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FAIR Package Registry ontology

Metadata

IRI

https://w3id.org/zinl/fpr-o

Title

FAIR Package Registry ontology

Creator

Dutch Health Care Institute (Zorginstituut Nederland)

Eelke van der Horst - The Hyve

Version Iri

https://w3id.org/zinl/fpr-o/1.0.0

Version Info

1.0.0

Description

Ontology to describe FAIR Package Statements of the Dutch Health Care Institute (Zorginstituut Nederland)

Classes

Intervention [c]

IRI	http://data.cochrane.org/ontologies/pico/Intervention
In Domain Of	has ATC code [dp] has care activity code [dp] has care product code [dp] has claim code [dp] has EMA reference [dp] has international nonproperietary name [dp] has marketing authorization holder [dp]
In Range Of	has intervention [op]

Outcome [c]

IRI	http://data.cochrane.org/ontologies/pico/Outcome
In Domain Of	is surrogate outcome [dp]

Pico [c]

IRI	http://data.cochrane.org/ontologies/pico/PICO
In Range Of	has PICO [op]

Population [c]

IRI	http://data.cochrane.org/ontologies/pico/Population
In Range Of	has indication [op]

Stato_Statistic ^c

IRI   `http://purl.obolibrary.org/obo/STATO_statistic`

In Range Of   has outcome measurement ^{op}

Data Set ^c

IRI   `http://purl.org/linked-data/cube#DataSet`

In Domain Of   has scenario ^{op}

In Range Of
                        has cost estimation ^{op}
                        has trend assumption ^{op}

Observation ^c

IRI   `http://purl.org/linked-data/cube#Observation`

In Domain Of
                        has cost type ^{op}
                        has market penetration ^{dp}
                        has number of patients ^{dp}
                        has timepoint ^{dp}
                        has total costs ^{dp}

Item List ^c

IRI   `http://schema.org/ItemList`

Super Class Of   Literature Reference List ^c

Search Action ^c

IRI   `http://schema.org/SearchAction`

Super Class Of   Literature Search ^c

Interval ^c

IRI   `http://www.w3.org/2006/time#Interval`

In Range Of   has date limit ^{op}

Activity ^c

IRI   `http://www.w3.org/ns/prov#Activity`

Super Class Of
                        Literature Search ^c
                        Systematic Literature Review ^c

Collection ^c

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IRI	http://www.w3.org/ns/prov#Collection
Super Class Of	Literature Reference List ^C

Appropriate Use Agreement ^C

IRI	https://w3id.org/zinl/fpr-o#AppropriateUseAgreement
Description	A mechanism or agreement, often a managed entry or risk-sharing scheme, that links a new technology's funding or reimbursement to its actual use in a specific patient population or clinical setting, typically to manage clinical or financial uncertainty or to ensure cost-effective utilization

Assessment Type ^C

IRI	https://w3id.org/zinl/fpr-o#AssessmentType
Description	Type of assessment of a intervention-indication combination evaluation, such as initial assessment or reassessment
In Range Of	has assessment type ^{op}

Budget Impact Analysis ^C

IRI	https://w3id.org/zinl/fpr-o#BIA
Description	Economic evaluation that maps the expected change in (total) expenditures resulting from the implementation of new care (intervention, process) or the de-implementation of existing care, and focuses on whether the implementation is actually financeable
In Domain Of	has cost estimation ^{op} has trend assumption ^{op}
In Range Of	has BIA ^{op}

Cost-Effectiveness ^C

IRI	https://w3id.org/zinl/fpr-o#CostEffectiveness
Description	A type of economic evaluation that compares the relative costs and health outcomes of two or more alternative interventions to determine which one provides the greatest health benefit for a given cost, often expressed as the Incremental Cost-Effectiveness Ratio (ICER)
In Domain Of	is cost effective ^{dp}
In Range Of	has cost-effectiveness ^{op}

Cost type ^C

IRI	https://w3id.org/zinl/fpr-o#CostType
Description	Indicator of a cost type in the context of a BIA, such as the cost in the current situation, or the additional care costs when a substitute is reimbursed

In Range Of   has cost type ^{op}

Established Medical Science and Medical Practice ^c

IRI   https://w3id.org/zinl/fpr-o#EMSMP

Description

Section of a Package Statement that evaluates whether the Intervention conforms to Established Medical Science and Medical Practice in relation to the Indication.

