

# ICH E2B(R3) Expert Working Group / Implementation Working Group ICH E2B(R3) Guideline: Electronic Transmission of Individual Case Safety Reports (ICSRs)

**Questions and Answers** 

Version 2.5 18 July 2025

# In order to facilitate the implementation of the E2B(R3) Guideline, the ICH Experts have developed a series of Q&As:

## E2B(R3) Q&As Document History

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	val by the ICH Assembly under Step 4

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## **Table of Contents**

PREF	ACE	1
1.	PURPOSES	2
2.	BACKGROUND	2
3.	ESSENTIAL COMPONENTS	2
	ICH E2B(R3) DATA ELEMENTS	
5.	DOCUMENT ATTACHMENT	11
6.	THE ICSR ACKNOWLEDGEMENT TRANSACTION	11
7.	APPENDICES	11
8.	Q&AS MERGED INTO THE IMPLEMENTATION GUIDE	11
9.	ANNEX: Q&AS LINKED TO THE RESPECTIVE SECTIONS OF ICH E2B(R3) GUIDELINE	20

#### **PREFACE**

This Q&A document provides clarifications for the harmonized interpretation of the E2B(R3) IG package and should be reviewed in conjunction with the IG package. This will facilitate the implementation of the electronic transmission of Individual Case Safety Reports (ICSRs) in the ICH regions. The sections of this Q&A document correspond to the organization of the E2B(R3) IG.

Pharmaceutical companies, regulators and vendors are encouraged to submit implementation-related questions to the ICH E2B(R3) EWG/IWG; answers to these questions are developed by the ICH E2B(R3) EWG/IWG in accordance with the ICH consensus process.

Questions concerning the time frame and specific regional requirements not communicated in the E2B(R3) guidance are answered in guidance documents published for each region.

The use of the terminology "upgrading" or "downgrading" in the documents included in the IG package refers to the technical conversion between E2B(R2) and E2B(R3).

Future update to this Q&A document, if any, will be published at ICH web site.

# E2B(R3) Questions and Answers

## 1. Purposes

No Q&A

## 2. Background

No Q&A

## 3. Essential Components

# (# from ver.1.1)	Date of Approval	Questions	Answers	E2B(R3) Data Element
3.2 (002)	November 2014	Is it possible to use NI even if NI is not listed in allowed values? Because, the explanation of NI is that No information whatsoever can be inferred from this exceptional value. This is the most general exceptional value. It is also the default exceptional value.	No, only nullFlavors specified for each element in IG and Q&A document are acceptable.  The value set of nullFlavor in Q&A supersede the value set stated in the IG.	
3.3 (004)	November 2014	Does XML schema define default values for some attributes?	The ISO/HL7 schema files automatically populate certain attributes with a default value, such as unit = '1' for PQ data type and media Type = 'text/plain' for ED data type. The ICSR sender should replace the default value with an appropriate value pertaining to the data being transmitted. For example, use the appropriate UCUM code for representing a unit of measurement for physical quantities (PQ) and media designation for encapsulated data (ED). To help reduce parsing errors, the sender should omit optional data element tags if there is no information to be transmitted. For example, patient age is an optional data element and the sender should omit the entire age observation class if no age value is known.	
3.4 (005)	November 2014	Is there anything senders should consider in creating XML files for ICSRs?	Senders should refer not only to the ICH Implementation Guide and regional Implementation Guides but also its Appendices such as Reference instances, Technical Information and so on.	

3.5 (007)	November 2014	There is no guidance whether case sensitive form or case insensitive form should be used for codes in the ICH E2B(R3) ICSR messages.	In the ICH E2B(R3) ICSR messages, case sensitive form should be used for codes.  Please refer to regional guidance for more information about case sensitivity.
3.6 (008)	November 2014	Use of HL7 nullFlavors requires implementation of very specific business rules for parsing – not necessarily as part of ICSR file validation. ICSR file validation is checking appropriate HL7 nullFlavors by data element (datatype). Backend system parsing rules are different because they affect how data is actually displayed / queried in the database: EX: Date fields with a NI value cannot be parsed to a field structured for date/time.	Support for HL7 nullFlavor values, such as MSK (masked), NI (No Information) and UNK (Unknown) may vary across implementation. Systems should be designed to receive process and re-produce a compliant message utilizing nullFlavors as defined in the ICH E2B(R3) IG.
3.7 (010)	November 2014	A serious case was sent electronically by a company to a Regulatory Authority. Meanwhile, due to follow-up information received at the company, this case is now determined to be nonserious.  a) Should the company send a new message indicating that the case is now non-serious?  b) Should the company send a new message to nullify the case in the Regulatory Authority's database?  c) If the case becomes serious again, should the company send a new message with the same safety report identifier?	<ul> <li>a) Yes, the company should send a new message, updating the previous report with the new information, indicating that the case is now non-serious.</li> <li>b) No, the company should not send a new message to nullify the case in the Regulatory Authority's database.</li> <li>c) Yes, this would be new information, and a follow-up report would be appropriate utilizing the same safety report identifier.</li> </ul>
3.8 (011)	November 2014	If a report is forwarded to a company by a Health Authority, should the company consider that:  a) the Health Authority's causality assessment is at least "possible"?	a) and b) by definition a spontaneous report contains suspected adverse reactions (i.e., a possible causal relationship is suspected but not established). However, there is no universally accepted definition for "possible" in the scale of causality assessment. It is therefore not possible to provide a precise answer to this question. It is up to the

