



UK Biobank
Stockport, England
www.ukbiobank.ac.uk

Industry:

Life Sciences and Pharmaceuticals

Employees:

20

Oracle Products & Services:

Oracle Healthcare Transaction Base

Oracle Partner:

JoraPh Consulting
www.joraph.com

“We chose Oracle Healthcare Transaction Base for its robust, high performance infrastructure, proven functionality, compliance with national and international protocols, and adherence to the strictest, globally recognized data access and security standards.”

– Steve Walker, Chief Information Officer, UK Biobank

UK Biobank to Establish Major Resource for Future Medical and Scientific Research

The UK Biobank project is set to become one of the world’s biggest resources for studying the role of nature and nurture in health and disease. It involves collecting biological samples and data on the medical history and lifestyles of up to half a million participants aged between 40 and 69 and monitoring their health changes over a 30-year period. The results will help researchers understand the biology of health and disease and could lead to the prevention and cure of many later-life disorders.

Challenges

- Build a secure repository to protect the confidential medical, health, and lifestyle data collected on participants and ensure that access to it is restricted to authorized parties
- Create a single, consistent electronic record for each individual that complies with the Health Level 7 Version 3 (HL7v3) protocol for the format, content, and exchange of data

Solution

- Chose Oracle Healthcare Transaction Base (Oracle HTB) to provide the infrastructure and tools necessary to create a scalable healthcare information repository
- Established a proven, HL7 v3 compliant repository for facilitating collection, storage, and electronic sharing of data
- Used Oracle HTB to record participant data collected in assessment centers in England, Wales, and Scotland and provide a single comprehensive view of information
- Entered test results and noted health changes, such as the onset and progression of diseases like cancer, heart disease, and dementia into Oracle HTB during the 30 year study
- Used Oracle’s multilevel security features to ensure that data can only be accessed and updated by authorized stakeholders such as clinicians and administrators
- Benefited from the in-depth expertise of Oracle Partner JoraPh Consulting and its detailed understanding of the project to help build and implement a test HTB environment on time and on budget and establish a scaleable hardware infrastructure