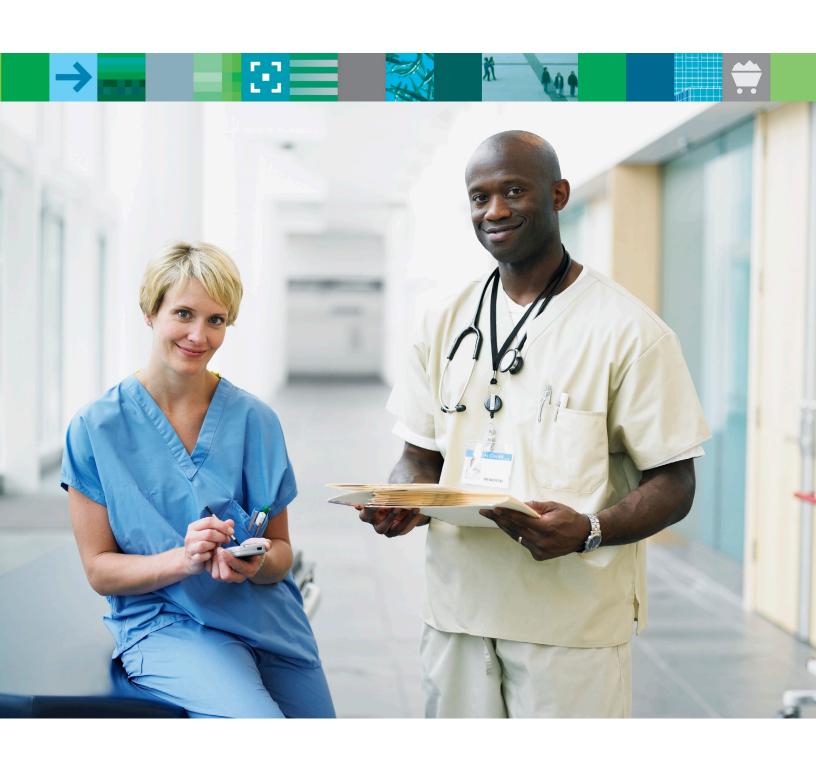IBM

Information Management software

Transform enterprise data into consolidated, actionable insight.

How healthcare organizations can benefit from IBM InfoSphere Warehouse software

What's clouding insight into your organization?

When it comes to information, most healthcare organizations share a common goal: Turn data into useful operational insight to deliver superior patient-centric care, improve service quality, and increase operating efficiency. So what's stopping you? Warehouses and datamarts have popped up across your organization. The problem is they exist in isolation and can only access structured data from select systems — making it nearly impossible to obtain a unified view of your patients and your operations. These silos of information mean you have an inconsistent view of your patients.

To better support innovation and differentiation, you need to integrate patient care and back-office data, and you need to give more users and processes on demand access to accurate, in-context and actionable information. Of course, the idea of more timely and widespread information access is great. But the technologist side of your brain is probably screaming, "Complexity!" And the business side is probably dubious, given the potential costs and risks. Both sides know that status quo data warehousing solutions and approaches will not support these seemingly conflicting needs. That's why you require a new approach that employs dynamic and balanced warehousing capabilities.

With IBM InfoSphere™ Balanced Warehouse offerings, IBM can help your healthcare organization optimize warehousing performance with best practices to enable you to:

- Give realtime access to clinical data to drive better outcomes and lower costs.

- Transform information for improved analysis and better patient care.

- Provide visibility into data for more accurate and timely reporting, leading to improved regulatory compliance.

- Customize patient treatment plans according to best practices.

Watch ideas take flight with a flexible, manageable approach

Through IBM InfoSphere Balanced Warehouse solutions, IBM provides virtually all of the software and hardware capabilities you need to deploy, maintain and evolve a provider-wide data warehouse. A robust combination of databases, analytical and warehousing software, servers and storage components gives you the ability to analyze and act on large amounts of structured and unstructured information. Moreover, InfoSphere Balanced Warehouse solutions rely on industry open standards and nonproprietary hardware, so they can work with your existing systems and support easy redeployment as needed.

IBM InfoSphere Balanced Warehouse solutions are preconfigured using best practices and extensive certification to support the needs of healthcare organization environments, including the need to:

- **Handle large data volumes.** IBM uses a modular design that enables you to easily and cost-effectively scale units to support data growth.