		b) the reporter's causality assessment is also at least "possible"?	company and receiver to define causality assessment method and classify the case-reports accordingly.
3.9 (028)	June 2016	In the ISO 639-2 language code list some languages appear twice with two different codes designated B and T: for instance, Czech is either cze (B) or ces (T) where 'B' indicates 'bibliographic' and 'T' indicates 'terminology'. In such instances is one of these correct (meaning that the other is incorrect) – if so, which, or is either OK?	For those languages where (T) and (B) codes are provided the (T) code should be used in E2B(R3) messages.
3.10 (029)	June 2016	Does data length provided in the IG (e.g., 5AN) represent data length (byte) or apparent number of characters? In UTF-8, surrogate pairs and combining characters have longer data length (byte) than their apparent data length.	Data length provided in the IG represents the apparent number of characters. Please note some languages/characters require more than a single byte for a character.
3.12	June 2018	To use UCUM in E2B(R3), is it required to use a UCUM syntax checking tool in order to ensure that units of measurements are correctly formed?	ICH E2B(R3) standard does not require any UCUM syntax checking tools.
3.13	June 2019	As a regulator, how does one request an ICH Object Identifier (OID) assigned to a region?	ICH M2 is responsible for assigning OID in the ICH name space to the ICH regulators. An information paper about OID can be found at the ICH website, M2 Recommendations & Technical References page: https://www.ich.org/page/m2-recommendations-technical-references/Please contact M2 via ICH Secretariat at <a href="mailto:admin@ich.org">admin@ich.org</a> to request OID assignment.

## 4. ICH E2B(R3) DATA ELEMENTS

#	Data of			E2B(R3)
(# from	Date of	Questions	Answers	Data
ver.1.1)	Approval			Element

		A man started medications before his partner became pregnant. But she has a miscarriage now.  a) Is the ADR a miscarriage?	Following are abbreviated an scenario regarding parent an a) Yes. In this case the A the mother.	D, E, G	
		<ul><li>b) Is the patient of the report the father or mother?</li><li>Is the route of administration how the father took the medicine?</li></ul>	<ul><li>b) The patient should be the</li><li>c) Yes. The route of admit the suspect medication.</li></ul>	ne mother.  inistration should be how the father was given	
		1	Scenario 1: Miscarriage, di	rug administered to Mother	
			Patient (D)	Mother	
			AE (E)	Miscarriage	
			Drug section (G)	Product taken by mother	
			Route of Administration (G.k.4.r.10)	Route administered to mother	
4.1	November		Scenario 2: Miscarriage, di	rug administered to Father	
(009)	2014		Patient (D)	Mother	
			AE (E)	Miscarriage	
			Drug section (G)	Product taken by father	
			Route of Administration (G.k.4.r.10)	Use nullFlavor "UNK" in <b>G.k.4.r.10.1</b> Describe information about father and mother in the narrative	
			Additional Information on Drug (G.k.10.r)	3 (Drug taken by the father)	
				t-feeding infant is exposed to drug(s) perienced adverse events/reactions	
			Patient (D)	Infant/foetus	
			AE (E)	AE experienced by Infant/foetus	
			Drug section (G)	Product taken by mother	
			Route of Administration	This is usually an indirect exposure, such	
			(G.k.4.r.10)	as transmammary	

				Parent Route of Administration (G.k.4.r.11)  For a Parent-child / Foetus Report, Information Concerning the Parent (D.10)	Route administered to mother  Mother's information according to the user guidance for section D	
				Scenario 4: child/foetus exp drug(s) administered to fat	perienced adverse events/reactions through	
				Patient (D)	Child/foetus	
				AE (E)	AE experienced by child/foetus	
				Drug section (G)	Product taken by father	
				Route of admin (G.k.4.r.10)	Use nullFlavor "UNK" in G.k.4.r.10.1 Describe information about father and mother in the narrative	
				Parent Route of Administration (G.k.4.r.11)	Route administered to father	
				Additional Information on Drug (G.k.10.r)	3 (Drug taken by the father)	
				For a Parent-child / Foetus Report, Information Concerning the Parent (D.10)	Father's information according to the user guidance for section D	
4.5 (020)	November 2014	Here is scenario on E.i.4 and E Reaction E.i.4 Sequence Start date Reaction1 01-Feb-2010 Reaction2 03-Feb-2010 Reaction3 -  How to get the blank start dat details. As per the IG, if we have	E.i.5 End date 02-Feb-2010 - 01-Jan-2010 e and end date	event. A blank field for star information is not known to t the decision of whether to le should be left up to the sende to be related (i.e., if event1 clinically reasonable to use relevant, for both events. H	e most accurate information known for each rt date or end date or both is acceptable if the che sender. When a precise date is not available, eave blank or an inferred date for a given event er's clinical judgment. If the events are thought is a sign or symptom of event2), it would be the earliest start date or latest end date, as lowever, a sender should not infer dates unless smale and this rationale should be stated in the	E.i.5

