

1 4 August 2016
2 EMA/873138/2011 Rev 2* Draft for public consultation

3 **Guideline on good pharmacovigilance practices (GVP)**
4 **Module VI – Management and reporting of adverse reactions to medicinal**
5 **products (Rev 2)**

Date for coming into effect of Revision 1	16 September 2014
Draft Revision 2* finalised by the Agency in collaboration with Member States	15 July 2016
Draft Revision 2 agreed by the European Risk Management Facilitation Group (ERMS FG)	26 July 2016
Draft Revision 2 adopted by Executive Director	4 August 2016
Release for public consultation	8 August 2016
End of consultation (deadline for comments)	14 October 2016
Anticipated date for coming into effect after finalisation	Within 6 months of the announcement by the Agency, once the functionalities of the EudraVigilance database specified in Art. 24(2) of Reg. (EC) No 726/2004 are established

6 * **Note:** Revision 2 contains the following:

- 7 - Update on the electronic reporting modalities of ICSRs under the new ICH-E2B(R3) format;
8 - Update on ICSRs reporting, following-up, duplicate detection, data quality management, in line
9 with the provisions in Art. 24 of Reg. (EC) No 726/2004, Art 107 and 107a of Dir. 2001/83/EC;
10 - Update on the validation of ICSRs based on patients and reporters identifiability;
11 - Update on the management of ICSRs described in the scientific literature;
12 - Update on the collection of information on patient's age;
13 - Guidance on the management of suspected adverse reactions reported through medical enquiry
14 and product information services;
15 - Guidance on the management of reports from post-authorisation efficacy studies;
16 - Transfer of the guidance on Emerging Safety Issue to GVP Module IX;
17 - Editorial amendments to align the format with other GVP Modules.
18

Comments should be provided using this [template](#). The completed comments form should be sent to gvp@ema.europa.eu

19 **Note for public consultation:**

20 The public consultation is restricted to the revised texts or deleted texts highlighted in "track changes"
21 mode. However, if revisions or deletions impact or contradict other existing texts, comments on such
22 non-highlighted texts will be processed and taken into account.

23 See websites for contact details



24 **TABLE OF CONTENTS**

25	VI.A. Introduction	6
26	VI.A.1. Scope	6
27	VI.A.2. Definitions and terminology	6
28	VI.A.2.1. Adverse reaction	6
29	VI.A.2.1.2. Overdose, off-label use, misuse, abuse, occupational exposure, medication error, 30 falsified medicinal product.....	7
31	VI.A.2.2. Medicinal product, active substance, excipient	8
32	VI.A.2.3. Primary source.....	9
33	VI.A.2.4. Seriousness	9
34	VI.A.2.5. Individual case safety report (ICSR)	10
35	VI.A.2.6 Nullflavors	10
36	VI.B. Structures and processes	10
37	VI.B.1. Collection of reports	11
38	VI.B.1.1. Unsolicited reports.....	11
39	VI.B.1.1.1. Spontaneous reports.....	11
40	VI.B.1.1.2. Literature reports	12
41	VI.B.1.1.3. Reports from other sources (e.g. general news or other media).....	12
42	VI.B.1.1.4. Information on suspected adverse reactions from the internet or digital media.	13
43	VI.B.1.2. Solicited reports	13
44	VI.B.2. Validation of reports	14
45	VI.B.3. Follow-up of reports	16
46	VI.B.4. Data management	17
47	VI.B.5. Quality management	17
48	VI.B.6. Special situations	18
49	VI.B.6.1. Use of a medicinal product during pregnancy or breastfeeding	18
50	VI.B.6.2. Use of a medicinal product in a paediatric or elderly population.....	19
51	VI.B.6.3. Reports of overdose, abuse, off-label use, misuse, medication error or occupational 52 exposure	19
53	VI.B.6.4. Lack of therapeutic efficacy	20
54	VI.B.7. Reporting of individual case safety reports (ICSRs)	21
55	VI.B.7.1. Reporting time frames	21
56	VI. B.7.2 Report nullification	22
57	VI.B.7.3. Amendment report	22
58	VI.B.8. Reporting modalities.....	22
59	VI.C. Operation of the EU network	24
60	VI.C.1. Reporting rules for clinical trials and post-authorisation studies in the EU.....	24
61	VI.C.1.1. Reporting rules for clinical trials	25
62	VI.C.1.2. Reporting rules for non-interventional post-authorisation studies, compassionate 63 use and named patient use	26
64	VI.C.1.2.1. Non-interventional post-authorisation studies	27
65	VI.C.1.2.2. Compassionate use and named patient use.....	28
66	VI.C.2. Collection of reports	29
67	VI.C.2.1. Responsibilities of Member States.....	29
68	VI.C.2.2. Responsibilities of the marketing authorisation holder in the EU	31

69	VI.C.2.2.1. Spontaneous reports.....	32
70	VI.C.2.2.2. Solicited reports	32
71	VI.C.2.2.3. Case reports published in the scientific literature	32
72	VI.C.2.2.3.1 Monitoring of medical literature by the European Medicines Agency.....	32
73	VI.C.2.2.3.2 Exclusion criteria for the reporting of ICSRs published in the scientific literature	
74	33
75	VI.C.2.2.4. Suspected adverse reactions related to quality defect or falsified medicinal	
76	products	34
77	VI.C.2.2.5. Suspected transmission via a medicinal product of an infectious agent	34
78	VI.C.2.2.6. Emerging safety issues.....	35
79	VI.C.2.2.7. Period between the submission of the marketing authorisation application and	
80	the granting of the marketing authorisation	36
81	VI.C.2.2.8. Period after suspension, revocation or withdrawal of marketing authorisation ..	36
82	VI.C.2.2.9. Period during a public health emergency	37
83	VI.C.2.2.10. Reports from class action lawsuits	37
84	VI.C.2.2.11. Reports from patient support programmes and market research programmes	37
85	VI.C.3. Reporting time frames	37
86	VI.C.4. Reporting modalities of ICSRs in EU	38
87	VI.C.5. Collaboration with bodies outside the EU regulatory network	40
88	VI.C.5.1. Collaboration with the World Health Organization and the European Monitoring	
89	Centre for Drugs and Drug Addiction	40
90	VI.C.6. Electronic exchange of safety information in the EU.....	40
91	VI.C.6.1. Applicable guidelines, definitions, international formats, standards and	
92	terminologies	41
93	VI.C.6.2. Electronic reporting of individual case safety reports.....	41
94	VI.C.6.2.1. EudraVigilance Database Modules	42
95	VI.C.6.2.1.1. Adverse reaction data collected in the EudraVigilance Post-Authorisation	
96	Module	42
97	VI.C.6.2.1.2. Adverse reaction data collected in the EudraVigilance Clinical Trial Module	44
98	VI.C.6.2.2. Preparation of individual case safety reports	45
99	VI.C.6.2.2.1. General principles	45
100	VI.C.6.2.2.2. Information on suspect, interacting and concomitant medicinal products	46
101	VI.C.6.2.2.3. Suspected adverse reactions	52
102	VI.C.6.2.2.4. Case narrative, causality assessment and comments.....	53
103	VI.C.6.2.2.5. Test results.....	55
104	VI.C.6.2.2.6. Supplementary records/information	55
105	VI.C.6.2.2.7. Follow-up information.....	56
106	VI.C.6.2.2.8. Amendment Report	58
107	VI.C.6.2.2.9. Nullification of cases.....	59
108	VI.C.6.2.2.10. What to take into account for data protection laws	61
109	VI.C.6.2.2.11. Handling of languages	61
110	VI.C.6.2.3. Special situations	62
111	VI.C.6.2.3.1. Use of a medicinal product during pregnancy or breastfeeding	62
112	VI.C.6.2.3.2. Suspected adverse reaction reports published in the scientific literature	64
113	VI.C.6.2.3.3. Suspected adverse reactions related to overdose, abuse, off-label use, misuse,	
114	medication error or occupational exposure	66
115	VI.C.6.2.3.4. Lack of therapeutic efficacy.....	67

116	VI.C.6.2.3.5. Suspected adverse reactions related to quality defect or falsified medicinal products	68
117		
118	VI.C.6.2.3.6. Suspected transmission via a medicinal product of an infectious agent	71
119	VI.C.6.2.3.7. Reports of suspected adverse reactions originating from organised data collection systems and other systems	71
120		
121	VI.C.6.2.3.8. Receipt of missing minimum information	73
122	VI.C.6.2.4. Data quality of individual case safety reports transmitted electronically and duplicate management	74
123		
124	VI.C.6.2.5. Electronic re-transmission of ICSRs between multiple senders and receivers	76
125	VI.C.6.2.6. Electronic reporting through company's headquarters	78
126	VI.C.6.3. Electronic submission of information on medicinal products	78
127	VI. Appendix 1 Follow-up process of ICSRs	79
128	VI.App.1.1 Follow-up of ICSRs by marketing authorisation holders.....	79
129	VI.App.1.2 Follow-up of ICSRs by competent authorities in Member States involving consumers or healthcare professionals	83
130		
131	VI.App.1.3 Follow-up of ICSRs by competent authorities in Member States with involvement of marketing authorisation holders	87
132		
133	VI.App.1.4 Follow-up of ICSRs for identification of biological medicinal products	91
134	VI. Appendix 2 Detailed guidance on the monitoring of scientific literature	94
135		
136	VI.App.2.1 When to start and stop searching in the scientific literature.....	94
137	VI.App.2.2 Where to look.....	94
138	VI.App.2.3 Database Searches	95
139	VI.App.2.3.1 Precision and recall	95
140	VI.App.2.3.2 Search construction.....	95
141	VI.App.2.3.3 Selection of product terms	95
142	VI.App.2.3.4 Selection of search terms.....	96
143	VI.App.2.3.5 Limits to a search.....	96
144	VI.App.2.4 Record keeping.....	97
145	VI.App.2.5 Outputs	97
146	VI.App.2.6 Review and selection of articles	97
147	VI.App.2.7 Day zero	98
148	VI.App.2.8 Duplicates.....	98
149	VI.App.2.9 Contracting out literature search services	98
150	VI.App.2.10 Electronic submission of copies of articles on suspected adverse reactions published in the scientific literature	99
151		
152	VI.App.2.11 Examples for the reporting of suspected adverse reactions described in the scientific and medical literature and referring to more than one patient	101
153		
154	VI. Appendix 3 Reporting modalities of ICSRs in EU	105
155	VI.App.3.1. Requirements applicable to marketing authorisation holders.....	117
156	VI.App.3.2. Requirements applicable to competent authorities in Member States	117
157	VI.App.3.3 Transmission and rerouting of ICSRs to competent authorities in Member States	118
158		

159	VI. Appendix 4 Transmission of ICSRs to the World Health Organization	
160	(WHO)	123
161	VI. Appendix 5 Nullification of cases	128
162	VI. Appendix 6 Data quality monitoring of ICSRs transmitted electronically	
163	133
164	VI. Appendix 7 Duplicate detection and management of ICSRs	139
165	VI.App.7.1 Duplicate Detection in EudraVigilance – Collaboration between the Agency,	
166	Member States and MAHs where duplicates originate from the same sender	139
167	VI.App.7.2 Duplicate Detection in EudraVigilance – Collaboration between the Agency,	
168	Member States and MAHs where duplicates originate from different Senders.....	146
169	VI.App.7.3 Duplicates from same Sender Organisation – duplicates detected by the sender	
170	organisation prior to detection by the Agency in EudraVigilance.....	150
171	VI.App.7.4 Duplicates from different Sender Organisations - Duplicates detected by an	
172	Organisation prior detection by Agency in EudraVigilance.....	152
173	VI.App.7.5 Duplicate Detection in EudraVigilance – Collaboration between the Agency,	
174	Member States and MAHs where duplicates are first detected in a database other than	
175	EudraVigilance.....	155
176	VI.App.7.6 Duplicates identified as part of signal management as outlined in GVP Module IX	
177	- Collaboration between the Agency, Member States and MAHs	159
178	VI. Appendix 8 Examples of assesment of case validity.....	162
179		
180		

181 VI.A. Introduction

182 VI.A.1. Scope

183 This Module of GVP addresses the legal requirements detailed in ~~Title~~TITLE IX of Directive 2001/83/EC
184 [DIR] and ~~chapter~~Chapter 3 of TITLE II of Regulation (EC) No 726/2004 [REG], which are applicable to
185 competent authorities in Member States, marketing authorisation holders and the Agency as regards
186 the collection, data management and reporting of suspected adverse reactions (serious and non-
187 serious) associated with medicinal products for human use authorised in the European Union (EU).
188 Recommendations regarding the reporting of ~~emerging safety issues or of~~ suspected adverse reactions
189 occurring in special situations are also presented in this Module. The requirements provided in
190 ~~chapters~~Chapters IV, V and IX of the Commission Implementing Regulation (EU) No 520/2012 [IR]
191 shall be applied in this Module.

192 The guidance provided in this Module does not address the collection, management and reporting of
193 events or patterns of use, which do not result in suspected adverse reactions (e.g. asymptomatic
194 overdose, abuse, off-label use, misuse or medication error) or which ~~deare~~ not ~~require~~required to be
195 ~~reported~~submitted as individual case safety report ~~or as emerging safety issues~~. This information may
196 however need to be collected and presented in periodic safety update reports for the interpretation of
197 safety data or for the benefit risk evaluation of medicinal products. In this aspect, the guidance
198 provided in [GVP Module VII](#) applies.

199 Section B of this Module highlights the general principles in relation to the collection, recording and
200 reporting of reports of suspected adverse reactions associated with medicinal products for human use,
201 which are applicable to competent authorities and marketing authorisation holders. The definitions and
202 recommendations provided in [VI.A.](#) should be followed. EU requirements are presented in [VI.C.](#)

203 All applicable legal requirements detailed in this Module are referenced in the way explained in the GVP
204 Introductory Cover Note and are usually identifiable by the modal verb “shall”. Guidance for the
205 implementation of legal requirements is provided using the modal verb “should”.

206 VI.A.2. Definitions and terminology

207 The definitions provided in Article 1 of Directive 2001/83/EC shall be applied for the purpose of this
208 Module; of particular relevance are those provided in this Section. Some general principles presented
209 in the ICH-E2A and ICH-E2D guidelines (see [GVP Annex IV](#)) should also be adhered to; they are
210 included as well in this Section (see [GVP Annex I](#) for all definitions applicable to GVP).

211 VI.A.2.1. Adverse reaction

212 An adverse reaction is a response to a medicinal product which is noxious and unintended [DIR Art 1];
213 ~~This includes adverse reactions which arise from:~~(11)]. Adverse reactions may arise from use of the
214 product within or outside the terms of the marketing authorisation or from occupational exposure [DIR
215 Art 101(1)]. Use outside the marketing authorisation includes off-label use, overdose, misuse, abuse
216 and medication errors.

217 ~~• the use of a medicinal product within the terms of the marketing authorisation;~~

218 ~~• the use outside the terms of the marketing authorisation, including overdose, off-label use,~~
219 ~~misuse, abuse and medication errors;~~

220 ~~• occupational exposure.~~

221 **VI.A.2.1.1. Causality**

222 In accordance with ICH-E2A (see [GVP Annex IV](#)), the definition of an adverse reaction implies at least
223 a reasonable possibility of a causal relationship between a suspected medicinal product and an adverse
224 event- (see [GVP Annex I](#)). An adverse reaction, in contrast to an adverse event, is characterised by the
225 fact that a causal relationship between a medicinal product and an occurrence is suspected. For
226 regulatory reporting purposes, as detailed in ICH-E2D (see [GVP Annex IV](#)), if an event is
227 spontaneously reported, even if the relationship is unknown or unstated, it meets the definition of an
228 adverse reaction. Therefore all spontaneous reports notified by healthcare professionals¹ or
229 consumers² are considered suspected adverse reactions, since they convey the suspicions of the
230 primary sources, unless the reporters specifically state that they believe the events to be unrelated or
231 that a causal relationship can be excluded.

232 **VI.A.2.1.2. Overdose, off-label use, misuse, abuse, occupational exposure, medication error,**
233 **falsified medicinal product**

234 ~~a.~~ **Overdose**

235 : This refers to the administration of a quantity of a medicinal product given per administration or
236 cumulatively, which is above the maximum recommended dose according to the authorised product
237 information. Clinical judgement should always be applied.

238 ~~b.~~ **Off-label use**

239 : This relates to situations where the medicinal product is intentionally used for a medical purpose not
240 in accordance with the ~~authorised product information~~ terms of the marketing authorisation.

241 ~~c.~~ **Misuse**

242 : This refers to situations where the medicinal product is intentionally and inappropriately used not in
243 accordance with the ~~authorised product information~~ terms of the marketing authorisation.

244 ~~d.~~ **Abuse**

245 : This corresponds to the persistent or sporadic, intentional excessive use of a medicinal product, which
246 is accompanied by harmful physical or psychological effects [DIR Art 1~~7~~(16)].

247 ~~e.~~ **Occupational exposure**

248 : This refers to the exposure to a medicinal product (as defined in [DIR Art 1~~7~~(2)]), as a result of
249 one's professional or non-professional occupation. It does not include the exposure to one of the
250 ingredients during the manufacturing process before the release as finished product.

251 **Medication error:** This is an unintended failure in the drug treatment process that leads to, or has the
252 potential to lead to harm to the patient².

253 **Falsified medicinal product:** This relates to any medicinal product with a false representation of:

- 254
- its identity, including its packaging and labelling, its name or its composition as regards any of the ingredients including excipients and the strength of those ingredients;
 - its source, including its manufacturer, its country of manufacturing, its country of origin or its marketing authorisation holder; or
- 256
- 257

¹ See [VI.A.2.3.](#) for definition of primary source

² See Good Practice Guide on Recording, Coding, Reporting and Assessment of Medication Errors, [EMA/762563/2014](#)

258 • its history, including the records and documents relating to the distribution channels used.

259 This definition does not include unintentional quality defects and is without prejudice to infringements
260 of intellectual property rights [DIR Art 1(33)].

261 VI.A.2.2. Medicinal product, **Active substance, excipient**

262 **Medicinal product:** A medicinal product is characterised by any substance or combination of
263 substances,

- 264 • presented as having properties for treating or preventing disease in human beings; or
- 265 • which may be used in or administered to human beings either with a view to restoring, correcting
266 or modifying physiological functions by exerting a pharmacological, immunological or metabolic
267 action, or to making a medical diagnosis [DIR Art 1(2)].

268 **Active substance:** An active substance corresponds to any substance or mixture of substances
269 intended to be used in the manufacture of a medicinal product and that, when used in its production,
270 becomes an active ingredient of that product intended to exert a pharmacological, immunological or
271 metabolic action with a view to restoring, correcting or modifying physiological functions or to make a
272 medical diagnosis [DIR Art 1(3a)].

273 **Excipient:** An excipient corresponds to any constituent of a medicinal product other than the active
274 substance and the packaging material [DIR Art 1(3b)].

275 In accordance with Article 107 of Directive 2001/83/EC, the scope of this ~~module~~Module is not only
276 applicable to medicinal products authorised in the EU but also to any such medicinal products
277 commercialised outside the EU by the same marketing authorisation holder (see [VI.C.2.2.](#)). Given that
278 a medicinal product is authorised with a defined composition, all the adverse reactions suspected to be
279 related to any of the active substances being part of a medicinal product authorised in the EU should
280 be managed in accordance with the requirements presented in this ~~module~~Module. This is valid
281 independently of the strengths, pharmaceutical forms, routes of administration, presentations,
282 authorised indications, or ~~trade~~ names of the medicinal product. For the definition of the name and
283 strength of a medicinal product, refer to Article 1(20) and Article 1(22) of Directive 2001/83/EC.

284 The guidance provided in this Module also applies, ~~subject to amendments where appropriate~~, to
285 medicinal products supplied in the context of compassionate use (see [VI.C.1.2.2.](#)) as defined in Article
286 83(2) of Regulation (EC) No 726/2004~~-, subject to and without prejudice to applicable national law of~~
287 ~~the EU Member States~~. As the case may be, this guidance may also apply to named patient use as
288 defined under Article 5(1) of Directive 2001/83/EC.

289 For devices containing active substances, whether they are authorised in the EU as medicinal products
290 or CE marked as medical devices determines which procedure should be followed for the safety
291 reporting of suspected adverse reactions and/or incidents. In this aspect, medicinal products follow the
292 requirements for pharmacovigilance provided in Directive 2001/83/EC and Regulation (EC) No
293 726/2004, whereas medical devices follow the requirements for medical device vigilance in accordance
294 with Directive 90/385/EEC and Directive 93/42/EEC. As detailed in the Guidelines on a Medical Devices
295 Vigilance System³, a medical device incorporating a medicinal product or substance, where the action
296 of the medicinal product or substance is ancillary to that of the device, follows the legal requirements
297 of Directive 90/385/EEC and Directive 93/42/EEC.

³ Ref.: [MEDDEV 2.12-1 rev 8](#)

298 VI.A.2.3. Primary source

299 ~~The~~In accordance with ICH-E2B, the primary source of the information ~~on a suspected adverse~~
300 ~~reaction(s)~~ is the person who reports the facts ~~about an individual case safety report~~. Several primary
301 sources, such as healthcare professionals and/or ~~a consumer~~consumers, may provide information on
302 the same case. In this situation, all the primary sources' details, including the qualifications, should be
303 provided in the case report, ~~with and~~ the "Primary source(s)" section ~~should be~~ repeated as necessary
304 ~~in line with ICH-E2B(R2)~~ (see ~~GVP Annex IV~~)⁴. ~~VI.B.2~~ for validation of reports).

305 In ~~accordance~~line with ~~the~~ ICH-E2D (see ~~GVP Annex IV~~),

- 306 • a healthcare professional is defined as a medically-qualified person such as a physician, dentist,
307 pharmacist, nurse, coroner or as otherwise specified by local regulations;
- 308 • a consumer is defined as a person who is not a healthcare professional such as a patient, lawyer,
309 friend, relative of a patient or carer.

310 ~~Medical documentations~~The "Primary Source for Regulatory Purposes" is defined in ICH-E2B(R3) and is
311 not applicable for the electronic transmission under ICH-E2B(R2) format. This data element refers to
312 the person who first reported the facts. In case of multiple sources, it identifies the source of the
313 worldwide case unique identification number by defining the country where the case occurred.

314 A consumer may provide medical documentation (e.g. laboratory or other test data) ~~provided by a~~
315 ~~consumer~~ that ~~supports~~supports the occurrence of ~~the~~a suspected adverse reaction, or which
316 ~~indicate~~indicates that an identifiable healthcare professional suspects a ~~reasonable possibility of~~ causal
317 relationship between a medicinal product and the reported adverse event, ~~are sufficient to consider the~~
318 ~~spontaneous report as confirmed by a healthcare professional~~.

319 ~~If a consumer initially reports more than one reaction and at least one receives medical confirmation,~~
320 ~~the whole report should be documented as a spontaneous report confirmed by a healthcare~~
321 ~~professional and be reported accordingly~~. Similarly, ~~if a report is~~may be submitted by a medically
322 qualified patient, friend, relative or carer of the patient ~~or carer~~. In these situations, the ~~case should~~
323 ~~also be reported~~ information is considered ~~as a spontaneous report~~medically confirmed ~~by a healthcare~~
324 ~~professional~~.

325 In the same way, where one or more suspected adverse reactions initially reported by a consumer is
326 subsequently confirmed by a healthcare professional or contains medical documentation that supports
327 the occurrence of a suspected adverse reaction, the case should be considered medically confirmed. It
328 should be updated at case level in line with ICH-E2B(R2), or at adverse reaction level in accordance
329 with ICH-E2B(R3) for each subsequently medically confirmed suspected adverse reaction.

330 VI.A.2.4. Seriousness

331 As described in ICH-E2A (see ~~GVP Annex IV~~), a serious adverse reaction corresponds to any untoward
332 medical occurrence that at any dose results in death, is life-threatening, requires inpatient
333 hospitalisation or prolongation of existing hospitalisation, results in persistent or significant disability or
334 incapacity, or is a congenital anomaly/birth defect.

335 The characteristics/consequences should be considered at the time of the reaction to determine the
336 seriousness ~~of a case~~. For example, life-threatening refers to a reaction in which the patient was at risk

⁴ See ~~VI.C.6~~ as regards the electronic reporting of ICSRs in the EU.

337 of death at the time of the reaction; it does not refer to a reaction that hypothetically might have
338 caused death if more severe.

339 Medical judgement should be exercised in deciding whether other situations should be considered as
340 serious reactions. Some medical events may jeopardise the patient or may require an intervention to
341 prevent one of the above characteristics/consequences. Such important medical events should be
342 considered ~~as~~ serious⁵. The EudraVigilance Expert Working Group has co-ordinated the development of
343 an important medical event (IME) terms list based on the Medical Dictionary for Regulatory Activities
344 (MedDRA) (see GVP Annex IV). This IME list aims to facilitate the classification of suspected adverse
345 reactions, the analysis of aggregated data and the assessment of the individual case safety reports
346 (ICSRs) in the framework of the day-to-day pharmacovigilance activities. The IME list is intended for
347 guidance purposes only and is available on the EudraVigilance web site⁶ to stakeholders who wish to
348 use it for their pharmacovigilance activities. It is regularly updated in line with the latest version of
349 MedDRA.

350 ~~Where one or more serious suspected adverse reactions are reported in an ICSR, the information on~~
351 ~~the seriousness should be documented at case level in line with ICH-E2B(R2) or for each reported~~
352 ~~suspected adverse reaction in accordance with ICH-E2B(R3).~~

353 **VI.A.2.5. Individual case safety report (ICSR)**

354 This refers to the format and content for the reporting of one or several suspected adverse reactions in
355 relation to a medicinal product that occur in a single patient at a specific point of time- [IR Art 27]. A
356 valid ICSR should include at least one identifiable reporter, one single identifiable patient, at least one
357 suspect adverse reaction and at least one suspect medicinal product.

