model

Package in package 'DDF'

model Version 1.0 Phase 1.0 Proposed cupke created on 1/17/2023. Last modified 1/17/2023

model diagram

Class diagram in package 'model'

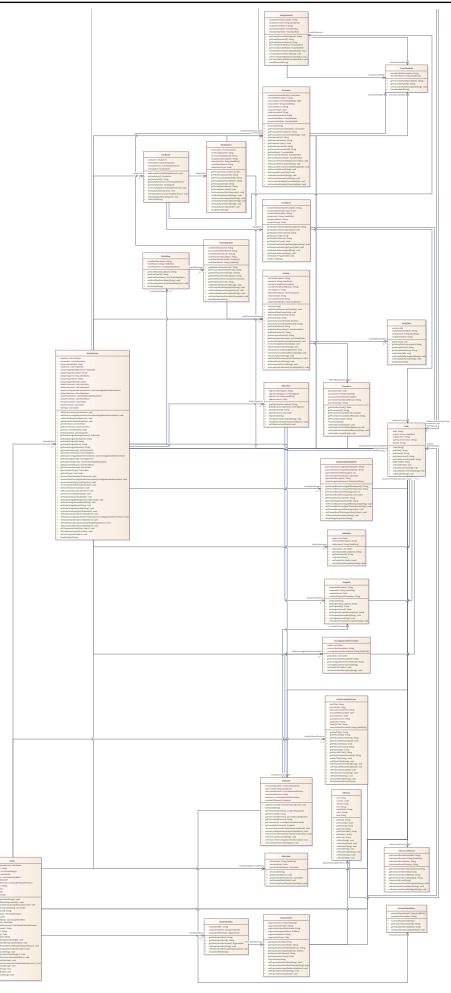


Figure 1: model

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 1/17/2023. Last modified 1/17/2023

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

ATTRIBUTES [Is static True. Containment is Not Specified.] studyDataCollection: List<StudyData> Private [Is static True. Containment is Not Specified.]

ASSOCIATIONS Association (direction: Source -> Destination) Source: Public (Class) Activity Target: Private studyDataCollection (Class) StudyData Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) Activity Target: Private definedProcedures (Class) Procedure Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) WorkflowItem Target: Private workflowItemActivity (Class) Activity 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.] addStudyData (studyData : StudyData): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getActivityDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

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.]

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.]

getStudyDataCollection (): List<StudyData> 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.]

removeStudyData (studyData : StudyData) : void Public

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

setActivityDescription (description : String) : void Public

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

setActivityIsConditional (activityIsConditional: boolean): void Public

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

setActivityIsConditionalReason (activityIsConditionalReason : String) : void Public

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

operations setActivityName (activityName: 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.] setStudyDataCollection (studyDataCollection: List<StudyData>): 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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
country: Code Private	
Country . Code Frivate	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
↓ line : String Private	
y same v a same a same	[Is static True. Containment is Not Specified.]
postalCode : String Private	
postareode . String Trivate	[Is static True. Containment is Not Specified.]
♦ state : String Private	
T state . Stang Titrate	[Is static True. Containment is Not Specified.]

ATTRIBUTES

vext: String Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

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

OPERATIONS

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

[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.]

OPERATIONS 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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
aliasCodeId: String Private Const	[Is static True. Containment is Not Specified.]
standardCode : Code Private	[Is static True. Containment is Not Specified.]
standardCodeAliases : List <code> Private</code>	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	

ASSOCIATIONS	
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) StudyDesign	Target: Private studyDesignBlindingScheme (Class) AliasCode
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyPhase (Class) AliasCode

OPERATIONS

AliasCode (aliasCodeId : String) : Public

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

getStandardCode () : Code Public

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

• getStandardCodeAliases (): List<Code> Public

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

setStandardCode (standardCode : Code) : void Public

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

setStandardCodeAliases (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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

analysisPopulationId: String Private Const

[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.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Estimand

Target: Private analysisPopulation (Class) AnalysisPopulation

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.]

