model

Package in package 'DDF'

Model
Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

model diagram

Class diagram in package 'model'

model Version 1.0 cupke created on 3/9/2023. Last modified 3/9/2023

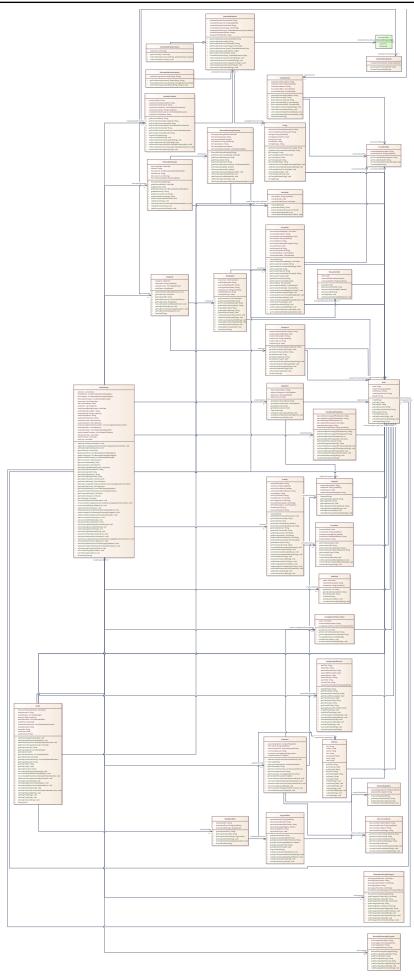


Figure 1: model

Activity

Class in package 'model'

An action, undertaking, or event, which is anticipated to be performed or observed, or was performed or observed, according to the study protocol during the execution of the study.

Activity
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
activityDescription: String Private	
The textual representation of the study activity.	[Is static True. Containment is Not Specified.]
activityId: String Private Const	[Is static True. Containment is Not Specified.]
activityIsConditional: boolean Private	[Is static True. Containment is Not Specified.]
activityIsConditionalReason: String Private	[Is static True. Containment is Not Specified.]
activityName : String Private	
The literal identifier (i.e., distinctive designation) of the clinical study activity.	[Is static True. Containment is Not Specified.]
activityTimelineId : String Private	
OK, I'm super-struggling with this one here. If we have instances of activities in a ScheduleTimeline that reference activities, then this means that we should have timelines with one Activity, and one ScheduledActivityInstance with the same definition that both point to ScheduleTimelines. We also may have an Activity that points to a ScheduleTimeline and a ScheduledActivityInstance that points to same Activity, but to a different ScheduleTimeline. This will likely happencorrect? At the surface it seems so. I'm thinking this won't work and that only ScheduledActivityInstances should ever point to a ScheduleTimeline. Also it's possible for an Activity to be the start of more than one ScheduleTimeline, correct? If so, then this can't be a scalar variable. Hence the association defined (1 to 0*) between Activity objects and ScheduledActivityInstance objects. [Is static True. Containment is Not Specified.]	
	[Is static True. Containment is Not Specified.]

ATTRIBUTES beSurrogateIds: List<String> Private [Is static True. Containment is Not Specified.] biomedicalConceptIds: List<String> Private [Is static True. Containment is Not Specified.] definedProcedures: List<Procedure> Private [Is static True. Containment is Not Specified.] nextActivityId: String Private A system identifier assigned to a study activity that occurs immediately after the current study activity. [Is static True. Containment is Not Specified.]

previousActivityId : String Private

A system identifier assigned to a study activity that occurs immediately prior to the current study activity.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Activity Target: Private definedProcedures (Class)

Procedure

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private activities (Class) Activity

Cardinality: [0..*]

OPERATIONS

Activity (activityId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• addDefinedProcedure (procedure : Procedure) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getActivityDescription (): String Public

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityIsConditional (): boolean Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityIsConditionalReason (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityName (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityTimelineId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getBcCategoryIds (): List<String> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getBcSurrogateIds (): List<String> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getBiomedicalConceptIds (): List<String> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getDefinedProcedures () : List<Procedure> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getNextActivityId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getPreviousActivityId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeDefinedProcedure (procedure : Procedure) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setActivityDescription (description : String) : void Public

setBcSurrogateIds (bcSurrogateIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ightharpoonup setBiomedicalConceptIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setDefinedProcedures (definedProcedures : List<Procedure>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setNextActivityId (nextActivityId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setPreviousActivityId (previousActivityId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Address

Class in package 'model'

Address Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]
[Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Address	Target: Private country (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Organization	Target: Private organizationLegalAddress (Class) Address

PERATIONS	
getCity () : String Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.
getCountry () : Code Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.
getDistrict () : String Public	

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getLine (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getPostalCode () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getState () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getText (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setCity (city : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setCountry (country : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setDistrict (district : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setLine (line : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setPostalCode (postalCode : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setState (state : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setText (text : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

AliasCode

Class in package 'model'

An alternative symbol or combination of symbols which is assigned to the members of a collection.

AliasCode Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
aliasCodeId: String Private Const	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
ISSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCode (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCodeAliases (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyPhase (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) BiomedicalConcept	Target: Private bcConceptCode (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyDesignBlindingScheme (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) BiomedicalConceptProperty	Target: Private bcPropertyConceptCode (Class) AliasCode

OPERATIONS AliasCode (aliasCodeld: String): Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operation getStandardCode (): Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operation getStandardCodeAliases (): List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operation getStandardCodeAliases (): List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operation getStandardCode (standardCode: Code): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operation getStandardCodeAliases (standardCodeAliases: List<Code>): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

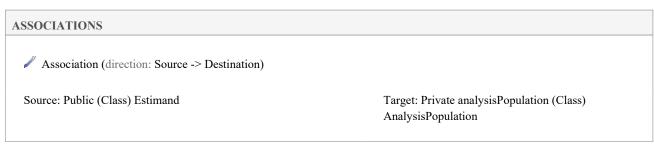
Analysis Population

Class in package 'model'

A target study population on which an analysis is performed. These may be represented by the entire study population, a subgroup defined by a particular characteristic measured at baseline, or a principal stratum defined by the occurrence (or non-occurrence, depending on context) of a specific intercurrent event. (ICH E9 R1 Addendum)

AnalysisPopulation Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
populationDescription : String Private	
The textual representation of the study population for analysis.	[Is static True. Containment is Not Specified.]