		start date of first reaction and end date of last reaction, the output will not be correct.		
4.8 (024)	November 2014	If a value of test results does not have a suitable UCUM code or a unit (for example International Normalized Ratio, INR) or a unit of test results is unknown, how should the test results be entered?	In such case, senders should enter the value and unit as unstructured data in F.r.3.4.	F.r.3.4
4.9 (026)	November 2014	<ul> <li>a) How should re-administration data be entered after recovery from AE, e.g., G.k.4.r.8 or G.k.4.r repetition?</li> <li>b) When multiple dosage information (G.k.4.r) is available for a drug, which dosage information should be used for G.k.8?</li> <li>c) Is it possible to identify the readministration after drug is discontinued or after drug is temporarily stopped?</li> </ul>	Answers to question a) through c) are summarized into the scenarios below:  The data element (G.k.8) is not a repeatable data element and captures the action taken with the <i>suspect</i> drug as a result of the reaction(s) / event(s) as provided by the reporter of the information. This data element is a within the 'parent' instance of G.k Drug and only one action can be captured for each instance of G.k Drug.  Because this data element is not associated with its own 'time' element, the relevant 'time' for G.k.8 Action(s) Taken with Drug is the onset of the reaction. Analysis of the dosage information records in G.k.4 in combination with start date of the reaction/event in E.i.4 – Date of Start of the Reaction/Event — would enable the receiver of the information to determine the relevant G.k.4 Dosage Information record associated with the reaction(s)/event(s).  The information related to the outcome of the reaction(s)/event(s) is noted in E.i.7 - Outcome of Reaction / Event at the Time of Last Observation. If the reaction Recur on Re-administration? would be set to 2 (rechallenge was done, reaction did not recur) and E.i.7 - Outcome of Reaction / Event at the Time of Last Observation would be set to 1 = recovered/resolved.  An example is provided in Appendix A.	E.i.4, E.i.7, G.k.4.r, G.k.8, G.k.9.i.4
4.10 (027)	November 2014	Clarification was requested for usage on coding reports of possible counterfeit drugs.	"1" should be selected for both suspected and confirmed counterfeit products in G.k.10.r and the appropriate MedDRA term should be selected for E.i.2.1b. Any explanatory information should be included in case narrative. If new information is received to confirm the product is not a	E.i.2.1b, G.k.10.r, H.1, H.3.r

			counterfeit, then G.k.10.r should be changed appropriately as follow up. If the product is confirmed as a counterfeit, the sender should use the appropriate MedDRA code in H.3.r and explain in narrative.	
4.15 (035)	June 2016	What is an appropriate age for newborn if an adverse drug reaction/event has been developed during pregnancy but just observed at time of delivery?	Section D.2 provides several options for reporting patient age information. The sender should select the most appropriate field based on the information provided. Based on the information provided in the question, field D.2.3 may be the most appropriate field to report the patient age.	D.2
4.16 (036)	June 2016	What is an appropriate value for "G.k.9.i.4 Did reaction recur on re-administration?" if adverse drug reaction/event on readministration is not exactly the same as the one on previous administration?  Ex) E.i.2.1 Reaction/event: liver disorder  Re-administration: Aspartate aminotransferase increased	Medical judgment should be used to assess the conceptual similarity of the events. MedDRA codes do not need to be identical. [Refer to the most recent ICH MedDRA Term Selection: Points To Consider.]	E.i.2.1, G.k.9.i.4
4.17	November 2016	Certain units that are commonly used to express concentration or strength of pharmaceutical products are included in the UCUM Mass Concentration Units but are missing from the E2B constrained term list. An example is mg/mL that might be used in E2B(R3) data element G.k.2.3.r.2b Strength (unit). Is it possible to add mg/mL to the terms available for strength units in ICSR XML messages?	The unit "mg/mL" is now available on the constrained E2B Code List #25 (file name E2B CL25 ich-dose-strength-unit.xml). The IWG will evaluate other UCUM units, singly and in combination, for possible inclusion in the E2B constrained units list.	G.k.2.3.r.2b
4.21	June 2018	Please clarify the conformance of data element F.r.3.4.	Optional, but required when all the following conditions are met:    F.r.2 - Test Name	F.r.3.4

		For vaccines given according to a schedule of multiple doses, how should the ICSR message capture which dose (sequence number) in the schedule that was given?	Information on the suspected dose serecorded in G.k.4.r.8 Dosage Text w. E.g., 1st dose, Dose #2, Dose no. in Information concerning unsuspected D.8.r Relevant Past Drug History. When information regarding past dose concerning the suspected dose shoul Please refer to regional guidance reporting.	ith alpha series: 3 d dose s ses is un d be rec	chedule should be recorded in available, only the information orded.	D.8.r G.k.1 G.k.2 G.k.4.r G.k.4.r.8
			Scenario 1: Patient received two dose first dose is not suspected and the second	ond dose	is suspected	
			Data element	k / r	Value	
			Characterization of Drug Role (G.k.1)	k = 1	1 (Suspect)	
4.00	January		Drug Identification (G.k.2)	k = 1	Second vaccine	
4.23	2023		Dosage and Relevant Information (G.k.4.r)	k = 1	Information related second vaccine	
			Dosage Text (G.k.4.r.8)	k = 1	E.g., 2nd dose	
			Relevant Past Drug History (D.8.r)		First vaccine	
			Scenario 2: Patient received two doses suspected			
			Data element	k / r	Value	
			Characterization of Drug Role (G.k.1)	k = 1	1 (Suspect)	
			Drug Identification (G.k.2)	k = 1	First and second vaccine	
			Dosage and Relevant	k = 1	Information related first	
			Information (G.k.4.r)	r = 1	vaccine	
			Dosage Text (G.k.4.r.8)	k = 1 $r = 1$	E.g., 1st dose	
			Dosage and Relevant	k = 1	Information related second	

Information (G.k.4.r)	r = 2	vaccine
Dosage Text (G.k.4.r.8)	k = 1 $r = 2$	E.g., 2nd dose
cenario 3: Patient received two doses aspected	s of diffe	erent vaccines and both doses are
Data element	k/r	Value
Characterization of Drug Role (G.k.1)	k = 1	1 (Suspect)
Drug Identification (G.k.2)	k = 1	First vaccine
Dosage and Relevant Information (G.k.4.r)	k = 1	Information related first vaccine
Dosage Text (G.k.4.r.8)	k = 1	E.g., 1st dose
Characterization of Drug Role (G.k.1)	k = 2	1 (Suspect)
Drug Identification (G.k.2)	k = 2	Second vaccine
Dosage and Relevant Information (G.k.4.r)	k = 2	Information related second vaccine
Dosage Text (G.k.4.r.8)	k=2	E.g., 2nd dose

### 5. DOCUMENT ATTACHMENT

No Q&A.

