



Industry

- Healthcare
- Clinical Research

Project Type

- Network Fax Routing
- Forms Processing
- Data Extraction/Image Retrieval

Project description

Fred Hutchison's Cancer Research and Biostatistics group conducts clinical testing of various drugs and drug combinations for cancer treatment over a 10 to 50 year test cycle. Patients submit updated results in person at clinics on periodic schedules (i.e. every 6 months) and fill out surveys that range from 10-20 pages in length.

These surveys were being manually keyed into computers at the research centers for further processing. This manual process took up to an hour per survey.

The TechLine Solution

TechLine implemented an end-to-end solution to automate most of the clinical trial reporting process. A **RightFax**-based fax server receives faxed reports which are automatically passed through to a **Cardiff Software** intelligent data capture system.

The system digitizes the data from scanned or faxed reports with automated character recognition technology. Extensive validation rules are then applied to check the data for completeness and accuracy. This system is also able to accept and collect data from Adobe Acrobat PDF forms on the Fred Hutchinson website.

This significantly reduces the data entry processing, cutting out the entire data entry layer as it automated the exception handling. Data validation can now be done directly from the scanned image of the original report.

The extracted data is sent to an Oracle Database system and the report image is forwarded to an image management system. The Center has saved millions of dollars and these automated procedures have increased the accuracy and speed of the clinical trial process. Researchers can now access data within 24 hours of receiving the reports.

Customer Quote

Kelly Landreth, of Fred Hutchison's Cancer Research and Biostatistics group says, *"TechLine has real expertise with the tools and integration of our data gathering and imaging system that has been critical to it's success. TechLine's engineers are very knowledgeable and responsive. Their service has been excellent."*

