





Vulcan UDP (Utilizing the Digital Protocol): Collaborating to Accelerate ICH M11 and End User Value



Welcome to the Utilizing the Digital Protocol Webinar

July 11th, 2024 at 09.00 – 10.30am EST

Time	Торіс	Speaker							
Welcome and Introduction									
5 mins	Kick-off and ground rules	Stacy Tegan							
10 mins	Panel introductions and setting the stage	All							
Speaker Presenta	ations								
15 min	Delivering a Data-Driven ICH M11 Clinical Protocol Template	Ron Fitzmartin, FDA							
10 min	Regulator Perspective on ICH M11 Deliverables and What the Digitization Will Enable	Noemie Manent, EMA							
10 min	Overview of the Digital Data Flow Project and the Collaboration with M11 and UDP	Chris Decker, CDISC							
15 min	UDP Project Overview	Hugh Glover, Vulcan							
10 min	Pathway to Implementation	Mary Lynn Mercado, TransCelerate (Novartis)							
10 min	Q&A	All							
Wrap-Up									
5 min	Close	Stacy Tegan							

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Webinar Logistics



• All participants will be muted for this call.

Connect to audio to listen to presentations via your computer or phone

- You can Reduce the control panel for a better view of the presentation
- To submit Questions to the presenters, Type your question in the Questions panel and click
 Send – Please denote who your question is for

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Webinar Logistics



- Please download the Webinar handout which contains links to contacts and additional resources
- Reminder: This webinar will be recorded in whole or in part



VULCÁN

We want to make this discussion helpful and answer as many of your questions as we can:

- Participation is voluntary, as is using TransCelerate assets/tools
- The responsibility for compliance with laws and regulations is owned by the solution adopter
- You don't have to identify what company you work for

Things we would ask you <u>not</u> to discuss:

- What specific vendors/sites/CROs/sponsors companies are working with
- Any issues companies have with any specific vendors/sites/CROs/sponsors
- Anything related to pricing or costs

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LIVE WEBINAR



Vulcan UDP (Utilizing the Digital Protocol): Collaborating to Accelerate ICH M11 and End User Value

🛗 THURSDAY, JULY 11 🕓 9 - 10:30 A.M. EST

PANELISTS





HUGH GLOVER TECHNICAL DIRECTOR VULCAN

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CHRIS DECKER PRESIDENT AND CEO cdisc CDISC



RON FITZMARTIN

SENIOR ADVISOR, OFFICE OF REGULATORY OPERATIONS CBER FDA



NOEMIE MANENT

CLINICAL TRIAL TRANSFORMATION, CHANGE MANAGER





Delivering a Data-Driven ICH M11 Clinical Protocol Template

Ron Fitzmartin, PhD, MBA

Sr. Advisor, Office of Regulatory Operations, Data Standards Branch Center for Biologics Evaluation & Research U.S. Food & Drug Administration

ICH M11 Rapporteur

VULCAN~UDP

July 11, 2024

FDA Disclaimer

The views and opinions presented here represent those of the speaker and should not be considered to represent advice or guidance on behalf of the U.S. Food and Drug Administration.



ICH M11

Clinical electronic Structured Harmonised Protocol





ICH M11: Three deliverables...

Guideline is a high-level document that:

- Provides the background on <u>why a harmonized</u> clinical protocol template is needed, and
- o Describes how the template and technical specification were developed.

Template

 Includes identification of headers, common text, instructions, data fields and terminologies.

• Technical Specification

- Serves as a technical representation of the ICH M11 protocol template.
- Aligns with the latest version of the ICH M11 guideline and template standard to enable electronic exchange of the clinical protocol information.
- o The tech spec does not deliver an implementation guide...that's for later



M11 & the ICH Step Process



Imagine the Future State...





...where the Protocol is driven by a common data model that enables limitless personalized views of the protocol.

...But now all we have is this

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	PROTOCOL TITLE:	BHV3500-301: Phase 3: Double-Blind, Randomized, Placebo Controlled, Safety and Efficacy Trial of BHV- 3500 (zavegepant) Intranasal (IN) for the Acute Treatment of Migraine	protocol into a
	IND NUMBER:	134,120	submission
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@	Phase III double-blind efficacy study Zavegepant Page 10 of 78	
	TABLE OF CONTENTS	
	SINMARY OF CHANCES1PHASE 1: DOUBLE BLIND, RANDOMIZED, PLACEBO CONTROLLED, SAFETY AND EMPLACY TRALA OF BHI-S809 (CANTCEFEANT) TYTRANASAL (N) FOR THE ACUTE TREATMENT OF MICRAINE STUDY SUMARY (NONSE) TABLE OF CONTROL STATEMENT STUDY SUMARY (NONSE) TABLE OF CONTROL TO STREAMENT CONTROL TABLE OF CONTROL TO TABLES, TABLES OF CONTROL STATEMENT TO TABLES, TABLES OF CONTROL TABLE OF CONTROL TO TABLES, TATIONALE TO TABLES, TATIONALE TABLES, TATIONALE ADALT ON CHICK STATT, TABLES, TATIONALE TABLES, TATIONALE ADALT ON COMPANY, TABLES, TATIONALE TABLES, TATIONALE ADALT ON CHICK STATIONALE TABLES, TATIONALE ADALT ON TABLES, TATIONALE ADALT ON TABLES, TATIONALE TABLES, TATIONALE ADALT ON CHICK STATT, TABLES, TATIONALE TABLES, TATIONALE ADALT ON COMPANY, TABLES, TATIONALE TABLES, TATIONALE ADALT ON CHICK STATISTICK, TATIONALE TABLES, TATIONALE ADALT ON COMPANY, TABLES, TATIONALE TABLES, TATIONALE ADALT ON COMPANY, TABLES, TABLES, TABLES, TA	ew the ith a :