In Domain Of

has outcome measurement ^{op}
has PICO ^{op}
has relative effectiveness ^{op}
has systematic literature review ^{op}
adheres to EMSMP ^{dp}

In Range Of   has EMSMP ^{op}

Editorial Status ^c

IRI   https://w3id.org/zinl/fpr-o#EditorialStatus

Description

Editorial status of a package type, such as definitive

In Range Of   has status ^{op}

Evaluation Outcome ^c

IRI   https://w3id.org/zinl/fpr-o#EvaluationOutcome

Description

Relative outcome of a comparison or evaluation, such as positive or negative

In Range Of

has conclusion ^{op}
has relative effectiveness ^{op}

Intervention-Indication Combination Assessment ^c

IRI   https://w3id.org/zinl/fpr-o#IICAssessment

Description

Grouping of all evaluations related to one Intervention-Indication Combination in the context of a Package Statement

In Domain Of

has BIA ^{op}
has conclusion ^{op}
has cost-effectiveness ^{op}
has EMSMP ^{op}
has indication ^{op}
has intervention ^{op}
has managed entry agreement ^{op}
has conclusion text ^{dp}

In Range Of   has IIC assessment ^{op}

Literature Reference List ^c

IRI https://w3id.org/zinl/fpr-o#LiteratureReferenceList

Description

Filtered (literature) results that resulted from literature searches and cleaning/evaluation of each result

Sub Class Of

schema:ItemList ^c
Collection ^c

Literature Search ^c

IRI https://w3id.org/zinl/fpr-o#LiteratureSearch

Description

Execution of a search for relevant literature/evidence in a data source using a particular search query, executed at a particular time.

Sub Class Of

schema:SearchAction ^c
Activity ^c

In Domain Of

has date limit ^{op}
has evidence type ^{op}

Managed Entry Agreement ^c

IRI https://w3id.org/zinl/fpr-o#ManagedEntryAgreement

Description

Formal, negotiated contract between a health technology provider and a payer (like a national health system) that provides conditional access and reimbursement for a health technology, specifically addressing and mitigating uncertainty about its real-world performance or budget impact

In Range Of has managed entry agreement ^{op}

Package Statement ^c

IRI https://w3id.org/zinl/fpr-o#PackageStatement

Description

The official determination by the Dutch Health Care Institute regarding the content of the standard health insurance package (basisverzekering) that defines the boundaries of what should be collectively insured and what should not.

In Domain Of

has assessment type ^{op}
has IIC assessment ^{op}
has package type ^{op}
has package type medical subtype ^{op}
has status ^{op}
has case number ^{dp}
has guarantee document ^{dp}
has serial number ^{dp}

Package Type ^c

IRI	https://w3id.org/zinl/fpr-o#PackageType
Description	Type of the package statement, i.e. point-of-view or advice
In Range Of	has package type ^{op}

Package Type Medication Subtype ^c

IRI	https://w3id.org/zinl/fpr-o#PackageTypeMedicationSubtype
Description	In case of medication, the subtype of the package statement, which can be lock procedure drug
In Range Of	has package type medical subtype ^{op}

Scenario ^c

IRI	https://w3id.org/zinl/fpr-o#Scenario
Description	Possible financial situation that is evaluated in the context of a BIA
In Range Of	has scenario ^{op}

Systematic Literature Review ^c

IRI	https://w3id.org/zinl/fpr-o#SystematicLiteratureReview
Description	Search for evidence (literature) in the context of a Package Statement, and listing of filtered results
Sub Class Of	Activity ^c
In Range Of	has systematic literature review ^{op}

