### Scope

This guide aims to provide guidance on how HL7 FHIR can be used for supporting **FAIR health data** implementation and assessment. Other kinds of health-related artefacts, as clinical guidelines, algorithms, software, models are out of scope.

### What does FAIR mean?

**FAIR** stands for **F**indable, **A**ccessible, **I**nteroperable and **R**eusable

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| FAIR data - Wikipedia  Figure 1 – FAIR [SangyaPundir / [CC BY-SA](https://creativecommons.org/licenses/by-sa/4.0)] |

The [FAIR principles](https://www.go-fair.org/fair-principles) are **a minimal set of community-agreed guiding principles** and **practices** that allow both machines and humans to find, access, interoperate and re-use research data. The FAIR principles are well received in international community and rapidly adopted by researchers.

We give a more detailed [**introduction to the FAIR data principles**](https://confluence.hl7.org/display/SOA/FAIR+Principles) as well as the [**relationship to the HL7 FHIR standard**](https://confluence.hl7.org/display/SOA/HL7+FHIR+and+FAIR+principles) in later sections.

There are [**existing concepts for operationalization and indicator for assessment of FAIRness**](https://confluence.hl7.org/pages/viewpage.action?pageId=104570028), for example Research Data Alliance or EOSC recommendations. We discuss their implications in a special section [**HL7 FHIR and RDA Indicators**](https://confluence.hl7.org/display/SOA/HL7+FHIR+and+RDA+Indicators).

### What this project is aiming to?

The FAIRness for FHIR project, this Implementation Guide is part of, is intended to be the result of an active collaboration between the RDA and HL7 communities.

This project has as main goals to:

* Facilitate the **collaboration** between the **FAIR** and the **FHIR** **communities**
* Enable a **cooperative usage** of the **FHIR** standard and **FAIR** principles.
* Support the **assessment and implementation of FAIR health data** by using HL7 FHIR

### Which kind of problems FAIR and this guide is trying to address?

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| Allow researchers to make available under specified conditions of use set of data, derived from a data source, that have been collected and consolidated for a specific purpose. |
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| Allow researchers and data scientists to look for and access previously collected data sets to answer specific questions |

### Structure of this guide

To achieve the defined goals this guide has been structured in two main parts:

1. An informative guidance providing general guidelines on the cooperative usage of FHIR and FAIR, specifically best practices for satisfying the FAIR principles when publishing FHIR resources.
2. A set of FHIR conformance resources and examples that provide, for selected case(s), practical examples of how FAIR principles can be realized and assessed by using HL7 FHIR.

The **methodology** page describes the approach followed for realizing this guide.

### Audience

The audience for this Implementation Guide includes:

**Researchers**

* People who generate, process or use research health data

**Health Data Providers**

* Healthcare providers that populate clinical data warehouses
* Clinical study groups, operators of registries or epidemiological cohorts, surveillance or Public Health

**Technical Implementers**

* Vendors of EHR systems
* Vendors of data repositories
* Vendors of EDC systems

**Government agencies**

* Funding institutions that want to ensure the sustainable usability of their projects
* Legislators issuing guidelines for the use of personal data (GDPR, Data Governance Act)
* Regulatory bodies providing best practice guidelines

**Public**

* Citizens who want to use their data for their own purposes or donate data for research purposes

### Authors and Contributors

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