IQVIA Health Data Research Platform

GCloud 15 Service Definition

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IQVIA HEALTH DATA RESEARCH PLATFORM

The IQVIA Health Data Research Platform (HDRP) provides a wide range of functionality and orchestrated processes for reliable and well documented clinical research. The HDRP is a platform that seamlessly integrates various modules, including the Biobanking solution, as well as a Study Register with Trial Matching, a Clinical Trial Management System (CTMS), a Meta Data Repository, a Raw Data Archive, and a Patient App. Clients can start small, and scale as needed and utilise several API technologies to integrate into existing IT infrastructures (e.g., FHIR, HL7, XML, IHE, CDISC-ODM, OMOP, etc.).

HDRP clients own and host their solutions on hardware of their choice (either on-premises or in the cloud). All data that is collected in the solution belongs to the client. IQVIA will support with Maintenance of the software (e.g., by provisioning bugfixes) and provide support on how to backup, restore, and implement disaster recovery plans. The HDRP solution can run on MSSQL, Oracle, or PostgreSQL databases. These belong to the client and can be freely accessed upon exit. The solution can also be implemented with an XML/REST interface that allows import and export of all relevant data from the solution.

Background & Philosophy

HDRP solutions have been on the market for over fifteen years. In 2008, HDRP was created by a spinoff of the Charité University Medicine in Berlin, one of the largest university hospitals in Europe. It was clear the current state of clinical research was far from where it should be, and the HDRP team wanted to do its part to help create a paradigm shift towards personalised medicine.

The initial focus began with supporting biobanks in their day-to-day operations. The resulting IQVIA Biobanking solution includes the ability to ingest legacy data from systems that need to be retired, as well as the API technology to establish a data integration platform for all data relevant to the biospecimens and their donors. However, researchers needed solutions to do more in their day to day. Thus, to support growing client needs, the platform was continuously built out to meet needs in the space of study management, including patient identification for clinical trials, as well as a full clinical trial management system. HDRP system architecture also allows for flexibility with the integration of workflow and reporting engines that make it possible to map out client-specific standard operating procedures (SOPs) into system-driven, highly customised workflows that can be executed by end users with appropriate access rights. Furthermore, IQVIA offers trainings to its clients' IT personnel to allow them to develop these components themselves. The same goes for the ability to access available APIs (XML/REST) to build new interfaces, as well as best practices on how to back up the database, test disaster recovery, manage access rights settings, and much more.

The HDRP team has continued to build out module extensions to create synergies. These modules include a Meta Data Repository, a Raw Data Archive, an OMOP Pipeline, and a Patient App.

HDRP was built in Germany and has a proven track record, currently installed in 32 of 38 university hospitals in Germany, 4 out of 6 Health Centers. Over the last decade, IQVIA has further expanded in Europe with HDRP solutions, which are currently in use in Austria, Switzerland, Slovenia, the UK, Italy, the Czech Republic, Spain, and North America (Canada, and United States).

Overview of Features and Benefits

Extract of Key Features:

- Aggregation of relevant source data into longitudinal patient/donor records (e.g., therapeutic, and diagnostic events).
- User-friendly, high-quality data collection workflows regarding relevant research data
- Consent tracking
- Query interface for quick/complex searches of patient cohorts
- User management (incl. detailed rights & roles management)
- Pseudonymisation algorithms
- Configurable forms designer

Extract of Key Benefits:

- Improve collaboration across departments with one centralised research management system.
- Reduce time needed for identifying patient cohorts for research projects.
- More easily comply with regulations (e.g., by linking consent data to patient records).
- Orchestrate/parallelise processes to improve productivity with integrated workflow engine.

Contact IQVIA

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