Object Properties

has assessment type ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasAssessmentType
Description	Indicates the assessment type of a Package Statement
Domain	Package Statement ^c
Range	Assessment Type ^c

has BIA ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasBIA
Description	The Budget Impact Analysis for an IIC

| **Domain** | Intervention-Indication Combination Assessment ^c |
| **Range** | Budget Impact Analysis ^c |

has conclusion ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasConclusion
Description	The conclusion about a ICC assessment, expressed as positive or negative
Domain	Intervention-Indication Combination Assessment ^c
Range	Evaluation Outcome ^c

has cost-effectiveness ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasCostEffectiveness
Description	The discussion of cost-effectiveness for an IIC
Domain	Intervention-Indication Combination Assessment ^c
Range	Cost-Effectiveness ^c

has cost estimation ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasCostEstimation
Description	The cost estimation dataset of a BIA
Domain	Budget Impact Analysis ^c
Range	qb:DataSet ^c

has cost type ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasCostType
Description	The cost type dimension of a particular cost estimation value
Domain	qb:Observation ^c
Range	Cost type ^c

has date limit ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasDateLimit
Description	The date limit for a search for evidence
Domain	Literature Search ^c
Range	time:Interval ^c

has EMSMP ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasEMSMP`
Description	The discussion of EMSMP for an IIC
Domain	[Intervention-Indication Combination Assessment](#) ^c
Range	[Established Medical Science and Medical Practice](#) ^c

has evidence type ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasEvidenceType`
Description	The type of evidence (RTC, Systematic review etc) that was searched for
Domain	[Literature Search](#) ^c

has IIC assessment ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasIICAssessment`
Description	An IIC assessment that a Package Statement covers
Domain	[Package Statement](#) ^c
Range	[Intervention-Indication Combination Assessment](#) ^c

has indication ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasIndication`
Description	The indication that an IIC assessment is about
Domain	[Intervention-Indication Combination Assessment](#) ^c
Range	[pico:Population](#) ^c

has intervention ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasIntervention`
Description	The intervention that a IIC assessment is about
Domain	[Intervention-Indication Combination Assessment](#) ^c
Range	[pico:Intervention](#) ^c

has managed entry agreement ^{op}

IRI	`https://w3id.org/zinl/fpr-o#hasManagedEntryAgreement`

Description

A managed entry agreement for a IIC

Domain Intervention-Indication Combination Assessment ^C

Range Managed Entry Agreement ^C

has outcome measurement ^{op}

IRI https://w3id.org/zinl/fpr-o#hasOutcomeMeasurement

Description

The actual value of a outcome measure that is part of the EMSMP evaluation

Domain Established Medical Science and Medical Practice ^C

Range STATO:statistic ^C

has PICO ^{op}

IRI https://w3id.org/zinl/fpr-o#hasPICO

Description

The PICO that is defined for an EMSMP investigation

Domain Established Medical Science and Medical Practice ^C

Range pico:PICO ^C

has package type ^{op}

IRI https://w3id.org/zinl/fpr-o#hasPackageType

Description

Indicates the package type of a Package Statement

Domain Package Statement ^C

Range Package Type ^C

has package type medical subtype ^{op}

IRI https://w3id.org/zinl/fpr-o#hasPackageTypeMedicationSubtype

Description

Indicates the package subtype in case the intervention is medication

Domain Package Statement ^C

Range Package Type Medication Subtype ^C

has relative effectiveness ^{op}

IRI https://w3id.org/zinl/fpr-o#hasRelativeEffectiveness

Description

The relative effectiveness of a Intervention for an Indication, expressed as positive, negative, or equal

| **Domain** | Established Medical Science and Medical Practice ^c |
| **Range** | Evaluation Outcome ^c |

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has scenario ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasScenario
Description	The scenario for a BIA dataset
Domain	qb:DataSet ^c
Range	Scenario ^c

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has status ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasStatus
Description	Indicates the editorial status of the Package Statement
Domain	Package Statement ^c
Range	Editorial Status ^c

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has systematic literature review ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasSystematicLiteratureReview
Description	The search for evidence and results for the EMSMP evaluation
Domain	Established Medical Science and Medical Practice ^c
Range	Systematic Literature Review ^c

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has trend assumption ^{op}

IRI	https://w3id.org/zinl/fpr-o#hasTrendAssumption
Description	The trend assumption dataset of a BIA
Domain	Budget Impact Analysis ^c
Range	qb:DataSet ^c

Datatype Properties

adheres to EMSMP ^{dp}

| **IRI** | https://w3id.org/zinl/fpr-o#adheresToEMSMP |
| **Description** | Whether the Intervention adheres to Established Medical Science and Medical Practice for the relevant indication |

