





Agenda Highlights		ATH DIG HE/	
Timing	Торіс	Session Char	
9:00 - 10:30	Q1: Clinical & Translational Research Landscape in Europe	Amy Cramer, Vulcan co-Chair	
10:30 - 11:00	Morning Networking Break		
11:00 - 12:30	Q2: Vulcan ePI/eLabeling Project, IDMP and EMA/SPOR: The Way Forward	Anne Moen, University of Oslo and Gravitate-Health	
12:30 - 13:45	Lunch / Networking / Lunch tables		
13:45 – 15:15	Q3: Vulcan Utilizing the Digital Protocol / ICH M11 CeSHarP: Focus on Mission, Plans, Key Challenges, European Involvement	Panagiotis Telonis, European Medicines Agency	
15:15 – 15:45	Afternoon Networking Break		
15:45 – 17:15	Q4: Regulators Moving to FHIR with support from the Vulcan Accelerator	Hugh Glover, Vulcan Technical Director	
17:15 – 17:30	Closing Remarks	Michael van Campen, Amy Cramer	
ULCÂN HL7 FHIR Burov 18th Ja Royal	/ulcan 2 anuary 2024 Olympic Hotel, Athens	HL7 Working Group Meeting	



## Q1 Panel: Clinical & Translational Research Landscape in Europe

Session Chair: Amy Cramer, Vulcan co-Chair

January 18, 2024







#### Q1.1 Vulcan Background Amy Cramer, Vulcan co-Chair

January 18, 2024

















### Q1.2 Data Standardization Strategy Nick Halsey, European Medicines Agency (EMA)

January 18, 2024





# Background The age of Digitalisation is also the age of the Data-driven decision-making. The creation and adoption of data standards supports these activities Without data standards the collection, processing and management of large volumes of healthcare and medical product data can be difficult, inefficient and costly. This can then divert finite resources away from data analysis and slows the assimilation of new knowledge. The EU medicines big data taskforce report identified the need for a Data standardisation strategy in order support international collaboration and to work with standardisation bodies.

• Creation of new data standards requires significant time and effort of dedicated experts, therefore careful planning and prisonisation is needed

Data Standardisation Strategy

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### Data Standards Strategy | Development

From December 2020 an in-depth analysis has been performed on the overall IT, policies and data standards landscape within the EMRN. A Survey was conducted in March/April 2021 followed by stakeholder workshop in May 2021











#### Interventional studies



A structured clinical trial protocol is being developed by ICH M11, this work should be supported by experts from the EU network to progress its development and include study design & reporting study results. Adopting relevant CDISC standards should be considered for collecting raw data.

- A proof-of-concept pilot is being established to investigate the benefits of analysing and visualising raw data (patient level data in electronic structured format) from clinical trials to support the assessment and learn about the operational, resource and technological needs when analysing raw data.
- Data standards: CDISC Analysis Data Model (ADaM), CDISC Study Data Tabulation Model (SDTM) as well as the Define-XML and Analysis Results Metadata (ARM for Define-XML). Learnings from the pilot will be assessed by documenting practical learnings, including feedback on adoption of relevant CDISC standards for the submission of raw data.
- The development of the ICH M11 structured protocol is being actively supported and a proof of concept implementing FHIR resources developed. Harmonisation work continues under the Vulcan UDP project (ICH M2/M11, HL7, CDISC collaboration).

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#### Structured application form The electronic application form FHIR messages currently being developed should be reviewed to see if they can be extended to support pre-application phase activities and include metadata to run regulatory processes. The eAF/DADI project is implementing FHIR messaging and will be adding additional forms for different procedures over time. The possibility to include presubmission forms will be reviewed towards the end of the year. 2022 Roadmap (Current RBOP scope) GCP ns (April) GVP Variat. dat DADI - Next 25 25









### Q1.3 EU Data Protection Regulations and Implications for Vulcan Sabine Brosch, Data Protection Officer, European Medicines

Sabine Brosch, Data Protection Officer, European Medicines Agency (EMA)

January 18, 2024

ONLINE







	EUROPEAN MEDICINES AGENCY
European Union Data Protection Framework	
European Union Data Protection Regulation (EUDPR) Regulation (EU) 2018/1725 > Applicable to EU institutions, offices, bodies and agencies	
General Data Protection Regulation (GDPR) Regulation (EU) 2016/679 > Applicable to all the individuals within the European Union and the European Economi Area	ic
<ul> <li>National laws</li> <li>Article 9(4) GDPR Member States may maintain or introduce further cond limitations, with regard to the processing of genetic data, biometric data health.</li> </ul>	ditions, including or data concerning
<ul> <li>Guidelines (EDPS and EDPB)</li> <li>Address specific topics and incorporate case law of the European courts and EDPS prior check opinions</li> </ul>	
32 EU Data Protection Regulations and Implications for Vulcan Classified as public by the European Modisines Access	

#### Protecting the "Rights and Freedoms" of natural persons

#### Personal Data Any information relating to an identified or identifiable natural person ('data subject') An identifiable natural person is one who can be identified, directly or indirectly

