

**“Pyramid has given our entire organization the ability to access data and employ insights to navigate through this very challenging time very effectively. And we’ve only scratched the surface of Pyramid’s capabilities.”**

**Althea Oenga**  
Business Intelligence Developer of St. Joseph’s Enterprise Analytics Team



# Driving Executive Healthcare Decisions With a Dynamic View of Data



## St. Joseph’s Health Uses Pyramid Analytics to Deploy Dashboards and Democratize Data to Weather the Pandemic

| CHALLENGE  | SOLUTION  | RESULT   |
|--|---|--|
| When the COVID pandemic hit, St. Joseph’s needed to quickly start monitoring trends in COVID admissions, discharges, and deaths, among other metrics.        | Speed up insights and enable more intelligent decisions with any data, for any person, and any analytics need using the Pyramid Decision Intelligence Platform. | St. Joseph’s created one-stop COVID dashboards from multiple sources to track trends and make informed decisions.  |
| The governor of New Jersey enacted an employee-vaccination mandate, requesting that St. Joseph’s meet a 100% threshold of employee vaccinations.             | Enable employees to analyze data in near-real time and easily create information-rich dashboards using Pyramid’s multisource, direct-query engine.              | St. Joseph’s consolidated data into a single-view dashboard for execs to easily access key information, which could then be shared with the government.      |
| St. Joseph’s must submit a daily HHS report to the New Jersey Hospital Association using data from various sources throughout the organization.              | Employ Pyramid’s super-fast, multisource, direct-query engine, PYRANA, which provides lightning-fast performance across the entire data estate.                 | St. Joseph’s automated its manual processes to achieve more complete analyses, populate data directly into the HHS template, and meet HHS requirements.      |
| Departments wanted an Excel-like quality scorecard to measure pandemic metrics like readmissions and mortality, similar to what they’d been using for years. | Tell visual data stories with Pyramid’s Illustrate, which adds infographics and dynamic text to presentations and publications to create rich visualizations.   | St. Joseph’s created a replica dashboard that provides a host of indicators and visuals and lets executives drill down and track goals at the patient level. |
| Everyone in the organization needed full access to the COVID dashboards, instead of the role-specific access that had previously existed.                    | Deploy Pyramid’s scalable, AI-guided, no-code, self-serve experiences across the organization.  | All employees can access data and embed insights into their own workflows and see their achievements against organizational and governmental goals.          |



Based in Paterson, New Jersey, St. Joseph's Health is a hospital and healthcare system that includes the St. Joseph's University Medical Center, Children's Hospital, Wayne Medical Center, and other management units across multiple campuses. The system also includes more than 30 New Jersey community-based facilities. Regularly recognized among the top hospitals in New Jersey, the hospital system provides award-winning healthcare services to the New York Metropolitan Area.

St. Joseph's has worked with Pyramid Analytics for several years, and their IT and enterprise analytics teams regularly produce some 15 complex dashboards for executive use.

"We realigned data that was once in an email or spreadsheet to create a visual 'quick hit' of what was happening that day," says Christopher Pierznik, Director of Financial Systems and Analytics at St. Joseph's. "In time, our senior leaders realized they were using tools they only had heard about at other companies."

When the COVID pandemic hit the United States, St. Joseph's needed to quickly start monitoring trends in COVID admissions, discharges, and deaths, among other metrics, to track trends and make informed decisions. Using the Pyramid Decision Intelligence Platform, which speeds up insights and enables faster, more intelligent decisions with any data, for any person, and any analytics need, St. Joseph's was able to create one-stop COVID dashboards from multiple sources with relative ease.

Then the governor of New Jersey enacted an employee-vaccination mandate, requesting that St. Joseph's meet a 100% threshold of everybody having a completed series of the vaccine. IT needed to pull data from multiple sources into their reporting system, then into a dashboard environment for leaders to easily access and report this information. The IT department, already well-versed in Pyramid, was able to use the platform's multi-source direct data access and fast direct-query engine to consolidate the data directly into a single-view dashboard environment for executives to have quick and easy access to this key information, which could then be shared with the government.

The Department of Health and Human Services (HHS) also requires St. Joseph's to submit a daily report to the New Jersey Hospital Association seven days a week. While some states can submit their data directly to HHS, others, including New Jersey, must partner with another intermediary to submit the data. Using Pyramid Analytics, St. Joseph's director of enterprise analytics developed a script to populate the HHS template directly, pulling in data they receive from various sources throughout the organization.

Around the same time, numerous departments were asking for a quality scorecard to see how they were performing on pandemic metrics, such as readmissions and mortality — and they wanted it in a familiar format. In addition to needing the capability to review and track against their goals, users specifically wanted the quality scorecard to look like the Excel report they'd been using for years.

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Using Pyramid, the IT department created a scorecard dashboard that looks exactly like the previous report, but provides a host of indicators and quick visuals, as well as the capability for executives to drill down to the patient level, so follow-ups could be initiated when necessary.

“Our dashboards are very cutting-edge — even some of our data partners say they’ve never seen anything like them,” says Althea Oenga, Business Intelligence Developer of St. Joseph’s enterprise analytics team. “Our COVID dashboard is very interactive and visually appealing. It gives you the opportunity to really see your data. That’s kudos to the power of the Pyramid platform.”

The COVID dashboards provided comprehensive information for executives to fully understand how St. Joseph’s was weathering the pandemic at every level. St. Joseph’s was able to quickly scale adoption for the organization, because Pyramid is designed to deploy AI-guided self-service experiences, allowing employees to embed insights into their own workflows and see their achievements against organizational goals.

“We made this data-governance decision, because we believe in the democratization of data,” Oenga adds.

## With Pyramid Analytics, St. Joseph’s Health can:

**Easily execute reporting of core EHS system data via a simple, web-based, mobile-friendly interface—empowering executives to understand and share essential insights from analytics.**

**Access daily insights from both financial and clinical data, with opportunities to increase reporting across all areas of the organization: HR, emergency room, pharmacy, and more.**

**Integrate multiple sources—including Cerner, SSRS reports, Excel, and more—so that decision-makers can connect and adapt to complex systems and processes, respectively.**

**Build scalability, performance, reliability, and universal trust, opening the pathway to better long-term, data-driven decisions and analytics ROI.**