#### 6. THE ICSR ACKNOWLEDGEMENT TRANSACTION

No Q&A.

#### 7. APPENDICES

No Q&A.

## 8. Q&As MERGED INTO THE IMPLEMENTATION GUIDE

These Q&As were incorporated into the documents included in the IG package (October 2023, Prague).

# from ver.2.4 (# from ver.1.1)	Date of Approval	Questions	Answers	E2B(R3) Data Element
3.1 (001)	November 2014	Does ICH data type "AN" accept Space?  Does ICH data type "AN" accept all characters listed in UTF8?	In principle, ICH "AN" data type accepts all characters, including space and some special characters listed in UTF8, but some characters such as > and < are not allowed with XML message. So please refer to section 3.6 of the ICH ICSR Implementation Guide for further clarification. However, ICH data elements with the ICH "AN" data type may not always have a one-to-one mapping with the data type in ISO/HL7 27953-2 ICSR message standard. The representation of the data can vary across implementations. For Example, ICH F.r.4 Normal Low Value and ICH F.r.5 Normal high Value. These data elements specify use of the ICH AN data type; however, the ISO/HL7 27953-2 message specification restricts allowable XML schema values using the HL7 xsi:type code designation Physical Quantity (PQ). The HL7 PQ data type is expressed as two XML schema attributes: value and unit; value has HL7 REAL data type and units are expressed as UCUM codes. For the use and information of the HL7 data type, please refer to the ISO/HL7 27953-2 Informative Annex F: <i>HL7 Data Type Specification</i> .	

			In the Business Rule section for the related data elements, the ICH ICSR Implementation Guide provides information and examples for representing the ICH AN data type with HL7 data type in transmission.	
(003)	November 2014	The lists of UCUM couldn't be found. Which website should be referred to?	Information about UCUM, including link to download the specification is available at: <a href="http://unitsofmeasure.org/trac/">http://unitsofmeasure.org/trac/</a>	
(006)	November 2014	When 'Z' was added at the end of time values as described in Appendix II (C) ISO 8601 Compliant XML Examples in the IG ver. 5.01, parse error occurred. Can senders use the representations of date and time such as 199411051315Z, 20090601231105.5Z, 20090601231105Z, 200906012331Z or 2009060123Z?	No, the examples described in Appendix I(C) are inappropriate. 'Z' should not be added at the end of time values.  XML Schema defines the Time Zone value as <xs:pattern value="[0-9]{1,8} ([0-9]{9,14} [0-9]{14,14}\.[0-9]+)([+ -][0-9]{1,4}))?"></xs:pattern> , and Appendix II (B) Time Zone in the IG states that "The syntax is 'CCYYMMDDHHMMSS.UUUU[+ -ZZzz]' where digits can be omitted from right side to express less precision".	
(012)	November 2014	There are several references to M5 Identifiers in the E2B R3 Implementation Guide, please confirm these still apply?	All references to M5 Identifiers in the Implementation Guide and associated technical documents should be replaced with ISO IDMP Terms and Identifiers.	
(013)	November 2014	It is not assumed that 'In exceptional cases where the country of the primary source is not available to the sender' described in User Guidance of C.2.r.3.  Is there any case that E.i.9 is used as alternative of Reporter's Country code?	No, it is not assumed that the country of the primary source is not available to sender and there is not any case that E.i.9 is used as alternative of Reporter's Country Code.  In this context, the description in User Guidance of C.1.1 'in exceptional circumstances where the country of primary source is unknown, the country where the reaction occurred (E.i.9) should be used to indicate the country code' is also inappropriate.  A change of E.i.9 never change Sender's (case) Safety Report Unique Identifiers.	C.1.1, C.2.r.3, E.i.9
4.2 (014)	November 2014	How can I identify the primary source and the reporter qualification when an ICSR is forwarded by Health Authorities with minimal or no information on the primary source?	If no information on the primary source is available, section C.2.r should identify the Health Authority as the primary source.  Field C.2.r.4 'Qualification' should be populated with nullFlavor "UNK".  Additionally, field C.1.3 'Type of report' may be populated with a code of "4" (Not available to sender (unknown), if appropriate.	C.1.3, C.2.r