*by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person* Article 4(1) GDPR



Clinical Care and Clinical Research

#### Special categories Data concerning health

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related to the physical or mental health of a natural person, including the provision of healthcare services, which reveal information about his or her health status Art 4(15) GDPR **Genetic Data** 

relating to the inherited or acquired genetic characteristics of a person which give unique information about the physiology or the health of that person and which result, in particular, from an analysis of a biological sample from the person in question Art 4(13) GDPR

33 EU Data Protection Regulations and Implications for Vulcan





















The European Shortages Monitoring Platform (ESMP)	EUROPEAN MEDICINES AGENCY
<ul> <li>Implementation date: 2 February 2025*</li> <li>Article 13 of Regulation 2022/123 foresees the development of an IT platform to facilitate collection of information on shortages, supply and demand for medicinal products, including information on marketing status and marketing cessations, from both Industry's and Member States' SPOCs</li> <li>Scope: monitoring, prevention and management</li> <li>Crisis: Shortages of medicinal products (within the scope of the relevant list of critical medicines) during a PHE or a major event</li> <li>Preparedness: Actual and/or potential medicines shortages (in a given Member State), that can lead to a Major event or a PHE</li> <li>Before 2020</li> <li>Before 2020</li> <li>Today</li> <li>Before 2020</li> <li>Basence of a centralised monitoring tool</li> <li>SharePoint based Interim solution</li> <li>Shortages, supply and demand during PHE/ME</li> <li>Monitor actual or potential shortages of medicines during a PHE/ME or situations that could lead to PHE/ME</li> <li>Prevent shortages of medicines during a PHE/ME or situations that could lead to PHE/ME</li> </ul>	EUROPEAN MEDICINES AGENCY
43 *Minimum viable product	











#### Q1.5 XpanDH - Expanding Digital Health through a pan-European EHRxF-based Ecosystem Henrique Martins, Associate Professor, ISCTE

January 18, 2024



XpanDH in the light of the EHDS proposal ATHENS DIGITAL WEEK 15-19th January 2024 | Royal Olym Main EHDS articles regarding the EEHRxF Article 6 - European EHRxF Datasets Coding systems and values **EUROPEAN HEALTH DATA SPACE** Technical specifications Article 12 - MyHealth@EU OBJECTIVES Cross-border exchange of health data shall be under the EEHRxF Empower individuals through better digital access to their pe movement by ensuring that health data follow people; Unleash the data economy by fostering a genuine single man modurts: Article 23 - Common specifications Adopt common specifications Shall include: scope; applicability to different categories of EHR systems or functions included in them; version; validity period; normative part; explanatory part, including any relevant implementation guidelines. May include: datasets; coding systems and values; requirements related to data quality; technical specifications, standards and profiles; security, confidentiality, integrity, patient safety and protection of electronic health data; eID GROWTH POTENTIAL OF THE HEALTH DATA ECONOMY HL7 Working Group Meeting EuroVulcan 2 ULCAN 18th January 2024 Royal Olympic Hotel, Athens HL7 HL7 FHIR HL7 FHIR



# Expanding Digital Health through a pan-European EEHRxF-based Ecosystem

XpanDH project supports an expanding ecosystem of individuals and organizations that are developing, experimenting and adopting the European Electronic Health Record Exchange Format (EEHRxF) providing a crucial contribution to the European Health Data Space. It is a 2-year Coordination and Support Action financed by the Horizon Europe Framework Programme.



























Data in	teroperability	CHUTTER EVAluate 2 CHUTTER Read Connect Head Adhere
"The cancer data	ecosystem in Europe should work towards being fully integra	ated in the EU data spaces"
<ul> <li>How to foster Europe?</li> </ul>	interoperability of health data among infrastructu	res and platforms in
How can	we work towards consolidating the cancer data ecosy	vstem in Europe?
• Which dimens EHDS: Legal,	sions of interoperability could your project contrib Organizational, Semantic, or Technical ?	ute to in view of the
What are regulator data inte	e the needs and priority areas that are not covered by t ry framework, where EC support would be needed in r roperability?	the proposed EHDS relation to access to
		European Contimission











Thank you!	
CNECT.H3	
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	European Commission

	European Commission



# Q1.7 What's next in HL7 FHIR for Vulcan Julia Skapik, Chair HL7 International

January 18, 2024



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Implementation Considerations for Electronic Health Data-Enabled Research at Scale