OPERATIONS AnalysisPopulation (analysisPopulationId: String): Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] GetAnalysisPopulationId(): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] GetPopulationDescription(): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] SetPopulationDescription (populationDescription: String): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConcept

Class in package 'model'

BiomedicalConcept Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
bcProperties: List <biomedicalconceptproperty> Private</biomedicalconceptproperty>	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConcept Target: Private bcConceptCode (Class) AliasCode

Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConcept Target: Private bcProperties (Class)

BiomedicalConceptProperty
Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private biomedicalConcepts (Class)

BiomedicalConcept
Cardinality: [0..*]

OPERATIONS

♦ BiomedicalConcept (biomedicalConceptId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcConceptCode () : AliasCode Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcProperties (): List<BiomedicalConceptProperty> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcReference (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSynonyms () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBiomedicalConceptId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcConceptCode (bcConceptCode : AliasCode) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PERATIONS
astDaNama (haNama) String) , yield Dublic
setBcName (bcName : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
setBcProperties (bcProperties : List <biomedicalconceptproperty>) : void Public</biomedicalconceptproperty>
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
setBcReference (bcReference : String) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
♦ setBcSynonyms (bcSynonyms : List <string>) : void Public</string>
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

${\bf Biomedical Concept Category}$

Class in package 'model'

BiomedicalConceptCategory Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private bcCategories (Class)
BiomedicalConceptCategory

Cardinality: [0..*]

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getBcCategoryChildrenIds (): List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getBcCategoryDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcCategoryMemberIds () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcCategoryName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcCategoryParentIds () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBiomedicalConceptCategoryId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcCategoryChildrenIds (bcCategoryChildrenIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcCategoryDescription (bcCategoryDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcCategoryMemberIds (bcCategoryMemberIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcCategoryName (bcCategoryName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

setBcCategoryParentIds (bcCategoryParentIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConceptProperty

Class in package 'model'

BiomedicalConceptProperty Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConceptProperty

Target: Private bcPropertyResponseCodes (Class)

ResponseCode

Cardinality: [0..*]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConceptProperty

Target: Private bcPropertyConceptCode (Class)

AliasCode

Association (direction: Source -> Destination)

Source: Public (Class) BiomedicalConcept

Target: Private bcProperties (Class)
BiomedicalConceptProperty
Cardinality: [0..*]

OPERATIONS

■ BiomedicalConceptProperty (bcPropertyId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcPropertyConceptCode () : AliasCode Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcPropertyDatatype () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcPropertyId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcPropertyName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcPropertyResponseCodes () : List<ResponseCode> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

isBcPropertyEnabled (): boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

isBcPropertyRequired (): boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcPropertyConceptCode (bcPropertyConceptCode : AliasCode) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcPropertyDatatype (bcPropertyDatatype : String) : void Public

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBcPropertyEnabled (bcPropertyEnabled : boolean) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBcPropertyName (bcPropertyName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBcPropertyResponseCodes (bcPropertyResponseCodes : List≺ResponseCode>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BiomedicalConceptSurrogate

Class in package 'model'

BiomedicalConceptSurrogate Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]



OPERATIONS

OPERATIONS

₱ BiomedicalConceptSurrogate (bcSurrogateId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateName () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogateReference (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateDescription (bcSurrogateDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateName (bcSurrogateName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBcSurrogateReference (bcSurrogateReference : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Code

Class in package 'model'

A symbol or combination of symbols which is assigned to the members of a collection.

Code

Version 1.0 Phase 1.0 Proposed

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ATTRIBUTES

ode: String Private

The literal value of a code.

[Is static True. Containment is Not Specified.]

codeId : String Private Const

ATTRIBUTES

[Is static True. Containment is Not Specified.]

codeSystem : String Private

The literal identifier (i.e., distinctive designation) of the system used to assign and/or manage codes.

[Is static True. Containment is Not Specified.]

codeSystemVersion : String Private

The version of the code system.

[Is static True. Containment is Not Specified.]

decode : String Private

Standardized or dictionary-derived human readable text associated with a code.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Objective	Target: Private objectiveLevel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private trialType (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyArm	Target: Private studyArmType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterContactModes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private businessTherapeuticAreas (Class)

Code

Cardinality: [0..*]

ACCOCIATIONS	
ASSOCIATIONS Association (direction: Source -> Destination)	
Source: Public (Class) InvestigationalIntervention	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private interventionModel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Timing	Target: Private timingType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Timing	Target: Private timingRelativeToFrom (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Address	Target: Private country (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Indication	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCode (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) ResponseCode	Target: Private code (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Endpoint	Target: Private endpointLevel (Class) Code
Association (direction: Source -> Destination)	

ASSOCIATIONS	
Source: Public (Class) StudyDesign	Target: Private trialIntentType (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Procedure	Target: Private procedureCode (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyEpoch	Target: Private studyEpochType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterEnvironmentalSetting (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCodeAliases (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Organization	Target: Private organizationType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyArm	Target: Private studyArmDataOriginType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private therapeuticAreas (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesignPopulation	Target: Private plannedSexOfParticipants (Class) Code

ASSOCIATIONS

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyProtocolVersion Target: Private protocolStatus (Class) Code

OPERATIONS

Oce (codeId : String): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getCode () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getCodeId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getCodeSystem (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getCodeSystemVersion (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getDecode () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setCode (code : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setCodeSystem (codeSystem : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setCodeSystemVersion (codeSystemVersion : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setDecode (decode : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Encounter

Class in package 'model'

Contact between subject/patient and healthcare practitioner/researcher, during which an assessment or activity is performed. Contact may be physical or virtual.

Encounter
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Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

encounterContactModes : List<Code> Private

The means by which an interaction occurs between the subject/participant and person or entity (e.g., a device).

[Is static True. Containment is Not Specified.]

encounterDescription : String Private

The textual representation of the protocol-defined clinical encounter.

[Is static True. Containment is Not Specified.]

encounterEnvironmentalSetting : Code Private

The environment/setting where the event, intervention, or finding occurred.

[Is static True. Containment is Not Specified.]

• encounterId : String Private Const

[Is static True. Containment is Not Specified.]

• encounterName : String Private

The literal identifier (i.e., distinctive designation) for a protocol-defined clinical encounter.

[Is static True. Containment is Not Specified.]

encounterScheduledAtTimingId : String Private

Ok, so now that we have a better understanding of the ScheduleTimeline, we need to think about what encounters should point to. In this case I believe the only relevent information in a Timing object re: Encounters is the window data which is just a string (could be meaningless). When managing patient protocols, encounters begin with some type of event, not a constraint such as a Timing. Encounters are an umbrella concept for a series of events (px, rx, labs, etc..) that a patient encounters during a provider visit. In patient protocols they often involve diagnoses and claims of "conditions"...not to be confused with conditions associated with ScheduledDecisionInstances. Which makes me think that we might not want to overload the term "condition". Anyway, I won't change this to a collection until we've figured out why the pointer exists.

[Is static True. Containment is Not Specified.]

encounterType : Code Private

A characterization or classification of contact between subject/patient and healthcare practitioner/researcher, during which an

assessment or activity is performed. [Is static True. Containment is Not Specified.] assessment or activity is performed. [Is static True. Containment is Not Specified.] assessment or activity is performed. [Is static True. Containment is Not Specified.] previous EncounterId: String Private A system identifier assigned to a clinical encounter that occurs immediately prior to the current clinical encounter. [Is static True. Containment is Not Specified.] transition EndRule: Transition Rule Private [Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private transitionEndRule (Class) TransitionRule
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterContactModes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private transitionStartRule (Class) TransitionRule
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterEnvironmentalSetting (Class) Code
Association (direction: Source -> Destination)	

ASSOCIATIONS Source: Public (Class) Encounter Target: Private encounterType (Class) Code Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private encounters (Class) Encounter Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyEpoch Target: Private encounters (Class) Encounter Cardinality: [0..*]

