

Data Quality Result Descriptive Profile

(DQRDP)

DATA DICTIONARY

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Acknowledgements

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1 Introduction

This data dictionary defines the metadata elements comprising the Data Quality Result Descriptive Profile (DQRDP), a metadata application profile implemented in the PEDSnet DSpace repository for the description, discovery, and provenance documentation of data quality (DQ) results.

The DQRDP is designed to support systematic documentation of the analytical outputs produced by data quality checks conducted across the PEDSnet network and by collaborating study teams. It provides a structured, interoperable framework for capturing essential information about each result, including its provenance, analytical parameters, clinical subject matter, and institutional context.

Each metadata element is documented as a semantic unit with defined attributes including obligation, repeatability, data constraint, definition, examples, and usage notes.

1.1 Scope

This dictionary documents all metadata elements in the DQRDP schema as implemented in the PEDSnet repository. It covers:

- Descriptive elements that characterize the result record (Sections 3–4)
- Relationship elements that link the result to other entities in the repository (Section 5)
- System-generated elements that are assigned automatically upon deposit (noted throughout)

Elements drawn from established metadata standards (Dublin Core, DSpace local extensions) are documented in their DQRDP-specific instantiation, which may impose additional constraints beyond those defined in the originating standard.

2 How to Use This Dictionary

Each element is documented using a standardized entry template. The attributes included in each entry are defined below.

Entry Template Attributes	
Element	The formal element identifier as used in the DQRDP schema (e.g., dc:title, local:outcomes). Displayed in monospace type.
Label	A human-readable label for the element used in repository interfaces and documentation.
Obligation	Whether the element is Mandatory, Optional, or Automatically Generated. See Section 2.1 for definitions.
Repeatability	Whether the element may take multiple values (repeatable) or only one value (non-repeatable).
Data Constraint	The required format or encoding for the element's value.
Vocabulary	The controlled vocabulary or encoding scheme from which the element's value must or should be drawn, if applicable.
Definition	The meaning of the element within the DQRDP context.
Rationale	The reason the element is included, where not self-evident from the definition.
Example(s)	One or more illustrative values. Actual values are shown in monospace type.
Creation / Maintenance Notes	Guidance on how to populate or update the element value.
Usage Notes	Clarifications on the intended use of the element or constraints not captured in other attributes.

2.1 Obligation Definitions

The obligation status of each element is indicated using one of three designations:

Designation	Meaning
● Mandatory	A value for this element must be supplied for every record. A mandatory element is essential for the record to be valid and discoverable. Mandatory elements must be provided when exchanging DQRDP-conformant records with other systems.
● Optional	A value for this element is encouraged but not required. Optional elements should be supplied when the information is known and applicable. Their absence does not invalidate the record.
● Automatically Generated	This element is populated by the repository system without manual input from the depositing analyst. Values for automatically generated elements must not be manually entered or modified.

2.2 Namespace Prefixes

The following namespace prefixes are used throughout this dictionary:

Prefix	Namespace	Description
dc	http://purl.org/dc/elements/1.1/	Dublin Core Metadata Element Set
dcterms	http://purl.org/dc/terms/	Dublin Core Metadata Terms
dspace	http://dspace.org/xmlns/dspace/	DSpace Internal
local	https://pedsnets.github.io/DQResults_MAP/	PEDSnet repository local extension elements
relation	(DSpace relationship)	DSpace entity relationship elements

3 Element Summary

3.1 Descriptive and Administrative Elements

The following table summarizes all descriptive and administrative elements of the DQRDP. Full definitions appear in Section 4.

