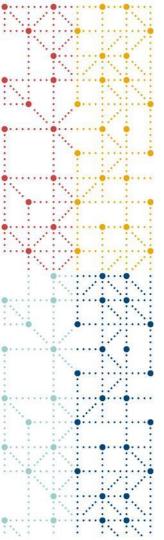
Digital Data Flow (DDF) Workshop: Mastering USDM PHUSE EU Connect 2023 Workshop – Follow Up

28th November 2023





Welcome

USDM Excel to JSON Resources

EU PHUSE WIKI Page

PHUSE EU Connect 2023 - DDF Workshop

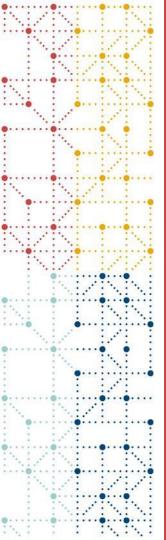
Created by John Owen, last modified just a moment ago

Pre EU Connect 2023 Information 📋 27 Oct 2023	Listen to the preparation Webinar and review the preparation webinar slides
Pre-Reads for EU Connect 2023	Pre-Reads (Materials to look at prior to the workshop if you with to. NOT compulsory!) A the time of the workshop this was version 2.5, since the workshop this new points to the latest versions of the USDM Odd (UML) Controlled Terminology 08.55(Implementation Guide (PDF) Informative Diagram (PNG) Implementation (Vict) (PCG):= CDMF-SME) (or if you prefer you can download a PDF of the Minoboard)
Web tools	Web Tools (no need to install - these will run from a web browser) • Excel To JSON Tool IU: PHUSE - P: (seming_usdm) • Excel to JSON Tool readme • Excel to JSON Tool rendeme • Excel to JSON Tool rendeme JSON Comparison
Example files for EU Connect 2023 Workshop 👩 05 Nov 2023	CDISC_Pilot_Study_Baseline.slsx Example Protocol • SoA Pages.jpeg • SoA.prg
Slides from EU Connect 2023 workshop 👩 05 Nov 2023	Slides presented at the workshop on 👘 05 Nov 2023
CDISC DDF EU Connect 2023 workshop 👚 07 Nov 2023	2023 11 07 PHUSE Peter VR DS01 M11 - PHUSE EU Connect v0.5.pdf 2023 11 07 PHUSE DAVE IH DS02 V3.pdf
EU Connect 2023 Follow-up Webinar 👘 28 Nov 2023	Listen to the preparation Webinar and review the preparation webinar slides

DDF WIKI Orientation Page

ty to show how	study can be represented in USDM. Follow the steps below to help you get started with using the available tools.
USDM	Please note that the tools below are not a validated study builder tools and are developed only as an aid to help user start to understand the USDM model and the corresponding JSON representations. The tools do not 100% repited the full threadth the study design. Development work in ongoing and the tools and facel utilities will evolve If using your own study design do no expect a 1221 100% multi- the USDM is transforming the way we develop study designs and
	protocols 1. Listen to the Melbinar that CDISC conducted for attendees of the EU PHUSE Connect 2023 Workshop in Mastering the USDM (also the silides from the websing) 2. Break the second of the experiment of the SUM model, the USDM Model Information Graphic provides are subsultation or titrein, timelines, the second of the three workshop to help understanding of more complex areas of the model such as inclusion/Exclusion criteria, timelines, the second of the three workshop to help understanding of more complex areas of the model such as inclusion/Exclusion criteria, timelines, the subsultation to here an understanding of the USDM model (the USDM Model Information Graphic provides are subsultation of the UML and complex and (the CDSC, DDF-SME) - your and follow the arrows to waikthreugh the model to ad your understand reading COM representations. You can downoid a partially completed becample the start – this will help you understand were some of the study, design components 8 in to the tool where the vale transmitted the USDM model and the comparison of the USM and of the USM will be updated to represent additional features added during the dath releases. 5. Once the beack file is downloaded there are severed in escures to help understand the structure of the Excel tool will be updated to represent additional information about the set-up of each of the excel worksheets - head to the format of the Workbook Section. 5. The following inforgaterik will also help is showing the relationship between the various worksheets - this allow you to start understanding how the worksheets in the tax and will also help is showing the relationship towing theory whorksheet and using the information to a, and a labove to help understand what is required. 6. Once you have complexite the Eacle Volus adde to you show the worksheets and what information you need to provide a transmit worksheet and worksheets and what information you need to provide to you added the top added the set worksheet by worksheet and using the information
	 a. * Reviewink your any errors trait have been reported and retruit me update. b. Download and review the JSON output to see how the study design is represented in JSON c. W Review the timeline araphic that is produced to help understand how the study timeline is created
	 d. Wiew a representation of your study design in M11 format (warning draft development ongoing)
	e. [©] Delete your Excel file from the server 7. Contact the CEX CUSM team if you have any questions on the Excel tool or if you are unsure how to represent certain study design information in the Excel tool 8. CDKCs will be conducting workshops in the future to help users Master the USDM so keep a look out for workshops at PRUSE US Connect and
	 CDISC will be conducting workshops in the future to help users Master the USDM so keep a look out for workshops at PHUSE US Connect and the EU/US CDISC interchanges.