The conformance of C.1.5 is "Required". Even if a sender has only first received information and no follow-up information, must a sender enter date in this field?  The Business Rule(s) of C.2.r.3 Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor". However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  The Conformance of C.1.5 is "Required". Even if a sender has only first received information, the date of first received information, the date of first received information and the date of most recent information are same, so a sender enters the date correspond to C.1.4 in C.1.5.  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9 only allows a two character country code.  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9 only allows a two character country code.  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.			TT1 C C C 1.5 :	X7 1 1 .	0.1.4
November 2014   first received information and no follow-up information, must a sender enter date in this field?					
follow-up information, must a sender enter date in this field?  The Business Rule(s) of C.2.r.3 Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor". However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  Contact the date correspond to C.1.4 in C.1.5.  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9 C.2.r., E.i.9  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.	4.3	N 1 2014			C.1.5
center date in this field?  The Business Rule(s) of C.2.r.3 Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor".  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards  Compatibility Recommendations (BFC) ver. 2.00.  November 2014  November 1016  November 2014  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.	(015)	November 2014			
The Business Rule(s) of C.2.r.3 Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor". However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3? NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9 C.2.r, E.i.9  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9  C.2.r, E.i.9  No, the description of Business Rule(s) of C.2.r.3 is inappropriate. E.i.9  C.2.r, E.i.9  D.1  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.				enters the date correspond to C.1.4 in C.1.5.	
Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor".  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  Reporter's Country Code in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in the IG ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in the IG ver. 5.01 element unless E.i.9  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.				N 4 1 1 1 1 1 1 P 1 P 1 () CG2 2 1 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1	G 2
ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor".  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  Ver. 5.01 states that "When C.2.r.5 is populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor".  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
November 2014   Populated '1', nullFlavor is not allowed in this data element unless E.i.9 is populated without a nullFlavor".   However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred.   Can senders use nullFlavor in C.2.r.3?				only allows a two character country code.	E.1.9
Allowed in this data element unless E.i.9 is populated without a nullFlavor". However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  Allowed in this data element unless E.i.9 is populated without a nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
November 2014   E.i.9 is populated without a nullFlavor". However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?   NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.   November 2014   November 2014   E.i.9 is populated without a nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?   The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
nullFlavor".  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred.  Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards  Compatibility Recommendations (BFC) ver. 2.00.  November 2014  November 2014  November 2014  November 2014					
However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  However nullFlavor is not allowed in E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.	(016)	November 2014			
E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  E.i.9 Identification of the Country Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  Where the Reaction / Event Occurred. Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
Can senders use nullFlavor in C.2.r.3?  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  Can senders use nullFlavor in C.2.r.3?  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  November 2014  NullFlavor value for D.1 stated in IG ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  The business rule for ICH D.1. Patient (name or initial) concerning the use of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.					
ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  Ver. 5.01 doesn't match what is stated in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  of allowable null flavor values is incomplete. Senders should refer to table in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.			Can senders use nullFlavor in C.2.r.3?		
in Appendix I (B) Backwards and Forwards Compatibility Recommendations (BFC) ver. 2.00.  in Appendix I (B) Backwards and guidance concerning use of additional null flavor values for D.1., which include the use of: MSK, ASKU, NASK, UNK value options.			NullFlavor value for D.1 stated in IG	The business rule for ICH D.1. Patient (name or initial) concerning the use	D.1
Forwards Compatibility guidance concerning use of additional null flavor values for D.1., which Recommendations (BFC) ver. 2.00. include the use of: MSK, ASKU, NASK, UNK value options.		N 1 2014	ver. 5.01 doesn't match what is stated	of allowable null flavor values is incomplete. Senders should refer to table	
Forwards Compatibility guidance concerning use of additional null flavor values for D.1., which Recommendations (BFC) ver. 2.00. include the use of: MSK, ASKU, NASK, UNK value options.			in Appendix I (B) Backwards and	in section 5.6.2 nullFlavour for Fields Required in E2B(R3) and follow	
November 2014 Recommendations (BFC) ver. 2.00. include the use of: MSK, ASKU, NASK, UNK value options.			Forwards Compatibility		
I III I I November III I I I I I I I I I I I I I I I I I	(015)		Recommendations (BFC) ver. 2.00.		
The TO currently states that the	(017)	November 2014	The IG currently states that the	*	
nullFlavor value allowed is MSK and					
the BFC states that the nullFlavor			the BFC states that the nullFlavor		
values allowed are MSK, ASKU,			values allowed are MSK, ASKU,		
NASK and UNK.					
Appendix I (B) Backwards and The business rule for D.7.1.r.3 or D.10.7.1.r.3 Continuing concerning the D.7.1.r.3,				The business rule for D.7.1.r.3 or D.10.7.1.r.3 Continuing concerning the	D.7.1.r.3,
Forwards Compatibility use of allowable null flavor values is incomplete. D.10.7.1.r.3					
Recommendations (BFC) ver. 2.00 MSK, ASKU, NASK and UNK are allowed for D.7.1.r.3 and			1 3		
explains that "To upgrade to E2B(R3), D.10.7.1.r.3.			` ′		
'Continuing (patient or parent					
(018) November 2014 medical history)' (i.e., B.1.7.1d or Senders should follow the guidance of upgrading to E2B(R3) or	(018)	November 2014		Senders should follow the guidance of upgrading to E2B(R3) or	
B.1.10.7.1d in E2B(R2)) is provided   downgrading to E2B(R2) in section 5.6.3 nullFlavour for Optional Codes	()		• / ` ` ·		
with value '3' (unknown) in E2B(R2), and Dates concerning use of the nullFlavour UNK for D.7.1.r.3 or			` // •		
the corresponding field should be D.10.7.1.r.3.					
provided in E2B(R3) with the					
nullFlavour (UNK)".					