Domain	[Established Medical Science and Medical Practice](#) ^c
Range	xsd:boolean

has ATC code ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasATCCode
Description	ATC code for the Intervention
Domain	pico:Intervention ^c
Range	xsd:string

has care activity code ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasCareActivityCode
Description	Care activity code (ZA-code) of the Intervention
Domain	pico:Intervention ^c
Range	xsd:string

has care product code ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasCareProductCode
Description	Care product code of the Intervention
Domain	pico:Intervention ^c
Range	xsd:string

has case number ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasCaseNumber
Description	Case number of the Package Statement
Domain	Package Statement ^c
Range	xsd:integer

has claim code ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasClaimCode
Description	Claim code of the Intervention
Domain	pico:Intervention ^c
Range	xsd:integer

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has conclusion text ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasConclusionText
Description	Conclusion text for an IIC assessment
Domain	Intervention-Indication Combination Assessment ^c
Range	xsd:string

has EMA reference ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasEMARef
Description	EMA reference for the Intervention
Domain	pico:Intervention ^c
Range	xsd:string

has guarantee document ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasGuaranteeDocument
Description	Guarantee document of the Package Statement
Domain	Package Statement ^c
Range	xsd:anyURI

has international nonproperietary name ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasINN
Description	Nonproperietary name of the Intervention
Domain	pico:Intervention ^c
Range	xsd:string

has market penetration ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasMarketPenetration
Description	Expected Intervention market penetration
Domain	qb:Observation ^c
Range	xsd:float

has marketing authorization holder ^{dp}

IRI	https://w3id.org/zinl/fpr-o#hasMarketingAuthorizationHolder

Description

Authorization holder of the Intervention

Domain pico:Intervention ^c

Range xsd:string

has number of patients ^{dp}

IRI https://w3id.org/zinl/fpr-o#hasNumberOfPatients

Description

Number of patients for a BIA estimate

Domain qb:Observation ^c

Range xsd:integer

has serial number ^{dp}

IRI https://w3id.org/zinl/fpr-o#hasSerialNumber

Description

Serial number of the Package Statement

Domain Package Statement ^c

Range xsd:integer

has timepoint ^{dp}

IRI https://w3id.org/zinl/fpr-o#hasTimepoint

Description

Time point of a particular BIA estimate

Domain qb:Observation ^c

Range xsd:string

has total costs ^{dp}

IRI https://w3id.org/zinl/fpr-o#hasTotalCosts

Description

Total costs for a particular BIA estimate

Domain qb:Observation ^c

Range xsd:integer

is cost effective ^{dp}

IRI https://w3id.org/zinl/fpr-o#isCostEffective

Description

Whether an Intervention is cost-effective for the Indication

Domain Cost-Effectiveness ^c

Range	xsd:boolean

is surrogate outcome ^{dp}

IRI   https://w3id.org/zinl/fpr-o#isSurrogateOutcome

Description

Whether an outcome is a surrogate outcome

Domain   pico:Outcome ^c

Range   xsd:boolean

Annotation Properties

creator ^{ap}

IRI   http://purl.org/dc/elements/1.1/creator

date ^{ap}

IRI   http://purl.org/dc/elements/1.1/date

close match ^{ap}

IRI   http://www.w3.org/2004/02/skos/core#closeMatch

Namespaces

STATO

http://purl.obolibrary.org/obo/STATO_

cc

http://data.cochrane.org/ontologies/core/

dc

http://purl.org/dc/elements/1.1/

dct

http://purl.org/dc/terms/

fabio

http://purl.org/spar/fabio

fpr-o

https://w3id.org/zinl/fpr-o#

ns1

https://w3id.org/zinl/

obo

http://purl.obolibrary.org/obo/

owl

http://www.w3.org/2002/07/owl#

pico

http://data.cochrane.org/ontologies/pico/

prov

http://www.w3.org/ns/prov#

qb

http://purl.org/linked-data/cube#

rdf

http://www.w3.org/1999/02/22-rdf-syntax-ns#

rdfs

http://www.w3.org/2000/01/rdf-schema#

schema

http://schema.org/

skos

http://www.w3.org/2004/02/skos/core#

time

http://www.w3.org/2006/time#

xsd

http://www.w3.org/2001/XMLSchema#

Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties