

CASE STUDY

HARNESSING REAL-TIME SEARCH FOR GLOBAL CLINICAL TRIAL

BACKGROUND

The Division of Stroke Medicine at Nottingham University conducted a five-year clinical trial to study the causes and effects of stroke on individuals. The trial was global in scope, with information gathered from more than 500 patients and several governing bodies in over 20 countries, including Australia, China, India, the U.S. and the U.K.

Clinical trial data came in several different formats – electronic, faxed and hand-written – and needed to be securely stored and made available as needed to staff, trial managers and the management committee of the trial, Nottingham University NHS Trust, throughout and after the trial.

THE CHALLENGES

With clinical trial data coming in several different formats, Nottingham University faced several challenges they needed to address:

- Team members needed access to the most up-to-date information in real-time to make informed decisions
- All information needed to be fully secure at all times, with access available only to predefined users
- Team members needed the same search capabilities working on-site or remotely
- Incoming information needed to be stored in appropriate repositories, which could be easily accessible and searchable during the life of the five-year trial
- A complete audit trail needed to be maintained for all searches and associated research in order to comply with trial standards

Professor Philip Bath, head of the Division and trial lead, noted “historical methods had been very labor-intensive” with information previously stored in physical filing cabinets. “It was a very outdated approach,” he added. The trial lacked a solution to ensure both the security and accessibility of trial information as the data reported continued to grow.

THE SOLUTION

The ability to find data instantly with a single search was vital for managing and analyzing the information collected throughout the trial. After a thorough review, Nottingham University selected SearchYourCloud for their search and storage solution.

- Real-time search across all platforms with a single click
- Full encryption of data to AES256 standard to comply with Nottingham University NHS Trust regulations
- Search and retrieval capabilities available both on-site and remotely
- The ability to scan and log clinical trial documentation in paper format and save it directly into an online database in PDF format for indexing
- Automated indexing and collation of all electronic documentation – Word documents and email – directly into the online database

INDUSTRY

Health and Science

CHALLENGES

Collect and access large amounts of data across electronic, faxed and handwritten documents in a secure manner, while maintaining a full audit trail for compliance purposes and having information available for analysis over a prolonged period of time.

SOLUTION

SearchYourCloud’s proprietary search software to put all information in a digital, accessible and secure database.

RESULTS

Accessing information anywhere in real-time allowed for quicker decision-making in the field, while still retaining a full audit trail complying with regulations and providing patient anonymity. Due to the efficiencies from the streamlined process, Nottingham University was able to expand the trial to more locations for a more well-rounded and culturally diverse sample.



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KEY BENEFITS

- Easy to use, type-and-find search results
- Full-text searching, not just keywords
- Instant-availability of data in real-time
- Fully encrypted data for patient anonymity
- No interruption to workflow
- On-site and remote access to data securely

THE RESULTS AND BENEFITS

Due to the partnership with SearchYourCloud, Nottingham University noted the clinical trial “moved from an onerous manual process to one which is streamlined, secure and easy to use.” The team experienced the following benefits:

- Team members were able to access information in real-time and improve decision-making while continuing their research in remote field locations
- Instant data availability greatly reduced search times and enabled Nottingham University to extend the stroke medicine trial into more locations, providing a wider geographic and cultural insight into the effects of strokes
- Easy to use, type-and-find capabilities no matter where team members were located – onsite or remote – increased workflow as the trial data collection continued to grow
- Throughout the process, a full audit trail was maintained, complying with regulations and providing patient anonymity
- The speed of sharing accurate information with Nottingham University NHS Trust and other medical organizations improved greatly, enhancing additional inter-related research projects

Following the successful partnership, Nottingham University implemented SearchYourCloud’s solution to additional research programs.

ABOUT SEARCHYOURCLOUD

SearchYourCloud (SYC) is reinventing Search for Analytics, Big Data and the Internet of Things. With search at the speed of thought, SYC accelerates the speed at which data, files, and documents are indexed and found in enterprise and individual desktop search. Using federated, real-time search and indexing and its patented algorithm, SYC locates any file on the desktop, in email, or in the cloud from anywhere, on any device in under a millisecond. With file-level encryption and AES256 security at rest and in transit, no other search solution delivers the same level of protection and privacy for corporate and personal data.

ABOUT THE DIVISION OF STROKE MEDICINE

The Division of Stroke Medicine is part of the Institute of Neuroscience and School of Medical Surgical Sciences within the Faculty of Medicine and Health Sciences at Nottingham University, U.K. Staff within the Division are involved in research, teaching and the provision of clinical NHS services. Professor Philip Bath, Head of Division, a Stroke Associate Professor of Stroke Medicine and Honorary Consultant Physician. The Division of Stroke Medicine undertakes research into the pathophysiology, acute treatment, imagine, and prevention of stroke, and is funded by The Stroke Association.