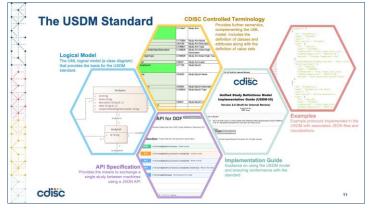
Agenda

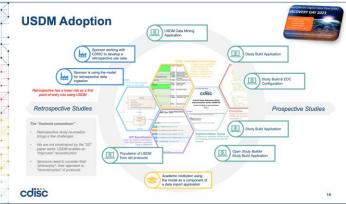
- 1. Purpose
- 2. Online Tool
- 3. Further Example
- 4. Questions

Purpose – A Reminder

- Purpose was to "provide an introduction" to the Unified Study Definitions Model (USDM)
- We used the Excel spreadsheet to show the model "working"
- The Excel spreadsheet was designed to generate test data
- It should NEVER be used for production work! ☺

Two Presentations	Connect Theme Presentations (DS) Digital Data Flow – From Vision to Reality
from the EU Connect.	DS01: ICH M11 Clinical Electronic Structured
	Harmonized Protocol (CeSHarP) and
	CDISC: Making the Electronic Protocol
These presentations	a Reality
provide more details	CDISC
about the M11, DDF	DS02: The TransCelerate/CDISC Digital
and USDM work.	Data Flow Project: Practical Electronic
	Study Designs data4knowledge & CDISC





Online Tool

cdisc

- Supports v2.5.0 of the USDM
- Three example files uploaded
 - Base CDISC Pilot
 - DM Biomedical Concepts added
 - Vital Signs timeline
- The tool will be upgraded
 - V2.7.1 support coming soon
 - Will involve changes to the spreadsheet format!
- If bugs encountered, please send the Excel file causing the error, we will see if we can fix the error handling, improve the tool

SDM Excel to JSON Utility status					÷
Excel File List A list of files held within the system for which a converted USDM JSON file can be downloaded.					i
File List.					
CDISC_Pilot_Study_Baseline.xlsx, dated 2023-11-28	1	ŵ	Ó	Å	ŧ
CDISC_Pilot_Study_Demographics.xlsx, dated 2023-11-28	Ū	Ŷ	Ó	Å	ŧ
CDISC_Pilot_Study_VS_Timeline.xlsx, dated 2023-11-28	Û	Ŷ	Ó	×	Ŧ

USDM Excel to JSON Utility STATUS	¢
Release Notes	System and Version Details
Release 0.17, 2023-11-16	System Details: USDM Excel to JSON Service (v0.17)
Improve error handling	USDM Model Version: v2.5.0
Release 0.16, 2023-11-03	USDM Python Package Version: v0.38.0
Support v0.38 of the USDM package	

Vital Signs Timeline Example I

3.9.3.4.1 Vital Sign Determination

Patient should lie supine quietly for at least 5 minutes prior to vital signs measurement. Blood pressure should be measured in the dominant arm with a standardized mercury manometer according to the American Heart Association standard recommendations. Diastolic blood pressure will be measured as the point of disappearance of the Korotkoff

Xanomeline (LY246708) H2Q-MC-LZZT(c) Clinical Study Protocol Copyright © 2006 Eli Lilly and Company Document Page 34

Protocol

sounds (phase V). Heart rate will be measured by auscultation. Patient should then stand up. Blood pressure should again be measured in the dominant arm and heart rate should be measured after approximately 1 and 3 minutes.