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Ц П	1	BHV3500-301 Clir Phase III double-bl zavegepant	nical Protocol, Version 4.0 Confidential lind efficacy study Page 5 of 78	
М			STUDY SUMMARY (SYNOPSIS)	
0	I	Title:	BHV3500-301: Phase 3: Double-Blind, Randomized, Placebo Controlled, Safety and Efficacy Trial of BHV-3500 (zavegepant) Intranasal (IN) for the Acute Treatment of Migraine	
		Rationale:	Zavegepant is being developed for the acute treatment of migraine. Effectiveness against migraine was demonstrated in BHV3500-201, a fully powered, pivotal, Phase 2/3, double-blind, randomized, placebo-controlled, dose-ranging study of zavegepant 5 mg, 10 mg, and 20 mg via intranasal (IN) administration. The data from this study will allow characterization of the relative safety and efficacy of IN zavegepant versus placebo in the acute treatment of moderate or severe migraine measuring freedom from pain and freedom from most bothersome system (nausea, photophobia or phonophobia) as reported just prior to treatment of the migraine. Information regarding time to onset of action, the duration of action, and the sustainability of pain freedom in subjects with migraine will also be obtained.	Page by page, hyperlinking back and forth
	4	Target Population:	The study will recruit male and female subjects 18 years of age and older with at least a 1-year history of migraine (with or without aura), consistent with a diagnosis according to the International Classification of Headache Disorders 3 rd edition ¹ , including an age of onset prior to 50, migraine attacks that last about 4-72 hours, not more than 8 attacks of moderate or severe intensity per month within the last 3 months and not less than 2 attacks per month.	
	I	Number of Subjects:	Approximately 1,750 subjects will be screened to randomize approximately 1,400 subjects (approximately 700 per treatment group). Subjects will be randomized in a 1:1 ratio to the zavegepant or placebo treatment groups. Randomization will be stratified by prophylactic migraine medication use (yes or no).	
		Primary Objective:	To compare the efficacy of zavegepant with placebo in the acute treatment of migraine, as measured by co-primary endpoints of pain freedom at 2 hours postdose, and freedom from the most bothersome symptom (MBS) associated with migraine at 2 hours postdose.	
		Secondary Objectives:	 To compare zavegepant with placebo for pain relief at 2 hours postdose. 	
			2. To compare zavegepant with placebo for return to normal function at 2 hours postdose according to the Functional Disability scale.	

CDISC and M11 Curated Common Terminology enables the Data Driven Clinical Protocol



M11 will break the clinical protocol "document-centric" paradigm

CDISC and M11 Curated Common Terminology enables the Data Driven Clinical Protocol

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M11 Technical Specification, Step 2a/2b version

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PHASE 3: DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED, SAFETY AND EFFICACY TRIAL OF BHV-3500 (ZAVEGEPANT) INTRANASAL (IN) FOR THE ACUTE TREATMENT OF MIGRAINE



Intervention Model:	[Parallel]	Population Type:	[Adult Participants]
Control Type:	[Placebo]	Population Diagnosis or Condition:	[Migraine]
Control Description:	[NA]	Population Age:	Minimum: 18 years Maximum: 80 years
Intervention Assignment Method:	[Stratified Randomization]	Site Distribution and Geographic Scope:	[Multicentre] [Multiple Countries]
Adaptive Trial Design:	[No]	Master Protocol Design:	[No]
Drug/Device Combination Product Indicator:	[No]		

			Trial	Schema					
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_		Treatment of n	tigraine must occur	within 45 d	ays of random	ization (Base	line Visit}		
			Total study dur	ation is app	rosimately 11	weeks			
	Overview of Trial Interventions								
Arm Name	Arm Type	Intervention Name	Intervention Type	Dose Form	Unit Dose Strength	Dosage Level	Route of Administrat		
Experimental	[Active]	[Zavegepant]	(Drug)	[Spray]	[mg]	[10]	(intranasai)		
Placebo Comparator	[Placebo]	[Placebo]	[Drug]	[Spray]	[mg]	[10]	[Intranasal]		

C My Views C My Tasks C Overview C Notes C Safety C Discussion C Statistical C ZAVEGEPANT IND