358 **VI.A.2.6 Nullflavors**

359 ~~Nullflavors are a collection of codes specifying why a valid value is not present in an ICSR. This refers~~
360 ~~to instances, where for example a proper value is applicable, but not known (e.g. age of the patient),~~
361 ~~or the value is masked i.e. information is available to a sender of an ICSR but cannot be provided due~~
362 ~~to security, privacy or other reasons (e.g. date of birth of the patient). ICH ICSR uses Nullflavour code~~
363 ~~sets from the HL7 Messaging Standard primarily to classify the set of source data situations that may~~
364 ~~give rise to a missing value. For examples how a Nullflavors can be used to code values in the ICSR,~~
365 ~~refer to chapter 3.3.6. of the ICH Implementation Guide for Electronic Transmission of Individual Case~~
366 ~~Safety Reports (ICSRs) E2B(R3) Data Elements and Message Specification, Version 5.01, 12 April~~
367 ~~2013⁷. Additional EU guidance on the use of the Nullflavor in some specific situations is also provided~~
368 ~~in chapter I.C.3.7. of the EU Individual Case Safety Report (ICSR) Implementation Guide⁸.~~

369 **VI.B. Structures and processes**

370 ~~Section B of this Module highlights the general principles in relation to the collection, recording and~~
371 ~~reporting of reports of suspected adverse reactions associated with medicinal products for human use,~~
372 ~~which are applicable to competent authorities and marketing authorisation holders. The definitions and~~
373 ~~recommendations provided in VI.A. should be followed. EU requirements are presented in VI.C.~~

⁵ Examples are provided in section II.B of ICH-E2A (see GVP Annex IV).

⁶ <http://eudravigilance.ema.europa.eu/human/textforIME.asp>.

⁷ Accessible at <http://estri.ich.org/e2br3/index.htm>

⁸ Ref. EMA/51938/2013, 4 December 2014.

374 **VI.B.1. Collection of reports**

375 Competent authorities and marketing authorisation holders should take appropriate measures ~~in order~~
376 to collect and collate all reports of suspected adverse reactions associated with medicinal products for
377 human use originating from unsolicited or solicited sources.

378 For this purpose, a pharmacovigilance system should be developed to allow the acquisition of sufficient
379 information for the scientific evaluation of those reports.

380 The system should be designed so that it helps to ensure that the collected reports are authentic,
381 legible, accurate, consistent, verifiable and as complete as possible for their clinical assessment.

382 All notifications that contain pharmacovigilance data should be recorded and archived in compliance
383 with the applicable data protection requirements (see [VI.C.6.2.2.8.](#) for EU requirements).

384 The system should also be structured in a way that allows for reports of suspected adverse reactions to
385 be validated (see [VI.B.2.](#)) in a timely manner and exchanged between competent authorities and
386 marketing authorisation holders within the legal reporting time frame (see [VI.B.7.1.](#)).

387 In accordance with the ICH-E2D (see [GVP Annex IV](#)), two types of safety reports are distinguished in
388 the post-authorisation phase; reports originating from unsolicited sources and those reported as
389 solicited.

390 **VI.B.1.1. Unsolicited reports**

391 **VI.B.1.1.1. Spontaneous reports**

392 A spontaneous report is an unsolicited communication by a healthcare professional, or consumer to a
393 competent authority, marketing authorisation holder or other organisation (e.g. Regional
394 Pharmacovigilance Centre, Poison Control Centre) that describes one or more suspected adverse
395 reactions in a patient who was given one or more medicinal products ~~and that~~. It does not derive from
396 a study or any organised data collection systems where adverse events reporting is actively sought, as
397 defined in [VI.B.1.2.](#) ~~In this aspect, the following situations should also be considered as spontaneous~~
398 ~~reports:~~

- 399 • Stimulated reporting that occurs consequent to a direct healthcare professional communication
400 (see ~~Module XV~~, [GVP Module XV](#)), publication in the press, questioning of healthcare professionals
401 by company representatives, communication from patients' organisations to their members, or
402 class action lawsuits ~~should be considered spontaneous reports;~~
- 403 • Unsolicited consumer adverse reactions reports ~~should be handled as spontaneous reports~~
404 irrespective of any subsequent "medical confirmation";
- 405 • ~~Reports of suspected adverse reactions, which are not related to any organised data collection~~
406 ~~systems and which are notified through medical enquiry/product information services or which are~~
407 ~~consequent of the distribution of information materials;~~
- 408 • ~~Cases notified by different reporters, referring to the same patient and same suspected adverse~~
409 ~~reaction, and at least one notification is done in an unsolicited manner;~~
- 410 • ~~Reports of suspected adverse reactions originating from non-interventional post-authorisation~~
411 ~~studies and for which the protocol does not require a systematic collection (see [VI.C.1.2.1.](#) and~~
412 ~~[VI.C.6.2.3.7.](#), subsection 2);~~

413 Reports of suspected adverse reactions originating from compassionate use or named patient use
414 conducted in a country where the active collection of adverse events occurring in these programmes is
415 not required (see [VI.C.1.2.2](#) and [VI.C.6.2.3.7](#), subsection 2). The reporting modalities and applicable
416 time frames for spontaneous reports are described in [VI.B.7](#) and [VI.B.8](#).

417 **VI.B.1.1.2. Literature reports**

418 The scientific and medical literature is a significant source of information for the monitoring of the
419 safety profile and of the risk-benefit balance of medicinal products, particularly in relation to the
420 detection of new safety signals or emerging safety issues. Marketing authorisation holders are
421 therefore expected to maintain awareness of possible publications through a systematic literature
422 review of widely used reference databases (e.g. Medline, Excerpta Medica or Embase) no less
423 frequently than once a week. The marketing authorisation holder should ensure that the literature
424 review includes the use of reference databases that contain the largest reference of articles in relation
425 to the medicinal product properties⁹. In addition, marketing authorisation holders should have
426 procedures in place to monitor scientific and medical publications in local journals in countries where
427 medicinal products have a marketing authorisation, and to bring them to the attention of the company
428 safety department as appropriate.

429 Reports of suspected adverse reactions from the scientific and medical literature, including relevant
430 published abstracts from meetings and draft manuscripts, should be reviewed and assessed by
431 marketing authorisation holders to identify and record ICSRs originating from spontaneous reports or
432 non-interventional post-authorisation studies.

433 If multiple medicinal products are mentioned in the publication, only those which are identified by the
434 publication's author(s) as having at least a possible causal relationship with the suspected adverse
435 reaction should be considered by the concerned marketing authorisation holder(s).

436 Valid ICSRs should be ~~reported~~submitted according to the modalities detailed in [VI.B.7](#) and [VI.B.8](#).

437 One case should be created for each single patient identifiable based on characteristics provided in
438 [VI.B.2](#). Relevant medical information should be provided and the ~~first~~ publication author(s) should be
439 considered as the ~~primary source(s)~~ as well as the primary source for regulatory purposes in line with
440 ICH-E2B(R3) (see [VI.A.2.3](#)). The co-authors should not be reflected as part of the primary source
441 information.

442 EU specific requirements, as regards medicinal products and scientific and medical publications, ~~which~~
443 ~~are not monitored by the Agency and~~ for which valid ICSRs shall be ~~reported~~submitted by marketing
444 authorisation holders, are provided in [VI.C.2.2.3](#).

445 **VI.B.1.1.3. Reports from other sources (e.g. general news or other media)**

446 If a marketing authorisation holder becomes aware of a report of suspected adverse reactions
447 originating from a non-medical source, for example the lay press or other media, it should be handled
448 as a spontaneous report. Every attempt should be made to follow-up the case to obtain the minimum
449 information that constitutes a valid ICSR. The same reporting time frames should be applied as for
450 other spontaneous reports.

⁹ See [VI - Appendix App. 2](#) for ~~the~~ detailed guidance on the monitoring of medical and scientific literature.

451 **VI.B.1.1.4. Information on suspected adverse reactions from the internet or digital media**

452 ~~Marketing~~In line with ICH-E2D, marketing authorisation holders should regularly screen internet or
453 digital media¹⁰ under their management or responsibility, for potential reports of suspected adverse
454 reactions. In this aspect, digital media is considered to be company sponsored if it is owned, paid for
455 and/or controlled by the marketing authorisation holder¹¹. The frequency of the screening should allow
456 for potential valid ICSRs to be ~~reported~~submitted to the competent authorities within the appropriate
457 reporting timeframe based on the date the information was posted on the internet site/digital medium.
458 Marketing authorisation holders may also consider utilising their websites to facilitate the collection of
459 reports of suspected adverse reactions (see [VI.C.2.2.1.](#)).

460 If a marketing authorisation holder becomes aware of a report of suspected adverse reaction described
461 in any non-company sponsored digital medium, the report should be assessed to determine whether it
462 qualifies for reporting.

463 Unsolicited cases of suspected adverse reactions from the internet or digital media should be handled
464 as spontaneous reports. The same reporting time frames as for spontaneous reports should be applied
465 (see [VI.B.7.](#)).

466 In relation to cases from the internet or digital media, the identifiability of the reporter refers to the
467 ~~possibility of verification of the~~ existence of a real person, ~~that is, it is possible to verify the contact~~
468 ~~details of the reporter (based on the information available~~ e.g., an email address under a valid format
469 has been provided (see [VI.B.2.](#) for case validation). If the country of the primary source is missing, the
470 country where the information was received, or where the review took place, should be used as the
471 primary source country.

472 **VI.B.1.2. Solicited reports**

473 As defined in ICH-E2D (see [GVP Annex IV](#)), solicited reports of suspected adverse reactions are those
474 derived from organised data collection systems, which include clinical trials, non-interventional studies,
475 registries, post-approval named patient use programmes, other patient support and disease
476 management programmes, surveys of patients or healthcare providers, compassionate use or name
477 patient use, or information gathering on efficacy or patient compliance. Reports of suspected adverse
478 reactions obtained from any of these data collection systems should not be considered spontaneous.
479 This is with the exception of:

- 480 • suspected adverse reactions in relation to those adverse events for which the protocol of non-
481 interventional post-authorisation studies ~~provides differently and~~ does not require their systematic
482 collection (see [VI.C.1.2.1.](#)),
- 483 • suspected adverse reactions originating from compassionate use or named patient use conducted
484 in Member States where the active collection of adverse events occurring in these programmes is
485 not required (see [VI.C.1.2.2.](#)).

486 For the purpose of safety reporting, solicited reports should be classified as study reports, and should
487 have an appropriate causality assessment, to consider whether they refer to suspected adverse
488 reactions and therefore meet the criteria for reporting. ~~Valid cases of suspected adverse reactions~~
489 ~~should be sent according to the modalities detailed in~~ [VI.B.7.](#) and [VI.B.8.](#).

¹⁰ Although not exhaustive, the following list should be considered as digital media: web site, web page, blog, vlog, social network, internet forum, chat room, health portal.

¹¹ A donation (financial or otherwise) to an organisation/site by a marketing authorisation holder does not constitute ownership, provided that the marketing authorisation holder does not control the final content of the site.

490 General reporting rules for suspected adverse reactions occurring in organised data collection systems
491 conducted in the EU under the scope of Directive 2001/83/EC, Regulation (EC) No 726/2004 or
492 Directive 2001/20/EC, are presented in VI.C.1. **Guidance on the management of solicited reports in**
493 **the EU by marketing authorisation holders is provided in VI.C.2.2.2.**

494 **VI.B.2. Validation of reports**

495 Only valid ICSRs qualify for reporting. All reports of suspected adverse reactions should therefore be
496 validated before reporting them to the competent authorities to make sure that the minimum criteria
497 for reporting are included in the reports (see ICH-E2D (see GVP Annex IV)). These are:

- 498 • **one or more identifiable¹² reporter** (~~primary source~~), see VI.A.2.3., characterised by a
499 qualification (e.g. physician, pharmacist, other healthcare professional, lawyer, consumer or other
500 non-healthcare professional) ~~name, initials or address¹³~~ **and** at least one of the following
501 ~~parameters¹⁴: name, address¹⁵ or phone number~~. An ICSR should not be considered valid for
502 ~~reporting unless this information is available for at least one reporter~~. Whenever possible, contact
503 details for the reporter should be recorded so that follow-up activities can be performed. However,
504 if the reporter does not wish to provide contact details, the ICSR should still be considered ~~as~~-valid,
505 providing the organisation who was informed of the case was able to confirm it directly with the
506 reporter. All parties providing case information or approached for case information should be
507 identifiable, (not only the initial reporter-);
- 508 • **one single identifiable¹² patient**, characterised by **at least one of the following qualifying**
509 **descriptors**: initials, ~~patient~~ identification number, date of birth, age, age group or gender. The
510 information should be as complete as ~~possible¹⁶~~ ~~possible¹⁴~~. An ICSR should not be considered
511 ~~valid for reporting unless information is available for at least one of the patient qualifying~~
512 ~~descriptors~~ Furthermore, as specified in ICH-E2D, a report referring to a definite number of
513 ~~patients should not be regarded as valid until the patients can be characterised by one of the~~
514 ~~mentioned qualifying descriptors~~. For example, "Two patients experienced nausea with drug X
515 ..." should not be considered valid without further information;
- 516 • **one or more suspected¹⁷ substance/medicinal product** (see VI.A.2.2.).
- 517 • **one or more suspected adverse reaction** (see VI.A.2.1.).

518 **Examples of case validity assessment based on the reporter and the patient identifiability are provided**
519 **in VI.App.8.**

520 If the primary source has made an explicit statement that a causal relationship between the medicinal
521 product and the **reported** adverse event has been excluded and the ~~receiver~~ (notified competent
522 authority or marketing authorisation holder) agrees with this **assessment**, the report does not qualify
523 as a valid ICSR since the minimum information **for reporting** is incomplete¹⁸. The report **also** does not
524 **also** qualify as a valid ICSR if it is reported that the patient experienced an unspecified adverse
525 reaction and there is no information ~~provided~~ on the type of adverse reaction experienced. Similarly,
526 the report is not valid if only an outcome (or consequence) is notified and (i) no further information
527 about the clinical circumstances is provided to consider it as a suspected adverse reaction, or (ii) the

¹² In line with ICH-E2D, the term 'identifiable' is considered in EU as referring to the possibility of verification of the existence of a reporter and of a patient based on the information available.

¹³ ~~Local data privacy laws regarding patient's and reporter's identifiability might apply.~~

¹⁴ Local data protection laws regarding reporter's and patient's identifiability might apply.

¹⁵ Such as reporter's organisation, department, street, city, state/province, postcode, country, or email.

¹⁶ ~~See Footnote 9.~~

¹⁷ Interacting medications are also considered suspected.

¹⁸ There is no suspected adverse reaction.

528 primary source has not indicated a possible causal relationship with the suspected medicinal product.
529 For instance a marketing authorisation holder is made aware that a patient was hospitalised or died,
530 without any further information. In this particular situation, medical judgement should always be
531 applied in deciding whether the notified information is an adverse reaction or an event. For example, a
532 report of sudden death would usually need to be considered as a case of suspected adverse reaction
533 and ~~reported~~ **the valid ICSR should be submitted to the competent authorities.**

534 The lack of any of ~~thesethe~~ four elements means that the case is considered incomplete and does not
535 qualify for reporting. Competent authorities and marketing authorisation holders are expected to
536 exercise due diligence in following up the case to collect the missing data elements- **and follow-up**
537 **activities should be documented.** Reports, for which the minimum information is incomplete, should
538 nevertheless be recorded within the pharmacovigilance system for use in on-going safety evaluation
539 activities. Recommendations on the electronic reporting of valid ICSRs, when missing information has
540 been obtained, are provided in [VI.C.6.2.3.8](#)-

541 ~~When collecting reports of suspected adverse reactions via the internet or digital media, the term~~
542 ~~“identifiable” refers to the possibility of verification of the existence of a reporter and a patient (see~~
543 ~~VI.B.1.1.4).~~ Further guidance is available in [VI.C.6.2.2.10](#) for the electronic reporting of ICSRs
544 where primary source information cannot be transmitted for data protection considerations.

545 When one party (competent authority or a marketing authorisation holder) is made aware that the
546 primary source may also have reported the suspected adverse reaction to another concerned party,
547 the report should still be considered as a valid ICSR. All the relevant information necessary for the
548 detection of the duplicate case should be included in the ICSR¹⁹. **Guidance on the electronic**
549 **transmission of information allowing the detection of duplicate ICSRs in line with ICH-E2B is provided**
550 **in [VI.C.6.2.2.6](#).**

551 A valid case of suspected adverse reaction initially ~~submitted~~ **reported** by a consumer cannot be
552 downgraded to a report of non-related adverse event if the contacted healthcare professional
553 (nominated by the consumer for follow-up information) **subsequently** disagrees with the consumer's
554 suspicion (see [VI.A.2.1.1](#)). In this situation, the opinions of both the consumer and the healthcare
555 professional should be included in the ICSR. Guidance on the reporting of the medical confirmation of a
556 case, provided in ~~ICH-E2B(R2) Section A.1.14 (“Was the case medically confirmed, if not initially from~~
557 ~~a healthcare professional?”) (see [GVP Annex IV](#)), [VI.A.2.3](#)~~ should be followed.

558 For solicited reports of suspected adverse reactions (see [VI.B.1.2](#)), where the ~~receiver~~ **notified**
559 **recipient (competent authority or marketing authorisation holder)** disagrees with the reasonable
560 possibility of causal relationship between the suspected medicinal product and the adverse reaction
561 expressed by the primary source, the case should not be downgraded to a report of ~~non-~~ **not causally**
562 related adverse event. The opinions of both, the primary source and the receiver, should be recorded
563 in the ICSR.

564 The same principle applies to the ICSR seriousness criterion, which should not be downgraded from
565 serious to non-serious if the ~~receiver~~ **notified recipient** disagrees with the seriousness reported by the
566 primary source.

¹⁹ ~~For further guidance on reporting of other duplicate ICSRs, refer to section A.1.11 “Other case identifiers in previous transmission” of ICH-E2B(R2) (see [GVP Annex IV](#)).~~

567 **VI.B.3. Follow-up of reports**

568 When first received, the information in suspected adverse reactions reports may be incomplete. These
569 reports should be followed-up as necessary to obtain supplementary detailed information significant for
570 the scientific evaluation of the cases. This is particularly relevant for monitored events of special
571 interest, prospective reports of pregnancy, cases notifying the death of a patient, **or** cases reporting
572 new risks or changes in the known risks. This is in addition to any effort to collect missing minimum
573 ~~information-criteria for reporting~~ (see [VI.B.2.](#)).

574 ~~The provision in ICSRs of patient's age information is important in order to be able to identify safety~~
575 ~~issues occurring specifically in the paediatric or elderly population. All possible efforts should be made~~
576 ~~to follow-up on an individual case to obtain age information of the patient, where it is initially not~~
577 ~~reported by the primary source (see [VI.B.6.2.](#)).~~

578 Any attempt to obtain follow-up information should be documented.

579 Follow-up methods should be tailored towards optimising the collection of missing information. This
580 should be done in ways that encourage the primary source to submit new information relevant for the
581 scientific evaluation of a particular safety concern. The use of targeted specific forms in the local
582 language should avoid requesting the primary source to repeat information already provided in the
583 initial report and/or to complete extensive questionnaires, which could discourage future spontaneous
584 reporting. Therefore, consideration should be given to pre-populating some data fields in those follow-
585 up report forms to make their completion by the primary source easy. ~~Further requirements applicable~~
586 ~~to competent authorities in Member States and to marketing authorisation holders are provided~~
587 ~~respectively in [VI.C.2.1.](#) and [VI.C.2.2.](#) with business process maps and process descriptions included~~
588 ~~in [VI.App.1.](#) Guidance on the electronic reporting of follow-up reports is available in [VI.C.6.2.2.7.](#).~~

589 When information is received directly from a consumer suggesting that an adverse reaction may have
590 occurred, if the information is incomplete, attempts should be made to ~~obtain follow-up with the~~
591 ~~consumer to collect further information and to obtain~~ consent to contact a nominated healthcare
592 professional to obtain further ~~follow-up~~ information. When ~~such a~~ case, ~~initially reported by a~~
593 ~~consumer, has been~~ is subsequently confirmed (totally or partially) by a healthcare professional, this
594 information should be ~~clearly highlighted~~ captured in the ICSR²⁰ – in line with ICH-E2B (see [VI.A.2.3.](#)).

595 For suspected adverse reactions relating to biological medicinal products, the definite identification of
596 the concerned product with regard to its manufacturing is of particular importance. Therefore, all
597 appropriate measures should be taken to clearly identify the name of the product and the batch
598 number. A business process map ~~and a process description~~ in relation to the mandatory follow-up of
599 information for the identification of suspected biological medicinal products ~~is~~are presented in
600 ~~[VI.Appendix 1.](#)~~ [VI.App.1.4.](#)

601 For cases related to vaccines, [GVP P.1.](#) should also be followed as appropriate.

602 ~~For individual cases related to medication errors that result in harm, it may not always be possible~~
603 ~~to perform follow-up activities taking into account that the primary source information may have been~~
604 ~~anonymised in accordance with local legal requirements or due to provisions that allow for anonymous~~
605 ~~reporting.~~

²⁰ ~~For further guidance on reporting this information, refer to ICH-E2B(R2), section A.1.14 (“Was the case medically confirmed, if not initially from a healthcare professional?”) (see [GVP Annex IV](#)).~~

606 **VI.B.4. Data management**

607 Electronic data and paper reports of suspected adverse reactions should be stored and treated in the
608 same way as other medical records with appropriate respect for confidentiality regarding patients' and
609 reporters' identifiability and in accordance with ~~local~~ applicable data ~~privacy~~ protection laws.

610 Confidentiality of patients' records including personal identifiers, if provided, should always be
611 maintained. Identifiable personal details of reporting healthcare professionals should be kept in
612 confidence- ~~protected from unauthorised access~~. With regards to patient's and reporter's identifiability,
613 case report information should be transmitted between stakeholders (marketing authorisation holders
614 or competent authorities) in accordance with local data ~~privacy~~ protection laws (see
615 ~~VI.C.6.2.2.8-VI.C.6.2.2.10~~ for the processing of personal data in ICSRs ~~in the EU~~).

616 ~~In order to~~To ensure pharmacovigilance data security and confidentiality, strict access controls should
617 be applied to documents and to databases to authorised personnel only. This security extends to the
618 complete data path. In this aspect, procedures should be implemented to ensure security and non-
619 corruption of data during data transfer.

620 When transfer of pharmacovigilance data occurs within an organisation or between organisations
621 having concluded contractual agreements, the mechanism should be such that there is confidence that
622 all notifications are received; in that, a confirmation and/or reconciliation process should be
623 undertaken.

624 ~~Correct data entry, including the appropriate use of terminologies, should be verified by quality~~
625 ~~assurance auditing, either systematically or by regular random evaluation. Data entry staff should be~~
626 ~~instructed in the use of the terminologies, and their proficiency confirmed.~~

627 Data received from the primary source should be treated in an unbiased and unfiltered way and
628 inferences as well as imputations should be avoided during data entry or electronic transmission. The
629 reports should include the verbatim text as used by the primary source ~~or~~ and an accurate translation
630 of it- ~~where applicable~~ (see ~~VI.C.6.2.2.9~~ for EU requirements on languages handling). The original
631 verbatim text should be coded using the appropriate terminology as described in ~~VI.B.8~~. ~~In order to~~To
632 ensure consistency in the coding practices, it is recommended to use, where applicable, the translation
633 of the terminology in the local language to code the verbatim text.

634 Electronic data storage should allow traceability (audit trail) of all data entered or modified, including
635 dates and sources of received data, as well as dates and destinations of transmitted data.

636 A procedure should be in place to account for identification and management of duplicate cases at data
637 entry and during the generation of aggregated reports (see ~~VI.C.6.2.4~~).

638 **VI.B.5. Quality management**

639 Competent authorities and marketing authorisation holders should have a quality management system
640 in place to ensure compliance with the necessary quality standards at every stage of case
641 documentation, such as data collection, data transfer, data management, data coding, case validation,
642 case evaluation, case follow-up, ICSR reporting and case archiving (see ~~VI.C.6.2.4~~ and ~~GVP Module I~~).

643 ~~Correct data entry, including the appropriate use of terminologies, should be monitored by quality~~
644 ~~assurance auditing, either systematically or by regular random evaluation.~~

645 Conformity of stored data with initial and follow-up reports should be verified by quality control
646 procedures, which permit for the validation against the original data or images thereof. In this aspect,
647 the source data (e.g., letters, emails, records of telephone calls that include details of an event) or an
648 image of the source data should be easily accessible.

649 Clear written standard operating procedures should guarantee that the roles and responsibilities and
650 the required tasks are clear to all parties involved and that there is provision for proper control and,
651 when needed, change of the system. This is equally applicable to activities that are contracted out to
652 third parties, whose procedures should be reviewed to verify that they are adequate and compliant
653 with applicable requirements.

654 Staff directly performing pharmacovigilance activities, should be appropriately trained in applicable
655 pharmacovigilance legislation and guidelines in addition to specific training in report processing
656 activities for which they are responsible and/or undertake. **Data entry staff should be instructed in the**
657 **use of the terminologies, and their proficiency confirmed.** Other personnel who may receive or process
658 safety reports (e.g. clinical development, sales, medical information, legal, quality control) should be
659 trained in adverse event collection and reporting in accordance with internal policies and procedures.

660 **VI.B.6. Special situations**

661 **VI.B.6.1. Use of a medicinal product during pregnancy or breastfeeding**

662 **a. Pregnancy**

663 Reports, where the embryo or foetus may have been exposed to medicinal products (either through
664 maternal exposure or transmission of a medicinal product via semen following paternal exposure),
665 should be followed-up in order to collect information on the outcome of the pregnancy and
666 development of the child after birth. The recommendations provided in the **Guideline on the Exposure**
667 **to Medicinal Products during Pregnancy: Need for Post-Authorisation Data** (see **GVP Annex III**) **and in**
668 **GVP P. III.** should be considered as regard the monitoring, collection and reporting of information in
669 these specific situations in order to facilitate the scientific evaluation. When an active substance (or
670 one of its metabolites) has a long half-life, this should be taken into account when assessing the
671 possibility of exposure of the embryo, if the medicinal product was taken before conception.