Element	Label	Obligation	Repeatability	Data Constraint
dc:title	Title	Mandatory	Non-Repeatable	Free text (structured format recommended)
dcterms:created	Date Created	Mandatory	Non-Repeatable	ISO 8601 date (YYYY-MM-DD)
dc:creator	Creator	Optional	Repeatable	Surname, Given Name
dc:contributor	Affiliation	Mandatory	Repeatable	Controlled Term — ROR
local:dataProv	Data Provenance	Optional	Repeatable	Controlled Term — DataProv (local)
local:subject	Evaluation Parameters	Optional	Repeatable	Controlled Term — DQEval (local)
dcterms:abstract	Check Summary	Optional	Non-Repeatable	Free text
local:resultsObs	Findings	Mandatory	Repeatable	Controlled Term — resultsObs (local)
dc:description	Results Description	Optional	Repeatable	Free text
local:outcomes	Outcomes	Optional	Repeatable	Controlled Term — Outcomes (local)
local:outcomesDescription	Outcomes Description	Optional	Repeatable	Free text
local:mesh	Clinical Subject Headings	Optional	Repeatable	Controlled Term — MeSH
dc:publisher	Publisher	Mandatory	Non-Repeatable	Free text
dc:rights	Rights Statement	Mandatory	Non-Repeatable	Free text
local:license	License Link	Optional	Non-Repeatable	URI
dc:language	Record Language	Optional	Repeatable	ISO 639 (2- or 3-letter code)
local:adminNote	Database Version / Admin Note	Optional	Repeatable	Free text

Element	Label	Obligation	Repeatability	Data Constraint
dc:identifier.uri	Record Link	Automatically Generated	Non-Repeatable	URI (system-generated)
dcterms:date.accessioned	Record Accession Date	Automatically Generated	Non-Repeatable	ISO 8601 datetime
dcterms:date.available	Record Publication Date	Automatically Generated	Non-Repeatable	ISO 8601 datetime
dspace:id	Identifier	Automatically Generated	Non-Repeatable	Checksum (system-generated)
dspace:collection	Domain	Automatically Generated	Repeatable	DSpace handle ID
dspace:entity.type	Entity Type	Automatically Generated	Non-Repeatable	Controlled Term — EntityType (local)

3.2 Relationship Elements

The following table summarizes the relationship elements defined in the DQRDP. Full definitions appear in Section 5.

Element	Label	Obligation	Repeatability	Data Constraint
local:isDQResultOfDQCheck	DQCheck Relationship	Optional	Repeatable	DSpace Relationship (entity reference)
local:isDQResultOfDQResult	DQResult Relationship	Optional	Repeatable	DSpace Relationship (entity reference)
local:isDQResultOfOrgUnit	Institution Relationship	Optional	Repeatable	DSpace Relationship (entity reference)
local:isDQResultOfStudy	Study Relationship	Optional	Repeatable	DSpace Relationship (entity reference)
local:isDQResultOfDocumentation	Documentation Relationship	Optional	Repeatable	DSpace Relationship (entity reference)

4 Descriptive and Administrative Elements

This section documents each descriptive and administrative element of the DQRDP in detail. Elements are presented in the order in which they are defined in the DQRDP schema. System-generated elements appear at the end of this section.

4.1 Core Descriptive Elements

dc:title	Title
Obligation	Mandatory
Repeatability	Non-Repeatable
Data Constraint	Free text; structured format strongly recommended
Definition	The title of the DQ Result record. Serves as the primary human-readable identifier for the record.
Rationale	A consistent titling convention enables analysts and data quality managers to identify results at a glance, distinguish study-specific from network-level results, and sort or search records efficiently.
Example(s)	Plausibility Check Study Results: CHOP_2023Q1 Missing Value Check, PEDSnet CDM (2024-06)
Creation / Maintenance Notes	For study-specific results, use the format: [Check Type] Study Results: [Study Shorthand]. For network results, use: [Check Name], [Database Name] (YYYY-MM).
Usage Notes	Deviation from the recommended title formats is permitted when neither convention is applicable, but the title must remain sufficiently descriptive to identify the check type, scope, and temporal context without reference to other metadata fields.

dcterms:created	Date Created
Obligation	Mandatory
Repeatability	Non-Repeatable
Data Constraint	ISO 8601 date (YYYY-MM-DD)
Definition	The date on which the data quality result was produced.
Rationale	The creation date allows users to assess the currency and applicability of the result relative to the data version analyzed and any subsequent changes to the data or the check specification.
Example(s)	2024-06-15
Creation / Maintenance Notes	Record the date the analysis was run and the result files were generated, not the date of deposit into the repository. Use ISO 8601 format: YYYY-MM-DD.
Usage Notes	This field refers to the date of result production. The date of deposit is captured automatically in dc.date.accessioned.

