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# Data-Driven Clinical Trial Recruitment

- The real world data network of providers and pharma -

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**Overview.** Clinical trial design and patient recruitment is an expensive, highly fragmented and rarely data-driven process. The result is that over 70% of industry-sponsored clinical trials do not satisfy recruitment targets and timelines, millions of dollars are wasted on IRB amendments and failing trial sites, and months of delays are considered the status quo. It is imperative to mitigate inefficiencies and unnecessary expenses from the clinical trial design and recruitment process.

**Methods.** TriNetX is building the disruptive data-driven workflow alternative, a network and Software-as-a-Service (SaaS) platform that enables providers, physician groups and pharma companies to effectively collaborate utilizing real world patient data in real time. The TriNetX Network leverages open source, specifically i2b2 (informatics for integrating biology and the bedside)—a tool for organization and analysis of clinical data and the common thread among one of the strongest research communities in the world (adopted by over 100 academic medical centers caring for more than 70 million patients). TriNetX is the enterprise-class, federated networking platform for clinical data warehouses, enabling intuitive and private provider-to-provider networks and a robust provider-to-pharma network. TriNetX membership also includes advanced analytics and an improved user interface, enabling researchers to conduct data-driven activities and workflows:

- **Exploratory Research** to better understand the target patient population, prior to the development of a study protocol
- **Study Feasibility and Cohort Segmentation** to measure the impact of study inclusion and exclusion criteria during protocol development
- **Preparatory Chart Review** to initiate requests to the provider to review the medical history of candidate patients and further refine protocol design
- **Site Recruitment** to identify sites with a significant number of patients that meet eligibility criteria
- **Patient Recruitment** to identify patients that meet study eligibility criteria

Governance is a critical consideration for any research collaboration involving patient data. Patient privacy, security and trust is of utmost importance to TriNetX and our member community, thus the network design is in compliance with the Health Insurance Portability and Accountability Act (HIPAA) requirements for protecting sensitive patient data. The TriNetX federated model ensures that provider members retain complete control of their dataset within the boundaries of their existing data center. No Protected Health Information (PHI) is moved outside of a provider's environment.