Trial Objectives and Associated Estimands

nd of T	reatment Visit	Estimand Characteristic	Description
Sut netur Sar en pro Via withi th	ýjocts will n to ellinic al ofiziady scodares ik occurs n 7 days of catment	Population	(<the 18<br="" and="" female="" male="" recruit="" study="" subjects="" will="">years of age and older with at least a 1-year history of migraine (with or without aura), consistent with a diagnosis according to the International Classification of Headache Disorders 3rd edition1, including an age of onset prior to 50, migraine attacks that last about 4-72 hours, not more than 8 attacks of moderate or severe intensity per month within the last 3 months and not less than 2 attacks per month. >)</the>
		Treatment	{ <zavegepant (in)<br="" 10="" intranasal="" mg="" via="">administration>}</zavegepant>
	_	Endpoint	(< Pain freedom at 2 hours postdose will be assessed using the percentage of subjects with a pain intensity of none at 2 hours postdose. Pain intensity will be measured on a 4-point numeric rating scale (O=none, 1=mild, 2=moderate, 3=severe). >)
tion	Regimen Treatment Period	Population-Level Summary	(< Treatments compared using a Cochran-Mantel Haenszel test to estimate the difference in percentages of subjects achieving the endpoint response criteria (zavegepant-placebo) stratified by prophylactic migraine medication use at randomization (yes or no)>)
		Intercurrent Event	(Strategy)
	[45] [days]	Rescue Medication	(<(The intercurrent event of rescue medication use will be handled using Rescue Medication = Failure (RM=F), i.e., subjects who take rescue medication will be classified as failures for all efficacy assessments that
	[45] [days]		are reported at or after taking rescue medication. The RM=F method will apply to all endpoints listed below, except the secondary endpoint of rescue medication use within 24 hours postdose}>}

Drug/Device Combination Product Indicator:	[No]			
Number of Arms		(7)	·	
Number of Arms		[4]		
Trial Blind Schema		[Triple]		
Blinded Roles		[Participant] [Investigator]		
		[Care Provider]		
Number of Participants		[1400] / [1750]		
Duration		[45] [days]		
Independent Commit	tee	[No]		

CDISC and M11 Curated Common Terminology will Enable the Data Driven Clinical Protocol

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		subjects per treatment grou		6.1. Description of Study Intervention, Section 6.3.	Dosin	 Studies). Other reportable 	Header	
		randomized to treatment gr		and Section 6.5, Preparation, Handling, Storage, and	Acc	such as cardiovascular a	Definition	
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other sections			Relationship content	Study Intervention and Concomitant Therapy		If it is a measura		laboratory or other safety assessments (for example, Sponsor or
			from ToC			done.		external Independent Data Monitoring Committee).
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			other sections			concept: n/a	Value	Efficacy Assessments and Procedures
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							Duplicate field in other sections	

M11 Technical Specification, Step 2a/2b version

FDA

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PHASE 3: DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED, SAFETY AND EFFICACY TRIAL OF BHV-3500 (ZAVEGEPANT) INTRANASAL (IN) FOR THE ACUTE TREATMENT OF MIGRAINE



Safety Assessments and Procedures

se	Procedure	Screening Visit	Baseline Randomization Visit (Day1)	Moderate or Severe Migraine Before Study Drug Administration	Post Study Drug Administration: 15, 30, 45, 60 & 90 minutes 2, 3, 4, 6, 8, 24 & 48 hours	End of Treatment Visit
	Physical Examination	x				x
3	Nasal Inspection	x	x			x
Es	Vital Signs / Physical Measurements	x	x			x
5	Adverse Event and Serious Adverse Event Assessment	x	x	x	x	x
	Sheehan Suicidality Tracking Scale	x	x			
	ECG	x				
RF c)	Clinical Safety Laboratory Testing	x				
v	Liver Function Tests	x				
,	Lipid Panel	x				
d	FSH, if Applicable	x				
	Pregnancy Test	x				
d	Urinalysis Test	x	x	x		x
e	Urine Drug Screen for Drugs of abuse	x				x

Overview of Trial Interventions

Arm Name	Arm Type	Intervention Name	Intervention Type	Dose Form	Unit Dose Strength	Dosage Level	Route of Administration	Regimen Treatment Period
Experimental	[Active]	[Zavegepant]	[Drug]	[Spray]	[mg]	[10]	[Intranasal]	[45] [days]
Placebo Comparator	[Placebo]	[Placebo]	[Drug]	[Spray]	[mg]	[10]	[Intranasal]	[45] [days]

Trial Schema



Treatment of migraine must occur within 45 days of randomization (Baseline Visit)

Total study duration is approximately 11 weeks

Adverse Events of Special Interest < Non-serious Adverse Events A non-serious AE is an AE not classified as serious. ·Collection and Reporting of Non-Serious Advers Events The collection of non-serious AE information should begin at the Baseline Visit through the EOT Visit. Non-serious AEs should be followed until conclusion or stabilization, or reported as SA if they become serious. Follow-up is also required for non-serious AEs that cause interruption or discontinuation of study drug or those that are present at the end of study treatment. Laboratory Test Abnormalities The following laboratory test abnormalities

should be captured on the non-serious AE CRI page or SAE Report Form (paper or electronic) as appropriate:

- Any laboratory test result that is clinically significant or meets the definition of an SAE;
- Any laboratory abnormality that required the subject to have the study drug discontinued or interrupted;
- Any laboratory abnormality that required the subject to receive specific corrective therapy.

CDISC and M11 Curated Common Terminology enables the Data **Driven Clinical Protocol**

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Developed a Cald in			studies. If ap	User Guidance	In this section, describe the study intervention bein	ig tested and any		headings can be added as needed.
other sections			therapeutic u		product being used. If multiple study interventions	are to be evaluat		
outer sections			any: for eyan		and Section 6.5. Preparation, Handling, Storage, and	d Accountability s		Identity any non-investigator party responsible for evaluation of laboratory or other safety assessments (for example, Spensor or
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PHASE 3: DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED, SAFETY AND EFFICACY TRIAL OF BHV-3500 (ZAVEGEPANT) INTRANASAL (IN) FOR THE ACUTE TREATMENT OF MIGRAINE



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Trial Schema



Treatment of migraine must occur within 45 days of randomization (Baseline Visit)

Total study duration is approximately 11 weeks





Safety Assessments and Procedures

Procedure	Screening Visit	Baseline Randomization Visit (Day1)	Moderate or Severe Migraine Before Study Drug Administration	Post Study Drug Administration: 15, 30, 45, 60 & 90 minutes 2, 3, 4, 6, 8, 24 & 48 hours	End of Treatme Visit
Physical Examination	x				x
Nasal Inspection	x	x			x
Vital Signs / Physical Measurements	x	x			x
Adverse Event and Serious Adverse Event Assessment	x	x	x	x	x
Sheehan Suicidality Tracking Scale	x	x			
ECG	x				
Clinical Safety Laboratory Testing	x				
Liver Function Tests	x				
Lipid Panel	x				
FSH, if Applicable	x				
Pregnancy Test	x				
Urinalysis Test	X	x	X		x
Urine Drug Screen for Drugs of abuse	x				x

Rationale for Investigational Trial Intervention Dose and Regime

<Safety data are now available from the pivotal Phase 2/3 dose ranging study (BHV3500-201). BHV3500-201 is a concluded, pivotal, Phase 2/3, doubleblind, randomized, placebo-controlled dose-ranging (5 mg, 10 mg, or 20 mg) study of zavegepant IN for the acute treatment of migraine. In this study, a total of 1,673 subjects were randomized to receive zavegepant (5 mg, 10 mg, or 20 mg) or matching placebo.

Based on topline data from this pivotal study, a durable efficacy profile for zavegepant was established. This efficacy profile, together with a favorable safety profile led to the selection of the IN zavegepant 10 mg dose as the lowest fully efficacious dose to support Phase 3 clinical studies.>

CDISC and M11 Curated Common Terminology enables the Data Driven Clinical Protocol

Term (Variable) Data Type Topic, Value or Header	1.1 Protocol Synop Text	sis Sect	ion 1.0	nd Estimondo				
Definition User Guidance	Data Type Topic, Value or	техt н Sect	ion 3.0	nd Estimands			Possible	e "Stat Views"
Conformance	Definition		1					
Cardinality	User Guidance	Term (Variable)	Study Interven	tion and Concomita	nt Therapy			
Relationship conte from ToC	User Guidance	Data Type Topic, Value or Header	Text H	Sect	ion 6.0			
protocol hierarchy		Definition	Heading	Term (Variable) Sample Size	Determination		
Relationship (reference to high		User Guidance	In this section, product being (Data Type	Text	Section 9.0		
level conceptual	Conformance		6.1, Description	Header				
model)	Cardinality		and Section 6.	Definition				
Value	Cardinality	Conformance	differentiate be	User Guidan	Term (Variable)	Analysis Sets Section 9	0	
Business rules	Relationship conte	Contormance	Required / Req		Data Type	Text JCCCIOIL J.		
	representing the	Polationship content	Study Intonyon		Topic, Value or	D		
	protocol hierarchy	from ToC	Study Interven		Header			
	Relationship	representing the			Definition	Detailed description of all efficacy assessments prese	ented in Term (Variable)	Analysis Supporting Primary Objective(s)
	(reference to high	protocol hierarchy			User Guidance	Analysis acts to suggest as the analysis will be an effe	Data Type	Text Contion 0.0
Duplicate field in	level conceptual	Relationship				Analysis sets to support each analysis will be specified	d nere a Topic, Value or	▷ Section 9.0
other sections	model)	level conceptual				Statistical Analysis Plan.	Definition	This section introduces the Statistical Analysis Plan, with the detail to be
	value	model)		Conformanc				provided in the subsequent subsections. This includes describing the methods for
	Business rules	Value	Study Interven	Cardinality	Conformance	Required/Repeated		Sensitivity analyses should be aligned with how the estimands are defined.
		Business rules	Value Allowe	Relationshin		Optional/Repeated		are defined.
			Relationship:	from ToC	Cardinality		llees Guidenee	
	Duplicate field in		Concept: n/a	a representing protocol hier Relationship	Relationship content from ToC	nt Analysis Sets	User Guidance	Analysis sets to support each analysis will be specified here and described in the Statistical Analysis Plan.
	other sections	Duplicate field in other sections		(reference to level concep	protocol hierarchy Relationship		Conformance	Required/Repeated
				model) Value Business rul	(reference to high		Cardinality	Optional/Repeated
					level conceptual model)		Relationship content from <u>ToC</u>	Analysis Supporting Primary Objective(s)
					Value		protocol hierarchy	
					Business rules	Value Allowed: n/a Relationship: n/a Concept: n/a	Relationship (reference to high level conceptual model) Value	
					Duplicate field in other sections		Business rules	Value Allowed: n/a Relationship: n/a Concept: n/a
111 Techr	nical Speci	ification.	Step 2a	a/2b ve	rsion		Duplicate field in other sections	