		And the BFC also explains that "To downgrade to E2B(R2), 'Continuing (patient or parent medical history)' (i.e., D.7.1.r.3 or D.10.7.1.r.3 in E2B(R3)) has null flavor (UNK) in E2B(R3), the corresponding field in E2B(R2) should be provided with value '3' (unknown)".  However, The IG currently states that the nullFlavor values allowed are MSK, ASK and NASK.	This correction is reflected in the BFC version 2.01 (modified in November 2014).	
4.4 (019)	November 2014	About E2B(R3) data element: E.i.3.2 Seriousness Criteria at Event Level,  a) How to describe "unknown" and "not serious"? What is allowed value for this data element?  b) How to describe allowed values and "left blank" in XML?	<ul> <li>a) E.i.3.2 are mandatory elements and False is not a value allowed for this data element. This mandatory data element should either be 'true' or nullFlavor= 'NI'.  When the information is unknown or the event is not serious, "NI" should be populated.</li> <li>b) "Left blank" if not serious using the nullFlavor "NI".  All 6 criteria in E.i.3.2 should be included in XML every time (even if a report is non serious).  The following is an XML example.  </li> <li><value nullflavor="NI" xsi:type="BL"></value></li> </ul>	E.i.3.2
(021)	November 2014	Test Result (code): ICH document states—"Optional, but required if F.r.2 is populated, and F.r.3.2 and F.r.3.4 is not populated". Whereas, EU implementation guide says—"Mandatory if F.r.2.2b is populated, and F.r.3.2 or F.r.3.4 is not populated.". Similar discrepancy exists for F.r.3.2 and F.r.3.4. The explicit meaning of "OR" / "AND" used in this needs to be clarified.	The conformance of F.r.3.1 is clarified as follows.  Optional, but required if F.r.2 is populated, and neither F.r.3.2 nor F.r.3.4 is populated".	F.r.2, F.r.3.1, F.r.3.2, F.r.3.4
4.6 (022)	November 2014	How are the nullFlavors 'NINF' and 'PINF' implemented in ICH E2B(R3)?	When empty data elements are transmitted, nullFlavors are used to <i>code</i> the reason for the lack of data in a standardized manner. This allows for the creation of valid messages containing mandatory elements without	F.r.3.2

element ICH E2B(R3) <i>F.r.3.2 Test Result</i> , and only wh describes a range (e.g., data type IVL<>) with an (unk For example, the concept of 'equal or greater to 3' can be the range from '3' to 'positive infinity', e.g., <i>any</i> (unk greater than 3.	known) infinity. e represented as
User Guidance of F.r.3.2 Test Result (value/qualifier) in the IG ver. 5.01 states that "A qualifier symbol can be added to the value when appropriate. The supported qualifiers are 'greater than', 'less than', 'greater than or equal to' and 'less than or equal to'. However allowed values are Numeric and nullFlavor (NINF and PINF). Can senders add a qualifier symbol (<, >, ≤, ≥)?  November 2014  User Guidance of F.r.3.2 Test Result (value/qualifier) in the IG ver. 5.01 states that "A qualifier symbol can be added to the value when appropriate. This data element captures the value (amount) for the test message, this data element is represented in HL7 IVL_PC is a composite data type with multiple attributes. "(PINF)" and "Negative Infinity (NINF)" nullFlavors are examples for test results with exact value, greater or leavable. Test Result = 10 (mg/dl)    Value xsi:type="IVL_PQ"> <center th="" un<="" unit="10" value="10"><th>at result. In ICSR Q data type which Positive Infinity e used to express vely. Followings ess than a specific  mg/dl"/&gt;</th></center>	at result. In ICSR Q data type which Positive Infinity e used to express vely. Followings ess than a specific  mg/dl"/>
Test Result <= 10 (mg/dl) <a href="mailto:value"></a> <b style="IVL PQ"> &lt; low nullFlavor= value="10" unit="mg/dl" inclusive="true"/&gt;  Test Result &gt; 10 (mg/dl)  <a href="mailto:value"></a> <b style="IVL PQ"> &lt; low value="10" inclusive="false"/&gt;&lt; high nullFlavor="PINF"/&gt;</b></b>	unit=" <b>mg/dl</b> "

		The E2B IG implies the free text field	Test Result >= 10 (mg/dl) <a href="Yellow value" th="" value="" value"="" value<="" yellow=""  =""><th>G.k.7.r.1,</th></a>	G.k.7.r.1,
(025)	November 2014	G.k.7.r.1 is optional, however the business rules for G.k.7.r.2b. implies the use of a nullFlavor is mandatory.	nullFlavor.	G.k.7.r.2b
4.11 (030)	June 2016	When retransmitting an ICSR received from another sender such as a regulatory authority, partner company, or other source, which reporter should be marked as 'Primary Source for Regulatory Purposes' (field C.2.r.5)?	As mentioned in the E2B(R3) implementation guide, the primary source of the information is the person who provided the facts about the ICSR. In case of multiple sources, the 'Primary Source for Regulatory Purposes' (C.2.r.5) is the person who first reported the facts to the original sender, not retransmitter.  The primary source should be distinguished from senders and retransmitters. Information on the sender and retransmitters is captured in section C.3. When retransmitting an electronic ICSR received from another sender, such as a regulatory authority, partner company, or other source in E2B format, the Primary Source information in the initial transmission should reflect the reporter with first-hand information on the case and this should not be changed.  The reporter identified as 'Primary Source for Regulatory Purposes' in the original transmission should remain unchanged in all subsequent retransmission of the case.	C.2.r.5, C.3
(031)	June 2016	The conformance of D.8.r.1 Name of Drug as Reported is "Required" and the business rule states that "nullFlavor = NA" should be used when there is no previous exposure to a drug or vaccine and no other nullFlavor is allowed. Drug or vaccine exposure history may be unknown in most cases, but nullFlavor = UNK is not allowed in	The conformance of D.8.r.1 in the current Implementation Guide is inappropriate. D.8.r Relevant Past Drug History can be left blank when no information is obtained.  Technically, D.8.r.1 is required by the schema if any data element in section D.8.r is used. Therefore, the conformance of D.8.r.1 should be interpreted as Conditionally Required.  NullFlavor = UNK is allowed when no information is available but need to enter D.8.r.1.	D.8.r.

