

Tab 2: UML Diagram 1+MG GDI

Proposed diagram for the 1+MG GDI T8.2 minimal dataset Classes (incl. their respective properties) and their relations are depicted.

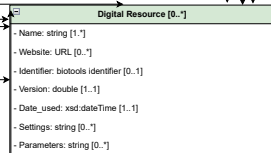
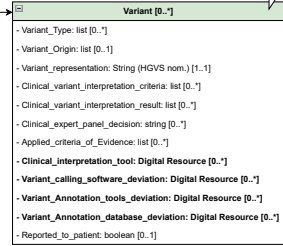
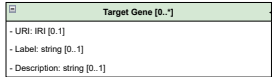
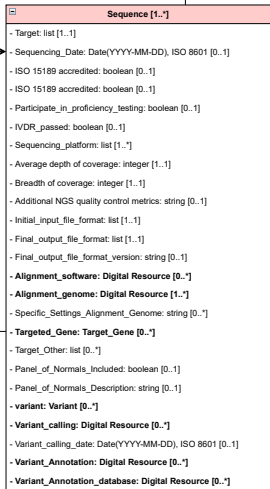
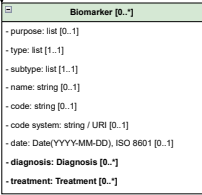
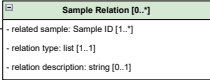
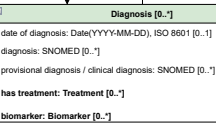
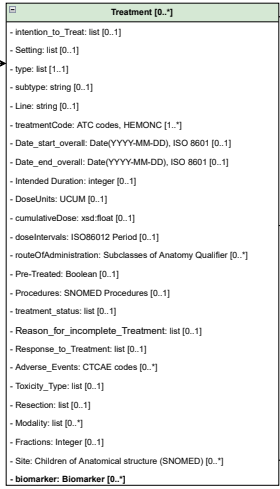
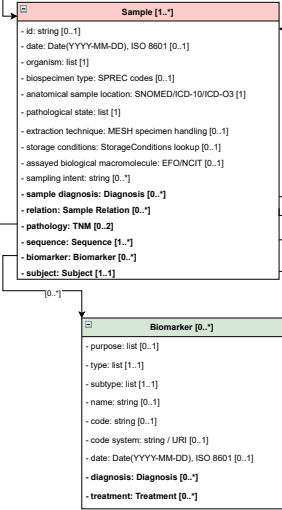
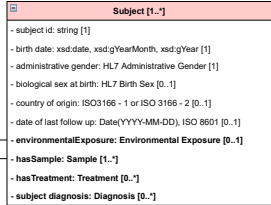
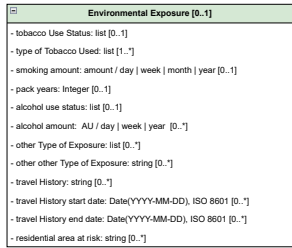
Modelling based on combining efforts/models from the different use cases (Cancer, Rare Diseases, Infectious Diseases).

Tab 3: Metadata

Proposed diagram for metadata of data submission.

This work is based on the metadata submission class in the data model, GDI MS8 metadata items, and the core metadata schema of Health-RI (NL), which currently includes the (draft) of HealthDCAT-AP (developed in TEHDAS2 program; version of 16-12-2025 was used), see legend.

Legenda:
Red: mandatory class
Green: optional class
properties in bold: connecting classes, not always included in our spreadsheet
red text: needs to be discussed



both subject and sample can have a diagnosis. It can be the same or different

Diagnosis is an optional class due to healthy controls

Inside Diagnosis, either diagnosis or provisional diagnosis is mandatory

There can be multiple related samples with the same relation type. Thus, cardinality for relation type is 1..1 but multiple sample IDs possible