dcterms:author Creator	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Surname, Given name
Definition	The name of the analyst or investigator who executed the code or procedure that produced the data quality result.
Rationale	Attributing results to their creator supports recognition, enables follow-up queries, and provides context for interpreting results produced under different analytical environments or institutional contexts.
Example(s)	Jiang, Tian Smith, Jordan A.
Creation / Maintenance Notes	Enter the name in inverted order (Surname, Given name). When multiple analysts contributed, each may be listed separately using additional instances of this field.
Usage Notes	The Creator field represents the analyst who ran the code, not necessarily the author of the check specification. Use dc.contributor.other to record institutional affiliation.

dcterms:contributor Creator Affiliation	
Obligation	Mandatory
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	<i>Research Organization Registry (ROR)</i>
Definition	The name of the institution or organization with which the creator is affiliated.
Rationale	Institutional affiliation contextualizes the creator's role and data access, and facilitates communication and attribution in multi-site research networks.
Example(s)	Children's Hospital of Philadelphia Boston Children's Hospital
Creation / Maintenance Notes	Values should be selected from or reconciled with the Research Organization Registry (ROR) to ensure standardization and interoperability. If the institution is not in ROR, use its full official name.
Usage Notes	When the record has multiple creators affiliated with different institutions, each affiliation should be recorded separately. Affiliation values are not required to correspond one-to-one with Creator entries.

local:dataProv	Data Provenance
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	https://pedsnet.github.io/DQResults_MAP/schema/local_vocabularies/vocab-dataprov.xsd
Definition	The data source or sources analyzed and reflected in the result.
Rationale	Establishes the provenance of the data underlying the result, enabling users to understand the applicable institutional and temporal scope and to filter results by data source.
Example(s)	PEDSnet Data Source PCORnet Data Source
Creation / Maintenance Notes	Select the applicable data source identifiers from the DataProv vocabulary. Each distinct data source contributing to the result should be listed separately.
Usage Notes	When a result is based on a specific extract or snapshot rather than a complete CDM instance, the snapshot identifier should be noted in local.admin.note.

dc:subject	Check Parameters
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	https://pedsnet.github.io/DQResults_MAP/schema/local_vocabularies/vocab-dqeval.xsd
Definition	Controlled terms describing the parameters of the data quality check function, including check type and evaluation methodology.
Rationale	Structured representation of check parameters enables faceted discovery, systematic comparison of results across checks and time periods, and automated aggregation of results by check type.
Example(s)	Muli-Site Longitudinal Anomaly Detection
Creation / Maintenance Notes	Select all applicable terms from the DQEval controlled vocabulary. At minimum, include the primary check category. Multiple terms may be assigned to reflect compound or multi-dimensional checks.
Usage Notes	DQEval terms are intended to reflect the analytical methodology of the check, not the clinical domain. Clinical subject matter is captured in dc.subject.mesh.

dc : type	Type
Obligation	Optional
Repeatability	Non-Repeatable
Data Constraint	Controlled Term
Vocabulary	<i>Study-Specific Network</i>
Definition	Indicates whether the result originates from a network-level or a study-specific data quality analysis.
Rationale	Network and study-specific results serve different audiences, are produced by different analytical pipelines, and require different contextual interpretation. The type field makes this distinction explicit and machine-actionable.
Example(s)	Network Study-Specific
Creation / Maintenance Notes	Select the applicable term from the ResultsType controlled vocabulary. The value must be consistent with the analytical scope reflected in the attached data and supporting metadata.
Usage Notes	Network results typically reflect aggregated or federated analysis across multiple data partners. Study-specific results reflect analysis conducted on behalf of or within a single study protocol.