An automated blood pressure cuff may be used in place of a mercury manometer if it is regularly (at least monthly) standardized against a mercury manometer.

aken after the nutes jute (standing)
nutes



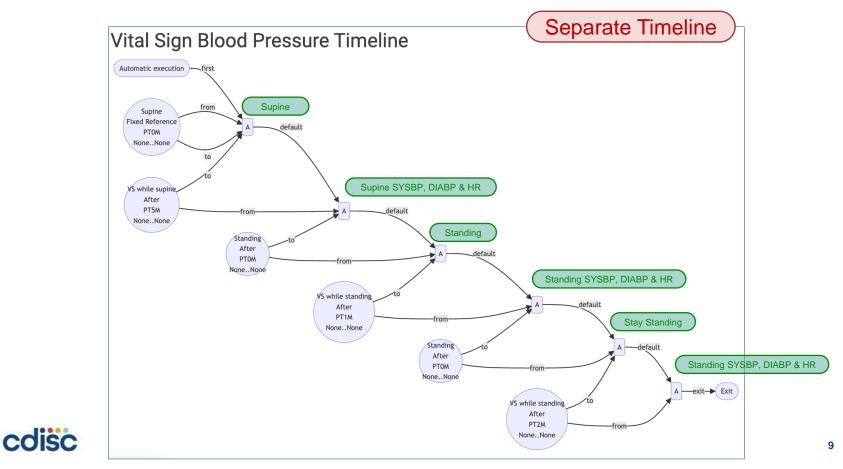
Vital Signs Timeline Example II

	A	В	C		D	E		eparat	e Time	line
1	Name	Vital Sign Blood Pressure Timeline		name	VS_5MIN	VS SUPINE	VS 1MIN	VS STAND1	VS 2MIN	VS_STAND3
2	Description	-	d	description	_	_	_	_	_	_
3	Condition	Automatic execution		label	5 minute supine	Vital signs supine	1 minute standing	Vital signs after 1 min standing	2 minute standing	Vital signs after 3 min standing
4				type	Activity	Activity	Activity	Activity	Activity	Activity
5				default	VS_SUPINE	VS_1MIN	VS_STAND1	VS_2MIN	VS_STAND3	(Exit)
6				condition						
7				epoch						
8				encounter						
9 Parent Activity		Child Activity	BC/Procedure/Timeline							
10		Supine	PR: PR_SUPINE		Х					
11		Vital Signs Supine	BC:Systolic blood pressure, BC:Diastolic blood pressur Heart Rate	re, BC:		X				
12		Stand	PR: PR_STAND				х		х	
13		Vital Signs Standing	BC:Systolic blood pressure, BC:Diastolic blood pressur Heart Rate	re, BC:				X		x

/	А	В	С	D	Е	F	G	Н	Ι
1	name	description	label	type	from	to	timingValue	toFrom	window
20	TIM19	Supine	Supine	FIXED	VS_5MIN	VS_5MIN	0 mins		
21	TIM20	VS while supine	VS while supine	AFTER	VS_SUPINE	VS_5MIN	5 mins	S2S	
22	TIM21	Standing	Standing	AFTER	VS_1MIN	VS_SUPINE	0 min	E2S	
23	TIM22	VS while standing	VS while standing	AFTER	VS_STAND1	VS_1MIN	1 min	S2S	
24	TIM23	Standing	Standing	AFTER	VS_2MIN	VS_STAND1	0 min	E2S	
25	TIM24	VS while standing	VS while standing	AFTER	VS_STAND3	VS_2MIN	2 min	S2S	



Vital Signs Timeline Example III



Vital Signs Timeline Example IV

	А	В	Initiated From The	e Main	Timel	ine)-
1	Name	Main Timeline	name	SCREEN1	SCREEN2	DOSE
2	Description	This is the main timeline for the study design.	description	-	-	-
3	Condition	Potential subject identified	label	Screen One	Screen Two	Dose
4			type	Activity	Activity	Activity
5			default	SCREEN2	DOSE	WK2
6			condition			
7			epoch	Screening	Screening	Treatment 1
8			encounter	E1	E2	E3
9	Parent Activity	Child Activity	BC/Procedure/Timeline			
10		Informed consent		Х	-	-
11		Inclusion/exclusion criteria		Х	-	-
12		Patient number assigned		х	-	-
13		Demographics		х	-	-
14		Hachinski		х	-	-
15		MMSE		х	-	-
16		Physical examination		х	-	-
17		Medical history		х	-	-
18		Habits		х	-	-
19		Chest X-ray		х	-	-
20		Apo E genotyping		-	-	-
21		Patient randomised		-	-	х
		Vital signs / Temperature	BC:Body temperature, BC:Body Weight, BC:Body	х	х	х
22			Height, TL: vsBloodPressure			