OPERATIONS Encounter (encounterId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterContactModes (): List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterEnvironmentalSetting (): Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterName () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterScheduledAtTimingId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEncounterType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getNextEncounterId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Model Report 9 March, 2023 **OPERATIONS** getPreviousEncounterId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStartRule () : TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTransitionEndRule (): TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTransitionStartRule (): TransitionRule Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterContactModes (encounterContactModes : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterDescription (encounterDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterEnvironmentalSetting (encounterEnvironmentalSetting : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterName (encounterName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterScheduledAtTimingId (encounterScheduledAtTimingId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEncounterType (encounterType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setNextEncounterId (nextEncounterId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setPreviousEncounterId (previousEncounterId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setTransitionEndRule (transitionEndRule : TransitionRule) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setTransitionStartRule (transitionStartRule : TransitionRule) : void Public

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Endpoint

Class in package 'model'

A defined variable intended to reflect an outcome of interest that is statistically analyzed to address a particular research question. NOTE: A precise definition of an endpoint typically specifies the type of assessments made, the timing of those assessments, the assessment tools used, and possibly other details, as applicable, such as how multiple assessments within an individual are to be combined. [After BEST Resource]

Endpoint Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES		
endpointDescription : String Private		
The textual representation of the study endpoint.	[Is static True. Containment is Not Specified.]	
endpointId: String Private Const	[Is static True. Containment is Not Specified.]	
endpointLevel: Code Private A characterization or classification of the study endpoint that determines its category of importance relative to other study endpoints. [Is static True. Containment is Not Specified.]		
 endpointPurposeDescription: String Private The textual representation of the study endpoint purpose. 	[Is static True. Containment is Not Specified.]	

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Endpoint	Target: Private endpointLevel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Objective	Target: Private objectiveEndpoints (Class) Endpoint

ASSOCIATIONS Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) Estimand Target: Private variableOfInterest (Class) Endpoint

OPERATIONS Endpoint (endpointId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEndpointDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEndpointId () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEndpointLevel () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getEndpointPurposeDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEndpointDescription (endpointDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEndpointLevel (endpointLevel : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEndpointPurposeDescription (endpointPurposeDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Estimand

Class in package 'model'

A precise description of the treatment effect reflecting the clinical question posed by a given clinical trial objective. It summarises at a population level what the outcomes would be in the same patients under different treatment conditions being compared. (ICH E9 R1 Addendum)

Estimand Version 1.0 Phase 1.0 Proposed

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ATTRIBUTES	
analysisPopulation : AnalysisPopulation Private	[Is static True. Containment is Not Specified.]
estimandId: String Private Const	[Is static True. Containment is Not Specified.]
intercurrentEvents: List <intercurrentevent> Private</intercurrentevent>	[Is static True. Containment is Not Specified.]
summaryMeasure : String Private	
A synopsis of the clinical endpoint of interest within the analysis target stu	ndy population.
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
variableOfInterest : Endpoint Private	[Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private intercurrentEvents (Class) IntercurrentEvent Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private variableOfInterest (Class) Endpoint
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private analysisPopulation (Class) AnalysisPopulation
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private treatment (Class) InvestigationalIntervention

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyEstimands (Class) Estimand

Cardinality: [0..*]

OPERATIONS

addIntercurrentEvent (intercurrentEvent : IntercurrentEvent) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

String): Public Estimand (estimandId: String):

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getAnalysisPopulation (): AnalysisPopulation Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getEstimandId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getIntercurrentEvents (): List<IntercurrentEvent> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getSummaryMeasure (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getTreatment (): InvestigationalIntervention Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getVariableOfInterest () : Endpoint Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

removeIntercurrentEvent (intercurrentEvent : IntercurrentEvent) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setAnalysisPopulation (analysisPopulation : AnalysisPopulation) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setIntercurrentEvents (intercurrentEvents : List<IntercurrentEvent>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS setSummaryMeasure (summaryMeasure : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setTreatment (treatment : InvestigationalIntervention) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setVariableOfInterest (variableOfInterest : Endpoint) : void Public

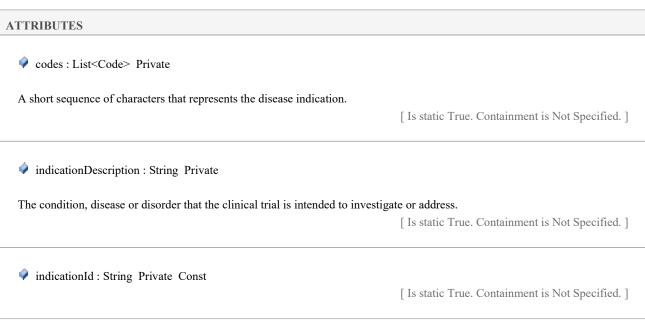
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Indication

Class in package 'model'

The condition, disease or disorder that the clinical trial is intended to investigate or address.

Indication
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ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Indication	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyIndications (Class) Indication

ASSOCIATIONS Cardinality: [0..*]

IntercurrentEvent

Class in package 'model'

An event(s) occurring after treatment initiation that affects either the interpretation or the existence of the measurements associated with the clinical question of interest. (ICH E9 Addendum on Estimands)

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

IntercurrentEvent Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
intercurrentEventDescription: String Private The textual representation of the intercurrent event.	[Is static True. Containment is Not Specified.]
intercurrentEventId : String Private Const	[Is static True. Containment is Not Specified.]

ATTRIBUTES

The literal identifier (i.e., distinctive designation) of the intercurrent event.

[Is static True. Containment is Not Specified.]

intercurrentEventStrategy : String Private

A textual description of the planned strategy to manage and/or mitigate intercurrent events.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Estimand

Target: Private intercurrentEvents (Class)
IntercurrentEvent

Cardinality: [0..*]

OPERATIONS

• getIntercurrentEventDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getIntercurrentEventId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getIntercurrentEventName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getIntercurrentEventStrategy (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

IntercurrentEvent (intercurrentEventId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setIntercurrentEventDescription (intercurrentEventDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setIntercurrentEventName (intercurrentEventName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setIntercurrentEventStrategy (intercurrentEventStrategy : String) : void Public

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

InvestigationalIntervention

Class in package 'model'

The drug, device, therapy, or process under investigation in a clinical study that is believed to have an effect on outcomes of interest in a study. [After https://grants.nih.gov/grants/policy/faq_clinical_trial_definition.htm#5224] (CDISC-Glossary)

InvestigationalIntervention
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES codes: List<Code> Private A short sequence of characters that represents the investigational intervention. [Is static True. Containment is Not Specified.] interventionDescription: String Private The textual representation of the study intervention. [Is static True. Containment is Not Specified.] investigationalInterventionId: String Private Const [Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) InvestigationalIntervention	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyInvestigationalInterventions (Class) InvestigationalIntervention Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private treatment (Class) InvestigationalIntervention

ASSOCIATIONS

OPERATIONS getCodes (): List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getInterventionDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getInvestigationalInterventionId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] InvestigationalIntervention (investigationalInterventionId: String): Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setCodes (codes: List<Code>): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setInterventionDescription (interventionDescription: String): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Objective

Class in package 'model'

The reason for performing a study in terms of the scientific questions to be answered by the analysis of data collected during the study.