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

Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

ATTRIBUTES code: String Private The literal value of a code. [Is static True. Containment is Not Specified.] codeld: String Private Const [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) Endpoint	Target: Private endpointLevel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyArm	Target: Private studyArmType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Procedure	Target: Private procedureCode (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Objective	Target: Private objectiveLevel (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Address	Target: Private country (Class) Code

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private trialIntentType (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private trialType (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterEnvironmentalSetting (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private businessTherapeuticAreas (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) AliasCode	Target: Private standardCode (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private interventionModel (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) AliasCode	Target: Private standardCodeAliases (Class) Code Cardinality: [0*]

Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterContactModes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Indication	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyEpoch	Target: Private studyEpochType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyProtocolVersion	Target: Private protocolStatus (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) InvestigationalIntervention	Target: Private codes (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesignPopulation	Target: Private plannedSexOfParticipants (Class) Code Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Organization	Target: Private organizationType (Class) Code

OPERATIONS Ode (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
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

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.] 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.] nextEncounterId: String Private A system identifier assigned to a clinical encounter that occurs immediately after the current clinical encounter. [Is static True. Containment is Not Specified.] previousEncounterId : 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.] transitionEndRule : TransitionRule Private [Is static True. Containment is Not Specified.]

transitionStartRule : TransitionRule Private

ATTRIBUTES

[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterEnvironmentalSetting (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private transitionStartRule (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 transitionEndRule (Class) TransitionRule
Association (direction: Source -> Destination)	
Source: Public (Class) Encounter	Target: Private encounterType (Class) Code
Association (direction: Source -> Destination)	
Source: Public (Class) StudyEpoch	Target: Private encounters (Class) Encounter Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) StudyDesign	Target: Private encounters (Class) Encounter Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) WorkflowItem	Target: Private workflowItemEncounter (Class) Encounter
1	

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.]

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.]

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.]

OPERATIONS

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.]

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

[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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

endpointDescription : String Private

The textual representation of the study endpoint.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

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) Estimand

Target: Private variableOfInterest (Class) Endpoint

Association (direction: Source -> Destination)

Source: Public (Class) Objective

Target: Private objectiveEndpoints (Class)

Endpoint

Cardinality: [0..*]

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

OPERATIONS [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] original getEndpointPurposeDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] original setEndpointDescription (endpointDescription: String): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] original setEndpointDescription (endpointDescription: String): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] original setEndpointDescription (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
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

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

ATTRIBUTES [Is static True. Containment is Not Specified.] variableOfInterest: Endpoint Private [Is static True. Containment is Not Specified.]

ASSOCIATIONS	
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 intercurrentEvents (Class) IntercurrentEvent Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Estimand	Target: Private treatment (Class) InvestigationalIntervention
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

[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.]

Model Report 17 January, 2023 **OPERATIONS** 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.] 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

Version 1.0 Phase 1.0 Proposed Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

codes : List<Code> Private

A short sequence of characters that represents the disease indication.

[Is static True. Containment is Not Specified.]

indicationDescription: String Private

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

[Is static True. Containment is Not Specified.]

indicationId: String Private Const

[Is static True. Containment is Not Specified.]

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

Cardinality: [0..*]

OPERATIONS

getCodes () : List<Code> Public

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

getIndicationDescription (): String Public

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

getIndicationId () : String Public

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

Indication (indicationId : String) : Public

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

setCodes (codes : List<Code>) : void Public

OPERATIONS

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

setIndicationDescription (indicationDescription : String) : void Public

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

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)

IntercurrentEvent
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

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.]

intercurrentEventName: String Private

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)

Intercurrent Event

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

[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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

codes : List<Code> Private

A short sequence of characters that represents the investigational intervention.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

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.]

ASSOCIATIONS

✓ 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

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.]

New 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.]

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OPERATIONS

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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
objectiveDescription : String Private	
The textual representation of the study objective. (BRIDG)	
	[Is static True. Containment is Not Specified.]
<u> </u>	
objectiveEndpoints : List <endpoint> Private</endpoint>	[Is static True. Containment is Not Specified.]
objectiveId: String Private Const	[Is static True. Containment is Not Specified.]
objectiveLevel : Code Private	
A characterization or classification of the study endpoint that determines its ca objectives.	tegory of importance relative to other study
	[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*]

ASSOCIATIONS

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 abstract 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.]

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 1/17/2023. Last modified 1/17/2023

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.] organizationType : Code Private 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.]

SSOCIATIONS	
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

[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\ 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 1/17/2023. Last modified 1/17/2023

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.]
procedureType : String Private	
A characterization or classification of the study procedure.	[Is static True. Containment is Not Specified.]

SSOCIATIONS	
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.]

OPERATIONS

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

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

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.]

