DATA WAREHOUSE SOLUTIONS
FOR HEALTH AND HUMAN SERVICES
It’s no secret that today’s healthcare environment presents many challenges for healthcare programs across the country. From budget pressures, looming coverage expansion, transparency issues, Accountable Care Act mandates, and new enrollment requirements to federal technology mandates like Medicaid Information Technology Architecture (MITA) and the Health Information Technology for Economic and Clinical Health (HITECH) Act, the list seems to be ever-growing.

Programs are being pushed to deliver higher quality care while reducing costs. Plus, additional opportunities have also emerged, such as integration with electronic health information exchanges, health insurance exchanges, and all-payer claims databases. Meanwhile, when it comes to understanding population health, ensuring program integrity, and connecting data across departments, healthcare programs are faced with:

- Disparate data located in too many places
- Technical capabilities across multiple environments that are outdated and underpowered
- Data systems that require large amounts of time and money to manage and upgrade
- Resulting data reports that are not comprehensive of the enterprise and do not instill confidence

The bottom line: To quickly and easily inform the decisions of a broad and varied group of stakeholders, you need a flexible, integrated enterprise data warehouse solution that serves as a single source of truth — and a solution partner who is ready to rapidly address changing needs now and in the future.

**A Need for Clarity: The Healthcare Environment Today**

Truven Health Analytics™ provides advanced, service-focused, highly secure Data Warehouse Solutions — designed to bring together disconnected data from across healthcare-related systems, as well as other state data systems (e.g., foster care, substance abuse, cash assistance programs, food stamps) with common interests in individuals and processes.

**Once these datasets are combined and normalized, we make sure our clients are in the best position to understand the holistic impact of multiple programs on specific populations.**

With the Truven Health Data Warehouse Solution, our clients receive:

- A powerful data platform to maximize resource use, reduce errors and fraud/abuse, and discover costly redundancies
- Seamless integration of data from varying sources
- Enterprise-wide visibility of operational data
- A scalable, flexible, and extendable system that serves expanded analytics and reporting
- A true partnership with Truven Health Analytics that allows continual access to our unmatched healthcare domain expertise
- Unequaled expertise in managing Big Data based on 30+ years of experience specifically in the healthcare data business
Our Clients’ Needs Drive the Solution
At Truven Health Analytics, our data warehouse services deliver a highly flexible, modular toolkit that includes the platform, software, and our ongoing professional expertise.

We utilize cost-effective commercial off-the-shelf (COTS) products, and our skilled staff provides all of the technical and database management services needed to ensure business users receive timely access to their data.

And, unlike many other system integrators, our services include not only the hardware and technical operations support, but also the project management and analytic support your users need to gain real value from the data they collect and manage.

Most importantly, we design and customize each Truven Health Data Warehouse Solution based on the client’s unique business requirements.

We help clients:
- Set data integration priorities based on highest-value business needs
- Realize “dream” reporting scenarios and analytics with solutions that make them happen
- Achieve tangible results and quantifiable business value during and after implementation

Our design process ensures that once the Truven Health Data Warehouse Solution is implemented, clients can have absolute faith in the data they use.

At Truven Health Analytics, we know that each client is unique. For example, each state is at a different MITA maturity level and each agency has different reporting needs. That’s why we know it’s necessary to design customized solutions — leveraging a cost-effective COTS platform, our healthcare experience from multiple markets, our expert data warehousing staff, and our in-depth industry knowledge.

The Market Leader
Truven Health Analytics is the leader in the data integration and decision support solution market, providing trusted, powerful, user-friendly, independent, and content-rich decision support services.

With a 30+ year history and one of the largest healthcare datasets in the nation, healthcare-specific business intelligence and data management is the singular focus of everything we do. In fact, to say that we know Big Data is an understatement. We not only understand how to manage complex, disparate datasets, but also have unparalleled experience in providing the analytics and services that transform data into actionable information.

Our innovative work is nationally known and uniquely based on deep healthcare expertise, a hallmark data quality management strategy, and a commitment to continuous system improvement — all resulting in billions of dollars in savings for our state and federal government clients.
Data Integration/Architecture

Our Data Warehouse Solution provides a person-centric database with integrated medical claims, pharmacy claims, encounters, lab data, provider information, member and eligibility information, and financial information, in addition to non-healthcare data, such as accounts receivable/payable, call tracking, and others. Specifically:

- Our architecture facilitates growth, interoperability, and reusability of components for the utmost in cost-effectiveness as needs evolve.
- Comprehensive data management processes that are geared toward integration, quality assessment, integrity, and standardization result in accuracy, consistency, and completeness for our clients.