FDA



criteria (zavegepant - placebo) stratified by prophylactic migraine medication use at

response criteria will be presented with a 95% confidence interval (CI) by treatment

randomization (yes or no). The percentage of subjects achieving the endpoint



PHASE 3: DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED, SAFETY AND **EFFICACY TRIAL OF BHV-3500** (ZAVEGEPANT) INTRANASAL (IN) FOR THE ACUTE TREATMENT OF MIGRAINE

Overall Design



C My Views 🕑 Overview 🗹 Safety C Statistical

🕑 My Tasks Notes C Discussion ZAVEGEPANT IND

?

		-				Sample Size Determination	
Intervention Model	[Parallel]	Population Type:	[Adult Darticipanta]	Estimand Characteristic	Description	It is anticipated that about 90% of the 700 subjects randomized to each treatment	
Control Type:	[Placebo]	bo] Population Diagnosis or Condition:	[Migraine]	Population { <the a<br="" male="" recruit="" study="" will="">subjects 18 years of age and a a 1-year history of migraine (v aura), consistent with a diagn</the>	(<the and="" female<br="" male="" recruit="" study="" will="">subjects 18 years of age and older with at least a 1-year history of migraine (with or without aura), consistent with a diagnosis according to the laterastical Classification of Madache</the>	group will have a headache in the allotted time period, resulting in approximately 630 subjects evaluable for efficacy in each treatment group. The sample size calculation is based on results from the Phase 2/3 dose-ranging study	
Control Description	: [NA]] Population Age:			Disorders 3rd edition1, including an age of onset prior to 50, migraine attacks that last about 4-72 hours, not more than 8 attacks of moderate or severe intensity per month within	BHV3500-201. A total sample size of 1,260 evaluable subjects (630 per group) will provide approximately 91% power for the co-primary endpoint of pain freedom at 2 hours post dose, approximately 88% power for the co-primary endpoint of MBS	
Intervention Assignment Method	[Stratified Randomization]	Site Distribution and Geographic Scope:	[Multicentre] [Multiple		the last 3 months and not less than 2 attacks per month. >}	freedom at 2 hours post dose, and approximately 80% power to detect a difference between treatment groups for both endpoints jointly.	
			Countries]	Treatment	{ <zavegepant (in)<="" 10="" intranasal="" mg="" td="" via=""><td></td></zavegepant>		
Adaptive Trial	[No]	Master Protocol	[No]		administration>}	Analysis Sets	
Design:	[(10]	Design:		Endpoint	{< Pain freedom at 2 hours postdose will be assessed using the percentage of subjects with	 Randomized: Subjects who sign informed consent and are assigned a subject identification number. Randomized: Subjects in the enrolled analysis set who receive a randomized treatment group assignment (zavegepant or placebo) from TWRS. Safety: Subjects in the enrolled analysis set who take study drug (zavegepant or placebo). 	
Number of Arms		[2] [Triple]			a pain intensity of none at 2 hours postdose. Pain intensity will be measured on a 4-point numeric rating scale (O=none, 1=mild, 2=moderate, 3=severe). >}		
Trial Blind Schema							
Blinded Roles Number of Participants		[Participant] [Investigator] [Care Provider] [1400] / [1750]		Population-Level Summary	(< Treatments compared using a Cochran- Mantel Haenszel test to estimate the difference in percentages of subjects achieving the endopiet response criteria (avegepant.	• Efficacy : Subjects in the randomized analysis set who: (1) are randomized only once; (2) have a migraine of moderate or severe intensity at the time of dosing (3) take study drug; and (4) have post-dose efficacy data.	
					placebo) stratified by prophylactic migraine		
Duration		[45] [days]			medication use at randomization (yes or no)>}	Analysis Associated with the Primary Objective	
Overview of Trial Interventions				Intercurrent Event	(Strategy)	Zavegepant will be tested for superiority against placebo at an alpha=0.05 level for both co- primary endpoints using the efficacy analysis set. For each endpoint,	
Arm Name Arm Type In Na	tervention Intervention Type	Dose Unit Dose Dosage Ro Form Strength Level Ad	ute of Regimen ministration Treatment	Rescue Medication	<pre>{<{The intercurrent event of rescue medication use will be handled using Rescue Medication = Cilling (DMCD) is publicity who take rescue </pre>	treatment groups will be compared using a Cochran-Mantel Haenszel test to estimate the difference in percentages of subjects achieving the endpoint response	