672 Not infrequently, pregnant women or healthcare professionals will contact either competent authorities
673 or marketing authorisation holders to request information on the teratogenicity of a medicinal product
674 and/or experience of use during pregnancy. Reasonable attempts should be made to obtain
675 information on any possible medicinal product exposure to an embryo or foetus and to follow-up on the
676 outcome of the pregnancy.

677 Reports of exposure to medicinal products during pregnancy should contain as many detailed elements
678 as possible in order to assess the causal relationships between any reported adverse events and the
679 exposure to the suspected medicinal product. In this context the use of standard structured
680 questionnaires is recommended.

681 Individual cases with an abnormal outcome associated with a medicinal product following exposure
682 during pregnancy are classified as serious reports and should be **reported submitted**, in accordance with
683 the requirements outlined in **VI.B.7.**²¹ **and with the electronic reporting recommendations provided in**
684 **VI.C.6.2.3.1.**

685 This especially refers to:

- 686 • reports of congenital anomalies or developmental delay, in the foetus or the child;
- 687 • reports of foetal death and spontaneous abortion; and
- 688 • reports of suspected adverse reactions in the neonate that are classified as serious.

²¹ See **VI.C.6.2.3.1** for electronic reporting recommendations in the EU.

689 Other cases, such as reports of induced termination of pregnancy without information on congenital
690 malformation, reports of pregnancy exposure without outcome data or reports which have a normal
691 outcome, should not be ~~reported~~submitted since there is no suspected adverse reaction. These reports
692 should however be collected and discussed in the periodic safety update reports (see [GVP Module VII](#)).

693 However, in certain circumstances, reports of pregnancy exposure with no suspected reactions may
694 necessitate to be ~~reported~~submitted as ICSRs. This may be a condition of the marketing authorisation
695 or stipulated in the risk management plan; for example pregnancy exposure to medicinal products
696 contraindicated in pregnancy or medicinal products with a special need for surveillance because of a
697 high teratogenic potential (e.g. thalidomide, isotretinoin).

698 A signal of a possible teratogen effect (e.g. through a cluster of similar abnormal outcomes) should be
699 notified immediately to the competent authorities in accordance with the recommendations presented
700 in [VI.C.2.2.6](#).

701 **b. Breastfeeding**

702 The guidance provided in [GVP P. III](#), on the conduct of pharmacovigilance for medicines exposed via
703 breastfeeding should be followed. Suspected adverse reactions which occur in infants following
704 exposure to a medicinal product from breast milk should be ~~reported~~submitted in accordance with the
705 criteria outlined in [VI.B.7](#)²² and in line with the recommendations on electronic reporting provided in
706 [VI.C.6.2.3.1](#).

707 **VI.B.6.2. Use of a medicinal product in a paediatric or elderly population**

708 The collection of safety information in the paediatric or elderly population is important. Reasonable
709 attempts should therefore be made to obtain and submit the age or age group of the patient when a
710 case is reported by a healthcare professional, or consumer in order to be able to identify potential
711 safety signals specific to a particular population. ~~General guidance in [VI.B.3](#), on reports follow-up~~
712 ~~should be applied.~~

713 ~~As regards the paediatric population, the guidance published by the Agency²³Guidance provided in [GVP](#)
714 [P. IV](#), on the conduct of pharmacovigilance in this for medicines used in paediatric population, and in
715 [GVP P. V](#), on the conduct of pharmacovigilance for medicines used in elderly population should be
716 followed.~~

717 **VI.B.6.3. Reports of overdose, abuse, off-label use, misuse, medication 718 error or occupational exposure**

719 ~~For the purpose of this Module, medication error refers to any unintentional error in the prescribing,
720 dispensing, or administration of a medicinal product while in the control of the healthcare professional
721 or consumer.~~

722 Definitions of overdose, abuse, off-label use, misuse, medication error or occupational exposure are
723 detailed in [VI.A.2.1.2](#).

724 Reports of overdose, abuse, off-label use, misuse, medication error or occupational exposure with no
725 associated adverse reaction should not be ~~reported~~submitted as ICSRs. They should be considered in
726 periodic safety update reports as applicable. When those reports constitute safety issues impacting on

²² See Footnote 16.

²³ ~~Guideline on conduct of pharmacovigilance for medicines used by the paediatric population.~~

727 the risk-benefit balance of the medicinal product, they should be notified to the competent authorities
728 in accordance with the recommendations provided in [VI.C.2.2.6](#).

729 Reports associated with suspected adverse reactions should be subject to reporting in accordance with
730 the criteria outlined in [VI.B.7](#), and with the electronic reporting requirements described in [VI.C.6.2.3.3](#).
731 They should be routinely followed-up to ensure that the information is as complete as possible with
732 regards to the symptoms, ~~treatments~~ **suspected medicinal products name**, outcomes, context of
733 occurrence (e.g., error in prescription, administration, dispensing, dosage, unauthorised indication or
734 population, etc.).

735 **With regards to reports of medication errors, further guidance concerning their management and**
736 **assessment, provided in the Good Practice Guide on Recording, Coding, Reporting and Assessment of**
737 **Medication Errors²⁴, should be followed.**

738 **VI.B.6.4. Lack of therapeutic efficacy**

739 Reports of lack of therapeutic efficacy should be recorded and followed-up if incomplete. They should
740 not normally be ~~reported, but~~ **submitted as ICSRs if there is no associated suspected adverse reaction,**
741 **but they** should be discussed in periodic safety update reports as applicable- (see [GVP Module VII](#)).
742 However, in certain circumstances, **these** reports of lack of therapeutic efficacy may require to be
743 ~~reported~~ **submitted** within a 15-day time frame (see [VI.C.6.2.3.4](#), as regards electronic reporting in the
744 EU). Medicinal products used in critical conditions or for the treatment of life-threatening diseases,
745 vaccines, contraceptives are examples of such cases. This applies unless the reporter has specifically
746 stated that the outcome was due to disease progression and was not related to the medicinal product.

747 **The requirement to submit these reports of lack of efficacy does not apply when the notification**
748 **occurred in the frame of a non-interventional efficacy study. This is because they refer to the main end**
749 **point of the study. For those efficacy studies, the requirements provided in [VI.C.1.2.1](#), for non-**
750 **interventional post-authorisation studies should be followed.**

751 Clinical judgement should be used when considering if other cases of lack of therapeutic efficacy
752 qualify for reporting. For example, **a report of lack of therapeutic efficacy with** an antibiotic used in a
753 life-threatening situation where the **use of the** medicinal product was not in fact appropriate for the
754 infective agent should not be ~~reported~~ **submitted**. However, **a report of lack of therapeutic efficacy for a**
755 **life-threatening infection, where the lack of therapeutic efficacy which** appears to be due to the
756 development of a newly resistant strain of a bacterium previously regarded as susceptible, should be
757 ~~reported~~ **submitted as ICSR** within 15 days.

758 For vaccines, cases of lack of **therapeutic prophylactic** efficacy should be ~~reported~~ **submitted as ICSRs**,
759 in particular with the view to highlight potential signals of reduced immunogenicity in a sub-group of
760 vaccinees, waning immunity, or strain replacement. With regard to the latter, it is considered that
761 spontaneously reported cases of lack of **therapeutic prophylactic** efficacy by a healthcare professional
762 may constitute a signal of strain replacement. Such a signal may need prompt action and further
763 investigation through post-authorisation safety studies as appropriate. General guidance regarding the
764 monitoring of vaccines failure, provided in the [Report of CIOMS/WHO Working Group on Vaccine](#)
765 [Pharmacovigilance](#)²⁵, may be followed.

²⁴ Ref.: [EMA/762563/2014](#)

²⁵ Council for International Organizations of Medical Sciences (CIOMS). Definition and application of terms of vaccine pharmacovigilance (report of CIOMS/WHO Working Group on Vaccine Pharmacovigilance). Genève: CIOMS; 2012.
Accessible at: <http://www.cioms.ch/>

766 **VI.B.7. Reporting of individual case safety reports (ICSRs)**

767 Only valid ICSRs (see [VI.B.2.](#)) should be ~~reported~~submitted. The clock for the reporting of a valid ICSR
768 starts as soon as the information containing the minimum reporting criteria has been brought to the
769 attention of the national or regional pharmacovigilance centre of a competent authority or of any
770 personnel of the marketing authorisation holder, including medical representatives and contractors.
771 This date should be considered as day zero. It is the first day when a receiver gains knowledge of a
772 valid ICSR, irrespective of whether the information is received during a weekend or public holiday.
773 Reporting timelines are based on calendar days.

774 Where the marketing authorisation holder has set up contractual arrangements with a person or an
775 organisation, explicit procedures and detailed agreements should exist between the marketing
776 authorisation holder and the person/organisation to ensure that the marketing authorisation holder can
777 comply with the reporting obligations. These procedures should in particular specify the processes for
778 exchange of safety information, including timelines and regulatory reporting responsibilities and should
779 avoid duplicate reporting to the competent authorities.

780 For ICSRs described in the scientific and medical literature (see [VI.B.1.1.2.](#)), the clock starts (day
781 zero) with awareness of a publication containing the minimum information for reporting. Where
782 contractual arrangements are made with a person/organisation to perform literature searches and/or
783 report valid ICSRs, detailed agreements should exist to ensure that the marketing authorisation holder
784 can comply with the reporting obligations.

785 When additional significant information is received for a previously ~~reported~~submitted case, the
786 ~~reporting time~~clock ~~starts again~~ starts again from the date of
787 receipt of the relevant follow-up information. For the purpose of reporting, significant follow-up
788 information corresponds to new medical or administrative information that could impact on the
789 assessment or management of a case, or could change its seriousness criteria; non-significant
790 information includes updated comments on the case assessment, or corrections of typographical errors
791 in the previous case version. See also [VI.C.6.2.2.7.](#) as regards the distinction between significant and
792 non-significant follow-up information.

793 **VI.B.7.1. Reporting time frames**

794 In general, the reporting of serious valid ICSRs is required as soon as possible, but in no case later
795 than 15 calendar days after initial receipt of the information by the national or regional
796 pharmacovigilance centre of a competent authority or by any personnel of the marketing authorisation
797 holder, including medical representatives and contractors. This applies to initial and follow-up
798 information. Where a case initially ~~reported~~sent as serious becomes non-serious, based on new follow-
799 up information, this information should still be ~~reported~~submitted within 15 days; the reporting time
800 frame for non-serious reports should then be applied for the subsequent follow-up reports.

801 Information as regards the reporting time frame of non-serious valid ICSRs in the EU is provided in
802 [VI.C.3.](#)

803 ICH-E2B provides a mechanism to the sender to indicate whether the case fulfils the local expedited
804 requirements. Further guidance on this aspect is provided in [VI.C.3.](#)

805 **VI. B.7.2 Report nullification**

806 The nullification of a report should be used to indicate that a previously transmitted ICSR is considered
807 completely void (nullified), for example when the whole case was found to be erroneous. Guidance on
808 ICSRs nullification in line with ICH-E2B is provided in [VI.C.6.2.2.10.](#)

809 **VI.B.7.3. Amendment report**

810 There may be instances, where a report may need to be amended for example when, after an internal
811 review or according to an expert opinion some items have been corrected, such as adverse
812 event/reaction terms, seriousness, seriousness criteria or causality assessment but without receipt of
813 new information that would warrant submission of a follow-up report. The same would apply where
814 documentation mentioned in ICSRs, translations or literature articles are requested by the Agency or
815 other Member States and are further sent as attachments in line with ICH E2B(R3). Further guidance
816 on the amendment of ICSRs in line with ICH-E2B is provided in [VI.C.6.2.2.8.](#)

817 **VI.B.8. Reporting modalities**

818 ~~Taking into account~~Given the international dimension of adverse reactions reporting and the need to
819 achieve harmonisation and high quality between all involved parties, ICSRs should be submitted
820 electronically as structured data with the use of controlled vocabularies for the relevant data elements
821 where applicable.

822 In this aspect, with regard to the content and format of electronic ICSRs, competent authorities and
823 marketing authorisation holders should adhere to the following internationally agreed ICH²⁶ guidelines
824 and standards (see [GVP Annex IV](#)) taking into count the transition from ICH-E2B(R2) to ICH-E2B(R3)
825 formats:

- 826 • [ICH M1 terminology - Medical Dictionary for Regulatory Activities \(MedDRA\)](#) (see [GVP Annex IV](#)),
827 which should be used at the lowest level term for the transmission of ICSRs;
- 828 • [MedDRA Term Selection: Points to Consider Document - The latest version of the ICH-endorsed
829 Guide for MedDRA Users](#) (see [GVP Annex IV](#));
- 830 • ~~[ICH M2 EWG - Electronic Transmission of Individual Case Safety Reports Message Specification
831 \(see \[GVP Annex IV\]\(#\)\)](#)~~
- 832 • ~~[ICH E2B\(R2\) - Maintenance of the ICH Guideline on Clinical Safety Data Management: Data
833 Elements for Transmission of Individual Case Safety Reports \(see \[GVP Annex IV\]\(#\)\)](#)~~
- 834 • ~~[ICH E2B Implementation Working Group - Questions & Answers \(R5\) \(March 3, 2005\) \(see \[GVP
835 Annex IV\]\(#\)\)](#)~~
- 836 • The guidelines applicable based on ICSRs ICH-E2B format:

Reference	Guidelines
ICH-E2B(R2)	<ul style="list-style-type: none"> • ICH-M2 EWG - Electronic Transmission of Individual Case Safety Reports Message Specification (see GVP Annex IV); • ICH-E2B(R2) - Maintenance of the ICH Guideline on Clinical Safety Data Management: Data Elements for Transmission of Individual Case Safety

²⁶ <http://www.ich.org/>

Reference	Guidelines
	<p>Reports (see GVP Annex IV);</p> <ul style="list-style-type: none"> ICH-E2B Implementation Working Group - Questions & Answers (R5) (see GVP Annex IV);
ICH-E2B(R3)	<ul style="list-style-type: none"> ICH Implementation guide package including the ICH-E2B(R3) Implementation Guide for Electronic Transmission of Individual Case Safety Reports (ICSRs) - Data Elements and Message Specification (see GVP Annex IV); ICH-E2B(R3) Implementation Working Group - Electronic Transmission of Individual Case Safety Reports (ICSRs) - Questions & Answers (see GVP Annex IV);

837 As technical standards evolve over time, the above referred documents may require ~~revision and~~
838 maintenance or revision. In this context, the latest version of these documents should always be taken
839 into account.

840 ~~Information regarding~~ EU specific reporting modalities ~~is for~~ ICSRs and the applicable guidelines,
841 definitions, formats, standards and terminologies are provided respectively in [VI.C.4.](#) and [VI.C.6.1.](#)

842

843 VI.C. Operation of the EU network

844 Section C of this Module highlights the EU specific requirements, as defined in Directive 2001/83/EC
845 and Regulation (EC) No 726/2004, in relation to the collection, management and reporting of reports
846 of suspected adverse reactions (serious and non-serious) associated with medicinal products for
847 human use authorised in the EU, independently of their condition of use. They are applicable to
848 competent authorities in Member States and/or to marketing authorisation holders. Section C should
849 be read in conjunction with the definitions and general principles detailed in [VI.A](#) and [VI.B](#) of this
850 [Module](#), and with the requirements provided in chapters IV, V and IX of the Commission Implementing
851 Regulation (EU) No 520/2012 [IR].

852 **VI.C.1. Reporting rules for clinical trials and post-authorisation studies in** 853 **the EU**

854 The pharmacovigilance rules laid down in Directive 2001/83/EC and Regulation (EC) No 726/2004 do
855 not apply to investigational medicinal products (IMPs) and non-investigational medicinal products²⁷
856 (NIMPs) used in clinical trials conducted in accordance with Directive 2001/20/EC²⁸.

857 Post-authorisation safety or efficacy studies requested by competent authorities in Member States or
858 the Agency in accordance with Directive 2001/83/EC or Regulation (EC) No 726/2004, or conducted
859 voluntarily by marketing authorisation holders, can either be clinical trials or non-interventional post-
860 authorisation studies as shown in [Figure VI.1](#). The safety reporting falls therefore either

- 861 • under the scope of Directive 2001/20/EC for any clinical trials; or
- 862 • under the provisions set out in Directive 2001/83/EC and Regulation (EC) No 726/2004 for any
863 non-interventional post-authorisation studies.

864 Suspected adverse reactions should not be ~~reported~~ submitted under both regimes, that ~~is~~ are Directive
865 2001/20/EC as well as Regulation (EC) No 726/2004 and Directive 2001/83/EC, as this creates
866 duplicate reports.

867 Further guidance on post-authorisation safety studies is provided in [GVP Module VIII](#).

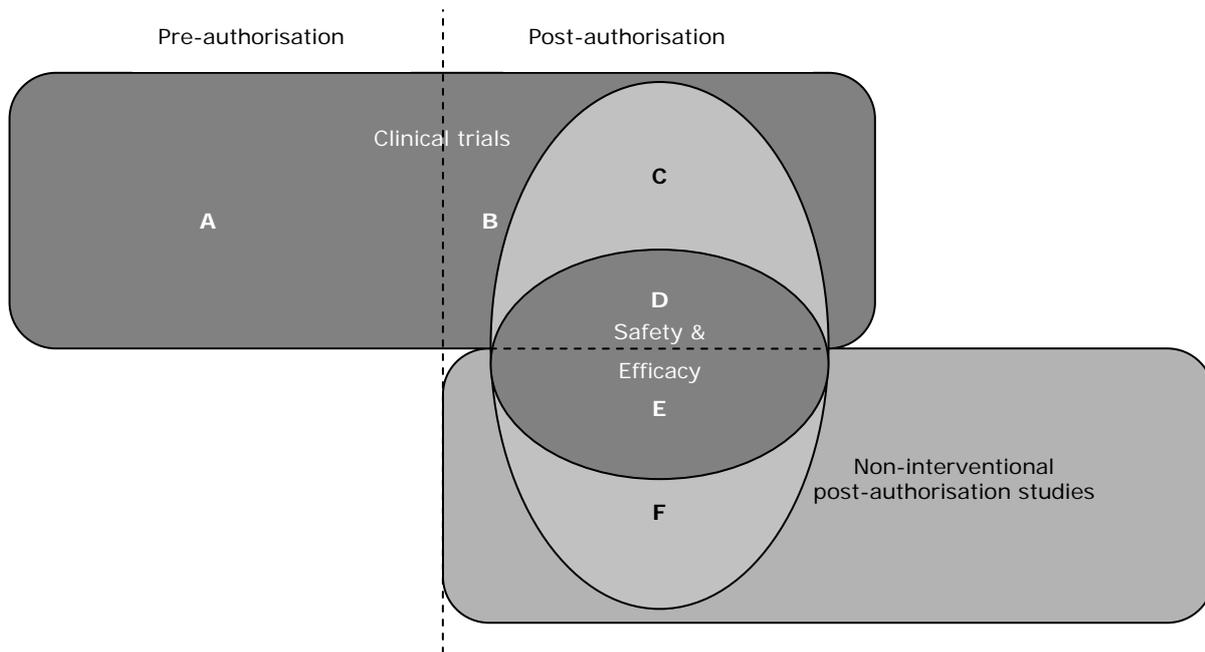
868 The different types of studies and clinical trials which can be conducted in the EU are illustrated in
869 [Figure VI.1](#). The safety reporting for clinical trials corresponding to sections A, B, C and D of [Figure](#)
870 [VI.1](#) follows the requirements of Directive 2001/20/EC. The safety reporting for non-interventional
871 post-authorisation studies corresponding to section E and F follows the requirements of Directive
872 2001/83/EC and Regulation (EC) No 726/2004. The reporting ~~rules~~ rule of reports of suspected adverse
873 reactions to the [appropriate](#) EudraVigilance database modules ~~are dependent~~ depends on the types of
874 organised collection systems where ~~they~~ the reactions occurred; recommendations provided in
875 [VI.C.6.2.1](#) should be followed.

²⁷ For guidance on these terms, see The Rules Governing Medicinal Products in the European Union, Volume 10, Guidance Applying to Clinical Trials, Guidance on Investigational Medicinal Products and Non-Investigational Medicinal Products (NIMPs) ([Ares\(2011\)300458 - 18/03/2011](#)), and the [Detailed guidance on the collection, verification and presentation of adverse event/reaction reports arising from clinical trials on medicinal products for human use \('CT-3'\). \(2011/C 172/01\)](#).

²⁸ See DIR Art 3(3) and Art 107(1) third subparagraph.

876 | **Figure VI.1. Diagram illustrating different types of clinical trials and studies conducted in the**
 877 | **EU**

878



879

- 880 Section A: Clinical trials, which fall under the scope of Directive 2001/20/EC and which are conducted when no
 881 marketing authorisation exists in the EU.
 882 Section B: Clinical trials, which fall under the scope of Directive 2001/20/EC and which are conducted in the post-
 883 authorisation period, e.g. for new indication.
 884 Section C: Post-authorisation clinical trials conducted in accordance with the **summary terms of the marketing**
 885 **authorisation of the medicinal product—characteristics (SmPC) indication and condition of use**, but which fall
 886 under the scope of Directive 2001/20/EC due to the nature of the intervention.
 887 Section D: Post-authorisation safety or efficacy clinical trials requested in accordance with Directive 2001/83/EC or
 888 Regulation (EC) No 726/2004 or conducted voluntarily by marketing authorisation holders, but which fall
 889 under the scope of Directive 2001/20/EC due to the nature of the intervention.
 890 Section E: Non-interventional post-authorisation safety or efficacy studies requested in accordance with Directive
 891 2001/83/EC or Regulation (EC) No 726/2004 or conducted voluntarily by the marketing authorisation holders
 892 and which follow the same legal requirements.
 893 Section F: Non-interventional post-authorisation studies conducted in accordance with **SmPC indication and condition of**
 894 **use the terms of the marketing authorisation of the medicinal product** and which fall under the scope of
 895 Directive 2001/83/EC or Regulation (EC) No 726/2004.

896 VI.C.1.1. Reporting rules for clinical trials

897 A suspected adverse reaction to an investigational medicinal product occurring in a clinical trial which
 898 falls under the scope of Directive 2001/20/EC is only to be addressed by the sponsor based on the
 899 requirements detailed in that Directive. It is therefore excluded from the scope of this Module even if
 900 the clinical trial where the suspected adverse reaction occurred is a post-authorisation safety or
 901 efficacy study, requested in accordance with Directive 2001/83/EC or Regulation (EC) No 726/2004, or
 902 conducted voluntarily.

903 If a clinical trial, conducted under the scope of Directive 2001/20/EC, yields safety concerns which
 904 impact on the risk-benefit balance of an authorised medicinal product, the competent authorities in the
 905 Member States where the medicinal product is authorised and the Agency should be notified
 906 immediately in accordance with the modalities detailed in [VI.C.2.2.6](#). This applies as well if a safety
 907 concern arises from a clinical trial conducted exclusively outside the EU.

908 The safety data from clinical trials to be presented in the relevant sections of the periodic safety
 909 update report of the authorised medicinal product are detailed in [GVP Module VII](#).

910 Where an untoward and unintended response originating from a clinical trial conducted in accordance
911 with Directive 2001/20/EC, is suspected to be related only to a ~~non-investigational~~ medicinal product
912 ~~(or another medicinal product, which is not part of other than the clinical trial protocol)~~ IMP or NIMP and
913 does not result from a possible interaction with the ~~investigational medicinal product~~ IMP or NIMP, it
914 does not follow the expedited reporting requirements of Directive 2001/20/EC, ~~which apply only to the~~
915 ~~investigational medicinal product~~. The investigator or the sponsor is encouraged to report the case to
916 the competent authority in the Member State where the reaction occurred or to the marketing
917 authorisation holder of the suspected medicinal product, but not to both to avoid duplicate reporting²⁹.
918 Where made aware of such case, the competent authority or the marketing authorisation holder should
919 apply the reporting requirements described in [VI.C.3.1](#), [VI.C.4](#) and [VI.C.6.1](#). As regards electronic
920 reporting, the recommendations detailed in [VI.C.6.2.3.7](#), **subsection 3** should be followed.

921 **VI.C.1.2. Reporting rules for non-interventional post-authorisation studies,** 922 **compassionate use and named patient use**

923 This Section applies to non-interventional post-authorisation studies, compassionate use and named
924 patient use. For these organised data collection schemes, a system should be put in place to record
925 and document complete and comprehensive case information on solicited adverse events³⁰ (see [GVP](#)
926 [Annex I](#)) which need to be collected as specified in [VI.C.1.2.1](#) and in [VI.C.1.2.2](#). ~~These~~ In line with
927 [ICH-E2D](#) (see [GVP Annex IV](#)), ~~these~~ adverse events should be systematically assessed to determine
928 whether they are possibly related to the studied (or supplied) medicinal products ~~(see ICH-E2D (see~~
929 ~~GVP Annex IV))~~. A method of causality assessment should be applied for assessing the causal role of
930 the studied (or supplied) medicinal products in the solicited adverse events (for example, the [WHO-](#)
931 [UMC system for standardised case causality assessment](#)). An adverse event should be classified as an
932 adverse reaction, if there is at least a reasonable possibility of causal relationship. Only valid ICSRs
933 (see [VI.B.2](#)) of adverse reactions, which are suspected to be related to the studied (or supplied)
934 medicinal product by the primary source or the receiver of the case, should be ~~reported~~ submitted in
935 accordance with the requirements provided in [VI.C.3](#), [VI.C.4](#) and [VI.C.6.2.3.7](#). Other reports of
936 adverse events should be summarised as part of any interim safety analysis and in the final study
937 report, where applicable. In situations where adverse reactions are suspected to be related to
938 medicinal products other than the studied (or supplied) medicine, these reports should be managed,
939 classified and ~~reported~~ submitted as spontaneous ICSRs. They should be notified by the primary source
940 to the competent authority in the Member State where the reactions occurred or to the marketing
941 authorisation holder of the suspected medicinal product, but not to both (to avoid duplicate reporting).

