboration and power clinical and operational analytics.

### Ensure Data Privacy and Protection

Informatica automated data privacy capabilities and Microsoft Cloud for Healthcare enable you to identify and protect sensitive information across the most complex healthcare organization's data estate. This is a critical first step to reduce the unnecessary proliferation of sensitive data while simultaneously protecting sensitive data when and where appropriate.

## Next Steps

Learn more about [Informatica data management solutions for healthcare](#). And to learn more about how Informatica extends the power of Azure, go to [www.informatica.com/azure](http://www.informatica.com/azure) or [contact us](#).