Objective Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
objectiveDescription : String Private	
The textual representation of the study objective. (BRIDG)	[Is static True. Containment is Not Specified.]
	[is static frue, contaminent is two specified.]
objectiveEndpoints : List <endpoint> Private</endpoint>	
	[Is static True. Containment is Not Specified.]
objectiveId : String Private Const	

ATTRIBUTES

[Is static True. Containment is Not Specified.]

objectiveLevel: Code Private

A characterization or classification of the study endpoint that determines its category of importance relative to other study objectives.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Objective Target: Private objectiveLevel (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) Objective Target: Private objectiveEndpoints (Class)

Endpoint

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyObjectives (Class) Objective

Cardinality: [0..*]

OPERATIONS

getObjectiveDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getObjectiveEndpoints (): List<Endpoint> Public

 $[\ Is\ static\ False.\ Is\ return\ array\ False.\ Is\ query\ False.\ Is\ synchronized\ False.\]$

getObjectiveId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getObjectiveLevel () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Objective (objectiveId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS setObjectiveDescription (objectiveDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setObjectiveEndpoints (objectiveEndpoints : List<Endpoint>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setObjectiveLevel (objectiveLevel : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Organization

Class in package 'model'

A formalized group of persons or other organizations collected together for a common purpose (such as administrative, legal, political) and the infrastructure to carry out that purpose. (BRIDG)

Organization
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
organizationId: String Private Const	[Is static True. Containment is Not Specified.]
organizationIdentifier: String Private	
A unique symbol that establishes identity of the organization. (BRIDG)	[Is static True. Containment is Not Specified.]
organizationIdentifierScheme : String Private	
The name of the organization that provides the identifier for the entity.	[Is static True. Containment is Not Specified.]
organizationLegalAddress : Address Private	[Is static True. Containment is Not Specified.]
organizationName : String Private	
A non-unique textual identifier for the organization. (BRIDG)	[Is static True. Containment is Not Specified.]

ATTRIBUTES

A characterization or classification of the formalized group of persons or other organizations collected together for a common purpose (such as administrative, legal, political) and the infrastructure to carry out that purpose.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Organization	Target: Private organizationLegalAddress (Class) Address
Association (direction: Source -> Destination)	
Source: Public (Class) Organization	Target: Private organizationType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyIdentifier	Target: Private studyIdentifierScope (Class) Organization

OPERATIONS

getOrganizationId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOrganizationIdentifier (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOrganizationIdentifierScheme (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOrganizationLegalAddress (): Address Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOrganizationName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOrganizationType () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Organization (organizationId : String) : Public

| SetOrganizationIdentifier (organizationIdentifier: String): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] | SetOrganizationIdentifier (organizationIdentifier: String): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] | SetOrganizationIdentifierScheme (organizationIdentifierScheme: String): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] | SetOrganizationLegalAddress (organizationLegalAddress: Address): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] | SetOrganizationName (organizationName: String): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] | SetOrganizationType (organizationType: Code): void Public | Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Procedure

Class in package 'model'

Any activity performed by manual and/or instrumental means for the purpose of diagnosis, assessment, therapy, prevention, or palliative care.

Procedure Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
procedureCode : Code Private	
A symbol or combination of symbols which is assigned to medical procedure.	[Is static True. Containment is Not Specified.]
procedureId: String Private Const	[Is static True. Containment is Not Specified.]
procedureIsConditional: boolean Private	[Is static True. Containment is Not Specified.]
procedureIsConditionalReason : String Private	[Is static True. Containment is Not Specified.]

ATTRIBUTES

procedureType : String Private

A characterization or classification of the study procedure.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Procedure

Target: Private procedureCode (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) Activity

Target: Private definedProcedures (Class)

Procedure

Cardinality: [0..*]

OPERATIONS

getProcedureCode () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getProcedureId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getProcedureIsConditional (): boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getProcedureIsConditionalReason (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getProcedureType () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Procedure (procedureId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setProcedureCode (procedureCode : Code) : void Public

OPERATIONS setProcedureIsConditional (procedureIsConditional : boolean) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProcedureIsConditionalReason (procedureIsConditionalReason : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProcedureType (procedureType : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ResponseCode

Class in package 'model'

ResponseCode Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
responseCodeId: String Private Const	[Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) ResponseCode	Target: Private code (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) BiomedicalConceptProperty	Target: Private bcPropertyResponseCodes (Class) ResponseCode Cardinality: [0*]

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getResponseCodeId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

isResponseCodeEnabled (): boolean Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ResponseCode (responseCodeId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setCode (code : Code) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setResponseCodeEnabled (responseCodeEnabled : boolean) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduledActivityInstance

Class in package 'model'

The ScheduledActivityInstance class is used to extend the ScheduledInstance class with activity-specific information and behaviors needed for the ScheduleTimeline.

ScheduledActivityInstance Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from ScheduledActivityInstance to ScheduledInstance

[Direction is 'Source -> Destination'.]

ATTRIBUTES

activityIds : List<String> Private

This is the list of ID references to Activity definitions. There can be 1 or many. This allows for a simpler mechanism for associating non-sequential tasks that have similar constraints to other sequential tasks to be added to the timeline.

[Is static True. Containment is Not Specified.]

OPERATIONS

OPERATIONS

getActivityIds () : List<String> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🎙 ScheduledActivityInstance (scheduledInstanceId : String , scheduledInstanceType : ScheduledInstanceType) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setActivityIds (activityIds : List<String>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduledDecisionInstance

Class in package 'model'

The ScheduledDecisionInstance class is used to extend the ScheduledInstance class with decision-specific information and behaviors needed for the ScheduleTimeline. Different from other ScheduledInstance extensions, this class will be used for flow-control logic such as branching and looping (cycling).

> ScheduledDecisionInstance Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from ScheduledDecisionInstance to ScheduledInstance

[Direction is 'Source -> Destination'.]

ATTRIBUTES



conditionAssignments : Map<String, String> Package

This field maps conditions to their associated scheduled instances For example, if you had a generic condition temperature over 99, there may be 2 conditions in the map: {"greater than 99": "123", "less than or equal to 99": "678"} Always state in terms with conditions that are always true The mapping is valid if the condition is true

[Is static True. Containment is Not Specified.]

OPERATIONS



getConditionAssignments (): Map<String, String> Public

OR conditionAndScheduledInstanceIdAssignments

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🎈 ScheduledDecisionInstance (scheduledInstanceId : String , scheduledInstanceType : ScheduledInstanceType) : Public

OPERATIONS

setConditionAssignments (conditionAssignments : Map<String, String>): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduledInstance

Class in package 'model'

The ScheduledInstance abstract class is used by ScheduleTimelines to build a sequence of activities and decisions that will define a schedule.

> ScheduledInstance Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from ScheduledActivityInstance to ScheduledInstance

[Direction is 'Source -> Destination'.]

→ Generalization from ScheduledDecisionInstance to ScheduledInstance

[Direction is 'Source -> Destination'.]

ATTRIBUTES

scheduledInstanceEncounterId : String Private

I get this now. You do want to know if the instance is part of an encounter. This field points to the encounter that the activity is taking part of.

[Is static True. Containment is Not Specified.]

scheduledInstanceId : String Private Const

[Is static True. Containment is Not Specified.]

scheduledInstanceTimelineId : String Private

This field will have a value if the scheduled instance points to a different timeline

[Is static True. Containment is Not Specified.]

scheduledInstanceTimings : List<Timing> Private

Ok, I'll add this, but it isn't very useful. You're better off starting at a ScheduleTimeline. In this case, you could have an instance pointing to a large number of Timing objects because it has a large number of scheduling constraints. I like the idea of activites not having any Timing references; just decisions because they are selective. If we must, we may want to consider changing this to be directionaly at least...incoming and outgoing?

