



Case Studies

Cancer Center Eliminates Clinical Trial Event Reporting Backlogs and Recoups Millions

Who we helped: A top Cancer Center, treating over 60,000 patients annually and experiencing steady growth year over year, sought to resolve a significant and growing backlog in their clinical trial data management system (CTMS).



Challenges

- Chronic understaffing driven by increasing patient volume, growing trial complexity, and limited local resources
- Ongoing financial pressure to reduce costs while increasing revenue
- Clinical research resources unable to prioritize data entry into CTMS
- Backlog in event reporting leading to billing delays and revenue loss



Solution

- Deployed remote GCP- and HSP-credentialed data managers with clinical backgrounds and oncology training
- Leveraged a cost-effective, offshore agency model
- Provided appropriate staffing levels to eliminate backlog and support ongoing data entry
- Implemented event reconciliation checklists to ensure complete and timely event reporting and billing



Outcome

- Scaled and stabilized capacity and productivity with qualified staff
- Achieved significant annual savings on clinical research staffing
- Enabled internal on-site clinical resources to operate at the top of their license
- Cleared backlog of event reporting, restoring proper billing cycles to enable the recovery of millions in revenue for industry-sponsored trials

Academic Health System Enhances Cancer Registry

Who we helped: *A large health system, including an NCI-designated cancer center and multiple CoC-accredited facilities, sought help with accreditation compliance and streamlining processes*



Challenges

- Extensive and variable abstracting backlog across facilities
- Inefficient and manual case finding process created bottlenecks
- Several hospitals out of compliance with follow-up rate
- Pending Commission on Cancer (CoC) special study to be completed
- Several facilities were in the process of converting to a new cancer data management software system



Solution

- Automated processes to reduce data duplication, missed cases, and typographical errors
- Built a case-finding interface between health system's EHR and registry software
- Created more frequent path report review process
- Added auditing process and tools
- Supported transition to new data management software



Outcome

- All 1,500 backlog cases cleared within 90 days
- Improved efficiency increased team abstraction productivity
- Reduced registry labor costs overall
- Improved data quality and feedback via auditing tools
- On-time completion of required CoC special study data submission
- Enabled data-informed strategic decision-making

Clinical Trials: Regulatory Compliance Excellence

Who we helped: *NCI-Designated facility sought to optimize for the clinical enablement of their on-site clinical research staff*



Challenges

- Hiring qualified research personnel for on-site work became increasingly difficult post-pandemic
- Regulatory compliance demands pulled staff into administrative tasks, reducing time for collaboration with research and clinical care teams
- Non-compliance with regulations could have put the study on hold, delaying patient treatment



Solution

- CuratelQ provided 2 FTEs to maintain regulatory documentation
- GCP- and HSP-certified FTEs who met site and IRB requirements granted remote access to eBinders and CTSU
- Formally aligned with the facility on documentation requirements through a standardized checklist
- Full review of each protocol binder at least quarterly and as requested by the facility



Outcome

- On-site research staff were relieved of the burden of regulatory maintenance for NCI clinical trials
- Enabled on-site staff to dedicate more time to high-impact care team collaboration and patient care
- External audits with minimal to no regulatory findings
- Over 10 years of successful partnership

Seamless EHR Data Migration Ensures Research Continuity and Compliance

Who we helped: *A top academic cancer center undergoing a system-wide EHR conversion relied on Omega to migrate critical adverse event data swiftly and precisely—preserving research continuity and ensuring data accuracy before go-live.*



Challenges

- Complex data environment due to differences in the EHR systems, complicating data migration
- Significant pressure to ensure timely, complete, and accurate encounter-level data to enable timely reporting to sponsors
- High-volume, specialized workload requiring clinical expertise to accurately identify and record adverse events



Solution

- Rapid onboarding of qualified resources from Omega's internal pool and new hires to meet immediate project demands
- Developed SOPs, targeted training, and a quality audit framework to ensure accuracy and consistency in data migration practices
- Collaborated closely with the Clinical Trial Nursing teams to align on priorities and ensure workflow consistency



Outcome

- Project completed on time and within budget, meeting all client milestones
- Successful manual migration of all adverse event data to the new EHR ahead of the go-live deadline
- Seamless transition ensured no disruptions to ongoing research activities, with accurate data flow from the new EHR to sponsor's EDC

Enhancing Artificial Intelligence Performance Through Expert Human Oversight

Who we helped: *A leading healthcare provider partnered with Omega to validate and refine proprietary artificial intelligence (AI) tool to de-identify documents at scale*



Challenges

- AI tool using NLP to detect PHI for de-identification was producing incomplete and inaccurate tagging, requiring a significant level of human validation and correction
- Nuanced clinical data and variable documentation patterns made model training difficult to scale reliably
- High compliance risk, project success was critical to prevent inadvertent PHI release



Solution

- Rapidly onboarded qualified resources from Omega's internal pool and new hires to meet immediate project demands
- Developed detailed annotation guidelines and best practices to ensure consistency across annotators and model-training iterations
- Established a continuous feedback loop between to validate, correct, and enhance PHI tagging accuracy



Outcome

- Reduced PHI identification errors, strengthening data quality and supporting compliance with HIPAA standards
- Enhanced model accuracy and reliability via expert human validation and targeted feedback loops
- Improved client readiness for future NLP initiatives through knowledge transfer and best-practice documentation

Academic Medical Center Uses RWD in Outcomes Research

Who we helped: *A leading NCI-designated Cancer Center partnered with Omega to curate lung cancer patient records for research into the efficacy of immunotherapy treatment*



Challenges

- 3,100 lung cancer patient records to be curated, including complex treatment and outcomes data
- Data sourced from EHR included longitudinal office, radiology, and pathology physician notes
- Short timeline for data curation required to meet research objectives



Solution

- An experienced team of data curators with specific training in immunotherapy treatments for lung cancer were deployed
- Client's Research Electronic Data Capture (REDCap) database was assessed and customized with integrated quality review fields
- Auditor reviews with automated quality reporting provided transparent data quality assurance



Outcome

- 3,100 Patient records were successfully curated within the required 6-month timeline
- Client's analysis of the delivered research-ready data used in peer-reviewed publication submission
- 96.5% data accuracy delivered, ensuring reliability of curated datasets for research use