942 Where made aware, in the frame of these organised data collection schemes, of events which affect
943 the known risk-benefit balance of the studied (or supplied) medicinal product and/or impact on public
944 health, the marketing authorisation holder should notify the concerned competent authorities and the
945 Agency in accordance with the modalities detailed in [VI.C.2.2.6](#).

946 Further guidance on post-authorisation studies conducted by marketing authorisation holders is
947 provided in [VI.C.2.2.2](#).

948 The requirements provided in this Module do not apply to non-interventional post-authorisation studies
949 conducted by organisations such as academia, medical research charities or research organisations in
950 the public sector. These organisations should follow local requirements as regards the reporting of
951 cases of suspected adverse reactions to the competent authority in the Member State where the

²⁹ See The Rules Governing Medicinal Products in the European Union, Volume 10, [Detailed guidance on the collection, verification and presentation of adverse event/reaction reports arising from clinical trials on medicinal products for human use \('CT-3'\), \(2011/C 172/01\)](#).

³⁰ See [GVP Annex I](#) for definition of adverse event.

952 reaction occurred. However, where a study conducted by one of these organisations is directly
953 initiated, managed, financed, or where its design is controlled by a marketing authorisation holder
954 (voluntarily or pursuant to obligations imposed in accordance with Articles 21a or 22a of Directive
955 2001/83/EC and Articles 10 or 10(a) of Regulation 726/2004), the requirements provided in this
956 Module are applicable³¹. In this context, contractual agreements should be in place to clearly define
957 the role and responsibilities for implementing these requirements (see [GVP Module I](#)).

958 **VI.C.1.2.1. Non-interventional post-authorisation studies**

959 Non-interventional post-authorisation studies³² (see [GVP Annex I](#)) should be distinguished between
960 those with primary data collection directly from healthcare professionals or consumers and study
961 designs which are based on the secondary use of data. Depending on the study design, the
962 requirements provided hereafter apply³³. In case of doubt, the reporting requirements should be
963 clarified with the concerned competent authorities in Member States. National legislation should be
964 followed as applicable regarding the obligations towards local ethics committees.

965 **a. Non-interventional post-authorisation studies with primary data collection**

966 Information on all adverse events should be collected from healthcare professionals or consumers in
967 the course of the study unless the protocol provides differently with a due justification for not collecting
968 certain adverse events. For all collected adverse events, comprehensive and high quality information
969 should be sought in a manner which allow for valid ICSRs to be **reportedsubmitted** within the
970 appropriate timeframes (see [VI.C.3.](#)).

971 For all collected adverse events, cases of adverse reactions, which are suspected to be related to the
972 studied medicinal product by the primary source or the receiver of the case, should be
973 **reportedsubmitted** in accordance with the requirements provided in [VI.C.3.](#) and [VI.C.4.](#). Valid ICSRs
974 should be classified as solicited reports (see [VI.C.2.2.2.](#) and [VI.C.6.2.3.7.](#)). See summary in [Table](#)
975 [VI.1.](#).

976 All fatal outcomes should be considered as adverse events which should be collected. In certain
977 circumstances, suspected adverse reactions with fatal outcome may not be subject to **expedited**
978 reporting as ICSRs, for example because they refer to study outcomes (efficacy end points), because
979 the patients included in the study have a disease with high mortality, or because the fatal outcomes
980 have no relation to the objective of the study. For these particular situations, the rationale for not
981 reporting **as ICSRs** certain adverse reactions with fatal outcomes should be clearly described in the
982 protocol.

983 All collected adverse events should be summarised as part of any interim safety analysis and in the
984 final study report.

³¹ This does not concern donation of a medicinal product for research purpose if the marketing authorisation holder has no control on the study.

³² ~~See [GVP Annex I](#) for definition of non-interventional study.~~

³³ For combined study designs ~~with~~ based on primary ~~and secondary~~ data collection **and secondary use of data**, the same requirements as for studies with primary data collection should be followed.

985 **Table VI.1. ~~Non-interventional post-authorisation studies with primary data collection:~~** Requirements
 986 concerning adverse events collection and suspected adverse reactions reporting: ~~for non-interventional~~
 987 ~~post-authorisation studies with primary data collection~~

	Adverse events for which the protocol does not provide differently requires their systematic collection and those with fatal outcomes
Collection requirements	<ul style="list-style-type: none"> • Collect comprehensive and high quality information. • Perform causality assessment.
Reporting requirements for suspected adverse reactions	<ul style="list-style-type: none"> • Cases of adverse reactions, which are suspected to be related to the studied medicinal product by the primary source or the receiver of the case, should be reportedsubmitted in the form of valid ICSRs in line with the appropriate timeframes (See VI.C.3)see <u>VI.C.3</u>). • In certain circumstances, fatal outcome may not be subject to expedited reporting as ICSRs. A justification should always be provided in the protocol.
Reporting requirements for adverse events	<ul style="list-style-type: none"> • Summarise all collected adverse events as part of any interim safety analysis and in the final study report.

988 For adverse events for which the protocol ~~provides differently and~~ does not require their systematic
 989 collection, healthcare professionals and consumers should be informed in the protocol (or other study
 990 documents) of the possibility to report adverse reactions (for which they suspect a causal role of a
 991 medicine) to the marketing authorisation holder of the suspected medicinal product (studied or not) or
 992 to the concerned competent ~~authorities~~authority via the national spontaneous reporting system.
 993 ~~Valid~~The resulting valid ICSRs should be managed, classified and ~~reported~~submitted as spontaneous
 994 (see VI.C.6.2.3.7, subsection 2) by the ~~receiver of the reports-notified competent authority or~~
 995 ~~marketing authorisation holder~~. When made aware of them, these reports should also be summarised
 996 ~~by the marketing authorisation holder~~ in the relevant study reports.

997 **b. *Non-interventional post-authorisation studies based on secondary use of data***

998 The design of such studies is characterised by the secondary use of data previously collected from
 999 consumers or healthcare professionals for other purposes. Examples include medical chart reviews
 1000 (including following-up on data with healthcare professionals), analysis of electronic healthcare
 1001 records, systematic reviews, meta-analyses.

1002 For these studies, the reporting of suspected adverse reactions in the form of ICSRs is not required.
 1003 Reports of adverse events/reactions should be summarised as part of any interim safety analysis and
 1004 in the final study report unless the protocol provides for different reporting.

1005 **VI.C.1.2.2. *Compassionate use and named patient use***

1006 The guidance provided in this Module applies, ~~subject to amendments where appropriate,~~ to medicinal
 1007 products supplied in the context of compassionate use as defined in Article 83(2) of Regulation (EC) No
 1008 726/2004, ~~subject to and without prejudice to applicable national law in the EU Member States~~. As the
 1009 case may be, this guidance may also apply to named patient use as defined under Article 5(1) of
 1010 Directive 2001/83/EC. Local requirements should be followed as applicable.

1011 Where an organisation³⁴ or a healthcare professional, supplying a medicinal product under
1012 compassionate use or named patient use, is notified or becomes aware of an adverse event, it should
1013 be managed as follows depending on the requirements in the concerned Member State:

- 1014 • For compassionate use and named patient use conducted in Member States where the active
1015 collection of adverse events occurring in these programmes is required, reports of adverse
1016 reactions, which are suspected to be related to the supplied medicinal product by the primary
1017 source or the receiver of the case, should be ~~reported-submitted as ICSRs~~. They should be
1018 considered as solicited reports (see [VI.C.2.2.2](#) and [VI.C.6.2.3.7](#)); ~~subsection 1~~).
- 1019 • For compassionate use and named patient use conducted in Member States where the active
1020 collection of adverse events occurring in these programmes is not required, any notified noxious or
1021 unintended response to the supplied medicinal product should be ~~reported-submitted as ICSR~~. It
1022 should be considered as a spontaneous report of suspected adverse reaction; ~~(see [VI.C.6.2.3.7](#)~~
1023 ~~subsection 2~~).

1024 **VI.C.2. Collection of reports**

1025 **VI.C.2.1. Responsibilities of Member States**

1026 Each Member State shall have in place a system for the collection and recording of unsolicited and
1027 solicited reports of suspected adverse reactions that occur in its territory and which are brought to its
1028 attention by healthcare professionals, consumers, or marketing authorisation holders³⁵ [DIR Art 101(1)
1029 and 107a(1)]. In this context, competent authorities in Member States shall establish procedures for
1030 collecting and recording all reports of suspected adverse reactions that occur in their territory [IR Art
1031 15 (2)]. The general principles detailed in [VI.B.7](#), together with the reporting modalities presented in
1032 [VI.C.3](#), [VI.C.4](#) and [VI.C.6](#) ~~should be applied to those reports~~; ~~should be applied to those reports~~.
1033 ~~Member States shall involve patients and healthcare professionals, as appropriate, in the follow-up of~~
1034 ~~any reports they receive in order to comply with Article 102(c) and (e) [DIR Art 107a(1)].~~
1035 ~~Furthermore, for reports submitted by a marketing authorisation holder, Member States on whose~~
1036 ~~territory the suspected adverse reaction occurred may involve the marketing authorisation holder in~~
1037 ~~the follow-up of the reports [DIR Art 107a(2)]. In support of the operation of these follow-up~~
1038 ~~procedures, business process maps and process descriptions are provided in [VI.App.1.2](#) and~~
1039 ~~[VI.App.1.3](#). The criteria upon which competent authorities in Member States may involve a marketing~~
1040 ~~authorisation holder in the follow-up of individual cases refer to the need to seek clarifications on~~
1041 ~~inconsistent data in ICSRs, but also to the need to obtain further information in the context of the~~
1042 ~~validation of a signal, the evaluation of a safety issue, the assessment of a periodic safety update~~
1043 ~~report or the confirmation of a safety concern in a risk management plan. Further guidance on the~~
1044 ~~follow-up of ICSRs is provided in [VI.B.3](#).~~

1045 Pharmacovigilance data and documents relating to individual authorised medicinal products shall be
1046 retained as long as the product is authorised and for at least 10 years after the marketing
1047 authorisation has expired. However, the documents shall be retained for a longer period where Union
1048 law or national law so requires [IR Art 16(2)].

1049 Each Member State shall take all appropriate measures to encourage healthcare professionals and
1050 consumers in their territory to report suspected adverse reactions to their competent authority. In
1051 addition, the competent authority in a Member State may impose specific obligations on healthcare

³⁴ E.g. sponsor, applicant, marketing authorisation holder, hospital or wholesaler.

³⁵ Marketing authorisation holders shall report ICSRs to the competent authorities in Member States in accordance with the transitional provisions set out in Article 2(4) and Article 2(5) of Directive 2010/84/EU and further detailed in [VI.C.4.1](#).

1052 professionals. To this end, competent authorities in Member States shall facilitate in their territory the
1053 reporting of suspected adverse reactions by means of alternative straightforward reporting systems,
1054 accessible to healthcare professionals and consumers, in addition to web-based formats [DIR Art 102].
1055 Information on the different ways of reporting suspected adverse reactions related to medicinal
1056 products, shall be made publicly available including by means of national medicines web-based portals
1057 [DIR 106(e)]. To increase awareness of the reporting systems, organisations representing consumers
1058 and healthcare professionals may be involved as appropriate [DIR Art 102].

1059 ~~Standard~~In line with Article 25 of Regulation (EC) No 726/2004, standard web-based structured forms
1060 for the reporting of suspected adverse reactions by healthcare professionals and consumers shall
1061 ~~behave been~~ developed by the ~~Agency~~Member States in collaboration with ~~Member States~~the Agency
1062 in order to collect across the EU harmonised information relevant for the evaluation of suspected
1063 adverse reactions, including errors associated with the use of medicinal products ~~[REG Art 25]. In this~~
1064 ~~context, core data fields for reporting will be made available by the Agency to the competent~~
1065 ~~authorities in Member States for use in their national reporting systems as applicable.~~

1066 The reports of suspected adverse reactions received from healthcare professionals and consumers
1067 should be acknowledged where appropriate and further information should be provided to the reporters
1068 as requested and when available.

1069 ~~For reports submitted by a marketing authorisation holder, Member States on whose territory the~~
1070 ~~suspected adverse reaction occurred may involve the marketing authorisation holder in the follow-up~~
1071 ~~of the reports [DIR Art 107a(2)].~~

1072 ~~Each Member State~~ shall ensure that the ~~competent authority~~reports of suspected adverse reactions
1073 arising from an error associated with the use of a medicinal product that are brought to their attention
1074 are made available to the EudraVigilance database and to any authorities, bodies, organisations and/or
1075 institutions, responsible for patient safety within that Member State. They shall also ensure that the
1076 ~~authorities~~ responsible for medicinal products within that Member State ~~is~~are informed of any
1077 suspected adverse ~~reaction, reactions~~ brought to the attention of any other authority, ~~body, institution~~
1078 ~~or organisation responsible for patient safety within that Member State, and that valid ICSRs are made~~
1079 ~~available to the EudraVigilance database. Therefore, where reports of suspected adverse reactions are~~
1080 ~~sent directly to other authorities, bodies, organisations and/or institutions within a Member State, the~~
1081 ~~competent authority in that Member State shall have data exchange agreements in place so that these~~
1082 ~~reports are brought to its attention and are made available to EudraVigilance in a timely manner [DIR~~
1083 ~~Art 107a(5)]. This applies as well to reports of suspected adverse reactions arising from an error~~
1084 ~~associated with the use of a medicinal product. These error reports of suspected adverse reactions for~~
1085 ~~which a competent authority in a Member State is made aware of, including those received from the~~
1086 ~~EudraVigilance database in accordance with Article 24(4) of Regulation (EC) No 726/2004, shall also be~~
1087 ~~brought to the attention of other authorities, bodies, organisations and/or institutions responsible for~~
1088 ~~patient safety within that Member State [DIR Art 107a(5)].~~ within that Member State [DIR Art
1089 107a(5)]

1090 To facilitate such reporting, it may be necessary to implement data exchange agreements or other
1091 arrangements, as appropriate.

1092 Unless there are justifiable grounds resulting from pharmacovigilance activities, individual Member
1093 States shall not impose any additional obligations on marketing authorisation holders for the reporting
1094 of suspected adverse reactions [DIR Art 107a(6)].

1095 VI.C.2.2. Responsibilities of the marketing authorisation holder in the EU

1096 Each marketing authorisation holder shall have in place a system for the collection and recording of all
1097 reports of suspected adverse reactions which are brought to its attention, whether reported
1098 spontaneously by healthcare professionals or consumers or occurring in the context of a post-
1099 authorisation study [DIR Art 104(1), Art 107(1)]. Marketing authorisation holders shall establish
1100 procedures in order to obtain accurate and verifiable data for the scientific evaluation of suspected
1101 adverse reaction reports [Dir Art 107(4)]. They shall not refuse to consider reports of suspected
1102 adverse reactions received electronically or by any other appropriate means from patients and
1103 healthcare professionals [Art 107(2)]. ~~All those reports shall be accessible at a single point within the~~
1104 ~~Union [Dir Art 107(1)].~~

1105 All these reports of suspected adverse reactions shall be accessible at a single point within the Union
1106 [Dir Art 107(1)]. Marketing authorisation holders shall also collect follow-up information on these
1107 reports and submit the updates to the Eudravigilance database [Dir Art 107(4)]. In support of the
1108 operation of the follow-up procedures, a business process map and a process description are provided
1109 in VI.App.1.1. General guidance on the following-up of reports of suspected adverse reactions is
1110 provided in VI.B.3. Marketing authorisation holders shall establish mechanisms enabling the
1111 traceability and follow-up of adverse reaction reports while complying with the data protection
1112 legislation [IR Art 12 (1)]. Pharmacovigilance data and documents relating to individual authorised
1113 medicinal products shall be retained as long as the product is authorised and for at least 10 years after
1114 the marketing authorisation has ceased to exist. However, the documents shall be retained for a longer
1115 period where Union law or national law so requires [IR Art 12 (2)].

1116 With regard to the collection and recording of reports of suspected adverse reactions, marketing
1117 authorisation holders responsibilities apply to reports related to medicinal products (see VI.A.2.2.) for
1118 which ownership cannot be excluded on the basis of one the following criteria: medicinal product
1119 name, active substance name, pharmaceutical form, batch number or route of administration.
1120 Exclusion based on the primary source country or country of origin of the adverse reaction is possible if
1121 the marketing authorisation holder can demonstrate that the suspected medicinal product has never
1122 been supplied or placed on the market in that territory or that the product is not a travel medicine
1123 (e.g., anti-malarial medicinal product).

1124 The marketing authorisation holder shall ensure that any information on adverse reactions, suspected
1125 to be related to at least one of the active substances of its medicinal products authorised in the EU, is
1126 brought to its attention by any company outside the EU belonging to the same mother company (or
1127 group of companies)³⁶. The same applies to the marketing authorisation holder when having
1128 concluded a commercial agreement with a company outside the EU for one of its medicinal product
1129 authorised in the EU. Pursuant to Dir Art 107(1), those reports of suspected adverse reactions shall
1130 also be accessible at a single point within the EU. The clock for reporting (see VI.B.7.) starts when a
1131 valid ICSR is first received by one of these companies outside the EU.

1132 In addition to the requirements presented in this Section, the general principles detailed in Section
1133 VI.B., together with the reporting modalities presented in VI.C.3., VI.C.4. and VI.C.6. should be
1134 applied by marketing authorisation holders to all reports of suspected adverse reactions.

³⁶ As outlined in the Commission Communication on the Community Marketing Authorization Procedures for Medicinal Products (98/C 229/03).

1135 **VI.C.2.2.1. Spontaneous reports**

1136 Marketing authorisation holders shall record all reports of suspected adverse reactions originating from
1137 within or outside the EU, which are brought to their attention spontaneously by healthcare
1138 professionals⁷ or consumers. This includes reports of suspected adverse reactions received
1139 electronically or by any other appropriate means [DIR Art 107(1), Art 107(2)]. In this context,
1140 marketing authorisation holders may consider utilising their websites to facilitate the collection of
1141 reports of suspected adverse reactions by providing adverse reactions forms for reporting, or
1142 appropriate contact details for direct communication (see [VI.B.1.1.4.](#)).

1143 **VI.C.2.2.2. Solicited reports**

1144 In accordance with Art 107(1) of Directive 2001/83/EC, marketing authorisation holders shall record all
1145 reports of suspected adverse reactions originating from within or outside the EU, which occur in post-
1146 authorisation studies, initiated, managed, or financed by them³⁷. For non-interventional post-
1147 authorisation studies, this requirement applies to study designs based on primary data collection and
1148 the guidance provided in [VI.C.1.2.1.](#) should be followed. For all solicited reports (see [VI.B.1.2.](#)),
1149 marketing authorisation holders should have mechanisms in place to record and document complete
1150 and comprehensive case information and to evaluate that information, in order to allow meaningful
1151 assessment of individual cases and reporting of valid ICSRs (see [VI.B.2.](#)) related to the studied (or
1152 supplied) medicinal product. Marketing authorisation holders should therefore exercise due diligence in
1153 establishing such system, in following-up those reports (see [VI.B.3.](#)) and in seeking the view of the
1154 primary source as regard the causal role of the studied (or supplied) medicinal product on the notified
1155 adverse event. Where this opinion is missing, the marketing authorisation holder should exercise its
1156 own judgement based on the information available in order to decide whether the report is a valid
1157 ICSR, which should be **reported submitted** to the competent authorities. This requirement does not
1158 apply to study designs based on secondary use of data since reporting of ICSRs is not required (see
1159 [VI.C.1.2.1.](#)). Safety data from solicited reports to be presented in the relevant sections of the periodic
1160 safety update report of the authorised medicinal product are detailed in **GVP [Module VII.](#)**

1161 **VI.C.2.2.3. Case reports published in the scientific literature**

1162 General principles in relation to the monitoring for individual cases of suspected adverse reactions
1163 described in the scientific and medical literature are provided in [VI.B.1.1.2.](#) **As Detailed guidance on**
1164 **the monitoring of the scientific and medical literature is provided in [VI.App.2.](#) Electronic reporting**
1165 **recommendations for ICSRs published in the scientific and medical literature are provided in**
1166 **[VI.C.6.2.3.2.](#)**

1167 **With** regards the screening of the scientific and medical literature, the requirements provided in this
1168 Module are part of the **reporting of individual cases of suspected adverse reactions as well as wider**
1169 **literature searches which need to be conducted for periodic safety update reports (see [GVP \[Module\]\(#\)](#)**
1170 **[VII.](#)**

1171 **VI.C.2.2.3.1 Monitoring of medical literature by the European Medicines Agency**

1172 **The Agency shall monitor selected medical literature for reports of suspected adverse reactions to**
1173 **medicinal products containing certain active substances. It shall publish a list of active substances**
1174 **being monitored and the medical literature subject to this monitoring. The Agency shall enter into the**

³⁷ This does not concern donation of a medicinal product for research purpose if the marketing authorisation holder has no control on the study.

1175 EudraVigilance database relevant information from the selected medical literature. The Agency shall, in
1176 consultation with the European Commission, Member States and interested parties, draw up a detailed
1177 guide regarding the monitoring of medical literature and the entry of relevant information into the
1178 EudraVigilance database [REG Art 27].

1179 The medical literature and the active substances subject to the monitoring by the Agency are published
1180 at a dedicated webpage³⁸ of the Agency's website together with supporting documents. Further
1181 information is also provided in the Detailed Guide Regarding the Monitoring of Medical Literature and
1182 the Entry of Relevant Information into the EudraVigilance Database by the European Medicines
1183 Agency³⁹, which defines the different steps of the medical literature monitoring (MLM) business
1184 processes.

1185 In accordance with Article 107(3) of Directive 2001/83/EC, ~~in order and~~ to avoid the reporting of
1186 duplicate ICSRs, marketing authorisation holders shall only report those ICSRs described in the
1187 scientific and medical literature which is not reviewed by the Agency, for all medicinal products
1188 containing active substances which are not included in the list monitored by the Agency pursuant to
1189 Article 27 of Regulation (EC) No 726/2004. ~~Until such lists of scientific and medical literature and~~
1190 ~~active substance names are published by the Agency, marketing authorisation holders should monitor~~
1191 ~~all the active substances for which they hold a marketing authorisation in the EU by accessing a widely~~
1192 ~~used systematic literature review and reference database, in line with the principles detailed in~~
1193 ~~VI.B.1.1.2 and in VI. Appendix 2.~~

1194 ~~Articles can be excluded from the reporting of ICSRs by the marketing authorisation holder if another~~
1195 ~~company's branded medicinal product is the suspected medicinal product. In the absence of a specified~~
1196 ~~medicinal product source and/or invented name, ownership of the medicinal product should be~~
1197 ~~assumed for articles about an active substance, unless alternative reasons for exclusion detailed~~
1198 ~~hereafter apply.~~

1199 ***VI.C.2.2.3.2 Exclusion criteria for the reporting of ICSRs published in the scientific literature***

1200 The following exclusion criteria for ICSR reporting by marketing authorisation holders apply for
1201 individual cases published in the scientific literature:

- 1202 a. where ownership of the medicinal product by the marketing authorisation holder can be excluded
1203 on the basis of the criteria detailed in [VI.C.2.2.1](#); medicinal product name, active substance
1204 name, pharmaceutical form, batch number or route of administration;
- 1205 b. ~~for individual case safety reports identified in the scientific and medical literature that~~
1206 ~~originate~~ ~~which originates~~ in a country where a company holds a marketing authorisation but has
1207 never commercialised the medicinal product;
- 1208 c. ~~for literature ICSRs~~ which ~~are~~ based on an analysis from a competent authority database within
1209 the EU. ~~The~~ However, the reporting requirements remain for those ICSRs which are based on the
1210 analysis from a competent authority database outside the EU;
- 1211 d. ~~for literature articles,~~ which ~~present~~ presents aggregated data analyses or line listings from
1212 publicly available databases ~~or,~~ e.g. poison control centres,
- 1213 e. which ~~summarises~~ summarises results from post-authorisation studies (~~see~~ [VI.C.1.2](#)). ~~This type of~~
1214 ~~literature article or literature reviews,~~

³⁸ [Monitoring of medical literature and entry of adverse reaction reports into EudraVigilance](#)

³⁹ Ref.: (Doc Ref. [EMA/161530/2014](#))

1215 f. which describes suspected adverse reactions, which occur in a group of patients with a designated
1216 medicinal product ~~with the aim of and individual patients cannot be identified for creating valid~~
1217 case reports.

1218 For points d to f, this type of literature aims at identifying or quantifying a safety hazard related to a
1219 medicinal product, ~~and aggregated data on patients are often presented in tables or line listings.~~ The
1220 main objective ~~of those studies~~ is to detect/evaluate specific risks that could affect the overall risk-
1221 benefit balance of a medicinal product.

1222 New and significant safety findings presented in these articles, for which reporting is not required,
1223 should however be discussed in the relevant sections of the concerned periodic safety update report
1224 (see GVP Module VII) and analysed as regards their overall impact on the medicinal product risk-
1225 benefit profile. In addition, any new safety information, which may impact on the risk-benefit profile of
1226 a medicinal product, should be notified immediately to the competent authorities in Member States
1227 where the medicinal product is authorised and to the Agency in accordance with the recommendations
1228 provided in VI.C.2.2.6.

1229 ~~A detailed guidance on the monitoring of the scientific and medical literature has been developed in~~
1230 ~~accordance with Article 27(3) of Regulation (EC) No 726/2004; it is included in VI. Appendix 2.~~

1231 ~~The electronic reporting recommendations regarding suspected adverse reactions reports published in~~
1232 ~~the scientific and medical literature are provided in VI.C.6.2.3.2.~~

1233 **VI.C.2.2.4. Suspected adverse reactions related to quality defect or falsified medicinal** 1234 **products**

1235 When a report of suspected adverse reactions is associated with a suspected or confirmed falsified
1236 medicinal product ~~or (see GVP Annex I) or with a~~ quality defect of a medicinal product, a valid ICSR
1237 should be ~~reported~~ submitted. The seriousness of the ICSR is linked to the seriousness of the reported
1238 suspected adverse reactions in accordance with the definitions provided in VI.A.2.4. Electronic
1239 reporting recommendations provided in VI.C.6.2.3.5. should be followed.

