

# Gaining Insights Through Curation and Analysis of Oncology Patient Data

## Synopsis

VisualStrata enables an independent patient registry the ability to advance precision medicine by focusing on high-quality, standardized data collection in oncology to advance more effective cancer treatment and improve patient outcomes.

The VisualStrata platform enables the registry to connect the dots between high quality, standardized molecular testing and associated clinical outcomes for cancer patients. The resulting database allows healthcare organizations to obtain direct access to richly detailed genetic-level testing and tie it to associated clinical outcomes. The registry is built to motivate, mediate, and deliver more unified healthcare, which will catalyze precision medicine to deliver more effective personalized cancer therapy.

## Challenge

An independent patient registry was seeking an informatics solution to help create a digital environment where professional oncology groups could share patient data based on individual clinical encounters. The registry sought to coordinate the collection and curation of patient data including the integration of the diagnostic data used to guide treatment decision making with all of the clinical information. Structuring patient data in this way can lead to the insights necessary to make breakthroughs in understanding disease and for developing more effective treatment regimens.

In designing the registry, the administrators wanted to make the data collection process as effortless as possible for the oncology clinics to compile and share both retrospective and prospective patient data. This critical need led them to look for a platform solution that integrates individual clinic workflow, data collection and the sharing of all valuable information about:

- patient clinical encounters
- diagnostic data including test and imaging results
- biomarkers
- treatments and therapies
- patient responses and outcomes
- medical decision-making, including why a therapeutic change is made

A primary goal of the registry was to provide insight into the complex process of oncology treatment in a way that clinicians can see both the big picture and the particular details related to managing their patients' care. A secondary goal was to establish quality standards for data collection and reporting.

 *VisualStrata is such a powerful tool that can be used in so many different ways. It makes it easy for oncology teams to access organized, curated patient data to gain insights into disease progression and patient care.*

- Patient Registry CEO



## Solution

The registry selected XIFIN's VisualStrata® platform, a SaaS based solution to support its important work. VisualStrata enables healthcare professionals the timely access to patient data, to gain insight and to optimize treatment decisions through data informatics. These efforts are known to result in better patient outcomes.

A significant challenge to the efficient delivery of effective treatment is that patient data often resides in multiple health record systems. Consideration of all relevant data is necessary for the care team to optimize patient treatment. This is particularly problematic in oncology due to the complexity of the disease and the number of medical specialties often required for diagnosis, staging and treatment planning.

VisualStrata enables oncology care teams to seamlessly gather, curate and review diagnostic and biomarker data, radiology and digital pathology images and clinical notes in a single platform. Linking a patient's disparate data types into a single data sharing and access platform facilitates consolidated reporting and allows multidisciplinary care teams to easily collaborate on complex cases to develop optimized treatment plans.

## Results

VisualStrata provides several distinct areas of benefit. First, it provides an extremely simple and fast way for oncology groups to contribute data to a patient registry.

VisualStrata facilitates the collection and organization of the patient and treatment data that really matters. It provides an efficient, effective workflow that prompts multidisciplinary team members to provide the necessary information and to recognize when data is missing. The workflow also includes timely prompts for oncologists to document rationale for any changes in treatment regimens. VisualStrata's patient management dashboard shows the care team members upcoming tasks to be completed. Tasks are grouped by patient and easy to search and complete.

Just as important, VisualStrata provides a data sharing platform that enables oncology groups to take advantage of the registry's organized, curated data. Once collected, data can be analyzed readily for new clinical insights. This supports new levels of healthcare efficiency and better patient outcomes. Healthcare teams have access to relevant patient data, to gain new insights and make better informed clinical decisions for their patients.

VisualStrata enables this registry's contributing oncology groups to transform mountains of disparate data into a cohesive data source on which to advance research, diagnosis and treatment. When individual pieces of patient data, so often spread across hundreds of systems, are systematically brought together to complete a larger data set, researchers can begin to understand the real-world effectiveness of various treatments regimens and other valuable insights.



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