[Is static True. Containment is Not Specified.]

ATTRIBUTES



scheduledInstanceType : ScheduledInstanceType Private Const

Possible Values: ACTIVITY, DECISION

[Is static True. Containment is Not Specified.]



scheduleSequenceNumber : Integer Private

There has been an ask for sequencing of ScheduledInstance in a ScheduleTimeline. In order to do this, the entire ScheduleTimeline must be constructed with all of the necessary ScheduledInstance, Timing and Exit objects. Once this is complete, a some sequencing process can then annotate the ScheduleTimeline's collection of ScheduleInstance objects and update this field. This is a hard field to name, btw. Is scheduleTimelineScheduledInstanceSequenceNumber manageable?

[Is static True. Containment is Not Specified.]



scheduleTimelineExitId : String Private

In the last version of the model, there was a pointer to an Exit object in the previous version of this class. I'm struggling with this, as the exit is the property of a ScheduleTimeline already. I can understand why we need an entry pointer but not an exit. Is this just a wgy of identifying a final ScheduledInstance in some ScheduleTimeline? Isn't that still the perspective of the timeline? Just trying to name it really shows that I'm trying to point to something that's really something my parent cares about.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ScheduledInstance

Target: Private scheduledInstanceType (Enumeration) ScheduledInstanceType

Association (direction: Source -> Destination)

Source: Public (Class) ScheduledInstance

Target: Private scheduledInstanceTimings (Class)

Timing

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineInstances (Class)

ScheduledInstance

Cardinality: [0..*]

OPERATIONS



getScheduledInstanceEncounterId (): String Public

OPERATIONS

getScheduledInstanceid (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduledInstanceTimelineId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduledInstanceTimings (): List<Timing> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduledInstanceType () : ScheduledInstanceType Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleSequenceNumber (): Integer Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineExitId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduledInstance (scheduledInstanceId : String, scheduledInstanceType : ScheduledInstanceType) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduledInstanceEncounterId (scheduledInstanceEncounterId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduledInstanceTimelineId (scheduledInstanceTimelineId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduledInstanceTimings (scheduledInstanceTimings : List<Timing>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduleSequenceNumber (scheduleSequenceNumber : Integer) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduleTimelineExitId (scheduleTimelineExitId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduleTimeline

Class in package 'model'

regarding TimeLine Entry as a new class name. I feel that TimelineEtry is confusing. If there is a timeline entry, then there must be a timeline. Yet, in the diagram, the two concepts are conflated into the TimelineEntry. I suggest keeping ScheduleTimeline and adding entry attribution as a simple condition field.

ScheduleTimeline Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

entryCondition : String Private

Here we again place information at two levels: The ScheduledDecisionInstance and The ScheduleTimeline. If the timeline owns all of the instances then it already has a way to get to a condition on a decision. We should ponder this further.

[Is static True. Containment is Not Specified.]

A textual description of the timeline. There will likely be numerous timelines in a study and this field provides the context for the particular timeline.

[Is static True. Containment is Not Specified.]

scheduleTimelineEntryId : String Private

If the timeline was due to a condition that was met for traversal from a previous timpoint, then we should have a handle to that timepoint.

[Is static True. Containment is Not Specified.]

scheduleTimelineExits : List<ScheduleTimelineExit> Private

This field represents the Exit object associated with the ScheduleTimeline.

[Is static True. Containment is Not Specified.]

scheduleTimelineId : String Private Const

[Is static True. Containment is Not Specified.]

scheduleTimelineInstances : List<ScheduledInstance> Private

At this point, this is an unordered list of instances. We might consider more encapsulation by creating a timepointSequence wrapper.

[Is static True. Containment is Not Specified.]

scheduleTimelineName : String Private

This is field provides a name for the timeline

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline Target: Private scheduleTimelineExits (Class)

ScheduleTimelineExit
Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline Target: Private scheduleTimelineInstances (Class)

Cardinality: [0..*]

ScheduledInstance

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyScheduleTimelines (Class)

ScheduleTimeline

Cardinality: [0..*]

OPERATIONS

getEntryCondition (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineEntryId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineExits (): List<ScheduleTimelineExit> Public

 $[\ Is\ static\ False.\ Is\ return\ array\ False.\ Is\ query\ False.\ Is\ synchronized\ False.\]$

getScheduleTimelineId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineInstances (): List<ScheduledInstance> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getScheduleTimelineName () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduleTimeline (scheduleTimelineId : String) : Public

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setEntryCondition (entryCondition : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setScheduleTimelineDescription (scheduleTimelineDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setScheduleTimelineEntryId (scheduleTimelineEntryId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] 🗣 setScheduleTimelineExits (scheduleTimelineScheduleTimelineExits : List<ScheduleTimelineExit>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduleTimelineInstances (scheduleTimelineInstances : List<ScheduledInstance>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setScheduleTimelineName (scheduleTimelineName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduleTimelineExit

Class in package 'model'

Is just Exit intuitive enough in the model as a concept. Does it exist outside of a ScheduleTimeline? If not, then it's maybe a ScheduleTimelineExit or a TimelineExit?

> ScheduleTimelineExit Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

scheduleTimelineExitId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ScheduleTimeline

Target: Private scheduleTimelineExits (Class)

ScheduleTimelineExit Cardinality: [0..*]

OPERATIONS

getScheduleTimelineExitId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduleTimelineExit (exitId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Study

Class in package 'model'

A clinical study involves research using human volunteers (also called participants) that is intended to add to medical knowledge. There are two main types of clinical studies: clinical trials (also called interventional studies) and observational studies. [[http://ClinicalTrials.gov]](CDISC Glossary)

Study
Version 1.0 Phase 1.0 Proposed
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businessTherapeuticAreas : List <code> Private</code>	
A therapeutic area classification based on the structure and opera	ations of the business unit.
	[Is static True. Containment is Not Specified.
studyAcronym: String Private	
	[Is static True. Containment is Not Specified.
studyDesigns : List <studydesign> Private</studydesign>	
, c	[Is static True. Containment is Not Specified.
studyId: UUID Private Const	
•	[Is static True. Containment is Not Specified.
studyIdentifiers : List <studyidentifier> Private</studyidentifier>	
study (definition) . Else study (definition) . This was	[Is static True. Containment is Not Specified.
studyPhase : AliasCode Private	
A step in the clinical research and development of a therapy from	* **
Clinical trials are generally categorized into four (sometimes five	e) phases. A therapeutic intervention may be evaluated in two may overlap two different phases. [21 CFR section 312.21;

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[In static Two Containment is Not Specified]
	[Is static True. Containment is Not Specified.]
A LITTLE OLI DI	
The sponsor-defined name of the clinical study.	
	[Is static True. Containment is Not Specified.]
studyType : Code Private	
The nature of the investigation for which study information is being collec	· ·
	[Is static True. Containment is Not Specified.]
A plan at a particular point in time for a study.	
	[Is static True. Containment is Not Specified.]

SSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyPhase (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyIdentifiers (Class) StudyIdentifier Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private businessTherapeuticAreas (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyType (Class) Code

ASSOCIATIONS Association (direction: Source -> Destination) Source: Public (Class) Study Target: Private studyProtocolVersions (Class) StudyProtocolVersion Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) Study Target: Private studyDesigns (Class) StudyDesign

Cardinality: [0..*]

OPERATIONS addStudyDesign (studyDesign : StudyDesign) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] addStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] addStudyProtocolVersion (studyProtocolVersion : StudyProtocolVersion) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getBusinessTherapeuticAreas (): List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyAcronym (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyDesigns (): List<StudyDesign> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyId (): UUID Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyIdentifiers (): List<StudyIdentifier> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyPhase () : AliasCode Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Model Report 9 March, 2023 **OPERATIONS** getStudyProtocolVersions (): List<StudyProtocolVersion> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] 🎈 getStudyRationale () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyTitle (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyVersion () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyDesign (studyDesign : StudyDesign) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyProtocolVersion (studyProtocolVersion : StudyProtocolVersion) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBusinessTherapeuticAreas (businessTherapeuticAreas : List<Code>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyAcronym (studyAcronym : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyDesigns (studyDesigns : List<StudyDesign>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyIdentifiers (studyIdentifiers : List<StudyIdentifier>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyPhase (studyPhase : AliasCode) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🎈 setStudyProtocolVersions (studyProtocolVersions : List<StudyProtocolVersion>) : void Public

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyRationale (studyRationale : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyTitle (studyTitle : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyType (studyType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyVersion (studyVersion : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyArm

Class in package 'model'

Study (studyId: UUID): Public

A planned pathway assigned to the subject as they progress through the study, usually referred to by a name that reflects one or more treatments, exposures, and/or controls included in the path.

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

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ATTRIBUTES studyArmDataOriginDescription: String Private The textual representation of the study arm data origin. [Is static True. Containment is Not Specified.] studyArmDataOriginType : Code Private A characterization or classification of the study arm with respect to where the study arm data originates. [Is static True. Containment is Not Specified.] studyArmDescription : String Private The textual representation of the study arm. [Is static True. Containment is Not Specified.]

ATTRIBUTES

studyArmId: String Private Const

[Is static True. Containment is Not Specified.]

studyArmName : String Private

The literal identifier (i.e., distinctive designation) of the study arm.

[Is static True. Containment is Not Specified.]

studyArmType : Code Private

The literal identifier (i.e., distinctive designation) of the study arm type.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyArm

Target: Private studyArmType (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) StudyArm

Target: Private studyArmDataOriginType (Class)

Code

Association (direction: Source -> Destination)

Source: Public (Class) StudyCell

Target: Private studyArm (Class) StudyArm

OPERATIONS

getStudyArmDataOriginDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyArmDataOriginType () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getStudyArmDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyArmId () : String Public

OPERATIONS getStudyArmName () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyArmType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArmDataOriginDescription (studyArmDataOriginDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArmDataOriginType (studyArmDataOriginType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArmDescription (studyArmDescription : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArmName (studyArmName : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArmType (studyArmType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] StudyArm (studyArmId : String) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyCell

Class in package 'model'

A partitioning of a study arm into individual pieces, which are associated with an epoch and any number of sequential elements within that epoch.

StudyCell Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
studyArm : StudyArm Private	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
studyEpoch : StudyEpoch Private	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyElements (Class) StudyElement Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyArm (Class) StudyArm
Association (direction: Source -> Destination)	
Source: Public (Class) StudyCell	Target: Private studyEpoch (Class) StudyEpoch
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyCells (Class) StudyCell Cardinality: [0*]

petStudyEpoch (): StudyEpoch Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyElement (studyElement : StudyElement): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyArm (studyArm: StudyArm): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyElements (studyElements: List<StudyElement>): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyEpoch (studyEpoch: StudyEpoch): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] StudyCell (studyCellId: String): Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyDesign

Class in package 'model'

A plan detailing how a study will be performed in order to represent the phenomenon under examination, to answer the research questions that have been asked, and informing the statistical approach.

StudyDesign Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
activities: List <activity> Private</activity>	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
bcSurrogates : List <biomedicalconceptsurrogate> Private</biomedicalconceptsurrogate>	[Is static True. Containment is Not Specified.]
biomedicalConcepts : List <biomedicalconcept> Private</biomedicalconcept>	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
	- 4
encounters : List <encounter> Private</encounter>	
Cheouners : List Cheouner Thyaic	[Is static True. Containment is Not Specified.]
interventionModel: Code Private	
interventioniviouer. Code Trivate	
The general design of the strategy for assigning interventions to participants	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Contaminent is Not Specified.]
A	
studyDesignBlindingScheme : AliasCode Private	[Is static True. Containment is Not Specified.]
	[is smalle True. Contaminent is 1 for Specified.]
studyDesignDescription: String Private	
The textual representation of the study design.	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
studyDesignName : String Private	
The literal identifier (i.e., distinctive designation) of the study design.	
	[Is static True. Containment is Not Specified.]
studyDesignRationale: String Private	
	[Is static True. Containment is Not Specified.]
studyEstimands : List <estimand> Private</estimand>	
	[Is static True. Containment is Not Specified.]
studyIndications: List <indication> Private</indication>	II T
	[Is static True. Containment is Not Specified.]
studyInvestigationalInterventions : List <investigationalintervention> Pri</investigationalintervention>	ivate [Is static True. Containment is Not Specified.]
	[15 static True. Contaminent is Not Specified.]

ATTRIBUTES

studyObjectives : List<Objective> Private

[Is static True. Containment is Not Specified.]

studyPopulations : List<StudyDesignPopulation> Private

[Is static True. Containment is Not Specified.]

studyScheduleTimelines : List<ScheduleTimeline> Private

This field provides a collection of all of the ScheduleTimeline objects associated with the StudyDesign.

[Is static True. Containment is Not Specified.]

therapeuticAreas : List<Code> Private

A categorization of a disease, disorder, or other condition based on common characteristics and often associated with a medical specialty focusing on research and development of specific therapeutic interventions for the purpose of treatment and prevention.

[Is static True. Containment is Not Specified.]

trialIntentType : List<Code> Private

The planned purpose of the therapy, device, or agent under study in the clinical trial.

[Is static True. Containment is Not Specified.]