Period Experimental [Active] [Zavegepant] [Drug] [Spray] [mg] [10] [Intranasal] [45] [days] [10] [45] [days] Placebo [Placebo] [Placebo] [Drug] [Spray] [mg] [Intranasal] Comparator

Trial Objectives and Associated Estimands

Failure (RM=F), i.e., subjects who take rescue medication will be classified as failures for all efficacy assessments that are reported at or after taking rescue medication. The RM=F method will apply to all endpoints listed below, except the secondary endpoint of rescue medication use within 24 hours postdose}>}

group.

ICH M11 and Vulcan Utilizing Digital Protocol (UDP): FDA A Collaboration that will result in...

PCICH harmonisation for t	CeSHarP
COISC TransCelerate BIOPHARMA INC.	USDM and Terminology USDM MIL/USDM USDM, dSON Terminology USDM, dSON API Conformance Rules
VULCÂN MIZFHIR	Use Use Digital Protocol – UDP Use Digital Protocol – UDP Digital Protocol – UDP Perference Application

N~UDP

- Data driven Protocol that will be personalized to the reviewer's needs
- Standardized data model with CDISC / USDM common terms, definitions and formats
- Improved collaboration / communication among protocol stakeholders
- Facility to exchange the protocol information using multiple formats: DOCX, PDF JSON and FHIR.



Thank You



Regulator Perspective on ICH M11 Deliverables and What the Digitization Will Enable

Noemie Manent









Before the Clinical Trials Regulation

Clinical trial applications were submitted separately to regulators and ethics committees in each EU Member State and recorded in EudraCT



After the Clinical Trials Regulation

Single submission of clinical trial applications, covering regulatory and ethics submission in up to 30 EU/EEA Countries

Applies as of **31 January 2022** supported by the use of the Clinical Trials Information System (CTIS)





The benefits of the Clinical Trials Regulation (CTR)

- CTIS is the register of the **Clinical Trials** ٠ Regulation
- CTIS generates substantially higher quality data • than EudraCT
- Opportunity to capitalise on technological ٠ developments in advanced analytics (i.e., machine learning, AI, NLP)

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CTIS

Where should we focus to make better use of the data we collect about clinical trials?



The Clinical Trials Regulation and ICH M11 digitization

- Aligns with EU legislative framework and CTR protocol requirements
- Enhances efficiency under CTR with more structured data
- Improves review and reporting through robust methodologies
- Achieves global consistency with a common Table of Content
- Utilises data to advance drug development and guide policy making







Registers and clinical trials

- Data about clinical trials are held in CT registers and contain summary-level information on clinical trials
- *Data from clinical trials* are Individual Patient Data and are not kept in the registers
- CT register data is centrally positioned and play a bridging role, facilitating the link between data sources

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Harnessing clinical trial data for enhanced drug development and policy making

- **Potential**: Clinical trial data is crucial for developing products, shaping policies, and benefiting patients.
- **Objective**: Aim to utilise more data to make drug development more efficient and patient-centered, aiding policy decisions.
- **Resources**: EU regulatory network possesses extensive clinical trial data through EU registers (CTIS and EudraCT).
- Workshop focus: Identify use cases to combine various data sources, uncovering new insights to improve EU citizens' health and well-being.





The use cases require data standardisation

 Establish requirements for structuring information



• Enable use cases by making data more accessible







Key takeaways

- **Standardised, harmonised, and interoperable** data are foundational for advancing research methodologies, facilitating effective collaborations, and streamlining regulatory processes.
- Access to data for patients and patient organisations is critical for informed decision-making and effective advocacy.
- Accurate, complete, and timely data underpin not only the integrity of clinical trials but also the reliability of research outcomes.
- **Open analytics platforms** can optimise research processes, support strategic prioritisation, and guide efficient resource allocation across the research ecosystem.
- **Integrating data** about clinical trials with a variety of other data sources, including real-world data, can optimise trial designs and address challenges in accessibility and inclusivity.





Acknowledgements

- Nick Halsey
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- Theo Framke
- IJsbrand den Rooijen
- Ana Zanoletty





Overview of the Digital Data Flow Project and the Collaboration with M11 and UDP

Chris Decker




CDISC AGENDA TOPICS

- Introduction to Digital Data Flow (DDF) and Unified Study Definition Model (USDM)
- CDISC/ICH M11 Partnership
- How does USDM, M11, and UDP Come Together

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TransCelerate Digital Data Flow (DDF) Ambition

Write Once, Read Many

https://www.transceleratebiopharmainc.com/assets/digital-data-flow-solutions/



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DDF Initiative encompasses technical delivery, change management, and industry engagement



