

Transforming clinical trials

How Novacomp helped scale clinical trial production without compromising quality.

Novacomp provided a specialized development team that helped a global clinical trial technology company nearly quadruple its trial volume and improve data integrity, while expanding operations into new markets.

Industry: Life Sciences

**Image for illustrative purposes only*

Summary

Our client is a global technology company for clinical trials with over 10 years of experience supporting complex studies for life-saving therapies. They have conducted over 1,000 clinical trials in oncology, rare diseases, and the central nervous system, providing support in 80 countries. Their mission is to help their clients develop medical innovations that sustain patients' lives.

Main challenges

- Need to increase capacity to develop more personalized solutions for their clients.
- Increase clinical trial production volume without sacrificing quality.
- Maintain excellent service and support quality while scaling.
- Ensure patient safety and data integrity across every implementation.
- Expand operations into new markets (including Asia).

Approach

Novacomp assembled a team of experienced developers, aligned with the client's DNA of excellence and delivery, to work on their patented platform built around three systems:

- **eConsent:** a web-based control center.
- **IRT (Interactive Response Technology):** a clinical trial supply management and randomization system.
- **eCOA (Electronic Clinical Outcome Assessment):** a tool for integrations and generation of customized reports based on high-quality data.

The Novacomp team was responsible for:

- Developing large-scale, multi-tier web applications in C#, SQL Server, and Angular.
- Building reliable, maintainable, and efficient software systems with an emphasis on patient safety and clinical study data integrity.
- Supporting the implementation of IRT systems across all environments, completing all required documentation.
- Identifying and developing best practices, design patterns, and reusable code.

Results

- Increase in clinical trials: from 25 in 2021 to 95 in 2022.
- Increase in data point transfers by over 30%, reducing workload.
- Low-code/no-code platform that standardized and added flexibility to clinical trial configuration.
- A more seamless digital experience for patients registering required study information.
- Successful implementation of their first clinical trial in Tokyo, marking entry into a new market.

Technologies used

Low-code/no-code platform

C#

Angular

SQL Server

Conclusion

The partnership between Novacomp and this global leader in clinical trial technology shows how a specialized technical team can accelerate healthcare innovation without compromising quality or patient safety. By combining large-scale development with a strong focus on data integrity, the company nearly quadrupled its operational capacity and opened new markets — reaffirming that technology, when built on expertise, drives results that save lives.

Built on expertise. Driven by **people**.