dcterms : abstract	Check Summary
Obligation	Optional
Repeatability	Non-Repeatable
Data Constraint	Free text
Definition	A structured narrative describing the data quality check and the parameters applied to generate the result.
Rationale	The Check Summary provides a concise, self-contained description that allows a reader to understand what was evaluated without needing to consult the underlying code or methodology documentation.
Example(s)	The results of a Cohort Attrition check using Multi Site, Exploratory, Cross-Sectional parameters. This check investigates patient retention as the study cohort inclusion criteria are applied. This check was run to assess whether counts of patients with evidence of kidney stones aligned with investigator expectations across sites.
Creation / Maintenance Notes	Compose the summary at the time of result generation. Include: (1) the name or type of check and parameters; (2) the data domain or variable(s) examined; (3) any thresholds, reference periods, or site-specific parameters; and (4) the scope of the analysis (network vs. study).
Usage Notes	This field is intended to serve as the primary abstract for discovery and review purposes. It should be comprehensible to an analyst unfamiliar with the specific check.

local:resultobs	Findings
Obligation	Mandatory
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	https://pedsnet.github.io/DQResults_MAP/schema/local_vocabularies/vocab-results.xsd
Definition	Controlled terms characterizing the observable properties of the result output.
Rationale	Provides a structured means of categorizing result outputs beyond their check type, enabling users to filter for results with specific properties (e.g., those with site-level breakdowns or flagged anomalies).
Example(s)	Anomalies Observed Unexpected Output Disparate Site Behavior
Creation / Maintenance Notes	Assign all terms from the vocab-results vocabulary that accurately characterize the result output. Consult the vocabulary definitions to distinguish between similar terms.

dc:description	Findings Description
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Free text
Definition	A narrative description of the analysis results, providing interpretive context beyond what is captured in structured fields.
Rationale	Many data quality findings require contextual explanation that cannot be expressed through controlled terms alone. This field accommodates qualitative interpretation, caveats, and observations.
Example(s)	Three of seven sites exceeded the 5% threshold for missing discharge disposition. Site A showed improvement over the prior quarter; Site B's anomaly was traced to an ETL mapping error that has since been corrected.
Creation / Maintenance Notes	This field is optional and may be used to elaborate on findings, note anomalies, or provide interpretive guidance. It may be repeated to organize multiple distinct observations.
Usage Notes	This field complements but does not replace dc.description.abstract. Quantitative summaries of results (e.g., counts, rates) may be included here if not captured in attached output files.

local:outcomes Outcomes	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	https://pedsnet.github.io/DQResults_MAP/schema/local_vocabularies/vocab-outcomes.xsd
Definition	Controlled terms representing the action(s) taken by a study or site in response to the data quality findings.
Rationale	Documenting responses to findings closes the data quality feedback loop, enabling the network to track remediation activity and evaluate the impact of quality improvement efforts over time.
Example(s)	ETL Correction Submitted No Action Required Under Investigation
Creation / Maintenance Notes	Populate this field when the response to findings is known. It may be updated after initial deposit as actions are completed.
Usage Notes	This field captures the categorical response type. Narrative description of the response should be recorded in local.description.outcomes.

local:outcomesDescription Outcome Description	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Free text
Definition	A narrative description of the action(s) taken in response to the data quality findings.
Rationale	Provides the contextual detail necessary to understand, interpret, and verify the actions associated with the structured outcome terms in local.dqcheck.outcomes.
Example(s)	Site A identified a mapping error in the discharge disposition ETL logic. A corrected ETL run was submitted on 2024-07-10.
Creation / Maintenance Notes	Complete this field when local.dqcheck.outcomes is populated and the categorical term alone is insufficient to convey the nature of the response. May be updated as actions evolve.

<code>dterms:mesh</code>	Clinical Subject Headings
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Controlled Term
Vocabulary	<i>Medical Subject Headings (MeSH)</i>
Definition	Medical Subject Headings (MeSH) terms representing the clinical subject matter examined by the data quality check.
Rationale	MeSH terms enable cross-domain discovery and alignment with biomedical literature, supporting users who approach the repository through a clinical or scientific rather than a data quality lens.
Example(s)	Diabetes Mellitus, Type 2 Body Weight Drug Prescriptions
Creation / Maintenance Notes	Assign MeSH terms that correspond to the clinical concepts reflected in the variables or domains analyzed. Use the most specific applicable heading. Terms may be drawn from any MeSH tree.
Usage Notes	At least one MeSH term is required. When the check is domain-agnostic (e.g., a structural completeness check), assign the most relevant structural or administrative heading.

