

Use concept-based standards in OpenStudyBuilder

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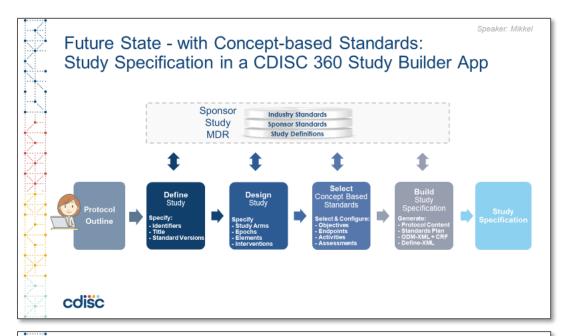
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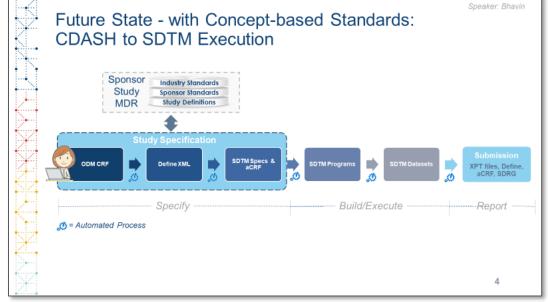
- Recap Concept definition from CDISC 360
 - Slides, white paper
- Demonstrate concept definitions in OpenStudyBuilder sandbox part 1
 - The Assessment Instance, linked to SDTM and CRF definitions
- Explain draft linked graph data model
- Time to play and explore, make screen dumps with call-out statements
 - Niels available on separate online meeting to give support
- Break
- Demonstrate concept definitions in OpenStudyBuilder sandbox part 2
 - Objective Endpoint Assessment Assessment Instance
- Brainstorm session on SWOT analysis for use of concept-based standards
- Plan presentation for plenum

CDISC EU Interchange 27. April 2022 OpenStudyBuilder Novo Nordisk®

Apply concept-based data standards end-to-end

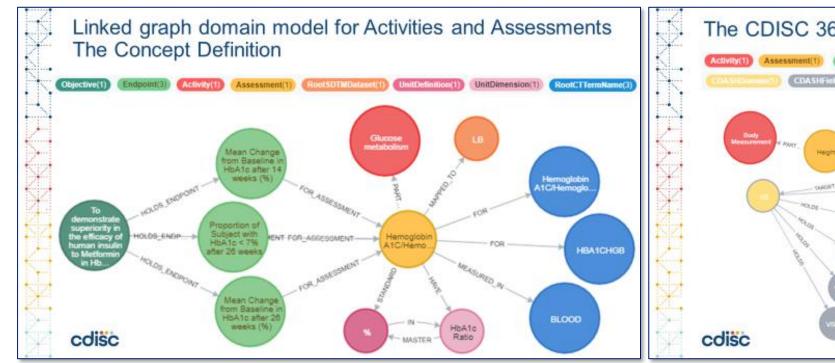
- From protocol preparation through study conduct to reporting and submission of applications to health authorities
 - and with reference to externally-compliant concept-based data standards and terminology
- Ensuring build-in compliance, and enabling more automation, efficient reuse across studies and projects, and aggregaation of study specification details for insights

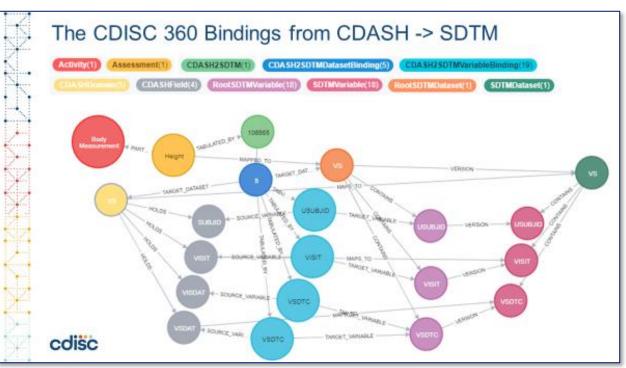




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Concept model from CDISC 360 WS4





- We have used this as the basis and are ongoingly continuing the model development
- See more info in CDISC_360_Project_White_Paper.pdf