Best Practices and Considerations for Using RWE Data





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04		380	POP	-
80	CAMILA 0.35 MG TABLET	15	POP	-
80	CAMILA 0.35 MG TABS	14	POP	-
87	CAMILA 0.35MG TAB	3	POP	_
88	CAMILA TABS 0.35 MG	1	POP	-
89	CAMRESE TAB	3	OCP	
90	CAMRESE 0.15-0.03-0.01 MG TAB	7	OCP	
91	CAMRESE 0.15-0.03 &0.01 MG ORAL TABLET	36	OCP	_
92	CAMRESE 0.15-0.03 & 0.01 MG TABS	12	OCP	_
93	CAMRESE LO 0.1-0.02 & 0.01 MG ORAL TABLET	7	OCP	
94	CAMRESE LO 0.1-0.02 & 0.01 MG TABS	3	OCP	
95	CAZIANT 0.1/0.125/0.15 -0.025 MG ORAL TABLET	8	OCP	
96	CAZIANT TABLETS 28S	4	OCP	
97	CESIA 0.1/0.125/0.15 -0.025 MG ORAL TABLET	2	OCP	
98	CHATEAL 0.15-30 MG-MCG ORAL TABLET	62	OCP	
99	CHATEAL EQ 0.15-30 MG-MCG ORAL TABLET	11	OCP	
100	CLIMARA PRO 0.045-0.015 MG/DAY TRANS PTWK	1	NOT BIRTH CONTROL	
101	CLIMARA PRO 0.045-0.015 MG/DAY TRANSDERMAL PATCH WEEKLY	46	NOT BIRTH CONTROL	
102	CLIMARA PRO 0.045MG/DAY PATCHES 4'S	9	NOT BIRTH CONTROL	

Data Quality: "Negative"       Test         nasopharynx negative       negative         negative       neative         covid not detected-done       neg         mmc er       negative         covid19 undetected       negative         gative       negative         n e g a t i v e       negative         not-detected       negative         not-detected       negative         not-detected       negative         nw=egative       negative         nume       negative         not-detected       negative         nw=egative       negative us         nume       negative         nume       negative us         negative us       negative us         negative us       negative us         negative       negative us         nume       negative us         nume </th <th>negative rapid test negative report negative rna negative(cvs redbluf negativee negative-pre-op clearance negative-pre-op clearance negatives negatives negative</th> <th>negtive no no detected no detected non detected none detected nonreactive nor detected not detected not detected not detected not detected not detected not detected (grinnell ip) not detected (mac er ) not detected (mmc ip) not detected(immc ip) not detected. not detected(immc ip) not detected. not detected. (immc ip) not detected. not detec</th> <th>HOSTED BY</th>	negative rapid test negative report negative rna negative(cvs redbluf negativee negative-pre-op clearance negative-pre-op clearance negatives negatives negative	negtive no no detected no detected non detected none detected nonreactive nor detected not detected not detected not detected not detected not detected not detected (grinnell ip) not detected (mac er ) not detected (mmc ip) not detected(immc ip) not detected. not detected(immc ip) not detected. not detected. (immc ip) not detected. not detec	HOSTED BY
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Governan Non-mappa	ce: Data Quali ble test results	ty	ATHENS DIGITAL HEALTH Hotel WEEK
Data entry error or PCR result?: 5.9 10.4 79 90 91 107	Location: covid detected(in hospital) covid positive at rush detected- in hospital detected(er immc) detected(in hospital) detected-er visit in-house testing	Lab code: Ldtind Ldtnot meth1 meth1 meth3 meth3 pcrinh	Sample Site: Nasal nasal mid-turbinate <u>naso</u> <u>naso</u> swab in saline nasopharyngeal nasopharyngeal nasopharyngeal (np) nasopharyngeal oropharyngeal
148 265 294 9/13/1945 VULCĂN HL7 FHIR EuroVulc Bth Janu. Royal Oly	Notes: sample was leaking upon rec see <u>diasorin</u> sars-cov-2 ab, ig we are unable to reliably det can 2 ary 2024 mpic Hotel, Athens	eipt. integrity of sa g ermine a result for	mple is questionable. the specimen due to HLT Working Group Meeting HLT FHIR HLT FHIR







![](_page_39_Figure_0.jpeg)

![](_page_39_Figure_1.jpeg)

![](_page_40_Picture_0.jpeg)

#### Q1 Panel: Clinical & Translational Research Landscape in Europe ATHENS DIGITAL HEALTH WEEK Panelists 1. Vulcan Background: Amy Cramer, Vulcan co-Chair 2. Data Standardization Strategy: Nick Halsey (online), European Medicines Agency 3. EU Data Protection Regulations and Implications for Vulcan: Sabine Brosch (online), Data Protection Officer, European Medicines Agency 4. The European Shortages Monitoring Platform (ESMP): Sofia Zastavnik (online), ESMP Product Owner, Supply and Availability of Medicines and Devices, EMA 5. XpanDH - Expanding Digital Health through a pan-European EHRxF-based Ecosystem: Henrique Martins, Associate Professor, ISCTE 6. Digital4Cancer– Landscaping data driven projects and initiatives in cancer – towards data interoperability: Bianca Baluta (online), European Commission 7. What's next in HL7 FHIR for Vulcan: Julia Skapik, Chair HL7 International EuroVulcan 2 HL7 Working Group Meeting VULCAN HOSTED BY 18th January 2024 Royal Olympic Hotel, Athens HL7 HL7 FHIR HL7 FHIR

![](_page_41_Picture_2.jpeg)