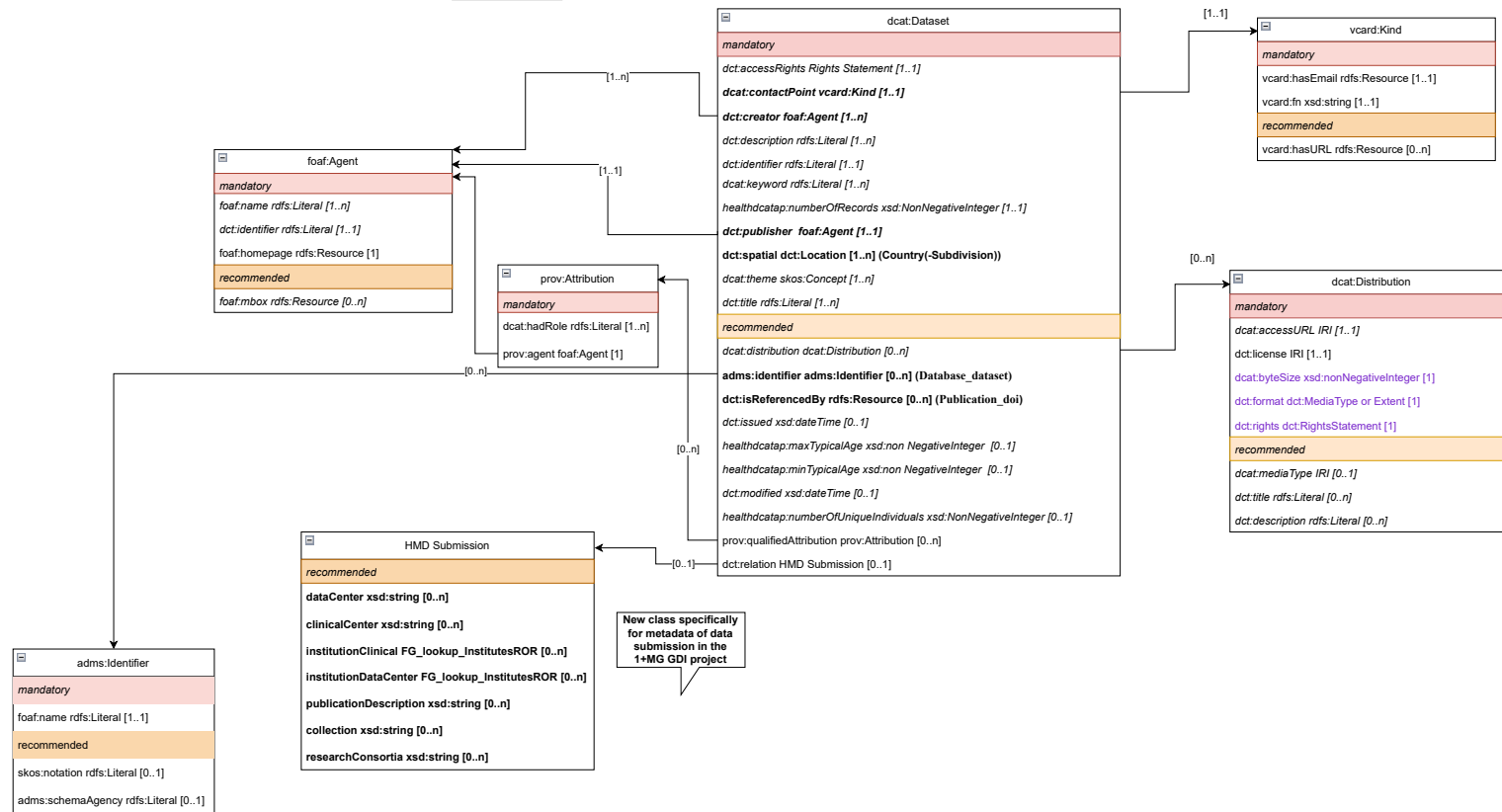
For different relation types, instantiate the Sample Relation class multiple times. Relation type is a list, relation description gives more info.

Instantiate the class "Variant" for each reported variant. In case the variant calling, annotation or database are done with a different tool than stated in the Sequence class, specify here the deviation.

Used software/algorithm are described with instances of the class "Digital Resource". Name, identifier, version, date of use and settings or parameters (exact command line) are indicated in this class.

cardinality of TNM is 0..2
allow max of 2 to be able to create both clinical and pathological

language tag English
mandatory, national
language optional



Legenda

Italics - Included in MS8 deliverable
Purple text - Mandatory field in HRI version 2, but not in GDI MS8 deliverable
Bold - Part of Metadata Submission class