		this field. How should sender report such cases?		
4.12 (032)	June 2016	Which data element (F.r.3.4 Result unstructured data or F.r.6 Comments) is applicable for test results such as comments on CT, MRI, or radiogram?	Field F.r.6 is reserved for comments made by the reporter about the results of tests and procedures.  Unstructured findings from tests and procedures such as CT, MRI, radiogram, etc. should be provided as free text in field F.r.3.4.	F.r.3.4, F.r.6
4.13 (033)	June 2016	The mother's drug exposure has started prior to her pregnancy. Is "G.k.6 Gestation period at time of exposure" necessary to be populated on the child/foetus report and/or mother report?	It is appropriate to use G.k.6 to capture the earliest exposure during pregnancy, a clinical judgment should be used to choose the most appropriate value/unit.	G.k.6
4.14 (034)	June 2016	Is "D.2.2.1 Gestation Period When Reaction / Event Was Observed in the Foetus" necessary in the foetus report when drug was taken by father?	In a foetus report, regardless the exposure from father or mother, the foetus age information should be provided in D.2.2.1. Information concerning the parent should be provided in section D.10.	D.2.2.1, D.10
5.1 (037)	June 2016	The codesystem versions for the E2B code lists used in the ICH E2B(R3) reference instances are old compared to the latest version of the E2B code lists. Should a sender update the codesystem version appropriately?	Yes, a sender should update the codesystem version in ICSR messages (xml files) for submission. Acceptable codesystem version(s) are designated by regulatory authorities in each region.	
3.11 (038)	June 2016	ISO 3166 Part 1 (alpha-2) country codes are provided in the ISO web site.  https://www.iso.org/obp/ui/#home There are some categories like "Officially assigned codes" or "Other code types". Does ICH accept "Officially assigned codes" only? Note: "EU" is categorized in "exceptionally reserved"	IG specifies use of ISO 3166 Part 1 (alpha-2). ISO 3166 Part 1 (alpha-2) supports use of country codes in E2B(R3) messages. This includes "Officially assigned" country codes plus "EU" in the "Exceptionally reserved" category.  The "Unassigned" category should not be used. "Transitionally reserved", "Indeterminately reserved" and "Formerly used" categories may be used when appropriate, e.g., for legacy data.	N, C to H
4.18	June 2017	How should "Decade" be represented in data element D.2.2b Age at Time of Onset of Reaction / Event (unit) and D.10.2.2b Age of Parent (unit)? There is a discrepancy between the IG	{Decade} in the IG should not be used. E2B(R3) EWG/IWG consulted with UCUM and preferred notation is "10.a". The code list #26 has been updated accordingly.	D.2.2b D.10.2.2b

		Value allowed and the code list #26,		
		which one should be used?		
4.19	June 2018	The data elements, F.r.4 Normal Low Value and F.r.5 Normal high Value, specify use of the ICH AN data type. However, an error is occurred by some alphanumeric characters entered in these data elements. Is it possible to enter alphanumeric characters in these data elements?	While IG indicates data type 50AN and Value Allowed free text, value should be transmitted as two XML attributes: value and unit. Use only numeric data in value and alphanumeric in unit as currently documented in the Business Rule(s) section of data elements F.r.4 and F.r.5.	F.r.4, F.r.5
4.20	June 2018	Please clarify which nullFlavour is allowed for data element D.6 'last menstrual period'. The data element description for D.6 allows only 'MSK' as a nullFlavor. But the table of definitions for nullFlavors (IG section 3.3.6) provides the following example for the value 'NA': last menstrual period for a male'.	Only MSK is allowed nullFlavor for D.6.	D.6
4.22	June 2019	There is inconsistency regarding a data entry rule between ICH OID and Business Rule(s) of D.1.1.1 – D.1.1.4. For example, the ICH OID of D.1.1.4 specifies the ICH code list #4 and the numeric code "4" should be entered according to the list. However, the Business Rule(s) of D.1.1.4 is described as <code code="investigation" codesystem="2.16.840.1.113883.3.989.2.1.1.4"></code> . This looks as if a sender is required to enter a kind of word, and not a numeric code. Which way of data entry is appropriate for these data elements?	A numeric code listed in the ICH code list #4 is required to be entered for D.1.1.1 – D.1.1.4. For further information, refer the X-path described in Appendix I(G) Technical Information version 1.02 and Reference Instances version 3.1.	D.1.1.1 – D.1.1.4

		If date/time is provided without	No, do not make this assumption. If date/time is provided as UTC exactly	
		timezone offset can I assume that it is	it would be expressed with a zero offset e.g.:	
		UTC time?		
7.1	I 2017		CCYYMMDDHHMM+0	
7.1	June 2017		CCYYMMDDHH+0	
			Note: This may need to be taken into consideration during data	
			migration/conversion from E2B(R2) source data.	