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
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

businessTherapeuticAreas : List<Code> Private

ATTRIBUTES		
A therapeutic area classification based on the structure and operations of the l	ousiness unit. [Is static True. Containment is Not Specified.]	
studyAcronym: String Private	[Is static True. Containment is Not Specified.]	
	[Is static True. Containment is Not Specified.]	
studyId: UUID Private Const	[Is static True. Containment is Not Specified.]	
studyIdentifiers : List <studyidentifier> Private</studyidentifier>	[Is static True. Containment is Not Specified.]	
A step in the clinical research and development of a therapy from initial clinical trials to post-approval studies. NOTE: Clinical trials are generally categorized into four (sometimes five) phases. A therapeutic intervention may be evaluated in two or more phases simultaneously in different trials, and some trials may overlap two different phases. [21 CFR section 312.21; After ICH Topic E8 NOTE FOR GUIDANCE ON GENERAL CONSIDERATIONS FOR CLINICAL TRIALS, CPMP/ICH/291/95 March 1998] [Is static True. Containment is Not Specified.]		
	[Is static True. Containment is Not Specified.]	
studyRationale : String Private	[Is static True. Containment is Not Specified.]	
 ✓ studyTitle: String Private The sponsor-defined name of the clinical study.	[Is static True. Containment is Not Specified.]	
studyVersion: String Private		
A plan at a particular point in time for a study.		

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ATTRIBUTES

[Is static True. Containment is Not Specified.]

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 businessTherapeuticAreas (Class) Code Cardinality: [0..*] 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 studyDesigns (Class) StudyDesign Cardinality: [0..*] Association (direction: Source -> Destination) Source: Public (Class) Study Target: Private studyType (Class) Code

OPERATIONS

Source: Public (Class) Study

addStudyDesign (studyDesign : StudyDesign) : void Public

Association (direction: Source -> Destination)

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

Target: Private studyPhase (Class) AliasCode

addStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public

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

Model Report 17 January, 2023 **OPERATIONS** 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.] 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

removeStudyDesign (studyDesign : StudyDesign) : 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.]

removeStudyIdentifier (studyIdentifier : StudyIdentifier) : void Public

Model Report 17 January, 2023 **OPERATIONS** [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 [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.]

Study (studyId : UUID) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

StudyArm

Class in package 'model'

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.

StudyArm
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
 studyArmDataOriginDescription: String Private The textual representation of the study arm data origin. 	[Is static True. Containment is Not Specified.]
	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.]
studyArmId: String Private Const	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]

Association (direction: Source -> Destination) Source: Public (Class) StudyArm Target: Private studyArmType (Class) Code Association (direction: Source -> Destination)

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

OPERATIONS [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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
studyArm: StudyArm Private	[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) 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) StudyCell	Target: Private studyElements (Class) StudyElement

ASSOCIATIONS

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyCells (Class) StudyCell

Cardinality: [0..*]

OPERATIONS

• addStudyElement (studyElement : StudyElement) : void Public

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

getStudyArm (): StudyArm Public

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

getStudyCellId () : String Public

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

getStudyElements () : List<StudyElement> Public

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

getStudyEpoch () : 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

StudyData

Class in package 'model'

Data collected in the course of a clinical study.

StudyData Version 1.0 Phase 1.0 Proposed Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES cerfLink: URI Private The uniform resource locator used to access the digital case report form. [Is static True. Containment is Not Specified.] studyDataDescription: String Private The textual representation of the study data. [Is static True. Containment is Not Specified.] studyDataId: String Private Const [Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Activity

Target: Private studyDataCollection (Class)
StudyData

Cardinality: [0..*]

[Is static True. Containment is Not Specified.]

OPERATIONS

getEcrfLink (): URI Public

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

getStudyDataDescription (): String Public

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

getStudyDataId (): String Public

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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
activities : List <activity> Private</activity>	
	[Is static True. Containment is Not Specified.]
• encounters : List <encounter> Private</encounter>	
	[Is static True. Containment is Not Specified.]
interventionModel : Code Private	
The general design of the strategy for assigning interventions to partici	pants in a clinical study. (clinicaltrials.gov)
	[Is static True. Containment is Not Specified.]
study cens. List study cen/ Trivate	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
	[Is static True. Containment is Not 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.]
The literal identifier (i.e., distinctive designation) of the study design.	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
studyEstimands : List <estimand> Private</estimand>	[Is static True. Containment is Not Specified.]
	[Is static True. Containment is Not Specified.]
studyInvestigationalInterventions : List <investigationalintervention></investigationalintervention>	Private [Is static True. Containment is Not Specified.]
studyObjectives : List <objective> Private</objective>	[Is static True. Containment is Not Specified.]
studyPopulations: List <studydesignpopulation> Private</studydesignpopulation>	[Is static True. Containment is Not Specified.]
studyWorkflows : List <workflow> Private</workflow>	[Is static True. Containment is Not Specified.]
therapeuticAreas : List <code> Private</code>	
A categorization of a disease, disorder, or other condition based on comm medical specialty focusing on research and development of specific therap	

ATTRIBUTES

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.]

trialType : List<Code> Private

Source: Public (Class) StudyDesign

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

[Is static True. Containment is Not Specified.]