The nature of the interventional study for which information is being collected.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private biomedicalConcepts (Class)

BiomedicalConcept
Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyPopulations (Class)

StudyDesignPopulation
Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private trialType (Class) Code

SSOCIATIONS	
	Cardinality: [0*]
Aggainstian (dispations Courses > Destination)	
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyCells (Class) StudyCell Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyDesignBlindingScheme (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyEstimands (Class) Estimand Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private interventionModel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyScheduleTimelines (Class) ScheduleTimeline Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private studyObjectives (Class) Objective Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private bcCategories (Class) BiomedicalConceptCategory Cardinality: [0*]
Association (direction: Source -> Destination)	
	Target: Private studyIndications (Class) Indication

ASSOCIATIONS Source: Public (Class) StudyDesign Target: Private trialIntentType (Class) Code Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private bcSurrogates (Class) BiomedicalConceptSurrogate Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private encounters (Class) Encounter Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private therapeuticAreas (Class) Code Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private activities (Class) Activity Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) StudyDesign Target: Private studyInvestigationalInterventions (Class) InvestigationalIntervention Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) Study Target: Private studyDesigns (Class) StudyDesign Cardinality: [0..*]

OPERATIONS

addStudyIndication (indication : Indication) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🌳 addStudyInvestigationalIntervention (investigationalIntervention : InvestigationalIntervention) : void Public

OPERATIONS

addStudyObjective (objective : Objective) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getActivities (): List<Activity> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• getBcCategories (): List<BiomedicalConceptCategory> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBcSurrogates (): List<BiomedicalConceptSurrogate> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBiomedicalConcepts (): List<BiomedicalConcept> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getEncounters () : List<Encounter> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getInterventionModel () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyCells (): List<StudyCell> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignBlindingScheme (): AliasCode Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignRationale (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyEstimands (): List<Estimand> Public

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyIndications (): List<Indication> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyInvestigationalInterventions (): List<InvestigationalIntervention> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyObjectives (): List<Objective> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyPopulations (): List<StudyDesignPopulation> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyScheduleTimelines (): List<ScheduleTimeline> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTherapeuticAreas () : List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTrialIntentType () : List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTrialType () : List<Code> Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyIndication (indication : Indication) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] 🌳 removeStudyInvestigationalIntervention (investigationalIntervention : InvestigationalIntervention) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] removeStudyObjective (objective : Objective) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setActivities (activities : List<Activity>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBcCategories (bcCategories : List<BiomedicalConceptCategory>) : void Public

OPERATIONS

setBcSurrogates (bcSurrogates : List<BiomedicalConceptSurrogate>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setBiomedicalConcepts (biomedicalConcepts : List<BiomedicalConcept>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setEncounters (encounters : List<Encounter>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setInterventionModel (interventionModel : Code) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyCells (studyCells : List<StudyCell>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyDesignBlindingScheme (studyDesignBlindingScheme : AliasCode) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyDesignDescription (studyDesignDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyDesignName (studyDesignName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyDesignRationale (studyDesignRationale : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyEstimands (studyEstimands : List<Estimand>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyIndications (studyIndications : List<Indication>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🍨 setStudyInvestigationalInterventions (studyInvestigationalInterventions : List<InvestigationalIntervention>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyObjectives (studyObjectives : List<Objective>) : void Public

StudyDesignPopulation

Class in package 'model'

The population within the general population to which the study results can be generalized.

StudyDesignPopulation Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
plannedMaximumAgeOfParticipants: String Private	[Is static True. Containment is Not Specified.]
plannedMinimumAgeOfParticipants : String Private	[Is static True. Containment is Not Specified.]
plannedNumberOfParticipants : int Private	[Is static True. Containment is Not Specified.]
plannedSexOfParticipants : List <code> Private</code>	[Is static True. Containment is Not Specified.]

ATTRIBUTES

populationDescription : String Private

The textual representation of the study population.

[Is static True. Containment is Not Specified.]

studyDesignPopulationId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesignPopulation

Target: Private plannedSexOfParticipants (Class)

Code

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign

Target: Private studyPopulations (Class)

StudyDesignPopulation

Cardinality: [0..*]

OPERATIONS

getPlannedMaximumAgeOfParticipants (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getPlannedMinimumAgeOfParticipants (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getPlannedNumberOfParticipants (): int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getPlannedSexOfParticipants () : List<Code> Public

 $[\ Is\ static\ False.\ Is\ return\ array\ False.\ Is\ query\ False.\ Is\ synchronized\ False.\]$

getPopulationDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyDesignPopulationId (): String Public

StudyElement

Class in package 'model'

A basic building block for time within a clinical study comprising the following characteristics: a description of what happens to the subject during the element; a definition of the start of the element; a rule for ending the element.

StudyElement
Version 1.0 Phase 1.0 Proposed
Chris Unkes created on 3/9/2023 Last modified 3/9/2023

	Chris Upkes created on 3/9/2023. Last modified 3/9/202
ATTRIBUTES	
studyElementDescription : String Private	
The textual representation of the study design element.	[Is static True. Containment is Not Specified.]
studyElementId: String Private Const	
element only attributes - these purely describe an element	
	[Is static True. Containment is Not Specified.]
study Elementivanie . String Private	

ATTRIBUTES

The literal identifier (i.e., distinctive designation) of the study design element.

[Is static True. Containment is Not Specified.]

transitionEndRule : TransitionRule Private

[Is static True. Containment is Not Specified.]

all elements point to transition rules

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyElement

Target: Private transitionStartRule (Class)

TransitionRule

Association (direction: Source -> Destination)

Source: Public (Class) StudyElement

Target: Private transitionEndRule (Class)

TransitionRule

Association (direction: Source -> Destination)

Source: Public (Class) StudyCell

Target: Private studyElements (Class)

StudyElement

Cardinality: [0..*]

OPERATIONS

getStudyElementDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyElementId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyElementName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getTransitionEndRule (): TransitionRule Public

OPERATIONS

getTransitionStartRule () : TransitionRule Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyElementDescription (studyElementDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyElementName (studyElementName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setTransitionEndRule (transitionEndRule : TransitionRule) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setTransitionStartRule (transitionStartRule : TransitionRule) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyElement (studyElementId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyEpoch

Class in package 'model'

A named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

StudyEpoch Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

encounters : List<Encounter> Private

[Is static True. Containment is Not Specified.]

nextStudyEpochId : String Private

A system identifier assigned to the epoch that occurs immediately after the current epoch.

[Is static True. Containment is Not Specified.]

previousStudyEpochId : String Private

A system identifier assigned to the epoch that occurs immediately prior to the current epoch.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

studyEpochDescription : String Private

The textual representation of the study epoch.

[Is static True. Containment is Not Specified.]

[Is static True. Containment is Not Specified.]

studyEpochName : String Private

The literal identifier (i.e., distinctive designation) of the study epoch, i.e., the named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

[Is static True. Containment is Not Specified.]

A characterization or classification of the study epoch, i.e., the named time period defined in the protocol, wherein a study activity is specified and unchanging throughout the interval, to support a study-specific purpose.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyEpoch Target: Private studyEpochType (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) StudyEpoch Target: Private encounters (Class) Encounter

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyCell Target: Private studyEpoch (Class) StudyEpoch

OPERATIONS

getEncounters () : List<Encounter> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getNextStudyEpochId () : String Public

OPERATIONS

getPreviousStudyEpochId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyEpochDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyEpochId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyEpochName (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getStudyEpochType () : Code Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setEncounters (encounters : List<Encounter>): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setNextStudyEpochId (nextStudyEpochId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setPreviousStudyEpochId (previousStudyEpochId : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyEpochDescription (studyEpochDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyEpochName (studyEpochName : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setStudyEpochType (studyEpochType : Code) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyEpoch (studyEpochId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Studyldentifier

Class in package 'model'

A sequence of characters used to identify, name, or characterize the study.