1240 In addition in order to protect public health, it may become necessary to implement urgent measures
1241 such as the recall of one or more defective batch(es) of a medicinal product from the market.
1242 Therefore, marketing authorisation holders should have a system in place to ensure that reports of
1243 suspected adverse reactions related to falsified medicinal products or to quality defects of a medicinal
1244 products are investigated in a timely fashion and that confirmed quality defects are notified separately
1245 to the manufacturer and to competent authorities in accordance with the provisions described in Article
1246 13 of Directive 2003/94/EC.

1247 **VI.C.2.2.5. Suspected transmission via a medicinal product of an infectious agent**

1248 For the purposes of reporting, any suspected transmission of an infectious agent via a medicinal
1249 product (including vaccines) should be considered as a serious adverse reaction and such cases should
1250 be ~~reported~~ submitted within 15 days in accordance with the requirements outlined in VI.C.4.⁴⁰. If no
1251 other criterion is applicable, the seriousness of this ICSR should be considered as important medical
1252 event (see VI.A.2.4.). This also applies to vaccines. Electronic reporting recommendations provided in
1253 ~~VI.C.6.2.3.6-VI.C.6.2.3.6.~~ should be followed.

1254 In the case of medicinal products derived from human blood or human plasma, haemovigilance
1255 procedures may also apply in accordance with Directive 2002/98/EC. Therefore the marketing

⁴⁰ See VI.C.6.2.3.6. for electronic reporting recommendations.

1256 authorisation holder should have a system in place to communicate suspected transmission via a
1257 medicinal product of an infectious agent to the manufacturer, the relevant blood establishment(s) and
1258 national competent authorities in Member States.

1259 Any organism, virus or infectious particle (e.g. prion protein transmitting transmissible spongiform
1260 encephalopathy), pathogenic or non-pathogenic, is considered an infectious agent.

1261 A transmission of an infectious agent may be suspected from clinical signs or symptoms, or laboratory
1262 findings indicating an infection in a patient exposed to a medicinal product.

1263 Emphasis should be on the detection of infections/infectious agents known to be potentially
1264 transmitted via a medicinal product, but the occurrence of unknown agents should also always be
1265 considered.

1266 In the context of evaluating a suspected transmission of an infectious agent via a medicinal product,
1267 care should be taken to discriminate, whenever possible, between the cause (e.g. injection/
1268 administration) and the source (e.g. contamination) of the infection and the clinical conditions of the
1269 patient at the time of the infection (immuno-suppressed /vaccinee).

1270 Confirmation of contamination (including inadequate inactivation/attenuation of infectious agents as
1271 active substances) of the concerned medicinal product increases the evidence for transmission of an
1272 infectious agent and may therefore be suggestive of a quality defect for which the procedures detailed
1273 in [VI.C.2.2.4.](#) should be applied.

1274 Medicinal products should comply with the recommendations provided in the Note for Guidance on
1275 Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and
1276 Veterinary Products⁴¹. For advanced therapy medicinal products, Article 14(5) of [Regulation \(EC\) No
1277 1394/2007](#) and the Guideline on Safety and Efficacy Follow-up - Risk Management of Advanced
1278 Therapy Medicinal Products⁴², should also be followed as appropriate.

1279 **VI.C.2.2.6. Emerging safety issues**

1280 Events may occur, which do not fall within the definition of reportable valid ICSRs, and thus are not
1281 subject to the reporting requirements, even though they may lead to changes in the known risk-benefit
1282 balance of a medicinal product and/or impact on public health. ~~Examples include:~~

- 1283 ~~• major safety findings from a newly completed non-clinical study;~~
- 1284 ~~• major safety concerns identified in the course of a non-interventional post-authorisation study or of~~
1285 ~~a clinical trial;~~
- 1286 ~~• signal of a possible teratogen effect or of significant hazard to public health;~~
- 1287 ~~• safety issues published in the scientific and medical literature;~~
- 1288 ~~• safety issues arising from the signal detection activity (see [Module IX](#)) or emerging from a new~~
1289 ~~ICSR and which impact on the risk-benefit balance of the medicinal product and/or have~~
1290 ~~implications for public health;~~
- 1291 ~~• safety issues related to the use outside the terms of the marketing authorisation;~~
- 1292 ~~• safety issues due to misinformation in the product information;~~

⁴¹ Latest revision. (Ref.: [EMA/410/01](#))

⁴² Ref.: [EMA/149995/2008](#)

- 1293 ~~• marketing authorisation withdrawal, non-renewal, revocation or suspension outside the EU for~~
- 1294 ~~safety-related reasons;~~
- 1295 ~~• urgent safety restrictions outside the EU;~~
- 1296 ~~• safety issues in relation to the supply of raw material;~~
- 1297 ~~• lack of supply of medicines.~~

1298 These events/observations, which may affect the risk-benefit balance of a medicinal product, are not to
1299 be submitted as ICSRs. ~~They should be notified as emerging safety issues in writing to the competent~~
1300 ~~authorities in Member States where the medicinal product is authorised and to the Agency via email~~
1301 ~~(P-PV-emerging-safety-issue@ema.europa.eu); this should be done immediately when becoming~~
1302 ~~aware of them. The document should indicate the points of concern and the actions proposed in~~
1303 ~~relation to the marketing application/authorisation for the concerned medicinal product. Those safety~~
1304 ~~issues should also be analysed in the relevant sections of the periodic safety update report of the~~
1305 ~~authorised medicinal product.~~ They should be notified as emerging safety issues in accordance with the
1306 requirements provided in **GVP Module IX**.

1307 ***VI.C.2.2.7. Period between the submission of the marketing authorisation application and*** 1308 ***the granting of the marketing authorisation***

1309 In the period between the submission of the marketing authorisation application and the granting of
1310 the marketing authorisation, information (quality, non-clinical, clinical) that could impact on the risk-
1311 benefit balance of the medicinal product under evaluation may become available to the applicant⁴³. It
1312 is the responsibility of the applicant to ensure that this information is immediately submitted in
1313 accordance with the modalities described in **VI.C.2.2.6**, to the competent authorities in the Member
1314 States where the application is under assessment (including Reference Member State and all
1315 concerned Member States for products assessed under the mutual recognition or decentralised
1316 procedures) and to the Agency. For applications under the centralised procedure, the information
1317 should also be provided to the (Co-) Rapporteur.

1318 In the situation where a medicinal product application is under evaluation in the EU while it has already
1319 been authorised in a third country, valid ICSRs from outside the EU, originating from unsolicited
1320 reports (see **VI.B.1.1.**) or solicited reports (see **VI.B.1.2.**), should be ~~reported~~ submitted in accordance
1321 with the requirements provided in **VI.C.3.**, **VI.C.4.** and **VI.C.6.**.

1322 ***VI.C.2.2.8. Period after suspension, revocation or withdrawal of marketing authorisation***

1323 The marketing authorisation holder shall continue to collect any reports of suspected adverse reactions
1324 related to the concerned medicinal product following the suspension of a marketing authorisation. The
1325 reporting requirements outlined in **VI.C.4.** remain.

1326 Where a marketing authorisation is withdrawn or revoked, the former marketing authorisation holder is
1327 encouraged to continue to collect spontaneous reports of suspected adverse reactions originating
1328 within the EU to for example facilitate the review of delayed onset adverse reactions or of
1329 retrospectively notified cases.

⁴³ See also chapter 1, section 5.1.1 of Volume 2A (Notice to Applicants) of The Rules Governing Medicinal Products in the European Union, accessible at http://ec.europa.eu/health/documents/eudralex/vol-2/index_en.htm.

1330 **VI.C.2.2.9. Period during a public health emergency**

1331 A public health emergency is a public health threat duly recognised either by the World Health
1332 Organization (WHO) or the Community in the framework of [Decision No. 2119/98/EC](#) as amended of
1333 the European Parliament and of the Council. In the event of a public health emergency, regular
1334 reporting requirements may be amended. Such arrangements will be considered on a case-by-case
1335 basis and will be appropriately notified on the Agency website.

1336 **VI.C.2.2.10. Reports from class action lawsuits**

1337 Stimulated reports arising from class action lawsuits should be managed as spontaneous reports. Valid
1338 ICSRs should describe **suspected** adverse reactions related to the concerned medicinal product. They
1339 should be **reportedsubmitted** in accordance with the time frames and modalities described in [VI.C.3.](#),
1340 [VI.C.4.](#) and [VI.C.6.](#).

1341 Where large batches of potential ICSRs are received, marketing authorisation holders may request, in
1342 exceptional circumstances, for an exemption in order to submit serious cases of suspected adverse
1343 reactions within 30 days from their date of receipt instead of 15 days. The 90 days reporting time
1344 frame for non-serious ICSRs remains unchanged. It will be possible to apply for this exemption only
1345 once the functionalities of the EudraVigilance database specified in Article 24(2) of Regulation (EC) No
1346 726/2004 are established. The request should be made to the Agency's pharmacovigilance
1347 department.

1348 **VI.C.2.2.11. Reports from patient support programmes and market research programmes**

1349 A patient support programme is an organised system where a marketing authorisation holder receives
1350 and collects information relating to the use of its medicinal products. Examples are post-authorisation
1351 patient support and disease management programmes, surveys of patients and healthcare providers,
1352 information gathering on patient compliance, or compensation/re-imburement schemes.

1353 A market research programme refers to the systematic collection, recording and analysis by a
1354 marketing authorisation holder of data and findings about its medicinal products, relevant for
1355 marketing and business development.

1356 Safety reports originating from those programmes should be considered as solicited reports. Marketing
1357 authorisation holders should have the same mechanisms in place as for all other solicited reports (see
1358 [VI.C.2.2.2.](#)) to manage that information and report valid cases of adverse reactions, which are
1359 suspected to be related to the concerned medicinal product.

1360 Valid ICSRs should be **reportedsubmitted** as solicited in accordance with the electronic reporting
1361 requirements provided in [VI.C.6.2.3.7.](#)

1362 **VI.C.3. Reporting time frames**

1363 The general rules in relation to the reporting of initial and follow-up reports, including those for
1364 defining the clock start are detailed in [VI.B.7.](#)

1365 According to Articles 107(3) and 107a(4) of Directive 2001/83/EC,

- 1366 |
- serious valid ICSRs shall be **reportedsubmitted** by competent authorities in Member States or by marketing authorisation holders within 15 days from the date of receipt of the reports;
 - non-serious valid ICSRs shall be **reportedsubmitted** by competent authorities in Member States or by marketing authorisation holders within 90 days from the date of receipt of the reports.
- 1368 |
- 1369

1370 This should be done in accordance with the reporting modalities detailed in [VI.C.4.](#)

1371 ICH-E2B provides a mechanism to the sender to indicate whether the case fulfils the local expedited
1372 requirements. In line with ICH-E2B the following applies for all serious and non-serious ICSRs
1373 reportable in the EU based on the modalities detailed in [VI.C.4.](#):

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">Data element A.1.9 'Does this case fulfil the local criteria for an expedited report?' should be completed with the value 1 (YES).
ICH-E2B(R3)	<ul style="list-style-type: none">Data element C.1.7 'Does this Case fulfil the local criteria for an expedited report?' should be completed with the value TRUE.

1374 **VI.C.4. Reporting modalities of ICSRs in EU**

1375 In addition to the recommendations provided in [VI.B.8.](#), competent authorities in Member States and
1376 marketing authorisation holders shall use the formats, standards and terminologies for the electronic
1377 transmission of suspected adverse reactions as referred to in chapter IV of the Commission
1378 Implementing Regulation (EU) No 520/2012. ICSRs shall be used for reporting to the Eudravigilance
1379 database suspected adverse reactions to a medicinal product that occur in a single patient at a specific
1380 point in time [IR Art 27]. Competent authorities in Member States and marketing authorisation holders
1381 shall also ensure that all ~~reported~~ submitted electronic ICSRs are well documented and as complete as
1382 possible in accordance with the requirements provided in ~~[IR Art 28]~~ Art 28 of Commission
1383 Implementing Regulation (EU) No 520/2012.

1384 The time frames for reporting serious and non-serious valid ICSRs are provided in [VI.C.3.](#) The
1385 recommendations provided in [VI.C.6.](#) should be adhered to as regards the electronic exchange of
1386 pharmacovigilance information between competent authorities in Member States, marketing
1387 authorisation holders and the Agency.

~~1388 ICSRs reported electronically to the EudraVigilance database will be made accessible to stakeholders
1389 such as competent authorities, healthcare professionals, consumers, as well as marketing authorisation
1390 holders and research organisations in accordance with Article 24(2) of Regulation (EC) No 726/2004
1391 and the EudraVigilance Access Policy for Medicines for Human Use⁴⁴. This policy defines the overall
1392 principles of the provision of access to EudraVigilance data in line with the current legal framework,
1393 while guaranteeing personal data protection. As detailed in the EudraVigilance access policy, a
1394 selection of ICSRs could be downloaded by marketing authorisation holders in ICH E2B format and in
1395 accordance with the ICH M2 message specifications, to facilitate their pharmacovigilance activities.~~

1396 ~~VI.C.4.1. Interim arrangements~~

1397 In accordance with the provisions set out in Article ~~2(4), Article 2(5) and Article 2(6) of Directive~~
1398 ~~2010/84/EU, until the Agency can ensure the functionalities of the EudraVigilance database as~~
1399 ~~specified in Article 24(2) of Regulation (EC) No 726/2004, 107(3) and 107a(4) of Directive~~
1400 ~~2001/83/EC, the following reporting requirements shall apply to valid unsolicited and solicited ICSRs~~
1401 ~~reported by healthcare professionals and non-healthcare professionals. This is independently of the~~
1402 ~~condition of use of the suspected medicinal product and of the expectedness of the adverse reaction.~~

1403 ~~a. Serious ICSRs~~

⁴⁴ ~~<http://www.ema.europa.eu>~~

1404 ~~• Marketing authorisation holders shall report all serious ICSRs that occur in the EU to the competent~~
1405 ~~authority of the Member State on whose territory the suspected adverse reactions occurred.~~

1406 ~~• Marketing authorisation holders shall report to the EudraVigilance database all serious ICSRs that~~
1407 ~~occur outside the EU, including those received from competent authorities. If required by Member~~
1408 ~~States, those reports shall also be submitted to the competent authorities in the Member States in~~
1409 ~~which the medicinal product is authorised.~~

1410 ~~• Competent authorities in Member States shall ensure that all serious ICSRs that occur in their~~
1411 ~~territory and that are reported to them, including those received from marketing authorisation~~
1412 ~~holders, are made available to the EudraVigilance database. Competent authorities in Member~~
1413 ~~States should also make available, to the marketing authorisation holders of the suspected~~
1414 ~~medicinal products, all serious ICSRs reported directly to them.~~

1415 ~~**b. Non-Serious ICSRs**~~

1416 ~~• If required by Member States, marketing authorisation holders shall report all non-serious ICSRs~~
1417 ~~that occur in the EU to the competent authority of the Member State on whose territory the~~
1418 ~~suspected adverse reactions occurred.~~

1419 ~~Overviews of the reporting requirements of serious and non-serious reports during the interim period,~~
1420 ~~applicable to marketing authorisation holders or competent authorities in Member States, are~~
1421 ~~presented in VI.App3.1, together with a detailed business process map.~~

1422 ~~Member States reporting requirements for serious non-EU ICSRs and for non-serious EU ICSRs are also~~
1423 ~~included in this Appendix.~~

1424 ~~**VI.C.4.2. Final arrangements**~~

1425 ~~Once the functionalities of the EudraVigilance database specified in Article 24(2) of Regulation (EC) No~~
1426 ~~726/2004 are established, the following requirements, detailed in Articles 107(3) and 107a(4) of~~
1427 ~~Directive 2001/83/EC, shall apply within 6 months of the announcement by the Agency to valid~~
1428 ~~unsolicited and solicited ICSRs reported by healthcare professionals and non-healthcare professionals.~~
1429 ~~This is ~~independently~~irrespective of the condition of use of the suspected medicinal product and of the~~
1430 ~~expectedness of the adverse reaction.~~

1431 ~~**a. Serious ICSRs**~~

1432 ~~• Marketing authorisation holders shall submit all serious ICSRs that occur within or outside the EU,~~
1433 ~~including those received from competent authorities outside the EU, to the EudraVigilance database~~
1434 ~~only.~~

1435 ~~• Competent authorities in Member States shall submit to the EudraVigilance database all serious~~
1436 ~~ICSRs that occur in their territory and that are directly reported to them.~~

1437 ~~**b. Non-Serious ICSRs**~~

1438 ~~• Marketing authorisation holders shall submit all non-serious ICSRs that occur in the EU to the~~
1439 ~~EudraVigilance database only.~~

1440 ~~• Competent authorities in Member States shall submit all non-serious ICSRs that occur in their~~
1441 ~~territory to the EudraVigilance database.~~

1442 ~~Overviews of the reporting requirements of serious and non-serious reports, applicable to marketing~~
1443 ~~authorisation holders or competent authorities in Member States ~~once the final arrangements are~~~~

1444 ~~implemented, are~~ presented in [VI.App3App.3.2](#), together with a ~~detailed~~ business process map
1445 and a process description.

1446 In accordance with the requirement detailed in Article 24(4) of Regulation (EC) No 726/2004 ~~for the~~
1447 ~~final arrangements~~, the ICSRs submitted to the EudraVigilance database by marketing authorisation
1448 holders shall be automatically transmitted upon receipt, to the competent authority of the Member
1449 State where the reaction occurred. ~~A detailed~~ Relevant business process map ~~is~~ and process description
1450 are included in [VI.App3App.3.3](#).

1451 In accordance with Article 24(2) of Regulation (EC) No 726/2004, data submitted to the EudraVigilance
1452 database are made accessible to stakeholders such as competent authorities, healthcare professionals,
1453 consumers, as well as marketing authorisation holders and research institutions. This is made based on
1454 the latest version of the [EudraVigilance Access Policy for Medicines for Human Use](#)⁴⁵. This policy
1455 defines the overall principles of the provision of access to EudraVigilance data in line with the current
1456 legal framework, while guaranteeing personal data protection. ~~VI.C.5.~~

1457 Additionally, the EudraVigilance database shall also be accessible to marketing authorisation holders to
1458 the extent necessary for them to comply with their pharmacovigilance obligations [Reg. Art 24(2)].

1459 ***VI.C.5. Collaboration with bodies outside the EU regulatory network***

1460 **VI.C.5.1. Collaboration with the World Health Organization and the** 1461 **European Monitoring Centre for Drugs and Drug Addiction**

1462 The Agency shall make available to the WHO (in practice the [Uppsala Monitoring Centre \(UMC\)](#) as the
1463 WHO Collaborating Centre for International Drug Monitoring) all suspected adverse reaction reports
1464 occurring in the EU [REG Art 28c(1)]. This ~~will take~~ takes place on a weekly basis after their
1465 transmission to the EudraVigilance database by competent authorities in Member States or marketing
1466 authorisation holders. ~~It will replace in line with the latest version of the EudraVigilance Access Policy~~
1467 ~~for Medicines for Human Use~~⁴⁵. It replaces the requirements of Member States participating in the
1468 WHO Programme for International Drug Monitoring to directly report to WHO suspected adverse
1469 reactions reports occurring in their territory. ~~This will be implemented once the functionalities of the~~
1470 ~~EudraVigilance database specified in Article 24(2) of Regulation (EC) No 726/2004 are established.~~

1471 A ~~detailed~~ business process map and a process description for the reporting of ICSRs, from the
1472 EudraVigilance database to the WHO Collaborating Centre for International Drug Monitoring, ~~is~~ are
1473 presented in [VI. AppendixApp 4](#).

1474 The Agency and the European Monitoring Centre for Drugs and Drug Addiction shall also exchange
1475 information that they receive on the abuse of medicinal products including information related to illicit
1476 drugs [REG Art 28c(2)].

1477 ***VI.C.6. Electronic exchange of safety information in the EU***

1478 [VI.C.6.](#) highlights the requirements, as defined in Articles 24(1) and 24(3) of Regulation (EC) No
1479 726/2004, for the establishment and maintenance of the European database and data processing
1480 network (the EudraVigilance database) in order to collate and share pharmacovigilance information
1481 electronically between competent authorities in Member States, marketing authorisation holders and
1482 the Agency, in ways which ensure the quality and integrity of the data collected.

⁴⁵ Ref.: [EMA/ 759287/2009](#)

1483 The information provided here is relevant for the electronic exchange of ICSRs in the EU between all
1484 stakeholders and for the electronic submission of information on medicinal products to the Agency.

1485 **VI.C.6.1. Applicable guidelines, definitions, international formats,** 1486 **standards and terminologies**

1487 For the classification, retrieval, presentation, risk-benefit evaluation and assessment, electronic
1488 exchange and communication of pharmacovigilance and medicinal product information, Member
1489 States, marketing authorisation holders and the Agency shall adhere to the legal requirements
1490 provided in chapter IV of the Commission Implementing Regulation (EU) No 520/2012.

1491 In addition the following guidelines should be applied:

- 1492 • ~~Note for guidance – EudraVigilance Human – Processing of Safety Messages and Individual Case~~
1493 ~~Safety Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2) (EudraVigilance Business Rules);~~
- 1494 • ~~Note for Guidance on the Electronic Data Interchange (EDI) of Individual Case Safety Reports~~
1495 ~~(ICSRs) and Medicinal Products (MPRS) in Pharmacovigilance during the pre- and post-~~
1496 ~~authorisation phase in the European economic area (EEA) (EMEA/115735/2004);~~
- 1497 • The ICH ~~guidelines~~ Guidelines detailed in [VI.B.8](#);
- 1498 • The ICH-M5 ~~guideline~~ Guideline ‘Routes of Administration Controlled Vocabulary’
1499 ([CHMP/ICH/175860/2005](#)), which provides standard terms for routes of administration;
- 1500 • The guidelines applicable based on ICSRs ICH-E2B format:

Reference	Guidelines
ICH-E2B(R2)	<ul style="list-style-type: none">• Note for guidance - EudraVigilance Human - Processing of Safety Messages and Individual Case Safety Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2) (also referred as EudraVigilance Business Rules);• Note for Guidance on the Electronic Data Interchange (EDI) of Individual Case Safety Reports (ICSRs) and Medicinal Products (MPRS) in Pharmacovigilance during the pre- and post-authorisation phase in the European economic area (EEA) (EMEA/115735/2004).
ICH-E2B(R3)	<ul style="list-style-type: none">• EU ICSR Implementation Guide (EMA/51938/2013);• EU ICSR Implementation Guide Business Rules Spreadsheet;• EU Backwards Forwards Conversion Element Mapping Spreadsheet;• EU E2B(R3) code lists;• EU reference instances;• EU example instances.

1502 The latest version of these documents should always be ~~considered~~ taken into account.

1503 **VI.C.6.2. Electronic reporting of individual case safety reports**

1504 The reporting of valid ICSRs electronically, by competent authorities in Member States and marketing
1505 authorisation holders, is mandatory for all medicinal products authorised in the EU [DIR Art 107(3), Art

1506 107a(4)]. Non-adherence to this requirement constitutes a non-compliance with EU legislation.

1507 **Responsibilities**

1508 The responsibilities in case of communication failure (including adherence to compliance for reporting)
1509 are detailed in ~~chapter IV of the Note for Guidance on the Electronic Data Interchange (EDI) of~~
1510 ~~Individual Case Safety Reports (ICSRs) and Medicinal Product Reports (MPRs) in Pharmacovigilance~~
1511 ~~during the Pre- and Post-authorisation Phase in the European Economic Area (EEA)~~
1512 ~~(EMA/115735/2004)~~:

Reference	Guidelines
EudraVigilance database (current)	<ul style="list-style-type: none">Chapter IV of the Note for Guidance on the Electronic Data Interchange (EDI) of Individual Case Safety Reports (ICSRs) and Medicinal Product Reports (MPRs) in Pharmacovigilance during the Pre- and Post-authorisation Phase in the European Economic Area (EEA) (EMA/115735/2004).
EudraVigilance database (new functionalities) Applicable six months following the announcement by the Agency that the new functionalities specified in Article 24(2) of Regulation (EC) No 726/2004 are established.	<ul style="list-style-type: none">Chapter I.C.2.1.6 of the EU ICSR Implementation Guide (EMA/51938/2013).

1514 Technical tools (EVWEB) have been made available by the Agency to interested electronic data
1515 interchange partners, including small and medium-sized enterprises, to facilitate compliance with the
1516 electronic reporting requirements as defined in EU legislation. Information is available on
1517 EudraVigilance website⁴⁶.

1518 **VI.C.6.2.1. EudraVigilance Database Modules**

1519 Two modules are available in the EudraVigilance database to address the collection of reports of
1520 suspected adverse reactions related to medicinal products for human use, in accordance with EU
1521 legislation:

- 1522 • EudraVigilance Post-Authorisation Module (EVPM), implemented based on the requirements defined
1523 in Regulation (EC) No 726/2004 and Directive 2001/83/EC; and
- 1524 • EudraVigilance Clinical Trial Module (EVCTM), implemented based on the requirements defined in
1525 Directive 2001/20/EC.

1526 **VI.C.6.2.1.1. Adverse reaction data collected in the EudraVigilance Post-Authorisation**
1527 **Module**

1528 The adverse reaction reports collected in the EudraVigilance Post-Authorisation Module (EVPM) refer to
1529 unsolicited reports and solicited reports which do not fall under the scope of the Clinical Trials Directive

⁴⁶ <http://eudravigilance.ema.europa.eu>

1530 2001/20/EC (see [VI.C.1.](#)). The ICSRs should be submitted with the value 'EVHUMAN' in the data
 1531 element 'Message receiver identifier' (ICH M2 M.1.6).[VI.C.1.1.](#)).

