CASE STUDY

Company: A leading global pharma team advancing combination oncology therapies needed a systematic way to predict emergent safety risks during early-phase trials.

Pain Point: Clinical Trial and preclinical data is fragmented and requires manual curation to integrate diverse data types. This hinders or slows down insights and decision that can impact the clinical trial design and patient recruitment.

Approach: The team used Elucidata's platform to harmonize structured and unstructured clinical, target expression, and safety data. Polly's Al-driven pipelines enabled rapid synthesis of drug mechanism data, PK/PD profiles, and historical AE trends to create combination-specific risk models.

What the Customer Says

"We were able to proactively flag high-risk AE clusters, weeks before the first patient dose, cutting down redesign cycles and patient risk."

-Clinical Safety Lead, Oncology

Key Challenges



No standard approach for predicting combination-specific AEs



Inadequate signal visibility across overlapping/non-overlapping pathways



Manual risk tables lacked biological and mechanistic layering



Safety data fragmented across literature, preclinical, and PK/PD sources

How We Helped

- Harmonized 3000+ publications and clinical trial summaries along with preclinical datasets from public and internal sources
- 2. Mapped to proprietary data model to detect overlapping targets, MOAs and patient cohorts of interest
- 3. Enabled chat interface with the complex multimodal data to enable intuitive data exploration and visualization
- 4. Automated signal capture from public + proprietary sources for real-time dashboards
- 5. Demo Link: https://drive.google.com/file/d/1vpnGFW_VIIE24uKO_adlfgZUml420N7I/view?usp=sharing

Impact

3X faster ML model development

Supported 5+ Clinical Trial Teams

6X faster delivery of dashboards

Enterprise-wide access to Preclinical and Clinical Data Knowledge Graph