Target: Private studyEstimands (Class) Estimand

Cardinality: [0..*]

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

	•
ASSOCIATIONS	
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 encounters (Class) Encounter 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 therapeuticAreas (Class) Code 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 studyInvestigationalInterventions (Class) InvestigationalIntervention 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 studyPopulations (Class) StudyDesignPopulation Cardinality: [0*]
Association (direction: Source -> Destination)	
Source: Public (Class) Study	Target: Private studyDesigns (Class) StudyDesign

ASSOCIATIONS

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

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

addStudyObjective (objective : Objective) : void Public

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

addStudyWorkflow (workflow: Workflow): 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.]

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

Model Report 17 January, 2023 **OPERATIONS** getStudyDesignRationale () : String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyEstimands (): List<Estimand> Public [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.] getStudyWorkflows () : List<Workflow> 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.]

removeStudyWorkflow (workflow: Workflow): void Public

Model Report 17 January, 2023 **OPERATIONS** [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.] 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 [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.]

🌳 setStudyPopulations (studyStudyDesignPopulations : List<StudyDesignPopulation>) : void Public

OPERATIONS	
setStudyWorkflows (studyW	Vorkflows : List <workflow>) : void Public</workflow>
* Seistudy Workhows (study W	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
setTherapeuticAreas (therap	euticAreas : List <code>) : void Public</code>
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
setTrialIntentType (trialInten	ntType : List <code>) : void Public</code>
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
setTrialType (trialType : Lis	st <code>) : void Public</code>
31 \ 31	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
StudyDesign (studyDesignId	d · String) · Public
* Study Designi (study Designic	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

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 1/17/2023. Last modified 1/17/2023

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.]
populationDescription : String Private	

ATTRIBUTES

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 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.]

getStudyDesignPopulationId (): String Public

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

setPlannedMaximumAgeOfParticipants (plannedMaximumAgeOfParticipants : String) : void Public

OPERATIONS setPlannedMinimumAgeOfParticipants (plannedMinimumAgeOfParticipants : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setPlannedNumberOfParticipants (plannedNumberOfParticipants : int) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setPlannedSexOfParticipants (plannedSexOfParticipants : List<Code>) : void 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.] StudyDesignPopulation (uuid : String) : Public

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

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 Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
The textual representation of the study design element.	[Is static True. Containment is Not Specified.]
element only attributes - these purely describe an element	[Is static True. Containment is Not Specified.]
studyElementName: String Private	
The literal identifier (i.e., distinctive designation) of the study design element.	[Is static True. Containment is Not Specified.]

[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 [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.]

OPERATIONS 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 1/17/2023. Last modified 1/17/2023

	Chris Opkes created on 1/1//2025. Last modified 1/1//20.
ATTRIBUTES	
• encounters : List <encounter> Private</encounter>	[Is static True. Containment is Not Specified.]
nextStudyEpochId: String Private	
A system identifier assigned to the epoch that occurs immediately	y after the current epoch.
	[Is static True. Containment is Not Specified.]
previousStudyEpochId: String Private	
A system identifier assigned to the epoch that occurs immediatel	y prior to the current epoch.
	[Is static True. Containment is Not Specified.]
studyEpochDescription : String Private	

ATTRIBUTES

The textual representation of the study epoch.

[Is static True. Containment is Not Specified.]

studyEpochId : String Private Const

[Is static True. Containment is Not Specified.]

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.]

studyEpochType : Code Private

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 encounters (Class) Encounter

Cardinality: [0..*]

Association (direction: Source -> Destination)

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

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

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

getPreviousStudyEpochId (): String Public

Model Report 17 January, 2023 **OPERATIONS** [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

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 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
 studyIdentifier: String Private A sequence of characters used to identify, name, or characterize the study. 	
A sequence of characters used to identify, fiame, of 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.]