1532 In line with ICH-E2B the ICSRs should be submitted with the following value:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> 'EVHUMAN' in the data element M.1.6 'Message receiver identifier' (ICH M2).
ICH-E2B(R3))	<ul style="list-style-type: none"> 'EVHUMAN' in the data elements N.1.4 'Batch Receiver Identifier' and 'N.2.r.3 Message Receiver Identifier'.

1534
 1535 Depending on their type, these ICSRs should be classified ~~with~~based on one of the following options,~~in~~
 1536 ~~accordance with the EudraVigilance Business Rules⁴⁷.~~

- 1537 ~~• Data element 'Type of report' (ICH-E2B(R2) A.1.4):~~
- 1538 ~~— spontaneous report;~~
 - 1539 ~~— other;~~
 - 1540 ~~— not available to sender (unknown); or~~
 - 1541 ~~— report from study.~~

1542 ~~In addition, when the value in the data element ICH-E2B(R2) A.1.4 is 'Report from study', the data~~
 1543 ~~element 'Study type in which the reaction(s)/event(s) were observed' (ICH-E2B(R2) A.2.3.3) should be~~
 1544 ~~populated~~line with ICH-E2B:

- 1545 ~~— individual patient use, e.g. compassionate use or named-patient basis; or~~
- 1546 ~~— other studies, e.g. pharmacoepidemiology, pharmacoconomics, intensive monitoring, PMS.~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element A.1.4 'Type of report' <ul style="list-style-type: none"> – spontaneous report; – other; – not available to sender (unknown); or – report from study. When the value of the data element A.1.4 is 'Report from study', the data element A.2.3.3 'Study type in which the reaction(s)/event(s) were observed' should be populated with: <ul style="list-style-type: none"> – individual patient use, e.g. compassionate use or named-patient basis; or – other studies, e.g. pharmacoepidemiology, pharmacoconomics, intensive monitoring, PMS.
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element C.1.3 'Type of report' <ul style="list-style-type: none"> – spontaneous report; – other;

~~⁴⁷ Note for guidance – EudraVigilance Human – Processing of Safety Messages and Individual Case Safety Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2).~~

Reference	E2B(R2)/(R3) requirements
	<ul style="list-style-type: none"> - not available to sender (unknown); or - report from study. <ul style="list-style-type: none"> • When the value of the data element C.1.3 is 'Report from study', the data element C.5.4 'Study type in which the reaction(s)/event(s) were observed' should be populated with: <ul style="list-style-type: none"> - individual patient use, e.g. compassionate use or named-patient basis; or - other studies, e.g. pharmacoepidemiology, pharmacoconomics, intensive monitoring, PMS.

1547 **VI.C.6.2.1.2. Adverse reaction data collected in the EudraVigilance Clinical Trial Module**

1548 Only cases of suspected unexpected serious adverse reactions (SUSARs), related to investigational
1549 medicinal products (IMPs) or non-investigational medicinal products (NIMPs)⁴⁸ studied in clinical trials
1550 which fall under the scope of Directive 2001/20/EC (see ~~VI.C.1.)~~, VI.C.1.1.), should be
1551 ~~reported~~ submitted by the sponsor to the EudraVigilance Clinical Trial Module (EVCTM). The
1552 requirements provided in chapter II of [EudraLex Volume 10 of The Rules Governing Medicinal Products](#)
1553 [in the European Union](#) should be applied. ~~The ICSRs should be submitted with the value 'EVCTMPROD'~~
1554 ~~in the data element 'Message receiver identifier' (ICH M2 M.1.6) and should be classified as followed,~~
1555 ~~in accordance with the EudraVigilance Business Rules⁴⁹.~~

- ~~• data element 'Type of report' (ICH-E2B(R2) A.1.4):~~
 - ~~— report from study; and~~
- ~~• data element 'Study type in which the reaction(s)/event(s) were observed' (ICH-E2B(R2) A.2.3.3):~~
 - ~~— clinical trials.~~

1560 The ICSRs should be submitted with the following value in line with ICH-E2B:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • 'EVCTMPROD' in the data element M.1.6 'Message receiver identifier' (ICH M2).
ICH-E2B(R3)	<ul style="list-style-type: none"> • 'EVCTMPROD' in the data elements N.1.4 'Batch Receiver Identifier' and 'N.2.r.3 Message Receiver Identifier'.

1561 Depending on their type, ICSRs submitted to EVCTM should be classified based on one of the following
1562 options in line with ICH-E2B:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • Data element A.1.4 'Type of report' <ul style="list-style-type: none"> - report from study. • When the value of the data element A.1.4 is 'Report from study', the data

⁴⁸ For guidance on these terms, see The Rules Governing Medicinal Products in the European Union, Volume 10, Guidance Applying to Clinical Trials, Guidance on Investigational Medicinal Products and Non-Investigational Medicinal Products (NIMPs) (Ares(2011)300458 - 18/03/2011), and the Detailed guidance on the collection, verification and presentation of adverse event/reaction reports arising from clinical trials on medicinal products for human use ('CT-3'), (2011/C 172/01) .

⁴⁹ See Footnote 38.

Reference	E2B(R2)/(R3) requirements
	<p>element A.2.3.3 'Study type in which the reaction(s)/event(s) were observed' should be populated with:</p> <ul style="list-style-type: none"> – clinical trials
ICH-E2B(R3)	<ul style="list-style-type: none"> • Data element C.1.3 'Type of report' <ul style="list-style-type: none"> – report from study. • When the value of the data element C.1.3 is 'Report from study', the data element C.5.4 'Study type in which the reaction(s)/event(s) were observed' should be populated with: <ul style="list-style-type: none"> – clinical trials

1563 **VI.C.6.2.2. Preparation of individual case safety reports**

1564 **VI.C.6.2.2.1. General principles**

1565 The content of each valid ICSR transmitted electronically between all stakeholders should comply with
1566 the legal requirements and guidelines detailed in the Commission Implementing Regulation (EU) No
1567 520/2012 and in [VI.C.6.1.](#), particularly:

- 1568 • the requirements provided in chapters IV and V of the Commission Implementing Regulation (EU)
1569 No 520/2012;
- 1570 • the latest version of the [ICH-Endorsed Guide for MedDRA Users - MedDRA Term Selection: Points](#)
1571 [to Consider Document](#) (see GVP Annex IV);
- 1572 • the EudraVigilance business rules ~~for the electronic transmission of ICSRs detailed in the Note for~~
1573 ~~Guidance – EudraVigilance Human – Processing of Safety Messages and Individual Case Safety~~
1574 ~~Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2)~~ and EU ICSR Implementation Guide as referred
1575 to in [VI.C.6.1.](#)
1576

1577 It is recognised that it is often difficult to obtain all the details on a specific case. However, the
1578 complete information (medical and administrative data) for a valid ICSR that is available to the sender
1579 should be ~~reported~~ submitted in a structured manner in the relevant ICH-E2B(R2) data elements ~~(see~~
1580 ~~GVP Annex IV)~~ (which should be repeated as necessary when multiple information is available) and in
1581 the narrative section for serious cases (see [VI.C.6.2.2.4.](#)). This applies to all types of ICSRs, such as
1582 reports with initial information on the case, follow-up information and cases highlighted for
1583 ~~amendment~~⁵⁰ or nullification⁵¹.

1584 In the situation where it is evident that the sender has not transmitted the complete information
1585 available on the case, the receiver may request the sender to re-transmit the ICSR within 24 hours
1586 with the complete case information in electronic format in accordance with the requirements applicable
1587 for the electronic reporting of ICSRs. This should be seen in the light of the qualitative signal detection
1588 and evaluation activity, where it is important for the receiver to have all the available information on a
1589 case to perform the medical assessment (see [VI.C.6.2.4.](#)).

1590 Where the suspected adverse reactions reported in a single ICSR impact on the known risk-benefit
1591 balance of a medicinal product, this should be considered as an emerging safety issue (see
1592 [VI.C.2.2.6.](#)), which should be immediately notified in writing to the competent authorities of the

⁵⁰ See also [VI.C.6.2.2.8.](#) on amendment of individual cases.

⁵¹ See also [VI.C.6.2.2.109.](#) on nullification of individual cases.

1593 Member States where the medicinal product is authorised and to the Agency. This is in addition to the
 1594 reporting requirements detailed in [VI.C.4.](#) A summary of the points of concerns and the action
 1595 proposed should be recorded in the ICSR as follows in ~~data element 'Sender's comments' (line with~~
 1596 ~~ICH-E2B(R2)-B.5.4):~~:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	• Data element B.5.4 'Sender's comments'.
ICH-E2B(R3)	• Data element H.4 'Sender's comments'.

1597 **VI.C.6.2.2.2. Information on suspect, interacting and concomitant medicinal products**

1598 The suspect, interacting and/or concomitant active substances/invented names of the reported
 1599 medicinal products should be provided in accordance with ~~IR-At~~Article 28-(3) (g) to (i);) of the
 1600 Commission Implementing Regulation (EU) No 520/2012, ICH-E2B(R2)-((see GVP Annex IV) and the
 1601 [EudraVigilance Business Rules](#)- and EU ICSR Implementation Guide (see [VI.C.6.1.](#)).

1602 The characterisation of medicinal products as suspect, interacting or concomitant is based on the
 1603 information provided by primary source.

1604 For ~~combination~~ medicinal products, which contain more than one active substance, ~~each active~~
 1605 ~~substance needs to be reflected individually~~the following applies in ~~the data element 'Active substance~~
 1606 ~~name(s)' (line with ICH--E2B(R2)-B.4.k.2.2), which needs to be repeated for each active substance~~
 1607 ~~contained in the combination medicinal product:~~:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	• In addition to the information included in the data element B.4.k.2.1 'Proprietary medicinal product name', each active substance needs to be reflected individually in the data element B.4.k.2.2 'Active substance name(s)', which needs to be repeated for each active substance contained in the medicinal product.
ICH-E2B(R3)	• In addition to the information included in the mandatory data element G.k.2.2 'Medicinal Product Name as Reported by the Primary Source', each active substance needs to be reflected individually in the section G.k.2.3.r. 'Substance / Specified Substance Identifier and Strength', which should be repeated for each active substance contained in the medicinal product. This applies where there is no Medicinal Product Identifier (MPID), Pharmaceutical Product Identifier (PhPID) or where no Substance/Specified Substance TermID is available as referred to in the EU ICSR Implementation Guide (EMA/51938/2013).

1608 When the primary source reports a suspect or interacting branded/proprietary medicinal product name
 1609 without indicating the active substance(s) of the medicinal product and where the proprietary
 1610 medicinal product can be one of two or more possible generics, which have a different composition
 1611 depending on the country where the medicinal product is marketed, the ICSR should be populated as
 1612 follows in line with ICH-E2B:

1613 ~~• data element 'Proprietary medicinal product name' (ICH-E2B(R2)-B.4.k.2.1) should be populated~~
 1614 ~~with the proprietary/branded medicinal product name as reported by the primary source;~~

1615 ~~• data element 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) should be completed with the~~
 1616 ~~active substance(s) that correspond(s) to the composition of the proprietary/branded medicinal~~
 1617 ~~product of the country where the reaction/event occurred.~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • Data element B.4.k.2.1 'Proprietary medicinal product name' should be populated with the proprietary/branded medicinal product name as reported by the primary source; • Data element B.4.k.2.2 'Active substance name(s)' should be completed with the active substance(s) that correspond(s) to the composition of the proprietary/branded medicinal product of the country where the reaction/event occurred. • Where there is more than one active substance contained in the medicinal product, data element B.4.k.2.2 'Active substance name(s)' should be repeated accordingly.
ICH-E2B(R3)	<ul style="list-style-type: none"> • Data element G.k.2.2 'Medicinal Product Name as Reported by the Primary Source' should be populated with the proprietary/branded medicinal product name as reported by the primary source; • The data element G.k.2.3.r.1 'Substance/Specified Substance Name' should be completed with the active substance(s) that correspond(s) to the composition of the proprietary/branded medicinal product of the country where the reaction/event occurred. • Where there is more than one active substance contained in the medicinal product, section G.k.2.3.r 'Substance/Specified Substance Identifier and Strength' should be repeated accordingly.

1618 However ~~if the information is available on:~~

- 1619 ~~• the 'Identification of the country where the drug was obtained' (data element ICH-E2B(R2)~~
 1620 ~~B.4.k.2.3),~~
- 1621 ~~• the 'Authorization/application number' (data element ICH-E2B(R2) B.4.k.4.1),~~
- 1622 ~~• the 'Country of authorization/application' (data element ICH-E2B(R2) B.4.k.4.2), and/or~~
- 1623 ~~• the 'Batch/lot number' (data element ICH-E2B(R2) B.4.k.3),~~

1624 , the composition with regard the active substance(s) of the proprietary medicinal product should be
 1625 provided accordingly, if information is available on the following ICH-E2B data elements:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • The data element B.4.k.2.3 'Identification of the country where the drug was obtained', • The data element B.4.k.4.1 'Authorization/application number', • The data element B.4.k.4.2 'Country of authorization/application', and/or • The data element B.4.k.3 'Batch/lot number' .

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R3)	<ul style="list-style-type: none"> The data element G.k.2.4 'Identification of the Country Where the Drug Was Obtained' The data element G.k.3.2 'Country of Authorisation/Application' and/or The data element G.k.4.r.7 'Batch/lot number'

1626 Where the primary source reports a suspect or interacting branded/proprietary medicinal product name
 1627 without indicating the pharmaceutical form/presentation of the product and where the
 1628 proprietary/branded medicinal product can be one of two or more possible pharmaceutical
 1629 forms/presentations, which have different compositions in a country, the ICSR should be populated as
 1630 follows in line with ICH-E2B:

- 1631 ~~• data element 'Proprietary medicinal product name' (ICH-E2B(R2) B.4.k.2.1) should be populated~~
 1632 ~~with the medicinal product name as reported by the primary source;~~
- 1633 ~~• data element 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) should be completed with those~~
 1634 ~~active substances which are in common to all pharmaceutical forms/presentations in the country of~~
 1635 ~~authorisation.~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element B.4.k.2.1 'Proprietary medicinal product name' should be populated with the medicinal product name as reported by the primary source; Data element B.4.k.2.2 'Active substance name(s)' should be completed with those active substances, which are in common to all pharmaceutical forms/presentations in the country of authorisation. Where there is more than one active substance contained in the medicinal product, data element B.4.k.2.2 'Active substance name(s)' should be repeated accordingly.
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element G.k.2.2 'Medicinal Product Name as Reported by the Primary Source' should be populated with the proprietary/branded medicinal product name as reported by the primary source; The data element G.k.2.3.r.1 'Substance/Specified Substance Name' should be completed with the active substance(s) that correspond(s) to the composition of the proprietary/branded medicinal product of the country where the reaction/event occurred. Where there is more than one active substance contained in the medicinal product, section G.k.2.3.r 'Substance/Specified Substance Identifier and Strength' should be repeated accordingly.

1636 **a. Reporting of a therapeutic class of medicines**

1637 Where medicinal products cannot be described on the basis of the active substances or the invented
 1638 names, for example when only the therapeutic class is reported by the primary source, or in case of
 1639 other administered therapies that cannot be structured, this information should only be reflected in the
 1640 case narrative ~~(data element ICH-E2B(R2) B.5.1)~~. The information should not be included in the
 1641 structured data elements ~~'Proprietary related to the medicinal product name' (ICH-E2B(R2)~~

1642 ~~B.4.k.2.1)name and 'Active/or the active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) should not be~~
1643 ~~populated.~~ The same applies if a suspected food interaction is reported (e.g. to grapefruit juice).

1644 Where a case of adverse reactions is ~~reported~~suspected to be related only to a therapeutic class, it is
1645 considered incomplete and does not qualify for reporting (see [VI.B.2](#)). Efforts should be made to
1646 follow-up the case in order to collect the missing information regarding the suspected medicinal
1647 product (see [VI.B.3](#)).

1648 ~~a.b.~~ **Reporting of interactions**

1649 As regards the reporting of drug interactions, which concerns drug/drug (including biological products),
1650 drug/food, drug/device, and drug/alcohol interactions, the coding of the interaction should be
1651 performed in ~~the following ICH-E2B section 'Reactions/Events' (ICH-E2B(R2) B.2)~~ in line with the latest
1652 version of the [ICH-Endorsed Guide for MedDRA Users - MedDRA Term Selection: Points to Consider](#)
1653 [Document](#) (see [GVP Annex IV](#)) ~~along with any adverse reactions resulting from the suspected~~
1654 ~~interaction:~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">Section B.2 'Reactions/Events'
ICH-E2B(R3)	<ul style="list-style-type: none">Section E.i.1 'Reaction/Events'

1655 In addition, ~~for~~in instances of drug/drug interactions, ~~information on the active substances/proprietary~~
1656 ~~medicinal product names~~the following applies in line with ICH-E2B:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">Section B.4 'Drug information' should be completed with information on the active substances/proprietary medicinal products concernedData element B.4.k.1 'Characterisation of drug role' is to be completed as 'interacting'.
ICH-E2B(R3)	<ul style="list-style-type: none">Section G.k 'Drug(s) Information' should be completed with information on the active substances/proprietary medicinal products concernedData element G.k.1 'Characterisation of Drug Role' is to be completed as 'interacting' for all suspected interacting medicines.

1657 If an interaction is suspected with food or other non-drug compounds, 'interacting' should be selected
1658 for the suspect medicine, however information concerning the interacting food should be provided in
1659 the ~~section 'Drug information' (ICH-E2B(R2) B.4)~~, which should be characterised as interacting in the
1660 ~~data element 'Characterisation of drug role' (ICH-E2B(R2) B.4.k.1)~~ case narrative.

1661 ~~b.c.~~ **Reporting of excipients/adjuvants**

1662 If the primary source suspects a possible causal role of one of the ingredients (e.g., excipient or
1663 adjuvant) of the suspected medicinal product, this information should be ~~provided~~sent in ~~the section~~
1664 ~~'Drug information' (line with ICH-E2B(R2) B.4)~~ as a separate entry in addition to the information given
1665 ~~regarding the suspected medicinal product. This should also be specified in the case narrative (data~~
1666 ~~element ICH-E2B(R2) B.5.1). If available, tests results (positive or negative) in relation to the causal~~
1667 ~~role of the suspected ingredient should be included in the section 'Results of tests and procedures~~
1668 ~~relevant to the investigation of the patient' (ICH-E2B(R2) B.3)~~ follows:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> In the section B.4 'Drug information' - as a separate entry specifying the suspected excipient/adjuvant, in addition to the information given regarding the suspected medicinal product. This should also be specified in the case narrative. If available, tests results (positive or negative) in relation to the causal role of the suspected ingredient should be included in the section B.3 'Results of tests and procedures relevant to the investigation of the patient'.
ICH-E2B(R3)	<ul style="list-style-type: none"> In the section G.k 'Drug(s) Information' - as a separate entry in addition to the information given regarding the suspected medicinal product. This should also be specified in the case narrative. If available, tests results (positive or negative) in relation to the causal role of the suspected ingredient should be included in the section F.r.3 'Test Result'.

1669 **d. Additional Information on Drug**

1670 Often, additional information on the medicine(s) is provided in individual cases, which is important for
1671 the purpose of data analysis and case review, for example in the context of counterfeit, overdose, drug
1672 taken by father, drug taken beyond expiry date, batch and lot tested and found within specifications,
1673 batch and lot tested and found not within specifications, medication error, misuse, abuse, occupational
1674 exposure and off label use.

1675 The following applies in line with ICH-E2B to capture this information:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> As a general principle, additional characteristics related to the medicines and pertinent to the case should be provided in free text. Data element B.4.k.19 'Additional information on drug' should be used to specify any additional information (e.g., beyond expiration date, batch and lot tested and found to be within specifications). Additional information concerning the indication for the drug, which cannot be described in data element B.4.k.11 'Indication for use in the case' should also be provided as applicable in the data element B.4.k.19. An appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)' where applicable in line with the latest version of the ICH-Endorsed Guide for MedDRA Users, MedDRA Term Selection: Points to Consider. Data elements 'B.5.3 Sender's diagnosis/syndrome and/or reclassification of reaction/event' and B.5.4 Sender's comments can also be used to combine reported signs and symptoms into a succinct diagnosis, or to provide the sender's assessment of the drug role.
ICH-E2B(R3)	<ul style="list-style-type: none"> As a general principle, additional characteristics related to the medicines and pertinent to the case should be coded and further information provided in free text. Data element G.k.10.r 'Additional Information on Drug (coded)' should be completed using one or more of the following values as applicable: Counterfeit, Overdose, Drug taken by father, Drug taken beyond expiry date, Batch and lot

Reference	E2B(R2)/(R3) requirements	
	<p>tested and found within specifications, Batch and lot tested and found not within specifications, Medication error, Misuse, Abuse, Occupational exposure and Off label use. The value(s) should be used where the primary source has made a clear statement related to the additional characteristics of the drug.</p> <ul style="list-style-type: none"> • An appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)' where applicable in line with the latest version of the ICH-Endorsed Guide for MedDRA Users, MedDRA Term Selection: Points to Consider. • Section H.3.r 'Sender's Diagnosis' and data element H.4 'Sender's Comments' can also be used to combine reported signs and symptoms into a succinct diagnosis, or to provide the sender's assessment of the drug role. If the primary source did not provide an explicit statement about the drug characterisation which would clearly transpose into a MedDRA term in the reaction section but there is an indication in the context of the clinical course description, the sender may also choose the most applicable value(s) of G.k.10.r 'Additional Information on Drug (coded)' at their discretion. The case should be followed up to obtain further information. • Data element G.k.11 'Additional Information on Drug (free text)' should be used to capture any additional drug information in free text format not described in G.k.10.r, e.g. expiry date for the lot number. 	
	Values definition for data element G.k.10.r 'Additional Information on Drug (coded)'	
	<ul style="list-style-type: none"> • Counterfeit⁵² 	This is to indicate that the medicine was suspected or confirmed to be a falsified medicinal product in line with the definition provided in Article 1, paragraph 33 of Directive 2001/83/EC.
	<ul style="list-style-type: none"> • Drug taken beyond expiry date 	This is to indicate that the medicine administered to or taken by the patient was beyond its expiry date as indicated in the SmPC or on the packaging of the medicine.
	<ul style="list-style-type: none"> • Batch and lot tested and found within specifications 	This is to indicate that a batch or lot of a medicine was tested and found within the specifications of the marketing authorisation.
	<ul style="list-style-type: none"> • Batch and lot tested and found not within specifications 	This is to indicate that a batch or lot of a medicine was tested and found outside the specifications of the marketing authorisation.

⁵² This value should not be used to refer to medicines that do not comply with EU law on intellectual and industrial property rights, such as registered trademarks or patent rights, as defined for counterfeit medicines in [Q&A: Directive on falsified medicines](#).

1676 **VI.C.6.2.2.3. Suspected adverse reactions**

1677 All available information as described in ~~HR Art~~Article 28-(3) (j)) of Commission Implementing
 1678 Regulation (EU) No 520/2012 shall be provided for each individual case. The coding of diagnoses and
 1679 provisional diagnoses with signs and symptoms ~~in the data element 'Reaction/event in MedDRA~~
 1680 ~~terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1)~~ should be performed in line with the latest
 1681 version of the [ICH-Endorsed Guide for MedDRA Users, MedDRA Term Selection: Points to Consider](#) (see
 1682 GVP Annex IV).

1683 In practice, if a diagnosis is reported with characteristic signs and symptoms, the preferred option is to
 1684 select a term for the diagnosis only and to MedDRA code it ~~in the ICH-E2B(R2) section B.2~~
 1685 ~~'Reaction(s)/event(s)'~~. If no diagnosis is provided, all reported signs and symptoms should be listed
 1686 and MedDRA-coded ~~in the ICH-E2B(R2) section B.2 'Reaction(s)/event(s)'~~. If these signs and
 1687 symptoms are typically part of a diagnosis, the diagnosis can be MedDRA-coded in addition by
 1688 competent authorities in Member States or marketing authorisation holders ~~in the ICH-E2B(R2) data~~
 1689 ~~element B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event'~~ as part of the sender's diagnosis/syndrome and/or reclassification of
 1690 reaction/~~event~~event in the ICSR.

1691 If in the narrative other events have been reported, which are not typically signs or symptoms of the
 1692 primary source's diagnosis or provisional diagnosis, and those events are suspected to be adverse
 1693 reactions, they should also be listed and MedDRA-coded ~~in the ICH-E2B(R2) section B.2~~
 1694 ~~'Reaction(s)/event(s)'~~-coded.

1695 ~~In case~~Where a competent authority in a Member State or a marketing authorisation holder disagrees
 1696 with the diagnosis reported by the primary source, an alternative diagnosis can be provided in ~~the ICH-~~
 1697 ~~E2B(R2) data element B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event'~~ in
 1698 addition to the reported diagnosis ~~provided in the ICH-E2B(R2) section B.2 'Reaction(s)/event(s)'~~. In
 1699 this situation, a reasoning should be included ~~in the data element 'Sender's comments' (ICH-E2B(R2)~~
 1700 ~~B.5.4)~~as additional comment (see [VI.C.6.2.2.4](#)).

1701 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.2 'Reaction(s)/event(s)' should be used and the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)' completed. Section B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event' should be used where the sender would like to combine signs and symptoms that were reported into a succinct diagnosis whereby the reasoning should be included in the data element B.5.4 'Sender's comments'. Section B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event' should also be used, if there is disagreement with the diagnosis reported by the primary source and to provide an alternative diagnosis. Reasoning should be included in the in the data element B.5.4 'Sender's comments'.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section E.i 'Reaction(s)/Event(s)' should be used and the data element E.i.2.1b 'Reaction/Event (MedDRA code)' completed. Section H.3.r 'Sender's Diagnosis' should be used where the sender would like to combine signs and symptoms that were reported into a succinct diagnosis whereby the reasoning should be included in the data element H.4 'Sender's

Reference	E2B(R2)/(R3) requirements
	<p>Comments':</p> <ul style="list-style-type: none"> Section H.3.r 'Sender's Diagnosis' should also be used, if there is disagreement with the diagnosis reported by the primary source and to provide an alternative diagnosis. Reasoning should be included in the in the data element H.4 'Sender's Comments'.

