

Persivia's Health Data Management Platform: A Cure for Healthcare Data Woes

Introduction

In an era where healthcare data is expanding at an unprecedented rate, the need for effective data management solutions has never been more critical. Persivia's Health Data Management Platform, CareSpace®, is designed to navigate this complex landscape, offering a comprehensive suite of tools to aggregate, integrate, and analyze diverse health data sources.

This whitepaper explains the key features of CareSpace®, including its advanced data fabric, data lakehouse, and interoperability capabilities. By leveraging cutting-edge technologies such as AI and Natural Language Processing, Persivia empowers healthcare organizations to improve patient outcomes, enhance operational efficiency, and support population health management. With a focus on seamless data exchange and real-time insights, CareSpace® helps healthcare providers manage and utilize data, ultimately leading to more informed clinical decisions and better patient care.

According to a recent study, poor data quality costs the U.S. healthcare industry an estimated \$2.1 billion annually. Imagine a world where a doctor knows exactly what's going on with a patient's health, like a mind reader, but better. That's the healthcare revolution we're heading towards, powered by a tidal wave of medical data. But right now, it's more like trying to build a sandcastle while the tide's coming in - the sheer volume and complexity of healthcare data can easily overwhelm even the most advanced systems.

Turning Challenges into Opportunities

The healthcare industry is facing a data explosion. This brings both exciting possibilities and significant hurdles. For individuals and organizations, there's a real risk of being overwhelmed by information. At the same time, we need to tackle important issues around managing, ensuring quality, and protecting all this data. One of the biggest concerns is providing the data is accurate and reliable. It's equally crucial to protect it from security breaches and unauthorized use. Another big task is dealing with the many different types of data. We have structured data (like numbers in a spreadsheet), semi-structured data (like email), and unstructured data (like free-form text). Each type needs to be handled differently to get valuable insights. This data comes from all sorts of places - video chats with doctors, phone calls with specialists, health app trends, social factors affecting health, and readings from medical devices, to name just a few. Healthcare is always changing, with new treatments, medicines, and discoveries happening constantly. This means we're seeing more and more new types of important data, and it's happening faster than ever before. Persivia recognizes these challenges and has developed a holistic approach to creating a data-driven healthcare ecosystem that addresses these issues head-on.

Persivia – A Robust Digital Health Platform

The following are the key features of CareSpace®:

1. Data Aggregation and Integration

Picture this: A hospital has data coming from everywhere – EHRs, EMRs, clinics, claims data, devices, etc. Persivia's CareSpace® is like a master collector, ingesting data from over 500 different healthcare systems. It's breaking down walls between data silos faster. The result? A complete picture of each patient's health, all in one place. CareSpace® aggregates data from disparate sources such as EMRs, HIEs, HRAs labs, claims data, SDOH, HL7 data, patient reported data, consumer data, diagnostic device data.

CareSpace® is designed to revolutionize healthcare data management through its robust data fabric, comprehensive data lake, advanced data integration capabilities, and seamless interoperability, ensuring data continuity and quality across the care continuum.



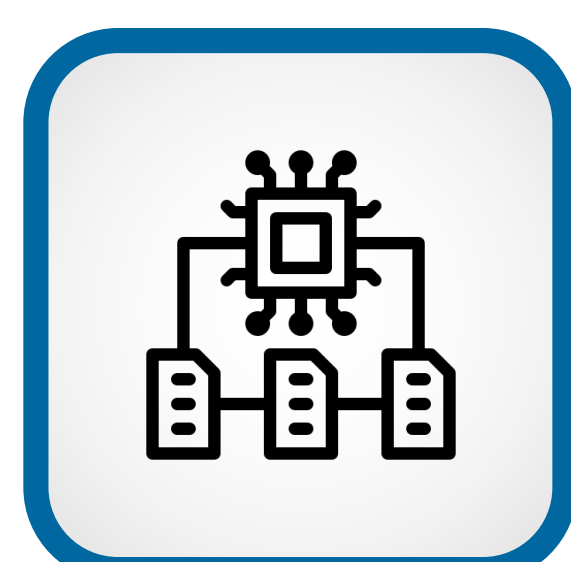
Data Fabric

Over the past 15 years, Persivia has developed a sophisticated data fabric that includes a variety of high-quality data catalogs and semantic sets. This fabric encompasses quality, clinical, and value-based care data, equipping Persivia to provide actionable insights. By leveraging this data fabric, Persivia has created hundreds of AI models that assist organizations in reducing costs, enhancing care, and significantly increasing efficiency.