- **Maintain high availability.** IBM InfoSphere Balanced Warehouse solutions use IBM components selected for optimal price and performance, and they include hardware component redundancy and a fault-tolerant design for robust availability.

- **Work with comprehensive, integrated software.** Practically all of the software tools you need to get started — including information storage, management and delivery tools, and business analytics tools — come standard.

IBM InfoSphere Balanced Warehouse solutions offer advanced, integrated capabilities and performance attributes, which makes them an ideal foundation to support dynamic warehousing. This approach enables you to leverage immediate business insight across patient information, financial data, research and operations, rather than limiting you to providing only after-the-fact reports and analysis from data warehouses. So more people and processes have the information they need to create better patient care experiences that help improve patient satisfaction.

The heart of dynamic warehousing: IBM InfoSphere Warehouse

Potentially derive more value from information more quickly without added IT staff. Unlike most data warehousing and business intelligence solutions that are pieced together with components from multiple vendors, IBM InfoSphere Warehouse software provides a comprehensive, integrated and highly flexible and scalable data warehousing

stack that works together from day one. The heart of the IBM InfoSphere Balanced Warehouse solution, IBM InfoSphere Warehouse software offers the tooling and infrastructure to simplify the design, deployment and maintenance of a provider data warehouse. And built-in healthcare data models (for example, models for claims management, medical management, provider and network management, marketing/membership and financial management) and other healthcare industry–optimized mining tools and in-line analytics extend powerful warehousing capabilities to frontline users. Imagine what your IT department, decision makers and employees could do if you had a data warehouse that enabled you to:

- **Store more with less, and improve query performance dramatically** with the help of row compression tools, which can reduce disk storage needs by almost 50 percent, and with materialized query tables and multidimensional clusters, which are designed to improve the performance of complex aggregate queries.

- **Reduce investment risks** with a modular, quality-tested solution that provides nearly around-the-clock support from a single phone number and easy growth at a predictable cost.

- **Provide users with visibility into operational and transactional data** within the context of the applications they use every day, supporting greater responsiveness to organizational needs.

- **Bidirectionally exchange data** to help ensure that the data warehouse is feeding accurate data to operational and transactional systems and business intelligence applications.

- **Provide high performance for mixed-workload query processing** with the help of a shared-nothing architecture that can scale multiple workloads up and out without affecting performance.

- **Unify business intelligence** into a single solution with built-in analytics building blocks that help you extend analytics into applications.

IBM solutions help healthcare organizations realize dramatic business benefits.

- **A United States health plan:**
  - **Decreased data-processing costs by US$14 million in 18 months.**
  - **Improved provider satisfaction to greater than 90 percent with near-realtime claims processing and reimbursement.**

- **A medical research center provided realtime access to clinical, scientific data with a security-rich, integrated clinical genomics information infrastructure.**

- **A hospital reduced IT costs by 20 percent through consolidation and standardization of infrastructure, enabling greater focus on clinical research and innovation.**

Start seeing the advantage of a balanced warehouse

Based on its experience providing data warehousing to leading organizations around the world, IBM has identified four strategic pillars for warehouse solutions that guide its solution design: Simplicity. Flexibility. Performance. And extend the value. As your data volumes and need for dynamic information grow, you can be confident that IBM solutions designed around these principles can help you optimize the value of your information.

Choose a solution that's right for you

IBM understands what it takes to run a data warehouse in a healthcare organization. To meet your organization's unique needs, IBM offers InfoSphere Warehouse software in stand-alone solutions or as part of preconfigured, preintegrated, pretested and scalable IBM InfoSphere Balanced Warehouse solutions.

Your healthcare organization can gain access to accurate and up-to-date information across patient records, business metrics and critical applications. This can help you deliver a superior patient experience, improve customer loyalty and drive operational excellence. InfoSphere Warehouse solutions use prebuilt healthcare data models, a proven implementation methodology and embedded mining capabilities. So you can potentially achieve a faster time to value from data warehousing efforts by adopting InfoSphere Warehouse solutions. By helping you give more users and applications access to dynamic information, InfoSphere Balanced Warehouse solutions can help you unlock the value of your data—enabling your healthcare organization to increase patient satisfaction and operate more efficiently.

For more information

To learn more about IBM InfoSphere Balanced Warehouse solutions and IBM InfoSphere Warehouse software, and for help choosing the solution that's right for your healthcare organization, contact your IBM sales representative or IBM Business Partner, or visit:

ibm.com/software/bi