1702 In the event of death of the patient, the date, cause of death including autopsy-determined causes
1703 shall be provided as available [IR 28 (3) (I)]. If the death is unrelated to the reported suspected
1704 adverse reaction(s) and is linked for example to disease progression, the seriousness criterion of the
1705 ICSR should not be considered as fatal; the recommendation provided in the EudraVigilance Business
1706 RulesEudraVigilance Business Rules⁵³ and the EU ICSR Implementation Guide⁵⁴ should be followed.

1707 **VI.C.6.2.2.4. Case narrative, causality assessment and comments**

1708 In accordance with ~~HR Art~~Article 28 (3) (m)) of Commission Implementing Regulation (EU) No
1709 520/2012, a case narrative ~~(data element ICH-E2B(R2)-B.5.1)~~ shall be provided, where possible⁵⁵, for
1710 all cases with the exception of non-serious cases. The information shall be presented in a logical time
1711 sequence, in the chronology of the patient's experience including clinical course, therapeutic measures,
1712 outcome and follow-up information obtained. Any relevant autopsy or post-mortem findings shall also
1713 be summarised.

1714 The narrative should be presented in line with the recommendations described in chapter 5.2 of ICH-
1715 E2D (see GVP Annex IV). In this aspect, it should serve as a comprehensive, stand-alone "medical
1716 report" containing all known relevant clinical and related information, including patient characteristics,
1717 therapy details, medical history, clinical course of the event(s), diagnosis, adverse reactions and their
1718 outcomes, relevant laboratory evidence (including normal ranges) and any other information that
1719 supports or refutes the suspected adverse reactions— (see VI.C.6.2.2.11 for handling of languages).
1720 With regards to the identifiability of the patient, information should be provided in accordance with
1721 local data protection laws⁵⁶. Case narratives should not include information that could lead to the
1722 identification of the patient, including references to healthcare professionals or treatment centres.

1723 An example of a standard narrative template is available in the Report of the CIOMS Working Group
1724 V⁵⁷.

1725 The information provided in the narrative should be consistent with the data appropriately reflected in
1726 all the other relevant ICH-E2B(R2) data elements of the ICSR ~~(see GVP Annex IV)~~. In line with ICH-
1727 E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.5 'Narrative case summary and further information' should be used and the data element B.5.1 'Case narrative including clinical course, therapeutic

⁵³ Note for guidance – EudraVigilance Human – Processing of safety messages and individual case safety reports (ICSRs) (EMA/H/200665/04/Final Rev. 2)

⁵⁴ Ref.: (EMA/51938/2013)

⁵⁵ 'Where possible' should be interpreted as having received sufficient information from the primary source to prepare a concise clinical summary of the individual case.

⁵⁶ See VI.C.6.2.2.10 for the processing of personal data in ICSRs in the EU.

⁵⁷ Council for International Organizations of Medical Sciences (CIOMS). Current Challenges in Pharmacovigilance: Pragmatic Approaches (CIOMS V). Geneva: CIOMS; 2001. Accessible at: <http://www.cioms.ch/>.

Reference	E2B(R2)/(R3) requirements
	measures, outcome and additional relevant information' completed.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section H 'Narrative Case Summary and Further Information' should be used and the data element H.1 'Case Narrative Including Clinical Course, Therapeutic Measures, Outcome and Additional Relevant Information' completed.

1728 During the interim arrangements (see [VI.C.4.1.](#)), the case narratives included in the ICSRs submitted
 1729 to the competent authorities in Member States by marketing authorisation holders, should not be
 1730 modified or deleted when the ICSRs are forwarded to the EudraVigilance database by the competent
 1731 authorities.

1732 Where available, comments from the primary source on the diagnosis, causality assessment or other
 1733 relevant ~~issue, issues~~ should be provided in the ~~data element 'Reporter's comments' (following ICH-~~
 1734 ~~E2B(R2)-B.5.2)- data elements:~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element B.5.2 'Reporter's comments'
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element H.2 'Reporter's Comments'

1735 Competent authorities in Member States and marketing authorisation holders may provide an
 1736 assessment of the case and describe a disagreement with, and/or alternatives to the diagnoses given
 1737 by the primary source (see [VI.C.6.2.2.3.](#)). ~~This should be done in the data element 'Sender's~~
 1738 ~~comments' (ICH-E2B(R2)-B.5.4), where discrepancies~~ Discrepancies or confusions in the information
 1739 notified by the primary source may also be highlighted. Where applicable, a summary of the points of
 1740 concerns and actions proposed should also be included in the ~~data element 'Sender's comments' (ICH-~~
 1741 ~~E2B(R2)-B.5.4), if the ICSR~~ ICSR where it leads to notification of an emerging safety issue (see
 1742 [VI.C.2.2.6.](#)). ~~The degree of suspected relatedness of each medicinal product to the adverse reaction(s)~~
 1743 ~~may be indicated in the data element 'Relatedness of drug to reaction(s)/event(s)' (ICH-E2B(R2)~~
 1744 ~~B.4.k.18), which should be repeated as necessary. This also allows presenting the degree of~~
 1745 ~~relatedness from different sources or with different methods of assessment.~~

1746 In line with ICH-E2B this information should be provided in the following data elements:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element B.5.4 'Sender's comments'
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element H.4 'Sender's Comments'

1747 The degree of suspected relatedness of each medicinal product to the adverse reaction(s) may be used
 1748 to . present the degree of relatedness from different sources or with different methods of assessment.
 1749 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.4.k.18 'Relatedness of drug to reaction(s)/event(s) should be completed and repeated as applicable.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section G.k.9.i 'Drug-reaction(s)/Event(s) Matrix' should be completed and repeated as applicable.

1750 **VI.C.6.2.2.5. Test results**

1751 Results of tests and procedures relevant to the investigation of the patient shall be provided [IR Art 28
1752 (3) (k)].

1753 ~~As described in ICH-E2B(R2) (see GVP Annex IV), the section B.3 'Results of tests and procedures~~
1754 ~~relevant to the investigation of the patient' should capture the~~ This includes tests and procedures
1755 performed to diagnose or confirm the reaction/event, including those tests done to investigate
1756 (exclude) a non-drug cause, (e.g., serologic tests for infectious hepatitis in suspected drug-induced
1757 hepatitis). Both positive and negative results should be ~~reported.~~ **included in the ICSR.**

1758 The coding of investigations should be performed in line with the latest version of the **ICH-Endorsed**
1759 **Guide for MedDRA Users, MedDRA Term Selection: Points to Consider** (see GVP Annex IV). If it is not
1760 possible to provide information on tests and test results in a structured manner, provisions have been
1761 made to allow for the transmission of the information as free text ~~in the data element ICH-E2B(R2)~~
1762 ~~B.3.2. 'Results of tests and procedures relevant to the investigation'.~~

1763 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">• Section B.3 'Results of tests and procedures relevant to the investigation of the patient' should be completed and repeated as applicable.• Data element B.3.1 'Structured information' should be used to structure the information on the test, the outcome and the date the test was performed. Where several tests or procedures were performed, the section should be completed accordingly.• Data element B.3.2 'Results of tests and procedures relevant to the investigation' should be used to provide information on tests and procedures, which cannot be captured in section B.3.1.
ICH-E2B(R3)	<ul style="list-style-type: none">• Section F.r 'Results of Tests and Procedures Relevant to the Investigation of the Patient' should be used to structure the information on the test, the outcome and the date the test was performed. Where several tests or procedures were performed, the section should be completed accordingly.• Data element F.r.2.1 'Test Name (free text)' should be used for the description of a test when an appropriate MedDRA code is unavailable.• Data element F.r.3.4 'Result Unstructured Data (free text)' should be used when 'results' and 'units' cannot be split, often because a Unified Code for Units of Measure (UCUM) code is not available for the test unit.• Data element F.r.6 'Comments (free text)' should be used to capture any relevant comments made by the reporter about the test result.

1764 **VI.C.6.2.2.6. Supplementary records/information**

1765 Key information from supplementary records should be provided in the relevant section of the ICSR,
1766 and their availability should be mentioned ~~in the data element 'List of documents held by sender' (ICH-~~
1767 ~~E2B(R2) A.1.8.2).~~

1768 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element A.1.8 'Additional available documents held by sender' should be completed as applicable.
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element C.1.6.1 'Are Additional Documents Available' should be completed. Section C.1.6.1.r 'Documents Held by Sender' should be completed, where the data element C.1.6.1.r.1 'Documents Held by Sender' should provide a description of the nature of documents (e.g. clinical records, hospital records, autopsy reports) and C.1.6.1.r.2 'Included Documents' should contain the actual document, if the sender chooses to send the document or is required to do so. The processing of personal data should be done in accordance with local data protection law (see VI.C.2.2.10.).

1769 Other known case identifiers relevant for the detection of duplicates should be presented
1770 systematically ~~in the data element 'Other case identifiers in previous transmissions' (ICH-E2B(R2)~~
1771 ~~A.1.11).~~.

1772 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element A.1.11 'Other case identifiers in previous transmissions' should be completed.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section C.1.9.1 'Other Case Identifiers in Previous Transmissions' should be completed as applicable.

1773 **VI.C.6.2.2.7. Follow-up information**

1774 In addition to the guidance in [VI.B.3.](#), the following guidance should be followed:

1775 ICSRs are sent at different times to multiple receivers. Therefore the initial/follow-up status is
1776 dependent upon the receiver. For this reason an item to capture follow-up status is not included in ~~the~~
1777 ~~ICH-E2B(R2) data elements.~~ However, the ~~data element 'Date~~date of receipt of the most recent
1778 information for this ~~report' (ICH-E2B(R2) A.1.7)~~report taken together with the ~~data element 'Sender~~
1779 ~~identifier' (ICH-E2B(R2) A.3.1.2)~~ and the ~~data element 'Sender's~~sender's (case) report unique
1780 ~~identifier' (ICH-E2B(R2) A.1.0.1)~~identifier provide a mechanism for each receiver to identify whether
1781 the report being transmitted is an initial or a follow-up report. For this reason these items are
1782 considered critical for each transmission and a precise date should always be used (i.e. day, month,
1783 year). The ~~data element 'Date~~date of receipt of the most recent information for this ~~report' (ICH-~~
1784 ~~E2B(R2) A.1.7)~~report should therefore always be updated each time a follow-up information is
1785 received by a competent authority or a marketing authorisation holder, ~~independently~~irrespective
1786 whether the follow-up information received is significant enough to be ~~reported~~submitted. The ~~data~~
1787 ~~element 'Date~~date the report was first received from the ~~source' (ICH-E2B(R2) A.1.6)~~source should
1788 remain unchanged to the date the competent authority or the marketing authorisation holder became
1789 aware of the initial report.

1790 New information should be clearly identifiable in the case narrative (~~data element ICH-E2B(R2) B.5.1)~~
1791 and ~~should also be provided in a structured format in the applicable ICH-E2B(R2) data elements.~~

1792 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> The following data elements should always be completed: <ul style="list-style-type: none"> Data element A.1.0.1 'Sender's (case) safety report unique identifier' Data element A.1.6 'Date report was first received from source' Data element A.1.7 'Date of receipt of the most recent information for this report' Data element A.1.10 'Worldwide unique case identification number' Data element A.3.1.2 'Sender identifier' Data element B.5.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' (for serious reports of suspected adverse reactions)
ICH-E2B(R3)	<ul style="list-style-type: none"> The following data elements should always be completed: <ul style="list-style-type: none"> Data element C.1.1 'Sender's (case) Safety Report Unique Identifier' Data element C.1.4 'Date Report Was First Received from Source' Data element C.1.5 'Date of Most Recent Information for this Report' Section C.1.8 'Worldwide Unique Case Identification' Data element H.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' (for serious reports of suspected adverse reactions)

1793 Competent authorities in Member States or marketing authorisation holders should report follow-up
1794 information if significant new medical information has been received. Significant new information
1795 relates to, for example, a new suspected adverse ~~reaction(s); reactions~~, a change in the causality
1796 assessment, and any new or updated information on ~~the~~ case that impacts on its medical
1797 interpretation. Therefore, the identification of significant new information requiring to be
1798 ~~reported~~submitted always necessitates medical judgement.

1799 Situations where the seriousness criteria and/or the causality assessment are downgraded (e.g. follow-
1800 up information leads to a change of the seriousness criteria from serious to non-serious; causality
1801 assessment is changed from related to non-related) should also be considered as significant changes
1802 and thus ~~reported~~submitted as ICSR (see [VI.B.7.1](#) for reporting time frames).

1803 In addition, competent authorities in Member States or marketing authorisation holders should also
1804 ~~report follow-up information, where~~submit a new version of an ICSR, when new administrative
1805 information is available, that could impact on the case management; ~~for~~. For example, if new case
1806 identifiers have become known to the sender, which may have been used in previous transmissions
1807 ~~(data element 'Other case identifiers in previous transmissions' (ICH-E2B(R2) A.1.11))~~. This
1808 information may be specifically relevant to manage potential duplicates. ~~Another example refers to~~
1809 ~~data element 'Additional available documents held by sender' (ICH-E2B(R2) A.1.8), whereby new~~
1810 ~~documents that have become available to~~ In this context, the sender may following data
1811 elements/sections should be ~~relevant for the medical assessment of the case~~ completed in line with
1812 ICH-E2B:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element A.1.11 'Other case identifiers in previous transmissions'

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R3)	<ul style="list-style-type: none"> Section C.1.9.1 'Other Case Identifiers in Previous Transmissions'

1813 Another example refers to additional documents held by sender, whereby new documents that have
 1814 become available to the sender may be relevant for the medical assessment of the case. In this
 1815 context, the following data elements/sections should be completed in line with ICH-E2B :

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section A.1.8 'Additional available documents held by sender'
ICH-E2B(R3)	<ul style="list-style-type: none"> Section C.1.6 'Additional Available Documents Held by Sender'

1816 In contrast, a follow-up report which contains non-significant information does not require to be
 1817 ~~reported~~submitted. This may refer, for example, to minor changes to some dates in the case with no
 1818 implication for the evaluation or transmission of the case, or corrections of typographical errors in the
 1819 previous case version. Medical judgement should be applied since a change to the birth date may
 1820 constitute a significant modification (e.g. with implications on the age information of the patient).
 1821 Similarly, a change of the status of a MedDRA code/term from current to non-current, due to a version
 1822 change of MedDRA, can be considered as a non-significant change as long as this change has no
 1823 impact on the medical content of a case. ~~However, an amendment of the MedDRA coding due to a~~
 1824 ~~change in the interpretation of a previously reported suspected adverse reaction may constitute a~~
 1825 ~~significant change and therefore should be reported.~~

1826 ~~In situations where the case is modified without impacting on its medical evaluation, while no new~~
 1827 ~~follow-up is received (e.g., for correcting a mistake or typographical error), the date of receipt of the~~
 1828 ~~most recent information reported in the data element 'Date of receipt of the most recent information~~
 1829 ~~for this report' (ICH-E2B(R2) A.1.7) should not be changed. This data element should however be~~
 1830 ~~updated in any other situations, to the date when new follow-up information is received (independently~~
 1831 ~~whether it is significant or not) or to the date when changes are made which impact on the~~
 1832 ~~interpretation of the case.~~

1833 Where follow-up information of a case initially ~~reported~~submitted by a marketing authorisation holder
 1834 is received directly by a competent authority, the ~~'Worldwideworldwide~~ unique case identification
 1835 ~~number' (ICH-E2B(R2) A.1.10)number~~ of the initial report should be maintained, in adherence with
 1836 ICH-E2B(R2) (see GVP Annex IV). The same principle should be applied if a follow-up is received by a
 1837 marketing authorisation holder of a case initially ~~reported~~submitted by a competent authority.

1838 **VI.C.6.2.2.8. Amendment Report**

1839 ~~Serious and non-serious cases may need to be amended when, after an internal review or according to~~
 1840 ~~an expert opinion some items have been corrected, without receipt of new information that would~~
 1841 ~~warrant for the submission of a follow-up report. For example, an amendment of the MedDRA coding~~
 1842 ~~due to a change in the interpretation of a previously submitted ICSR may constitute a significant~~
 1843 ~~change and therefore should be sent as amendment report.~~

1844 ~~Additionally, for reports for which case translations shall be provided by marketing authorisation~~
 1845 ~~holders when request by the Agency or other Member States (see VI.C.6.2.2.11.), the translations~~
 1846 ~~should be submitted in the form of amendment reports. The same would apply where documentations~~
 1847 ~~or articles mentioned in the ICSRs are requested by the Agency or other Member States and are~~
 1848 ~~further sent as attachments in ICH E2B(R3) C.4.r.2.~~

1849 However when new information (significant or non-significant) is received, it should be considered as
1850 follow-up report and the guidance provided in **VI.C.6.2.2.7**, should be followed.

1851 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<p>The principle of amending a report as such is not supported. In situations, where the amendment of a report is necessary, the same principles as for a follow-up report can be applied, even where there is no receipt of new information. It should be noted that this can lead to situations, where these reports may appear as “late reports” i.e. do not meet the established reporting timelines.</p> <p>In situations where the case is modified without impacting on its medical evaluation, while no new follow-up is received (e.g., for correcting a mistake or typographical error), the date of receipt of the most recent information included in the data element A.1.7 ‘Date of receipt of the most recent information for this report’ should not be changed.</p>
ICH-E2B(R3)	<ul style="list-style-type: none">• The data element C.1.11.1 ‘Report Nullification/Amendment’ should be set to ‘Amendment’.• The data element C.1.11.2 ‘Reason for Nullification/Amendment’ should be completed to indicate the reason why a previously transmitted ICSR is amended.• The same ‘Sender’s (case) Safety Report Unique Identifier’ (data element C.1.1) previously submitted should be used (see exceptions in ICH ICSR Implementation Guide for C.1.1).• The same ‘Worldwide Unique Identifier’ (data element C.1.8) previously submitted should be used.• The data element C.1.5 ‘Date of Most Recent Information for This Report’ should remain unchanged. For example MedDRA coding needs to be changed following internal quality review; in this example the date should remain unchanged

1852 **VI.C.6.2.2.9. Nullification of cases**

1853 In line with ICH-E2B (see **GVP Annex IV**), the nullification of individual cases should be used to indicate
1854 that a previously transmitted report should be considered completely void (nullified), for example when
1855 the whole case was found to be erroneous or in case of duplicate reports.

1856 The following principles should be followed:

- 1857 • The nullification reason should be clear and concise to explain why this case is no longer
1858 considered to be a valid report. For example a nullification reason stating, ‘the report no longer
1859 meets the reporting criteria’ or ‘report sent previously in error’ are not detailed enough
1860 explanations;
- 1861 • An individual case can only be nullified by the sending organisation;
- 1862 • Once an individual case has been nullified, the case cannot be reactivated;
- 1863 • Individual versions (i.e. follow-up reports) of a case cannot be nullified, only the entire individual
1864 case to which they refer;

- 1865 • A nullified case is one that should no longer be considered for scientific evaluation. The process of
 1866 the nullification of a case is by means of a notification by the sender to the receiver that this is no
 1867 longer a valid case. However, the case should be retained in the sender's and receiver's
 1868 pharmacovigilance database for auditing purposes.

1869 In line with ICH-E2B the following should be applied:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> The data element A.1.13 'Report nullification' should be set to "Yes". The data element A.1.13.1 'Reason for nullification' should be completed to indicate the reason why a previously transmitted ICSR is considered completely void. The same 'Worldwide unique case identification number' (data element A.1.10) previously submitted should be used. The data element A.1.7 'Date of receipt of the most recent information for this report' should either reflect the date when information was received that warrants the nullification of the report or otherwise should remain unchanged.
ICH-E2B(R3)	<ul style="list-style-type: none"> The data element C.1.11.1 'Report Nullification/Amendment' should be set to 'Nullification'. The data element C.1.11.2 'Reason for Nullification/Amendment' should be completed to indicate the reason why a previously transmitted ICSR is considered completely void. The same 'Sender's (case) Safety Report Unique Identifier' (data element C.1.1) previously submitted should be used (see exceptions in ICH ICSR Implementation Guide for C.1.1). The same 'Worldwide Unique Identifier' (data element C.1.8) previously submitted should be used. The data element C.1.5 "Date of Most Recent Information for This Report" should either reflect the date when information was received that warrants the nullification of the report or otherwise should remain unchanged.

1870
 1871 Examples of scenarios for which ICSRs should be nullified are provided in [VI.App.5](#).

1872 If it becomes necessary to resubmit the case that has been previously nullified the following should be
 1873 considered:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> A new 'Sender's (case) safety report unique identifier' (data element A.1.0.1) and a new 'Worldwide unique case identification number' (data element A.1.10) should be assigned.
ICH-E2B(R3)	<ul style="list-style-type: none"> A new 'Sender's (Case) Safety Report Unique Identifier' (data element C.1.1) and a new 'Worldwide Unique Case Identification' (Section C.1.8) should be assigned.

1874 **VI.C.6.2.2.10. What to take into account for data ~~privacy~~ protection laws**

1875 To detect, assess, understand and prevent adverse reactions and to identify, and take actions to
1876 reduce the risks of, and increase the benefits from medicinal products for the purpose of safeguarding
1877 public health, the processing of personal data **concerning the patient or the primary source** within the
1878 EudraVigilance database is possible while respecting EU legislation in relation to data protection
1879 (Directive 95/46/EC, Regulation (EC) No 45/2001).

1880 Where in accordance with applicable national legislation, information related to personal data cannot
1881 be transferred to the EudraVigilance database, pseudonymisation may be applied by competent
1882 authorities in Member States and by marketing authorisation holders, thereby replacing identifiable
1883 personal data such as name and address with pseudonyms or key codes, for example in accordance
1884 with the ISO Technical Specification DD ISO/TS 25237:2008, Health informatics – Pseudonymization
1885 [IR Recital 17]. The application of pseudonymisation will facilitate the ability of the EudraVigilance
1886 system to adequately support case processing and detect duplicates. ~~This~~ **Alternatively where**
1887 **pseudonymisation is not feasible, the following may be applied in line with ICH-E2B:**

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">In certain data elements which can identify an individual such as in the reporter's name, initials, address, or in the patient's name, initials, medical record number, where the information cannot be transmitted for data protection reasons, the data element should be populated with the value 'PRIVACY'.
ICH-E2B(R3)	<ul style="list-style-type: none">The nullflavor 'MSK' (see VI.A.2.6.) should be used if personal information is available but cannot be provided by the sender due to local privacy legislation. It informs the receiver that the information does exist without providing personal details such as birth date or name.

1888 **Pseudonymisation or the use of the nullflavor 'MSK'** should however be ~~done~~ **applied** without impairing
1889 the information flow in the EudraVigilance database and the interpretation and evaluation of safety
1890 data relevant for the protection of public health; given the high-level nature of the information, data
1891 elements such as patient's age, age group and gender should in principle be kept un-redacted/visible.

1892 **VI.C.6.2.2.911. Handling of languages**

1893 ~~The ICH-E2B(R2) (see [GVP Annex IV](#)) concept for the~~ The electronic reporting of ICSRs is based on the
1894 fact that structured and coded information is used for data outputs of pharmacovigilance systems (e.g.
1895 listings) and for signal detection. However, for scientific case assessment and signal evaluation, ~~the~~
1896 ~~medical summary provided in the data element 'Case narrative including clinical course, therapeutic~~
1897 ~~measures, outcome and additional relevant information' (ICH-E2B(R2)-B.5.1)~~ a medical summary is
1898 normally required (see [VI.6.2.2.4.](#)).

1899 Where suspected adverse reactions are reported by the primary source in narrative and textual
1900 descriptions in an official language of the Union other than English, the original verbatim text and the
1901 summary thereof in English shall be provided by the marketing authorisation holder⁵⁸. Member States
1902 may report case narratives in their official language(s). For those reports, case translations shall be
1903 provided when requested by the Agency or other Member States for the evaluation of potential signals.

⁵⁸ In practice, the original verbatim text reported by the primary source in an official language of the Union other than English should be included in the ICSR, if it is requested by the Member State where the reaction occurred or by the Agency.

1904 For suspected adverse reactions originating outside the EU, English shall be used in the ICSR [IR 28
1905 (4)].

1906 Additional documents held by the sender, which may be only available in a local language, should only
1907 be translated if requested by the receiver.

1908 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">Data element B.5.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' should be used to capture the original verbatim text and the English summary thereof.
ICH-E2B(R3)	<ul style="list-style-type: none">Section H.5.r 'Case Summary and Reporter's Comments in Native Language (repeat as necessary)' should be used to provide information on the clinical course of the case, therapeutic measures, outcome and other relevant information, as well as the reporter's comments on the case in a language different from that used in sections H.1, H.2, and H.4.