- Entity resolution is highly advanced and able to identify individuals across multiple data sources from incomplete and non-obvious relationships using fuzzy-matching technology from industry-leading products coupled with domain expertise.
- Our solution provides near-real-time data profiling and proactively monitors and cleanses data. The end result is a data warehouse full of quality, integrated data that all stakeholders can trust.

Reporting and Measurement

Collaborating closely with our clients allows us to understand business goals and develop integrated data models that support separate and combined reporting needs.
We partner directly with clients to create scorecards, dashboards, and automated reports, and included in our service model is a team of resources dedicated to provide analytic expertise and report development, or to complete research projects. Our experts can even assist with business-process conversion to take advantage of new reporting capabilities and the shared platform.

In addition, we provide access to robust healthcare content that can be applied to the data warehouse, including healthcare measures, comparative benchmarks and norms, medical episode grouper, and population-based risk adjustment methodologies. With these assets, you can rapidly provide comprehensive, yet easy-to-understand answers in response to nearly any question raised.

Other reporting highlights:
- Our solution is web-based; navigation and response time for reports is as quick as the Internet connection allows.
- A unified user experience for report authoring gives users the freedom to seek information on their own.
- Reports can be made available in a variety of ways, such as on mobile devices, in Microsoft Office® applications, through embedded and in-process business intelligence, and via interactive use when disconnected from the network.
- Analytics include statistical analysis, data mining, predictive modeling, forecasting, and geographical mapping.

We use leading-edge technologies plus our data expertise to deliver a flexible solution to meet immediate reporting needs — while always looking to the future of reporting in healthcare.

With Truven Health Data Warehouse Solution services, clients get a best-of-breed database management system and reporting and statistical software, coupled with a world-class platform and highly skilled support.

Included in our service model is a customized enterprise portal that serves as an access point to not only dashboards and reporting, but also to exclusive Truven Health Analytics applications and content such as articles by thought leaders, market-specific newsletters, and targeted news stories.
Why Choose Truven Health Analytics?

Since our inception in 1981 (originally known as Medstat Systems), we have been at the forefront of developing integrated, enterprise decision support systems and data warehouses. We are unequalled in how clearly and deeply we understand healthcare data and the needs of healthcare industry participants.

Also a Truven Health Analytics hallmark is our experience with cleansing, standardizing, and integrating data from multiple sources to build reliable, comprehensive healthcare databases.

With our solutions in use by more than 20 million researchers and analysts worldwide, we have a proven track record of providing large-scale healthcare data to some of the nation’s largest, most complex organizations in both the private and public sector.

These include:
- 27 Medicaid agencies
- 15 other state agency employers
- Agency for Healthcare Research and Quality (AHRQ)
- Centers for Medicare and Medicaid Services (CMS)
- Federal Substance Abuse and Mental Health Services Administration (SAMHSA)
- U.S. Department of Defense
- U.S. Centers for Disease Control and Prevention (CDC)

Healthcare enterprise decision support systems and data warehouse solutions are the singular, major focus of our business. Plus, we have the resources to move forward quickly with new client solution design.

Customizable dashboards provide critical information at-a-glance. From there, clients can drill into additional detail and analysis.
But perhaps most importantly, our service model is based on an ongoing, solid partnership during and after implementation; we work together with our clients to address ever-changing needs. As the healthcare marketplace shifts in small and large ways, our experts are here to guide our clients through new challenges — and help them take advantage of new opportunities for better, data-driven decision-making.

We are Oracle® Gold Partners and SAS® Silver Alliance members, as well as Teradata® and IBM® Cognos® partners.

**When clients choose Truven Health Analytics for their data warehousing needs, they get:**

- Data quality and integration
- Healthcare domain expertise
- Industry-recognized analytic thought leaders
- Program management
- Standards-based platforms
- Guaranteed interoperability
- More than 30 years of experience managing and analyzing big data — and turning it into actionable, results-oriented information
FOR MORE INFORMATION
Send us an email at state@truvenhealth.com
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