StudyIdentifier
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES	
 studyIdentifier: String Private A sequence of characters used to identify, name, or characterize the study. 	
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
studyIdentifierScope : Organization Private	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) StudyIdentifier	Target: Private studyIdentifierScope (Class) Organization
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyIdentifiers (Class) StudyIdentifier Cardinality: [0*]

PERATIONS	
getStudyIdentifier	(): String Public
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.
getStudyIdentifier	Id (): String Public
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.
getStudyIdentifier	Scope (): Organization Public
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] SetStudyIdentifierScope (studyIdentifierScope : Organization) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyProtocolVersion

StudyIdentifier (studyIdentifierId : String) : Public

Class in package 'model'

A plan at a particular point in time for a formal investigation to assess the utility, impact, pharmacological, physiological, and/or psychological effects of a particular treatment, procedure, drug, device, biologic, food product, cosmetic, care plan, or subject characteristic. (BRIDG)

StudyProtocolVersion Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

	Chris Opkes created on 3/9/2023. Last modified 3/9/2023
ATTRIBUTES	
briefTitle: String Private	
The short descriptive name for the protocol.	
	[Is static True. Containment is Not Specified.]
• officialTitle : String Private	
The formal descriptive name for the protocol.	
The formal descriptive name for the protocol.	[Is static True. Containment is Not Specified.]
protocolAmendment : String Private	
A written description of a change(s) to, or formal clarification of	of, a protocol. (ICH E6)
	[Is static True. Containment is Not Specified.]
protocolEffectiveDate : Date Private	
The date and time specifying when the protocol amendment tak	tes effect or becomes operative.
	[Is static True. Containment is Not Specified.]
protocolStatus : Code Private	
A condition of the protocol at a point in time with respect to its	state of readiness for implementation.

ATTRIBUTES

[Is static True. Containment is Not Specified.]

protocolVersion : String Private

A plan at a particular point in time for a formal investigation to assess the utility, impact, pharmacological, physiological, and/or psychological effects of a particular treatment, procedure, drug, device, biologic, food product, cosmetic, care plan, or subject characteristic. (BRIDG)

[Is static True. Containment is Not Specified.]

publicTitle : String Private

The descriptive name of the protocol that is intended for the lay public, written in easily understood language.

[Is static True. Containment is Not Specified.]

scientificTitle : String Private

A more extensive descriptive name of the protocol that is intended for medical professionals, written using medical and scientific language.

[Is static True. Containment is Not Specified.]

studyProtocolVersionId : String Private Const

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) StudyProtocolVersion Target: Private protocolStatus (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) Study Target: Private studyProtocolVersions (Class)
StudyProtocolVersion

Cardinality: [0..*]

OPERATIONS

getBriefTitle () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getOfficialTitle (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getProtocolAmendment (): String Public

Model Report 9 March, 2023 **OPERATIONS** [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getProtocolEffectiveDate (): Date Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getProtocolStatus () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getProtocolVersion (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getPublicTitle () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getScientificTitle (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyProtocolVersionId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBriefTitle (briefTitle : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setOfficialTitle (officialTitle : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProtocolAmendment (protocolAmendment : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProtocolEffectiveDate (protocolEffectiveDate : Date) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProtocolStatus (protocolStatus : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setProtocolVersion (protocolVersion : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setPublicTitle (publicTitle : String) : void Public

OPERATIONS

setScientificTitle (scientificTitle : String) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyProtocolVersion (studyProtocolVersionId : String) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Timing

Class in package 'model'

The Timing class is used to relate ScheduledInstance objects. In graph, this information would likely sit on relationship that exists between ScheduledInstances. ScheduledInstances have no information regarding their relationships with other ScheduledInstances in a ScheduleTimeline. This is where that information is captured. In a typical GANTT chart, these are the arrows you see between the task boxes that tell us how the work should be sequenced.

Timing Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

This field defines the ScheduledInstance object that the timing defines as the anchor. When we define a timing relationship between two ScheduledInstances, one instance is the from and the other is the to in what is essentially a "timing between" constraint.

[Is static True. Containment is Not Specified.]

▼ relativeToScheduledInstanceId : String Private

This field defines the ScheduledInstance object that has the timing constraint associated with the anchor instance. This is the instance that has the "timingRelativeToFrom" constraint associated with the fromScheduledInstance object.

[Is static True. Containment is Not Specified.]

vimingId: String Private Const

[Is static True. Containment is Not Specified.]

timingRelativeToFrom : Code Private

Code values that describe the timing relative to the associated timepoint, I believe. Somewhat unsure here. Values are typical of gant task relationship dependencies. They are: StartToStart, StartToEnd, EndToEnd and EndToStart.

[Is static True. Containment is Not Specified.]

timingType : Code Private

ATTRIBUTES

Code values that describe the type of timing. Valid values include Before, After and Absolute.

[Is static True. Containment is Not Specified.]

vimingValue: String Private

According to the presentation, the value will be provide further context based on the type of the timing. For example, if the timing type is absolute then maybe something like "first dose, day 0" and if the type is Before it could be "1 day before x".

[Is static True. Containment is Not Specified.]

timingWindow: String Private

Defines window of time associated with the timing. We could either define slack or lead time as two variables to ensure consistency however, this can be inferred along with the timingRelativeToFrom value.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Timing

Target: Private timingType (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) Timing

Target: Private timingRelativeToFrom (Class) Code

Association (direction: Source -> Destination)

Source: Public (Class) ScheduledInstance

Target: Private scheduledInstanceTimings (Class)

Timing

Cardinality: [0..*]

OPERATIONS

getRelativeFromScheduledInstanceId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getRelativeToScheduledInstanceId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getTimingId () : String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getTimingRelativeToFrom () : Code Public

OPERATIONS getTimingType () : Code Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTimingValue (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getTimingWindow (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] 🍨 setRelativeFromScheduledInstanceId (relativeFromScheduledInstanceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setRelativeToScheduledInstanceId (relativeToScheduledInstanceId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setTimingRelativeToFrom (timingRelativeToFrom : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setTimingType (timingType : Code) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setTimingValue (timingValue : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setTimingWindow (timingWindow : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] Timing (timingId : String): Public

TransitionRule

Class in package 'model'

A guide that governs the allocation of subjects to operational options at a discrete decision point or branch (e.g., assignment to a particular arm, discontinuation) within a clinical trial plan.

TransitionRule Version 1.0 Phase 1.0 Proposed Chris Upkes created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

transitionRuleDescription : String Private

The textual representation of the transition rule.

[Is static True. Containment is Not Specified.]

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionEndRule (Class)

TransitionRule

Association (direction: Source -> Destination)

Source: Public (Class) StudyElement

Target: Private transitionStartRule (Class)

TransitionRule

Association (direction: Source -> Destination)

Source: Public (Class) Encounter

Target: Private transitionStartRule (Class)

TransitionRule

Association (direction: Source -> Destination)

Source: Public (Class) StudyElement

Target: Private transitionEndRule (Class)

TransitionRule

OPERATIONS

getTransitionRuleDescription (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getTransitionRuleId (): String Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setTransitionRuleDescription (transitionRuleDescription : String) : void Public

[Is static False. Is abstract False. Is return array False. Is guery False. Is synchronized False.]

TransitionRule (ruleId : String) : Public

OPERATIONS

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ScheduledInstanceType

Enumeration in package 'model'

ScheduledInstanceType Version 1.0 Phase 1.0 Proposed cupke created on 3/9/2023. Last modified 3/9/2023

ATTRIBUTES

ACTIVITY: Public

[Stereotype is «enum». Is static True. Containment is Not Specified.]

DECISION: Public

[Stereotype is «enum». Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ScheduledInstance

Target: Private scheduledInstanceType (Enumeration) ScheduledInstanceType