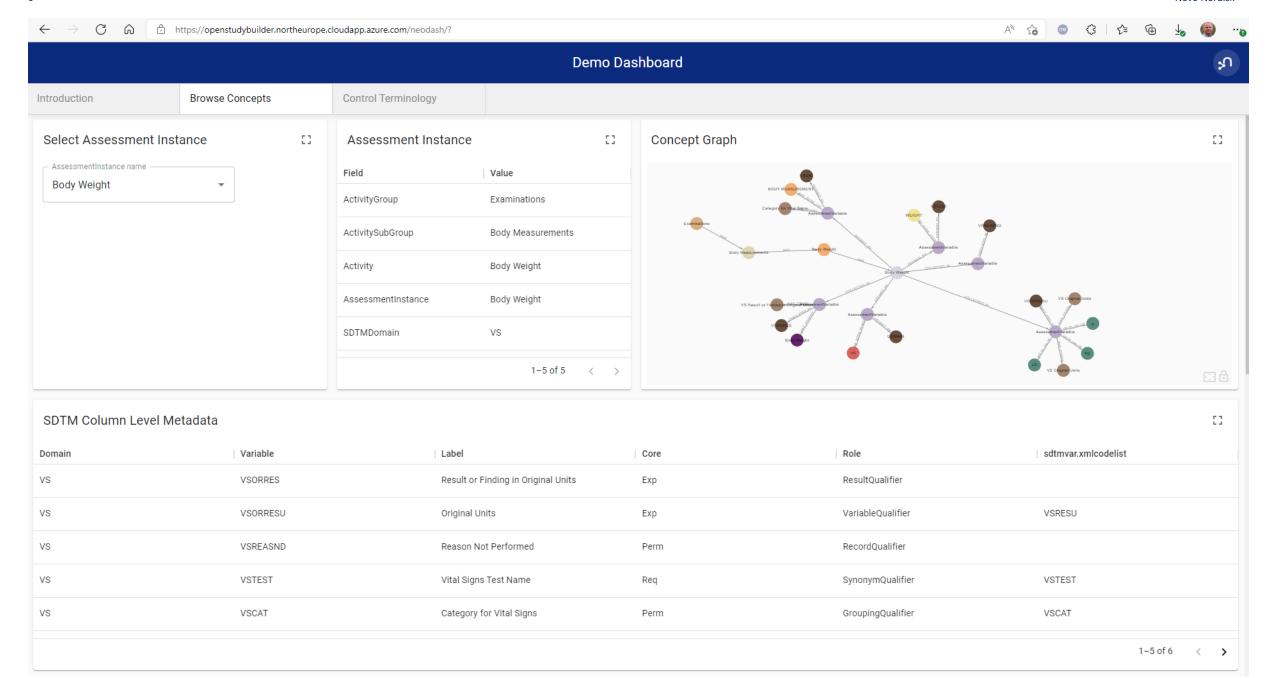
OpenStudyBuilder Concepts model

- Currently not visible from within the app
- Some parts are in the development database
 - But simpler to illustrate from our sandbox database
 - Let's have a look via NeoDash and the Browser

Note:

Only these have linkage in the sandbox:

- Body Weight
- Height
- Pulse
- Diastolic Blood Pressure
- Systolic Blood Pressure



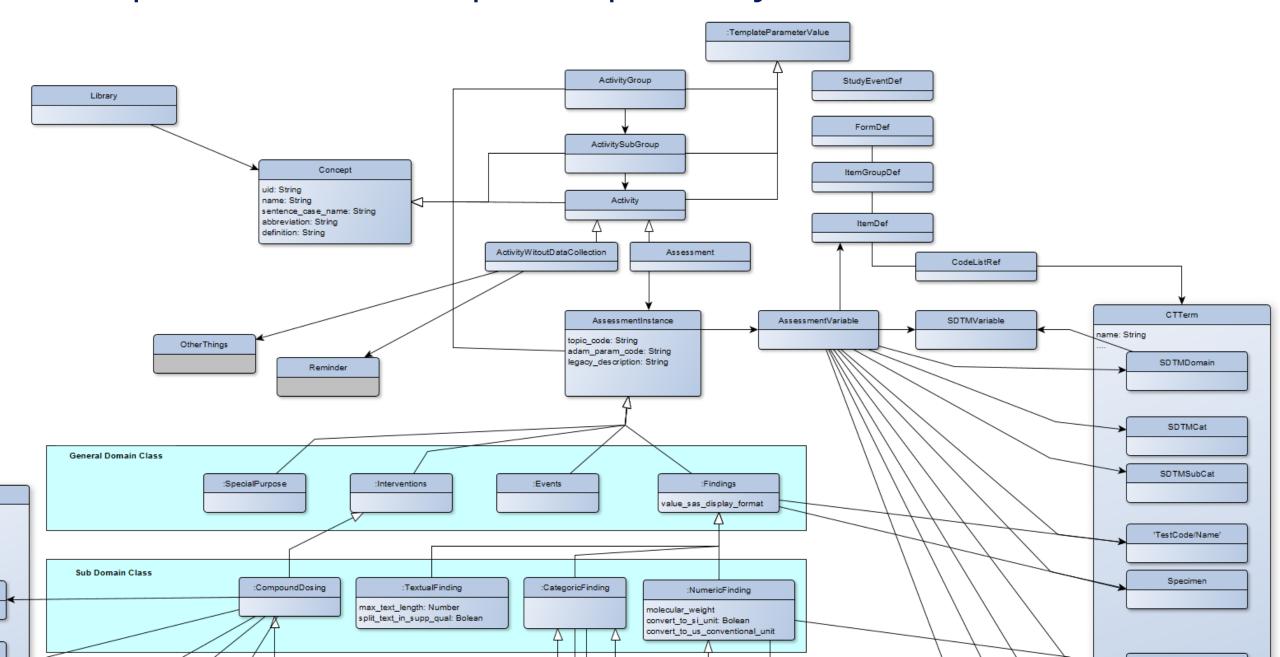
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Demo in NeoDash