<code>local.admin.note</code>	Database Version
Obligation	Optional
Repeatability	Repeatable
Data Constraint	Free text
Definition	The version identifier of the database analyzed, as selected in <code>local.subject.DataProv</code> .
Rationale	Supplements the structured data provenance field with version-level detail that may not be captured in controlled vocabulary terms, supporting precise reproducibility assessment.
Example(s)	CDM v6.3.2, refresh date: 2024-06-01 OMOP CDM 5.4, extract 2024-Q1
Creation / Maintenance Notes	Record the specific version string or database snapshot identifier as provided by the data custodian. Use in conjunction with <code>local.subject.DataProv</code> .

4.2 Administrative & Technical Elements

dc:publisher Publisher	
Obligation	Mandatory
Repeatability	Non-Repeatable
Data Constraint	Free text
Definition	The name of the entity responsible for publishing the record in the repository.
Rationale	Identifies the institutional or organizational entity responsible for making the record available, supporting provenance, attribution, and citation.
Example(s)	PEDSnet Data Quality Program
Creation / Maintenance Notes	Use the standard publisher name as established by the repository administrator. This value is typically consistent across all records in a given collection.

dc:rights Rights Statement	
Obligation	Mandatory
Repeatability	Non-Repeatable
Data Constraint	Free text (license name)
Definition	The name of the license applied to the record.
Rationale	Clearly communicates the conditions under which the record and its associated outputs may be used, shared, or adapted.
Example(s)	Creative Commons Attribution 4.0 International (CC BY 4.0) All Rights Reserved
Creation / Maintenance Notes	Record the official name of the applicable license. This field should be populated in conjunction with dc.rights.uri.
Usage Notes	The rights statement applies to the metadata record. Rights pertaining to the underlying data reflected in the result may differ and should be addressed in supplementary documentation.

local:license License Link	
Obligation	Optional
Repeatability	Non-Repeatable
Data Constraint	URL
Definition	A URL linking to the full text of the legal license applied to the record.
Rationale	Provides machine-readable and human-readable access to the precise terms of the license, reducing ambiguity and supporting automated rights interpretation.
Example(s)	https://creativecommons.org/licenses/by/4.0/
Creation / Maintenance Notes	Supply the canonical URL for the license named in dc.rights. For standard licenses, this is typically the license publisher's stable identifier URL.
Usage Notes	The URI should resolve to a human-readable license document. Use the HTTPS form of the URL where available.

dc:language Record Language	
Obligation	Automatically Generated
Repeatability	Non-Repeatable
Data Constraint	ISO 639-1 language code
Vocabulary	ISO 639
Definition	The language in which the record's descriptive metadata is expressed.
Rationale	Supports multilingual discovery and interoperability with external metadata aggregators.
Example(s)	en
Creation / Maintenance Notes	Set automatically by the repository. The default value for all records in this profile is 'en' (English).

dc:identifier Record Link	
Obligation	Automatically Generated
Repeatability	Non-Repeatable
Data Constraint	URL
Definition	A persistent URL that identifies and resolves to the record in the repository.
Rationale	Provides a stable, citable link to the record for use in documentation, publications, and cross-system references.
Example(s)	https://repository.pedsnet.org/handle/123456789/1001
Creation / Maintenance Notes	Generated automatically by the repository upon record creation. Based on the record handle assigned by DSpace.
Usage Notes	This URL should be used whenever citing or linking to the record externally. Do not modify.

dcterms:provenance Record Provenance	
Obligation	Automatically Generated
Repeatability	Non-Repeatable
Data Constraint	Free text
Definition	A system-generated description of the user account that deposited the record.
Rationale	Supports repository audit trails by documenting the identity of the submitting user account.
Example(s)	Submitted by j.smith@chop.edu on 2024-06-17T14:32:00Z (DSpace v7.4)
Creation / Maintenance Notes	Generated automatically by the repository system at the time of submission. No manual entry is required.
Usage Notes	This field captures the submitting account, which may differ from dc.contributor.author if a repository administrator deposits records on behalf of an analyst.