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.*]

OPERATIONS getStudyIdentifier (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyIdentifierId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getStudyIdentifierScope (): Organization Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setStudyIdentifier (studyIdentifier: String): void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

setStudyIdentifierScope (studyIdentifierScope: Organization): void Public

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

StudyIdentifier (studyIdentifierId : String) : Public

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

StudyProtocolVersion

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 1/17/2023. Last modified 1/17/2023

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. [Is static True. Containment is Not Specified.] protocolAmendment : String Private A written description of a change(s) to, or formal clarification of, a protocol. (ICH E6) [Is static True. Containment is Not Specified.] protocolEffectiveDate : Date Private The date and time specifying when the protocol amendment takes 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. [Is static True. Containment is Not Specified.]

ATTRIBUTES

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 17 January, 2023 **OPERATIONS** 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.] setPublicTitle (publicTitle : String) : void Public

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setScientificTitle (scientificTitle : String) : void Public

OPERATIONS

[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.]

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 1/17/2023. Last modified 1/17/2023

SOCIATIONS	
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)	
ource: Public (Class) Encounter	Target: Private transitionStartRule (Class) TransitionRule
Association (direction: Source -> Destination)	

ASSOCIATIONS Source: Public (Class) Encounter Target: Private transitionEndRule (Class) TransitionRule

Workflow

Class in package 'model'

The operational aspect of a work procedure: how tasks are structured, who performs them, what their relative order is, how they are synchronized, how information flows to support the tasks and how tasks are being tracked.

Workflow Version 1.0 Phase 1.0 Proposed Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES	
workflowDescription : String Private	
The textual representation of the workflow.	
	[Is static True. Containment is Not Specified.]
workflowId: String Private Const	[Is static True. Containment is Not Specified.]
workflowItems: List <workflowitem> Private</workflowitem>	
The textual representation of the workflow item.	
	[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Workflow Target: Private workflowItems (Class)

WorkflowItem

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) StudyDesign Target: Private studyWorkflows (Class) Workflow

Cardinality: [0..*]

OPERATIONS

getWorkflowDescription (): String Public

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

getWorkflowId (): String Public

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

getWorkflowItems () : List<WorkflowItem> Public

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

setWorkflowDescription (workflowDescription : String) : void Public

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

setWorkflowItems (workflowItems : List<WorkflowItem>) : void Public

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

♦ Workflow (workFlowUUID : String) : Public

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

WorkflowItem

Class in package 'model'

WorkflowItem
Version 1.0 Phase 1.0 Proposed
Chris Upkes created on 1/17/2023. Last modified 1/17/2023

ATTRIBUTES

nextWorkflowItemId: String Private

A system identifier assigned to a workflow item that occurs immediately prior to the current workflow item. [Is static True. Containment is Not Specified.] PreviousWorkflowItemId: String Private A system identifier assigned to a workflow item that occurs immediately prior to the current workflow item. [Is static True. Containment is Not Specified.] workflowItemActivity: Activity Private [Is static True. Containment is Not Specified.] workflowItemDescription: String Private The textual representation of the workflow item. [Is static True. Containment is Not Specified.]

[Is static True. Containment is Not Specified.]

[Is static True. Containment is Not Specified.]

SOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) WorkflowItem	Target: Private workflowItemActivity (Class) Activity
Association (direction: Source -> Destination)	
Source: Public (Class) WorkflowItem	Target: Private workflowItemEncounter (Class) Encounter
Association (direction: Source -> Destination)	
Source: Public (Class) Workflow	Target: Private workflowItems (Class) WorkflowItem Cardinality: [0*]

workflowItemId: String Private Const

	C 1 1 1 50 kl
	Cardinality: [0*]
OPERATIONS	
getNextWorkflowItemId () : String Public	
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Model Report 17 January, 2023 **OPERATIONS** [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getPreviousWorkflowItemId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getWorkflowItemActivity (): Activity Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getWorkflowItemDescription (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getWorkflowItemEncounter(): Encounter Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getWorkflowItemId (): String Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setNextWorkflowItemId (nextWorkflowItemId : String) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

setPreviousWorkflowItemId (previousWorkflowItemId : String) : void Public

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

setWorkflowItemActivity (workflowItemActivity : Activity) : void Public

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

setWorkflowItemDescription (workflowItemDescription : String) : void Public

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

setWorkflowItemEncounter (workflowItemEncounter : Encounter) : void Public

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

WorkflowItem (workflowItemId : String) : Public