

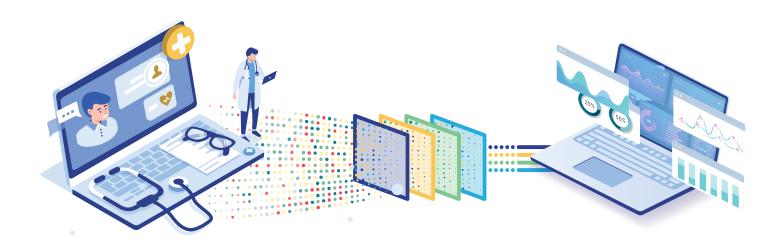
# Navigating the Future of Healthcare: The Role of Clinical Decision Hubs

By Jeff Barrett, Vice President of Clinical Data Analytics, WellStack

In the evolving landscape of healthcare, clinical decision-making is becoming increasingly complex. Providers face growing demands to improve patient outcomes while managing costs, leading to the rise of technologies designed to deliver actionable insights when and where they're needed most. Among these, Clinical Decision Hubs have emerged as vital tools for modern healthcare systems, offering not only point-of-care insights but also a broader view of organizational performance.

### What Are Clinical Decision Hubs?

Clinical Decision Hubs are sophisticated platforms designed to consolidate and analyze diverse healthcare data sources, providing clinicians with actionable insights at the point of care. Unlike traditional electronic medical records (EMRs), which are primarily transactional, these hubs offer a more dynamic, patient-centered approach to managing healthcare information. However, their capabilities extend far beyond bedside decision-making—they also serve as powerful tools for healthcare leadership by presenting aggregate data trends and enabling strategic, organization-wide decision-making.





### Patient-Centered Analytics at the Point of Care

In clinical settings, timely and relevant information is crucial. Clinical Decision Hubs address this need by integrating data from EMRs, claims, and even social determinants of health (SDOH). This holistic view enables providers to prioritize patient needs and streamline workflows, ultimately leading to better care coordination and improved outcomes. With access to actionable insights in real time, clinicians are empowered to make more informed decisions at critical moments, reducing medical errors and enhancing patient care.

Clinical Decision Support Systems (CDSS), including Clinical Decision Hubs, have been shown to improve patient outcomes by providing timely, evidence-based recommendations. These systems help reduce errors, especially in high-acuity settings like intensive care units (ICUs), where quick and accurate decisions are critical. Research indicates that CDSS can lower the incidence of adverse events, reduce patient length of stay, and improve care quality by ensuring that clinicians have the right information at the right time.



### The Broader Impact of Aggregated Insights

While Clinical Decision Hubs are powerful tools for clinicians, their broader organizational impact is equally important. Much like a dashboard provides a business with a single view of its performance, these hubs aggregate data from across the healthcare system to present a comprehensive view of key performance indicators (KPIs). This high-level perspective allows healthcare leaders to assess how their organization is performing on critical measures like readmission rates, clinical quality, and denial rates.

By monitoring these KPIs over time, healthcare leaders can spot emerging trends and determine whether performance is improving or declining compared to previous periods or organizational goals. If an organization faces upcoming challenges, leaders can allocate limited resources more effectively by focusing on areas where performance is lagging, such as clinical quality or readmissions. This ability to track trends and leading indicators enables more strategic, data-driven decision-making across the organization.

Moreover, Clinical Decision Hubs offer healthcare leaders the ability to drill down into specific metrics, providing a deeper understanding of the factors driving performance changes. By identifying the root causes of emerging trends, leadership teams can implement targeted interventions to improve outcomes at both the patient and organizational levels.



### **Addressing Common Challenges**

One of the significant challenges in healthcare is the overwhelming amount of data clinicians must navigate. Clinical Decision Hubs simplify this by filtering and presenting only the most relevant information. This targeted approach helps clinicians make informed decisions more efficiently, reducing the cognitive load and allowing them to focus



However, the benefits of these hubs are not without challenges. One notable issue is "alert fatigue," where clinicians become overwhelmed by the volume of alerts, potentially leading to important notifications being missed or ignored. Additionally, ensuring that the data used by these systems is accurate, timely, and comprehensive is critical. Integrating various data sources (EMR, claims, SDOH, etc.) and ensuring interoperability are essential yet often difficult tasks in healthcare technology.

## **Optimizing Care Delivery: From Reactive to Proactive**

Clinical Decision Hubs are more than just tools for managing current patient care. By leveraging aggregated data, healthcare providers can transition from reactive care models to proactive approaches. For example, these platforms enable pre-visit planning, allowing clinicians to prepare for patient encounters with a comprehensive understanding of their medical history and current needs. This proactive stance not only improves care quality but also enhances patient satisfaction by providing more personalized and timely care.

At the organizational level, Clinical Decision Hubs empower healthcare leaders to prioritize interventions based on real-time data insights. This shift allows for resource optimization and a focus on areas where improvement can have the greatest impact.

### **Implementing Decision Hubs: Key Considerations**

For healthcare organizations considering the implementation of Clinical Decision Hubs, several factors are critical for success:

### Data Integration:

Ensuring seamless integration with existing systems is crucial to ensure that the platform operates effectively across all departments.



### **User Adoption:**

Clinician buy-in is essential; the platform must be intuitive and clearly demonstrate its value to users from day one.





### Scalability:

The system should be flexible enough to grow with the organization's needs, allowing for future integration with new data sources and capabilities.

# **Key Elements for Success**

To be truly effective, Clinical Decision Hubs need to offer more than just data aggregation. The most successful systems are those that provide actionable insights while integrating seamlessly into existing clinical workflows. Features like real-time alerts, interactive dashboards, and the ability to drill down into specific metrics help ensure that the system remains relevant and valuable to both clinicians and healthcare leaders.

As healthcare continues to evolve, Clinical Decision Hubs represent a significant advancement in how care is delivered. By offering insights that not only support clinicians at the point of care but also provide leadership with a strategic view of performance, these platforms are transforming healthcare, making it more efficient, effective, and ultimately, more human.

### **ABOUT Jeff Barrett**

Vice President, Technology, WellStack

Jeffrey Barrett is a healthcare and health tech veteran with 25 years of experience. His career spans roles from Emergency Room Nurse to Chief Information Officer, with a focus on leveraging technology to improve patient care. At Geisinger Health System, Jeff established the Clinical Decision Support Department and led innovation efforts, integrating data warehousing with EHR systems. He later joined Siemens Healthcare, where he developed decision support rules to enhance cost savings and quality improvement. As an independent consultant, Jeff has worked with major healthcare organizations, including Mount Sinai Medical System, implementing advanced patient care platforms.

Throughout his career, Jeff's unique blend of clinical and technical expertise has driven his mission to enhance healthcare quality and efficiency through innovative technologies, always keeping patient care at the forefront.

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**Madison Headquarters** 

22 E Mifflin Street Suite 400 Madison, WI 53703