## 9. ANNEX: Q&As linked to the respective Sections of ICH E2B(R3) Guideline

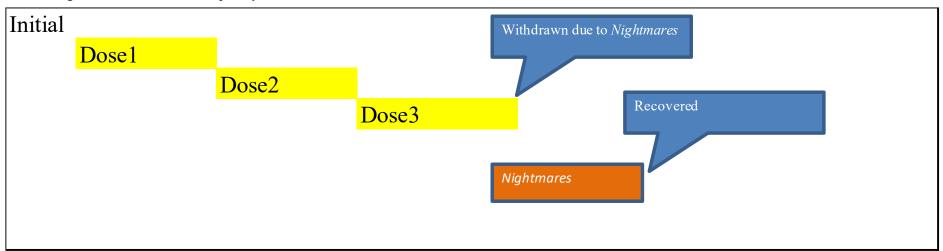
Sections of ICH E2B(R3) Guideline	Introduction	1: Purpose	2: Background	3: Essential Components	3.4: ICH E2B(R3) DATA ELEMENTS	3.5 DOCUMENT ATTACHMENTS	4.0 THE ICSR ACKNOWLEDGEMENT TRANSACTION	APPENDICES	Other ICH Guidelines
1. Purpos	se								
2. Backgr	ound								
	al Components	<u>S</u>		2.2.6					
2				3.3.6					
3								I(A)	
4								I (D)	
				2.2.2				I (G)	
5				3.3.2					
6				3.3.6					
9				3.2.3					
10				3.3.7					
13	B(DA) D (E)			3.2.2					
1	2B(R3) DATA	ELEMENTS		I	D.F.G				
1					D,E,G				
5					E.i.4,				
					E.i.5				
8					F.r.3.4				

Sections of ICH E2B(R3) Guideline	Introduction	1: Purpose	2: Background	3: Essential Components	3.4: ICH E2B(R3) DATA ELEMENTS	3.5 DOCUMENT ATTACHMENTS	4.0 THE ICSR ACKNOWLEDGEMENT TRANSACTION	APPENDICES	Other ICH Guidelines	
9					E.i.4, E.i.7,					
					G.k.4.r,					
					G.k.8,					
					G.k.9.i.4					
10					E.i.2.1b,					
					G.k.10.r,					
					H.1,					
					H.3.r					
15 16					D.2					
16					E.i.2.1,				MedDRA PTC	
					G.k.9.i.4					
17					G.k.2.3.r.2b					
21					F.r.3.4					
23					D.8.r					
					G.k.1					
					G.k.2					
					G.k.4.r					
F DOCT					G.k.4.r.8					
	MENT ATTAC		T TD ANG A CT	LON						
		VLEDGEMEN'	I IRANSACT	ION						
/. APPEN	7. APPENDICES									

## Appendix A

Example for Q&A #4.9

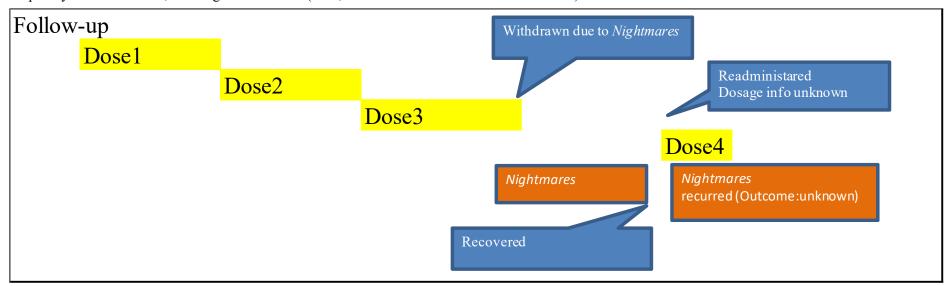
Consider a patient starting a drug for smoking cessation. The dose is titrated upwards over 2 weeks. After 4 weeks of use, the patient has onset of nightmares. As a result, the drug is withdrawn and subsequently the reaction/event is resolved.



Parent Element		Parent Value	Child Element		Child Value
C.1.5 Date of Most Recent Information		February 2 <sup>nd</sup>			
for This Report					
G.k.2 Drug Identification	k=1	'QuitSmoking'			
G.k.8 Action(s) Taken with Drug	k=1	'drug withdrawn'			
				k=1,	January 1st: 0.5mg daily, orally, x 7 days
				r=1	
			G.k.4.r Dosage and	k=1,	January 8 <sup>th</sup> : 1mg daily, orally, x 7 days
			Relevant Information	r=2	
				k=1,	January 15 <sup>th</sup> -29 <sup>th</sup> :1mg twice daily, orally (stopped)
				r=3	
			G.k.9.i Drug-		January 29th: onset of (E.i.1) = Nightmares;
			reaction(s) / Event(s)	i=1	(E.i.7=1-Recovered/Resolved)
			Matrix		

### **Follow-up ICSR:**

Subsequently two weeks later, the drug re-introduced (dose, duration and action taken are unknown) and the reaction/event recurred.



Parent Element		Parent Value	Child Element		Child Value
C.1.5 Date of Most Recent		March 15th			
Information for This Report	I.				
G.k.2 Drug Identification	k= <b>1</b>	'QuitSmoking'			
G.k.8 Action(s) Taken with	k= <b>1</b>	'Unknown'			
Drug					
				k=1, r=1	January 1 <sup>st</sup> : 0.5mg daily, orally, x 7 days duration
			G.k.4.r Dosage and Relevant Information	k=1, r=2	January 8 <sup>th</sup> : 1mg daily, orally, x 7 days duration
				k=1, r=3	January 15 <sup>th</sup> -29 <sup>th</sup> : 1mg twice daily, orally (stopped)
				k=1, r=4	February 13 <sup>th</sup> : unknown, unknown
			G.k.9.i Drug-reaction(s) / Event(s) Matrix	i=1	January 29 <sup>th</sup> : onset of (E.i.1) = <i>Nightmares</i> ; G.k.9.i.4 = 1 yes - yes (rechallenge was done, reaction recurred); (E.i.7=0-Unknown)