SDTM Value Level Metadata								
Domain	Variable	Label	sdtmvar.xmlcodelist	Value				
VS	VSORRESU	Original Units	VSRESU	LB				
VS	VSORRESU	Original Units	VSRESU	kg				
VS	VSORRESU	Original Units	VSRESU	g				
VS	VSTEST	Vital Signs Test Name	VSTEST	WEIGHT				
VS	VSCAT	Category for Vital Signs	VSCAT	BODY MEASUREMENT				
				1–5 of 6	< >			

Concept N	/letadata															E3
ActivityGroup	ActivitySubGr Assess	ssmentl	TopicCode	AdamParamC	Order	ODMItemDef	ODMItemDefL	ODMItemDefT	SDTMVariable	SDTMLabel	SDTMRole	SDTMCore	Codelist	SubmissionV	PreferredName	ConceptID
Examinations	Body Measurem Body W	Weight F	BODY_WEIGHT	WEIGHT	1	I.WEIGHT	Body Weight	Num	VSORRES	Result or Findin	n ResultQualifier	Exp		null	null	null
Examinations	Body Measurem Body W	Weight F	BODY_WEIGHT	WEIGHT	2				VSORRESU	Original Units	VariableQualifie	e Exp	VSRESU	null	null	null
Examinations	Body Measurem Body W	Weight F	BODY_WEIGHT	WEIGHT	2				VSORRESU	Original Units	VariableQualifie	e Exp	VSRESU	null	null	null
Examinations	Body Measurem Body W	Weight F	BODY_WEIGHT	WEIGHT	2				VSORRESU	Original Units	VariableQualifie	e Exp	VSRESU	null	null	null
Examinations	Body Measurem Body W	Weight F	BODY_WEIGHT	WEIGHT	3				VSREASND	Reason Not Per	r RecordQualifier	Perm		null	null	null
															1-5 of 5	5 < >

Graph model for concepts in OpenStudyBuilder



12-Jan-2021 New MDR Project Novo Nordisk®

Use concept-based standards in OpenStudyBuilder

Strengths

- Concepts will connect standards end-2-end
- Change workflow
 - Select Concepts for your study
 - Configure possible data collections
 - No longer make data collection specs and mappings!
- Enable automation
- Support use of better tools, benefitting all skill areas

Weaknesses

- Will limit CRF form layout options
- Lack of flexibility
- New skill areas must learn to work with concepts
 - Motivated by using data faster and in new ways
- Governance will be very critical

Opportunities

- Link to other models, like FIHR, OMOP, ...
- Link to comparing with other studies on clinicaltrial.gov
- Tools is needed for working with Concepts

Threats

- Manual created CRF's may not fit
- Resistance to learn the way to work with Concepts
- Lacking clear and shared definitions for concepts
 - BC versus Activity versus Assessment

The roadmap ahead for concept based standards

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- Migrate concepts from legacy MDR
- Complete model for Findings
- Complete model for CRF with linkage to assessment model
- Extend model for Interventions and Compounds
- Extend model for Events related data

OpenStudyBuilder

- Share data models
- Share test data
- Evaluation environments
- Join hackathons and workshops

CDISC Library

- Mine Define.xml
- Build CDISC Library model
- TA linkage
- Shared curation and collaboration

Other initiatives