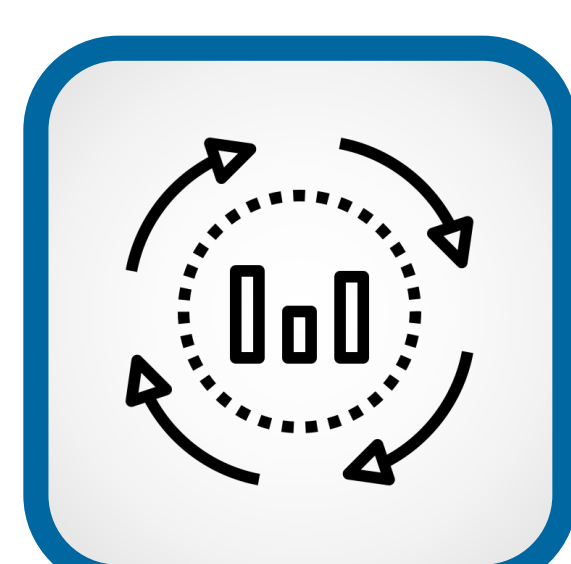
Data Lakehouse

Persivia's data lake supports the storage and querying of a comprehensive Unified Data Model, accommodating various file formats and types, including HL7 V3, CDA, CCD, EHR, Claims, ADT, HL7 v2, SDOH, patient-reported data, and device data.



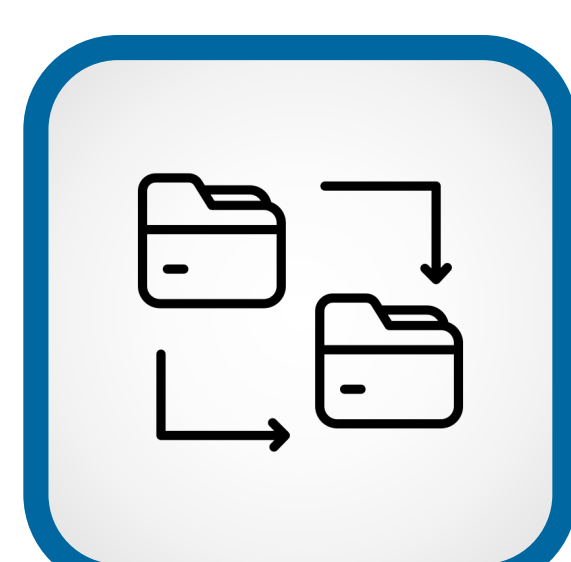
Data Integration Module

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Data Continuity & Quality Dashboards

CareSpace® platform continuously monitors hundreds of data feeds for continuity and quality across millions of messages and files, ensuring data integrity and reliability.



Advanced Interoperability and Data Exchange

CareSpace® has successfully integrated data from over **500** different healthcare systems, dismantling silos and providing a unified view of patient health. The platform's advanced interoperability capabilities facilitate seamless data exchange among various systems, addressing one of the primary challenges in healthcare data management.

2. Natural Language Processing

Now, not all data speaks the same language. Some of it's neat and tidy in spreadsheets, while other bits are hiding in doctors' notes. CareSpace® employs advanced NLP to extract meaningful insights from both structured and unstructured data, creating comprehensive longitudinal patient records.

3. AI-Driven Analytics

CareSpace® doesn't just collect data - it's got a crystal ball powered by AI. The platform identifies patterns, predicts patient outcomes, and optimizes treatment plans, significantly enhancing operational efficiency. Persivia has achieved predicting hospital readmissions with over 90% accuracy. That's like knowing it's going to rain before the clouds even show up!

4. Clinical Decision Support

Doctors are smart, but even they can use a hand sometimes. Persivia's Clinical Decision Support system provides real-time, evidence-based guidance to healthcare professionals, reducing medication errors and improving adherence to clinical guidelines.

5. Population Health Management

Managing the health of entire populations is no small feat. It's like trying to paint a mural while standing an inch away from the wall. Persivia's Population Health Management solution steps back and shows the big picture. It has helped cut hospital readmissions by 20% and improved chronic disease management by 25%.

6. Patient Engagement

Persivia hasn't forgotten about the star players - the patients themselves. CareSpace® empowers patients with personalized health education, remote monitoring, and secure communication with healthcare providers, leading to higher satisfaction and adherence rates. The patient engagement module is like a friendly health coach, always there to help. It reminds patients about appointments, lets them chat with their doctor, and much more. Patients love it so much; they've given it a 90% satisfaction rate!

Proven Track

With advanced AI-driven analytics predicting outcomes with over

90% accuracy

CareSpace® has helped achieve a

20% reduction in hospital readmissions

25% improvement in chronic disease management

Conclusion

The future of healthcare is data-driven, and CareSpace® is leading the charge. As we've seen, the potential for improved patient outcomes, operational efficiency, and cost savings is immense. The question now is not whether to embrace comprehensive data management, but how quickly your organization can implement it. Take the next step towards transforming your healthcare delivery. Explore how CareSpace® can revolutionize your data management strategy and let you have complete control over your healthcare data.

Contact Persivia today for a personalized demonstration and discover how you can be at the forefront of the healthcare data revolution.

Gartner® recognizes Persivia in the Market Guide for Health Data Management Platforms; [click here to download](#)