The USDM Standard



CDISC Controlled Terminology



CDISC/ICH M11 Partnership



ICH M11

Clinical electronic Structured Harmonised Protocol



ICH and CDISC MOU (Memorandum of Understanding)

As a collaboration between ICH and CDISC, the goals of the agreement are to:

- Use a unified governance process and terminology services for the long-term support of ICH controlled terminologies
- Curate and maintain ICH controlled terminologies
- Follow a robust process for the public review and publication of ICH terminologies
- Ensure the terminologies are freely available to the public following public review

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Scope

For ICH members to adopt and implement a clinical information standard it is critical that all terminology components, including but not limited to definitions described in the technical specification, are part of a greater international controlled terminology resource managed by an internationally recognized standards development organization (SDO). CDISC has been identified by ICH as a reputable SDO with the qualifications and capabilities to support the maintenance and facilitation of the governance process for ICH controlled terminology.

This Memorandum of Understanding (MOU) sets forth the roles and responsibilities of each party as they relate to the governance of the ICH terms and definitions developed in collaboration with CDISC. This MOU is intended to describe the goals, the high-level governance process, and how each party will collaborate. Specific projects (e.g., M11 controlled terminology) will be defined in detail as part of an annex to this MOU mutually agreed upon by CDISC and ICH.

Goals

As a collaboration between ICH and CDISC, the goals of the agreement are to:

- 1. Use a unified governance process and terminology services for the long-term support of ICH controlled terminologies.
- 2. Curate and maintain ICH controlled terminologies.
- 3. Follow a robust process for the public review and publication of ICH terminologies
- 4. Ensure the terminologies are freely available to the public following public review.





How does USDM, M11, and UDP Come Together

ICH M11 and Vulcan Utilizing Digital Protocol (UDP)



Inputs:

- ICH M11 template
- ICH M11 technical specification
- Models, definitions

FHIR will carry CDISC CT and USDM content

The technical specification can be used to develop other Implementation Guides

45

Timelines





UDP Project Overview

Hugh Glover



UDP is an Umbrella Project with many Use Cases

How is the project put together?









Founded in 1987, Health Level Seven® International (HL7) is an ANSI-accredited, not-for-profit standards developing organization with the mission of empowering global health interoperability. With affiliates in over 30 countries, HL7's global membership envisions a world in which everyone can securely access and use the right data when and where they need it.



The HL7 FHIR ACCELERATOR program is designed to assist communities and collaborative groups across the global health care spectrum in the creation and adoption of high quality FHIR Implementation Guides or other standard artifacts to move toward the realization of global health data interoperability.

Vulcan serves a user community focused on integrating clinical research and clinical care through the adoption of FHIR.





Regulations



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Design Layers – House Building

Design Layers – House Building

Physical

Building

Details

Building

Planning

Regulations

Regulations

Digital Protocol



Constraint Increasing

VULCA

THE BUILDING RECULATIONS 2 2010 No. 2214

What is FHIR?

Why?	Interoperability out-of-the-box (bridge clinical research and clinical care)	
How?	Built on web standards (e.g., XML, JSON, HTTP, and Oauth)	
What?	150+ resources (building blocks) to cover a wide array of use cases	
Who?	Diverse global community (hospitals, academia, vendors, biopharma, regulators)	

What is FHIR?

FHIR (Fast Healthcare Interoperability Resources), a specification, which is a standard for exchanging healthcare information electronically. FHIR R4 is the modernization of and best feature reutilization from HL7s v2, v3, and CDA products. Development of resources supposedly follows an 80/20 rule and aims to focus on what is required in 80% of existing systems and to regard the remaining 20% as edge cases. The 20% can then be dealt with through the extension mechanism built into FHIR.

FHIR aims to simplify implementation without sacrificing information integrity. It leverages existing logical and theoretical models to provide a consistent, easy to implement, and rigorous mechanism for exchanging data between healthcare applications.

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Implementation Guides are Key



FHIR Resources (components – like Lego blocks)

- Open Source No membership required
- FHIR makes no assumptions about the architectural design of systems
- The content is the same structure whatever the interoperability paradigm

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Implementation Guides







Connectathons are a key feature of FHIR



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Components required

- 1. People
- 2. The FHIR standard
- 3. Implementation Guides
- 4. Sample Data
- 5. Test Systems

Test that "things" work



Demonstrate FHIR based exchange of a Protocol Document

Get the connectathon process running





UDP Connectathons May: Systems Participating



The connectathon demonstrated successful Protocol representation in FHIR following M11 document template and began to identify more granular representations

- Had 6 sample protocols created and in FHIR format
- Connected USDM to FHIR for first time
- Exercised tools from participants to create sets of data and load to the server using multiple tools as identified in the drawing



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UDP Connectathons Future Plans

September Connectathon

- Structured title page (highest-level protocol metadata)
- Inclusion / Exclusion Criteria
- Expand vendor participation

Early thinking on 2025 Connectathon Topics

- Objectives and Endpoints
- Schedule of Activities
- Mapping to data capture tools
- Utilization of ODM









Community Involvement

True success for UDP will come only with involvement from the widest possible community ...