dcterms:accessioned Record Accession Date	
Obligation	Automatically Generated
Repeatability	Non-Repeatable
Data Constraint	ISO 8601 datetime (YYYY-MM-DDTHH:MM:SSZ)
Definition	The date and time at which the record was deposited into the repository.
Rationale	Supports audit trails and allows users to identify when a result was made available in the repository, independently of when it was produced.
Example(s)	2024-06-17T14:32:00Z
Creation / Maintenance Notes	Assigned automatically by the repository system at the moment of deposit.

dcterms:available Record Publication Date	
Obligation	Automatically Generated
Repeatability	Non-Repeatable
Data Constraint	ISO 8601 datetime (YYYY-MM-DDTHH:MM:SSZ)
Definition	The date and time at which the record was made publicly accessible in the repository.
Rationale	Distinguishes between the moment of deposit and the moment of publication, supporting embargo workflows and access policy documentation.
Example(s)	2024-06-17T14:32:00Z
Creation / Maintenance Notes	Set automatically by the repository. For records without an embargo period, this value is identical to dc.date.accessioned.

dspace:type Entity Type	
Obligation	Mandatory
Repeatability	Non-Repeatable
Data Constraint	Controlled Term
Vocabulary	<i>EntityType (local vocabulary)</i>
Definition	The DSpace entity type of the record. Used by the repository to assign and enforce record relationships.
Rationale	DSpace relationship functionality requires each record to be explicitly typed. The entity type determines which relationship fields are available and how the record participates in the broader repository graph.
Example(s)	DQResult
Creation / Maintenance Notes	Assigned at record creation. Must be set to 'DQResult' for all records conforming to this profile.
Usage Notes	This field is required for the activation of relationship elements (see Section 4). Altering the entity type after relationships have been established may break existing links.

5 Relationship Elements

Relationship elements link a DQResult record to other entity records in the repository. These elements are implemented using DSpace entity relationships and require that both the DQResult record and the target entity record exist within the repository before the relationship can be established.

All relationship elements are optional. However, their use is strongly recommended wherever applicable, as they enable navigable provenance chains and support systematic retrieval of records by study, institution, check type, and analytical method.

relation.isDQResultOfDQCheck DQCheck Relationship	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	DSpace Relationship (entity reference)
Definition	Establishes a relationship between a DQResult record and the DQCheck record representing the check specification used to produce the result.
Rationale	Links analytical outputs to their methodological source, enabling users to evaluate results in light of the check's specification and to retrieve all results produced by a given check.
Example(s)	[DQCheck record: Completeness Check v2.1]
Creation / Maintenance Notes	Populate this field by selecting the corresponding DQCheck entity from the repository. At least one DQCheck relationship is recommended for all results produced by a formally registered check.
Usage Notes	This relationship is directional: the DQResult is the subject and the DQCheck is the object. The inverse relationship (isDQCheckOfDQResult) is managed by the DQCheck record.

relation.isDQResultOfDQResult DQResult Relationship	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	DSpace Relationship (entity reference)
Definition	Establishes a relationship between two DQResult records whose findings are analytically complementary.
Rationale	Some results are interpretable only in conjunction with a related result (e.g., a denominator count paired with an anomaly rate). This relationship makes such dependencies explicit and navigable.
Example(s)	[DQResult record: Missing Value Check, PEDSnet CDM (2024-06)]
Creation / Maintenance Notes	Use this relationship when the current result is intended to be interpreted alongside one or more other results. Both related records must exist in the repository before the relationship can be established.
Usage Notes	This relationship is symmetric: both records should reference each other. Coordinate with the owner of the related record to ensure reciprocal linking.

relation.isDQResultOfOrgUnit Institution Relationship	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	DSpace Relationship (entity reference)
Definition	Establishes a relationship between a DQResult record and one or more OrgUnit records representing the institutions whose data are reflected in the result.
Rationale	Explicit institution-level linkage enables repository users to retrieve all results associated with a particular site, supporting site-level performance tracking and comparison.
Example(s)	[OrgUnit record: Children's Hospital of Philadelphia]
Creation / Maintenance Notes	Link to all OrgUnit records corresponding to data partners whose data are analyzed and reflected in the result. For network results, this may include multiple institutions.
Usage Notes	OrgUnit entities must be registered in the repository before this relationship can be established. Contact the repository administrator to register a new institution.