Connectathons

- HL7 Events January (virtual), May, September
- Specific UDP events
- Search: <u>HL7 Connectathon</u>

- Open to all
- Influence development
- Gain experience and insight

Webinar Series

• Regular cadence of Webinars next one planned in the fall

- Information and Progress updates
- Connectathon reports

Community of Interest

- Open forum for users
- We need to hear real business processes

- Active engagement
- Forefront of application development





Getting Involved



Pathway to Implementation

Mary Lynn Mercado



TransCelerate is part of a journey to break down barriers to data/digital transformation in R&D



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* Public, open-source assets from the DDF project are accessible at: https://transcelerate.github.io/ddf-home/

Don't wait to chart your pathway to implementation

1. Prioritize use cases for a digital protocol

- How could your organization benefit from a digital protocol?
- What are your protocol process-related pain points?
- 2. Learn more about the building blocks that will enable a digital protocol
 - ICH M11, TransCelerate, CDISC, HL7, Vulcan
- 3. Engage early and often with stakeholders who will be impacted by and/or benefit from availability of a digital protocol
 - Decision-makers within your organization
 - Internal stakeholders
 - Vendor community

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• External stakeholders creating guidelines and tools



Implementation starts with prioritizing a business problem to be solved with the digital protocol

Automated creation of CRFs	Automated clinical trial pricing	Schedule of Assessments that does not have to be manually translated for use by a site
Real-time regulatory review of clinical trial protocols	Single source of truth for clinical trial protocol elements	Automated study design analytics
Automated population of downstream clinical documents	Automated population of clinical trial applications and registries	Automated generation of fit-for- purpose views of clinical trial protocol information

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Understanding the value of components will be foundational to your unique implementation strategy

ICH M11 Template

- Enables content fit for regulators and sites
- Harmonized structure

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ICH M11 Technical Specification

- Structured elements
- Valid values lists

USDM

- Additional structured elements
- Critical context
- Computable

FHIR

- Open exchange
- Offers bridge between clinical research and clinical care

What you can do now...

ICH M11

Technical

Specification

USDM

ICH M11 Template

Align internal templates to the CPT (Common Protocol Template) which ICH has drawn from

Familiarize yourself with the <u>DRAFT</u> Template, Guideline, Technical Specification <u>https://www.ich.org/page/multid</u> <u>isciplinary-guidelines</u>

Participate in public reviews

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Reference the DDF Technology Architecture Scenarios Tool for examples of potential implementation patterns

Consider upcoming events:

- 26 Sept: DDF Vendor Showcase Webinar Series
- 10 Oct: "DDF in Action" Day
- 21-25 Oct: CDISC US
 Interchange INFO

Participate in CDISC public reviews

FHIR

Stay informed on UDP: Webinars (next one in the fall), <u>Vulcan UDP</u> <u>information page</u> on HL7's Confluence

Learn about FHIR: Reference HL7 Vulcan

Participating in a Connectathon*! Some participation options

- Perform testing (test protocols and applications provided)
- "Bring-your-own" protocols
- "Bring-your-own" software
- Contribute business process insights (non-technical)
- Send your R&D IT rep or vendor
- Contribute test protocols, convert protocols to M11/USDM – share learnings

* Sept Connectathon in Atlanta: onsite only or via virtual prep 1-2 months ahead, Jan to be virtual

Expert Panel Discussion with Q&A



Stacy Tegan TransCelerate Program Director

As a reminder, we can't answer questions about:

- Specific vendors with whom organizations are working
- Costs of using/implementing TransCelerate assets/tools
- Which member companies are using the assets/tools

Please state to whom your question is directed





MARY LYNN MERCADO

HUGH GLOVER TECHNICAL DIRECTOR







CHRIS DECKER PRESIDENT AND CEO COISC CDISC



RON FITZMARTIN SENIOR ADVISOR, OFFICE OF REGULATORY OPERATIONS CBER FDA



NOEMIE MANENT

CLINICAL TRIAL TRANSFORMATION (CTT), CHANGE MANAGER







- Connectathon in September
- Future UDP Webinar in the fall

Report out from the September Connectathon



















TransCelerate Biopharma Inc



Stay Connected: <u>Sign Up</u> for our Awareness & Implementation Community!



Events Calendar: To find out more about our events click <u>here</u>









ICH M11

- ICH Multidisciplinary guidelines page: https://www.ich.org/page/multidisciplinary-guidelines
- ICH M11 guideline (Draft): https://database.ich.org/sites/default/files/ICH_M11_draft_Guideline_Step2_2022_0904.pdf
- ICH M11 Protocol template (Draft): https://database.ich.org/sites/default/files/ICH_M11_Template_Step2_2022_0904.pdf
- ICH M11 Technical specification (draft): https://database.ich.org/sites/default/files/ICH_M11_TechnicalSpecification_Step2_2022_1014.pdf



Thank you!

If you have any questions about the UDP Project please reach out to: Vulcan@HL7.org

For any questions about the Webinar or issues with the recording please reach out to: <u>Events@transceleratebiopharmainc.com</u>