relation.isDQResultOfStudy Study Relationship	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	DSpace Relationship (entity reference)
Definition	Establishes a relationship between a DQResult record and the Study record representing the research protocol for which the check was conducted.
Rationale	Connects data quality outputs to their research context, enabling study teams and reviewers to retrieve all quality assessments associated with a particular study.
Example(s)	[Study record: RECOVER Pediatric Study]
Creation / Maintenance Notes	Populate for study-specific results. Select the Study entity corresponding to the protocol under which the analysis was conducted.
Usage Notes	This relationship is expected for all records with dc.type = 'Study-Specific'. It is not required for network results unless the network analysis was conducted in support of a specific study.

relation.isDQResultOfDocumentation Documentation Relationship	
Obligation	Optional
Repeatability	Repeatable
Data Constraint	DSpace Relationship (entity reference)
Definition	Establishes a relationship between a DQResult record and a Documentation record containing code or other materials used to produce the result.

Rationale	Linking results to their underlying code supports reproducibility, peer review, and longitudinal reuse of analytical tools.
Example(s)	[Documentation record: DQ Completeness Check Script v3.2]
Creation / Maintenance Notes	Populate when code or analytical documentation used to produce the result has been registered as a Documentation entity in the repository. Upload scripts or notebooks as Documentation records before establishing this relationship.
Usage Notes	This relationship complements but does not replace the information captured in dc.description.abstract. The Documentation entity should contain the code itself; the abstract should describe what was done in plain language.

6 Controlled Vocabularies

Several elements in the DQRDP require values drawn from controlled vocabularies. The following table lists all vocabulary sources referenced in this dictionary, together with their scope and access location.

Name	Source	Scope
EntityType	Repository-Dependent	Controls values for dspace.entity.type. Defines recognized DSpace entity types in the PEDSnet repository.
Research Organization Registry (ROR)	ror.org	International registry of research institutions. Used for dc.contributor.other. Available at https://ror.org .
Medical Subject Headings (MeSH)	https://meshb.nlm.nih.gov/	NLM-maintained biomedical controlled vocabulary. Used for dc.subject.mesh. Available at https://www.nlm.nih.gov/mesh .
Check Parameters	vocab-dgeval.xsd	Controls values for dc.subject. Defines recognized data quality check types and evaluation parameters.
Findings	vocab-results.xsd	Controls values for local.dqcheck.resultobs. Characterizes observable properties of the result output.
Outcomes	vocab-outcomes.xsd	Controls values for local.dqcheck.outcomes. Defines recognized response types for data quality findings.
Data Provenance	vocab-dataproven.xsd	Controls values for local.subject.DataProv. Identifies recognized data sources in the PEDSnet network.
ISO 8601	ISO 8601 Date/Time Standard	International standard for date and time representation. Used for dc.date.created and system-generated date fields.
ISO 639	ISO 639 Language Codes	International standard for language codes. Used for dc.language.iso.

Local vocabularies (Check Parameters, Findings, Outcomes, and Data Provenance) are maintained by the PEDSnet Data Quality Program. Requests for additions or revisions to local vocabularies should be directed to the repository administrator.

7 Conformance

A record is considered conformant with the Data Quality Result Descriptive Profile (DQRDP) if and only if:

- All Mandatory elements are present and contain valid values consistent with the specified data constraint.
- All elements that require Controlled Term values contain terms drawn from the specified vocabulary.
- Non-Repeatable elements do not contain more than one value.
- Automatically Generated elements have not been manually overridden.
- The value of `dspace.entity.type` is set to 'DQResult'.

Optional elements and relationship elements are not required for conformance. Their absence does not constitute a violation of this profile; however, depositors are encouraged to supply them whenever the information is known and applicable.

Records deposited prior to the adoption of this profile version may not conform to all requirements listed here. Such records should be reviewed and updated by the depositing analyst or repository administrator as resources permit.

8 Revision History

Version	Date	Description
1.0	2025	Initial release of the DQRDP Data Dictionary.