1909 ~~**VI.C.6.2.2.10. Nullification of cases**~~

1910 ~~In line with ICH-E2B(R2) (see GVP Annex IV), the nullification of individual cases should be used to~~
1911 ~~indicate that a previously transmitted report should be considered completely void (nullified), for~~
1912 ~~example when the whole case was found to be erroneous or in case of duplicate reports. It is essential~~
1913 ~~to use the same case report numbers previously submitted in the data element 'Sender's (case) safety~~
1914 ~~report unique identifier' (ICH-E2B(R2) A.1.0.1) and in the data element 'Worldwide unique case~~
1915 ~~identification number' (ICH-E2B(R2) A.1.10):~~

1916 ~~A nullified case is one that should no longer be considered for scientific evaluation. The process of the~~
1917 ~~nullification of a case is by means of a notification by the sender to the receiver that this is no longer a~~
1918 ~~valid case. However, the case should be retained in the sender's pharmacovigilance database for~~
1919 ~~auditing purposes:~~

1920 ~~The principles to be considered when nullifying a case are detailed in [VI. Appendix 5](#):~~

1921 **VI.C.6.2.3. Special situations**

1922 **VI.C.6.2.3.1. Use of a medicinal product during pregnancy or breastfeeding**

1923 General recommendations are provided in [VI.B.6.1](#).

1924 With regard to the electronic reporting of parent-child/foetus cases, the following should be adhered
1925 to:

- 1926 a. ~~In the situation where~~ if a foetus or nursing infant is exposed to one or several medicinal products
1927 through the parent and experiences one or more suspected adverse reactions (other than early
1928 spontaneous abortion/foetal demise), ~~information on both the parent and the child/foetus should~~
1929 ~~be provided in the same report. These cases are referred to as parent-child/foetus reports. The~~
1930 ~~information provided in the section 'Patients characteristics' (ICH-E2B(R2) B.1) applies only to the~~
1931 ~~child/foetus. The characteristics concerning the parent (mother or father), who was the source of~~
1932 ~~exposure to the suspect medicinal product should be provided in the data element 'For a parent-~~
1933 ~~child/fetus report, information concerning the parent' (ICH-E2B(R2) B.1.10). If both parents are~~
1934 ~~the source of the suspect drug(s) then the case should reflect the mother's information in the data~~

1935
1936
1937
1938

1939
1940
1941
1942
1943
1944
1945
1946

1947

~~element 'For a parent-child/fetus report, information concerning the parent' (ICH-E2B(R2)-B.1.10). The data element 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' (ICH-E2B(R2)-B.5.1) should describe the entire case, including the father's information-):~~

Information on both the parent and the child/foetus should be provided in the same report. This case is referred to as a parent-child/foetus report. The information provided for the patient's characteristics applies only to the child/foetus. The characteristics concerning the mother or father, who was the source of exposure to the suspect medicinal product, should be captured as part of the information concerning the parent. If both parents are the source of the suspect drug(s), the structured parent information in the case should reflect the mother's characteristics; information regarding the father should be provided in the narrative together with all other relevant information.

In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.1 'Patient characteristics' should be completed for the child/foetus. Section B.1.10 'For a parent-child/fetus report, information concerning the parent' should be completed for the mother or the father as applicable. Data element B.5.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' should be used to provide the medical summary for the entire case and where both parents are the source of the suspected drug(s), the father's characteristics should be also reflected here.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section D 'Patient Characteristics' should be completed for the child/foetus. Section D.10 'For a Parent-child / Foetus Report, Information Concerning the Parent' should be completed for the mother or the father as applicable. Section H.5.r 'Case Summary and Reporter's Comments in Native Language (repeat as necessary)' should be used to provide the medical summary for the entire case and where both parents are the source of the suspected drug(s), the father's characteristics should be also reflected here.

1948
1949
1950
1951
1952

- b. If both the parent and the child/foetus experience suspected adverse reactions, ~~two~~:
Two separate reports, i.e. one for the parent (mother or father) and one for the child/foetus, should be created ~~but they~~. Both reports should be linked ~~by using the data element 'Identification number of the report which is linked to this report' (in ICH-E2B(R2)-A.1.12) in each report.~~ as followed:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section A.1.12 'Identification number of the report which is linked to this report' should be used to identify cases that warrant being evaluated together e.g. a mother-child pair where both had reactions.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section C.1.10.r 'Identification Number of the Report Linked to this Report (repeat as necessary)' should be completed for all linked reports. For example, if a sender wishes to reference (link) an ICSR A to ICSR B, then

Reference	E2B(R2)/(R3) requirements
	the sender populates C.1.10.r in both reports.

1953 c. If there has been no reaction affecting the child, ~~the~~:
 1954 The parent-child/foetus report does not apply; i.e. ~~the section 'Patients characteristics' (ICH-~~
 1955 ~~E2B(R2) B.1) applies~~ the parent's characteristics only apply to the parent (mother or father) who
 1956 experienced the suspected adverse reaction.

1957 ~~For these cases describing~~ In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.1 'Patient characteristics' should be completed for the mother or father as applicable.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section D 'Patient Characteristics' should be completed for the mother or father as applicable.

1958 d. If there has been a miscarriage or early spontaneous abortion, ~~only~~:
 1959 Only a parent report is applicable, ~~i.e.~~ with the ~~section 'Patients characteristics' (ICH-E2B(R2) B.1)~~
 1960 ~~apply~~ patient's characteristics to be provided for the mother. However, if the suspect medicinal
 1961 product was taken by the father, ~~the data element 'Additional~~ this information on drug' (ICH-
 1962 ~~E2B(R2) B.4.k.19) should specify that the medication was taken by the father~~ should also be
 1963 recorded.

1964 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Section B.1 'Patient characteristics' should be completed for the characteristics of the mother. The data element B.4.k.19 'Additional information on drug' should be completed if suspect drug(s) were taken by the father.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section D 'Patient Characteristics' should be completed for the characteristics of the mother. Data element G.k.10.r 'Additional Information on Drug (coded)' should be completed if suspect drug(s) were taken by the father. The value to be selected is 'Drug taken by father'.

1965 **VI.C.6.2.3.2. Suspected adverse reaction reports published in the scientific literature**

1966 EU requirements in relation to the monitoring of suspected drug reactions reported in the scientific and
 1967 medical literature are provided in ~~VI.C.2.2.3. VI.C.2.2.3.1.~~ With regard to the electronic reporting of
 1968 ICSRs published in the scientific and medical literature, the following ~~applies~~ recommendation should be
 1969 followed:

1970 The literature references shall be ~~included in the data element 'Literature reference(s)' (ICH-E2B(R2)~~
 1971 ~~A.2.2)~~ provided in the Vancouver Convention (known as "Vancouver style"), developed by the
 1972 International Committee of Medical Journal Editors [IR Art 28 (3) (b)]. ~~The standard format as well as~~

1973 those for special situations can be found in the following reference: [International Committee of Medical](#)
 1974 [Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med.](#)
 1975 [1997; 336: 309-16](#), which is in the Vancouver style)]⁵⁹.

1976 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> The data element A.2.2 'Literature reference(s)' should be populated with the literature reference. The Digital Object Identifier (DOI) for the article should be included where available, e.g.: "International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med 1997; 336: 309-15. doi:10.1056/NEJM199701233360422"
ICH-E2B(R3)	<ul style="list-style-type: none"> Section C.4.r 'Literature Reference(s)' should be populated with the literature reference reflected in the data element C.4.r.1 'Literature Reference(s)'. The Digital Object Identifier (DOI) for the article should be included where available e.g.: " International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med 1997; 336: 309-15. doi:10.1056/NEJM199701233360422"

1977 A comprehensive English summary of the article shall be provided ~~in~~ **as part of the data element 'Case**
 1978 **narrative including clinical course, therapeutic measures, outcome and additional relevant information'**
 1979 **(ICH-E2B(R2)-B.5.1)information** [IR Art 28 (3) (b)].

1980 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element B.5.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' should be used to provide the comprehensive English summary.
ICH-E2B(R3)	<ul style="list-style-type: none"> Section H.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' should be used to provide the comprehensive English summary.

1981 Upon request of the Agency, for specific safety review, a full translation in English and a copy of the
 1982 relevant literature article shall be provided by the marketing authorisation holder that transmitted the
 1983 initial report, taking into account copyright restrictions [IR 28 (3)]. ~~The recommendations detailed in~~
 1984 ~~VI.App2.10, regarding the mailing of the literature article, should be adhered to.~~

1985 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> The recommendations detailed in VI.App2.10, regarding the mailing of the literature article, should be adhered to.

⁵⁹ ~~The Vancouver recommendations are also available on the International Committee of Medical Journal Editors website <http://www.icmje.org>. See International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med. 1997; 336: 309-16.~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R3)	<ul style="list-style-type: none"> The electronic version of the document (i.e. the journal article and a copy of the translation where applicable) should be attached to the ICSR in C.4.r.2. If the article and/or translation are not provided at the time of ICSR reporting, attachments can be transmitted separately from the ICSR transmission. When the sender transmits an attachment later, the original ICSR along with all the same medical information captured in E2B(R3) data elements is retransmitted as an 'amendment' (see VI.C.2.2.8.). If new additional information is provided, then the ICSR with attachment is transmitted as a follow-up.

1986 Recommendations presented in VI.App2.10.7, for the reporting of several individual cases when they
1987 are published in the same literature article, should be followed.

1988 **VI.C.6.2.3.3. Suspected adverse reactions related to overdose, abuse, off-label use, misuse,**
1989 **medication error or occupational exposure**

1990 General principles are provided in VI.B.6.3..

1991 If a case of overdose, abuse, off-label use, misuse, medication error or occupational exposure is
1992 reported with clinical consequences, the MedDRA Lowest Level Term code, corresponding to the term
1993 closest to the description of the reported overdose, abuse, off-label use, misuse, medication error or
1994 occupational exposure should be added to the observed suspected adverse reaction(s) in ~~the data~~
1995 ~~element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1), in line~~
1996 with recommendations included in the latest version of the [ICH-Endorsed Guide for MedDRA Users](#)
1997 ['MedDRA Term Selection: Points to Consider'](#) (see GVP Annex IV).

1998 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> Data element B.4.k.19 'Additional information on drug' can be used to specify any additional information (e.g., overdose, abuse, off-label use, misuse, medication error or occupational exposure). Additional information concerning the indication for the drug should be provided as applicable. Likewise, the appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)' or in the data element 'B.5.3 Sender's diagnosis/syndrome and/or reclassification of reaction/event' (in line with ICH-Endorsed Guide for MedDRA Users 'MedDRA Term Selection: Points to Consider').
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element G.k.10.r 'Additional Information on Drug (coded)' should be completed using one or more of the following values as applicable: , Overdose, Medication error, Misuse, Abuse, Occupational exposure and Off label use. The value(s) should be used where the primary source has made a clear statement related to the additional characteristics of the drug. Likewise, an appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)'. Alternatively, section H.3.r 'Sender's Diagnosis' should be completed (in line with ICH-Endorsed Guide for MedDRA Users 'MedDRA Term Selection: Points to Consider').

Reference	E2B(R2)/(R3) requirements
-----------	---------------------------

- If the primary source did not provide an explicit statement about the drug characterisation which would clearly transpose into a MedDRA term in the reaction section but there is an indication in the context of the clinical course description, the sender may choose the most applicable value(s) of G.k.10.r at their discretion. The case should be followed up to obtain further information.
- Data element G.k.11 'Additional Information on Drug (free text)' should be used to capture any additional drug information in free text format not described in G.k.10.r.
- The data element G.k.1 'Characterisation of Drug Role' should be populated with the value 'Drug not administered' for medication errors if the patient did not receive the actual prescribed drug but another one, based on the information provided by the primary source or, if this information is missing, by the sender. This applies where the patient did not receive the actual prescribed drug. There is no equivalent in ICH-E2B(R2). Sections G 'Drug(s) Information' should be completed with the information about the prescribed drug (including the fact that it was not administered), as well as the information on the dispensed drug as the 'suspect' drug.

Values definition for data element 'G.k.10.r Additional Information on Drug (coded)'

• Overdose	This is to indicate that the medicine may have been subject to an overdose as defined in chapter VI.A.2.1.2.a.
• Misuse	This is to indicate that the medicine may have been associated with misuse as defined in chapter VI.A.2.1.2.a.
• Abuse	This is to indicate that the medicine may have been associated with abuse as defined in chapter VI.A.2.1.2.a.
• Occupational exposure	This is to indicate that the medicine may have been associated with occupational exposure as defined in chapter VI.A.2.1.2.a.
• Off label use	This is to indicate that the medicine may have been associated with off label use as defined in chapter VI.A.2.1.2.a.
• Medication error	This is to indicate that the medicine may have been associated with a medication error as defined in chapter VI.A.2.1.2.a.

1999 **VI.C.6.2.3.4. Lack of therapeutic efficacy**

2000 General principles are provided in [VI.B.6.4.](#)

2001 If the primary source suspects a lack of therapeutic efficacy, the MedDRA Lowest Level Term code,
 2002 corresponding ~~to the term closest~~ most closely to the description of the reported lack of therapeutic
 2003 efficacy, should be provided in ~~the data element 'Reaction/event in MedDRA terminology (Lowest Level~~

2004 | ~~Term)~~ (ICH-E2B(R2) B.2.i.1), in line accordance with recommendations ~~included~~ in the latest version of
 2005 | the ICH-Endorsed Guide for MedDRA Users 'MedDRA Term Selection: Points to Consider' (see GVP
 2006 | Annex IV).

2007 | In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> The appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)'.
ICH-E2B(R3)	<ul style="list-style-type: none"> The appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)'.

2008 | Unless aggravation of the medical condition occurs, the indication for which the suspected medicinal
 2009 | product was administered should not be included in the data element 'Reaction/event in MedDRA
 2010 | terminology (Lowest Level Term)-)' or 'Reaction/Event (MedDRA code)'.

2011 | The same reporting modalities as for serious ICSRs (see VI.C.4.) should be applied for those cases
 2012 | related to classes of medicinal products where, as described in VI.B.6.4., reports of lack of therapeutic
 2013 | efficacy should be ~~reported~~ submitted within a 15-day time frame. If no seriousness criterion is
 2014 | available, it is acceptable to submit the ICSR within 15 days as non-serious.

2015 | ***VI.C.6.2.3.5. Suspected adverse reactions related to quality defect or falsified medicinal***
 2016 | ***products***

2017 | EU requirements are provided in VI.C.2.2.4. In order to be able to clearly identify cases related to
 2018 | quality defect or falsified medicinal products (see GVP Annex I) when they are exchanged between
 2019 | stakeholders, the following recommendations should be applied:

2020 | ***a. ~~a.~~ Quality defect***

2021 | Where a report of suspected adverse reactions is associated with a suspected or confirmed quality
 2022 | defect of a medicinal product, the MedDRA Lowest Level Term code of the term corresponding most
 2023 | closely to the product quality issue, should be added to the observed suspected adverse reaction(s) in
 2024 | ~~the data element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1).~~
 2025 | ~~accordance with the recommendations in the latest version of the~~ ICH-Endorsed Guide for MedDRA
 2026 | Users 'MedDRA Term Selection: Points to Consider'.

2027 | ~~b.~~ In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> As a general principle, additional characteristics related to the medicines and pertinent to the case should be coded and further information related to the quality defect provided in free text. Data element B.4.k.19 'Additional information on drug' should be used to specify any additional information (e.g., beyond expiration date, batch and lot tested and found to be within specifications); additional information concerning the indication for the drug should be provided as applicable. The appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)'.
ICH-E2B(R3)	<ul style="list-style-type: none"> Data element G.k.10.r 'Additional Information on Drug (coded)' should be

Reference	E2B(R2)/(R3) requirements	
	<p>completed using one or more of the following values as applicable: Batch and lot tested and found within specifications; Batch and lot tested and found not within specifications. These values should be used where the primary source has made a clear statement related to the additional characteristics of the drug.</p> <ul style="list-style-type: none"> Likewise, an appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)'. Alternatively, section H.3.r 'Sender's Diagnosis' should be completed. Data element G.k.11 'Additional Information on Drug (free text)' should be used to capture any additional drug information in free text format not described in G.k.10.r. 	
	<ul style="list-style-type: none"> Values definition for data element 'G.k.10.r Additional Information on Drug (coded)' 	
	<ul style="list-style-type: none"> Drug taken beyond expiry date 	<p>This is to indicate that the medicine administered to or taken by the patient was beyond its expiry date as indicated in the SmPC or on the packaging of the medicine.</p>
	<ul style="list-style-type: none"> Batch and lot tested and found within specifications 	<p>This is to indicate that a batch or lot of a medicine was tested and found within the specifications of the marketing authorisation.</p>
	<ul style="list-style-type: none"> Batch and lot tested and found not within specifications 	<p>This is to indicate that a batch or lot of a medicine was tested and was found outside the specifications of the marketing authorisation.</p>

2028 **b. Falsified medicinal products**

2029 Where a report of suspected adverse reactions is associated with a suspected or confirmed falsified⁶⁰
2030 ingredient, active substance or medicinal product, the MedDRA Lowest Level Term code of the term
2031 corresponding most closely to the reported information should be added to the observed suspected
2032 adverse reaction(s) in accordance with the ~~data element 'Reaction/event'~~ recommendations in MedDRA
2033 terminology (Lowest Level Term) (ICH-E2B(R2) B.2.i.1): the latest version of the ICH-Endorsed Guide
2034 for MedDRA Users 'MedDRA Term Selection: Points to Consider'. Information on the suspected
2035 medicinal product, active substance(s) or excipient(s) should be ~~provided in the data elements~~
2036 ~~'Proprietary medicinal product name' (ICH-E2B(R2) B.4.k.2.1) and/or 'Active substance name(s)' (ICH-~~
2037 ~~E2B(R2) B.4.k.2.2) as reported by the primary source~~ also provided.

2038 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements	
ICH-E2B(R2)	<ul style="list-style-type: none"> As a general principle, additional characteristics related to the medicines and pertinent to the case should be coded and further information related to the falsified medicinal product provided in free text. Data element B.4.k.19 'Additional information on drug' should be used to specify any additional information (e.g., falsified medicine); additional information concerning the 	

⁶⁰ As presented in EU legislation ([Directive 2011/62/EU](#)).

Reference	E2B(R2)/(R3) requirements	
	<p>indication for the drug should be provided as applicable.</p> <ul style="list-style-type: none"> An appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)' or the data element 'B.5.3 Sender's diagnosis/syndrome and/or reclassification of reaction/event'. Data element B.4.k.2.1 'Proprietary medicinal product name' and/or B.4.k.2.2 'Active substance name(s)' as reported by the primary source should be populated accordingly. 	
ICH-E2B(R3)	<ul style="list-style-type: none"> As a general principle, additional characteristics related to the medicines and pertinent to the case should be coded and further information provided in the case narrative. An appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)'. Alternatively, section H.3.r 'Sender's Diagnosis' should be completed. Section G.k 'Drug(s) Information' should be completed; information should be captured in the data element G.k.2.2 'Medicinal Product Name as Reported by the Primary source' and/or G.k.2.3.r.1 'Substance/Specified Substance name'. Data element G.k.10.r 'Additional Information on Drug (coded)' should be completed using the following value 'Counterfeit'. The value should be used where the medicine is suspected or confirmed to be a falsified medicinal product. If new information is received to confirm the product is not a counterfeit, the data element G.k.10.r should be changed appropriately in a follow up. If the product is confirmed as a counterfeit, the appropriate MedDRA code should be used in data element in H.3.r 'Sender's Diagnosis' and information should be provided in the case narrative. Data element G.k.11 'Additional Information on Drug (free text)' should be used to capture any additional drug information in free text format not described in G.k.10.r e.g. medicine purchased over the internet. 	
	Values definition for data element G.k.10.r 'Additional Information on Drug (coded)'	
	<ul style="list-style-type: none"> Counterfeit⁶¹ 	<p>This is to indicate that the medicine was suspected or confirmed to be a falsified medicinal product in line with the definition provided in Article 1, paragraph 33 of Directive 2001/83/EC.</p>

2039

2040

⁶¹ This value should not be used to refer to medicines that do not comply with EU law on intellectual and industrial property rights, such as registered trademarks or patent rights, as defined for counterfeit medicines in [Q&A: Directive on falsified medicines](#).

2041 **VI.C.6.2.3.6. Suspected transmission via a medicinal product of an infectious agent**

2042 EU requirements are provided in [VI.C.2.2.5.](#)

2043 The coding of a suspected transmission of an infectious agent via a medicinal product ~~in the data~~
2044 ~~element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1)~~ should
2045 be performed in line with the latest version of the [ICH-Endorsed Guide for MedDRA Users 'MedDRA](#)
2046 [Term Selection: Points to Consider'](#) ~~(see GVP Annex IV)~~.

2047 In addition, if the infectious agent is specified, the MedDRA Lowest Level Term code corresponding to
2048 the infectious agent should also be included ~~in the data element 'Reaction/event in MedDRA~~
2049 ~~terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1)~~.

2050 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">The appropriate MedDRA term should be provided in the data element B.2.i.1 'Reaction/event in MedDRA terminology (Lowest Level Term)'.
ICH-E2B(R3)	<ul style="list-style-type: none">The appropriate MedDRA term should be provided in the data element E.i.2.1b 'Reaction/Event (MedDRA code)'.

2051 **VI.C.6.2.3.7. Reports of suspected adverse reactions originating from organised data**
2052 **collection systems and other systems**

2053 General safety reporting requirements in the EU for post-authorisation studies are provided in [VI.C.1.](#)
2054 and [VI.C.2.2.2.](#) Individual case safety reports originating from those studies shall contain information
2055 on study type, study name and the sponsor's study number or study registration number [IR Art 28
2056 (3)(c)]. ~~This should be provided in ICH-E2B(R2) section A.2.3 'Study identification'.~~

2057 In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">Section A.2.3 'Study identification' should be completed accordingly.
ICH-E2B(R3)	<ul style="list-style-type: none">Section C.5 'Study Identification' should be completed accordingly.

2058 Safety reporting requirements regarding patient support programmes or market research programmes
2059 are provided in [VI.C.2.2.11.](#)

2060 ~~All ICSRs which are reportable to the EudraVigilance database and which originate from organised data~~
2061 ~~collection systems and other systems which do not fall under the scope of the clinical trials Directive~~
2062 ~~2001/20/EC , should be submitted to EVPM (see [VI.C.6.2.1.](#)). The same applies to cases of adverse~~
2063 ~~reactions originating from clinical trials if they are suspected to be related to a medicinal product other~~
2064 ~~than the IMP or NIMP and does not result from a possible interaction with the IMP or NIMP.~~

2065 The following reporting rules should be applied based on (i) the type of data collection system and (ii)
2066 whether the suspected medicinal product is part of the scope of the data collection system.

2067 **1.** For cases of suspected adverse reactions (i) in relation to those adverse events for which the
2068 protocol of non-interventional post-authorisation studies ~~does not provide differently and~~ requires
2069 their systematic collection (see [VI.C.1.2.1.](#)), (ii) originating from compassionate use or named
2070 patient use conducted in Member States where the active collection of adverse events occurring in

2071 these programmes is required (see [VI.C.1.2.2.](#)), or (iii) originating from patient support
 2072 programmes, or market research programmes (see [VI.C.2.2.11.](#)):

2073 **a).** Where the adverse reaction is suspected to be related at least to the studied (or supplied)
 2074 medicinal product:

- 2075 • the report should be considered as solicited;
- 2076 ~~• the ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value 'Report~~
 2077 ~~from study';~~
- 2078 ~~• the ICH E2B(R2) data element A.2.3.3 'Study type in which the reaction(s)/event(s) were~~
 2079 ~~observed' should be populated with the value 'Other studies' or 'Individual patient use';~~
- 2080 • in line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • Data element A.1.4 'Type of report' should be populated with the value 'Report from study'. • Data element A.2.3.3 'Study type in which the reaction(s)/event(s) were observed' should be populated with the value 'Other studies' or 'Individual patient use'.
ICH-E2B(R3)	<ul style="list-style-type: none"> • Data element C.1.3 'Type of Report' should be populated with the value 'Report from study'. • Data element C.5.4 'Study Type Where Reaction(s)/Event(s) Were Observed' should be populated with the value 'Other studies' or 'Individual patient use'.

2081 **b).** Where the adverse reaction is only suspected to be related to a medicinal product which is not
 2082 subject to the scope of the organised data collection system and there is no interaction with the
 2083 studied (or supplied) medicinal product:

- 2084 • the report should be considered as spontaneous report; as such it conveys the suspicion of the
 2085 primary source;
- 2086 ~~• The ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value~~
 2087 ~~'Spontaneous';~~
- 2088 • in line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • Data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
ICH-E2B(R3)	<ul style="list-style-type: none"> • Data element C.1.3 'Type of Report' should be populated with the value 'Spontaneous'.

2089 **2.** For suspected adverse reactions (i) in relation to those adverse events for which the protocol of
 2090 non-interventional post-authorisation studies ~~provides differently and~~ does not require their
 2091 systematic collection (see [VI.C.1.2.1.](#)) or (ii) originating from compassionate use or named patient
 2092 use conducted in Member States where the active collection of adverse events occurring in these
 2093 programmes is not required (see [VI.C.1.2.2.](#)):

2094 • the report should be considered as spontaneous report; as such it conveys the suspicion of the
2095 primary source;

2096 ~~• the ICH-E2B(R2) data element A.1.4 'Type of report' should be populated with the value~~
2097 ~~'Spontaneous'.~~

2098 • In line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	• Data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
ICH-E2B(R3)	• Data element C.1.3 'Type of Report' should be populated with the value 'Spontaneous'.

2099 **3.** For clinical ~~trial~~trials conducted in accordance with Directive 2001/20/EC ~~and~~ where the adverse
2100 reaction is only suspected to be related to a ~~non-investigational~~ medicinal product ~~(other than the~~
2101 ~~IMP or another medicinal product which is~~NIMP and does not ~~subject to the scope of the clinical~~
2102 ~~trial) and there is no~~result from a possible interaction with the ~~investigational medicinal~~
2103 ~~product~~-IMP or NIMP (see VI.C.1.1.):

2104 • the report should be considered as spontaneous report; as such it conveys the suspicion of the
2105 primary source;

2106 ~~• the ICH-E2B(R2) data element A.1.4 'Type of report' should be populated with the value~~
2107 ~~'Spontaneous'.~~

2108 ~~All ICSRs which are reportable to the EudraVigilance database and which originate from post-~~
2109 ~~authorisation studies which do not fall under the scope of the clinical trials Directive 2001/20/EC,~~
2110 ~~should be submitted to EVPM (see VI.C.6.2.1.). The same applies to cases of adverse reactions~~
2111 ~~originating in clinical trials if they are not suspected to be related to the investigational medicinal~~
2112 ~~product.~~

2113 • in line with ICH-E2B the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	• Data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
ICH-E2B(R3)	• Data element C.1.3 'Type of Report' should be populated with the value 'Spontaneous'.

2114 VI.C.6.2.3.8. Receipt of missing minimum information

2115 When missing minimum information (see VI.B.2.) has been obtained about a non-valid ICSR, the
2116 following rules should be applied:

2117 • the ~~data element 'Date~~date where the report was first received from ~~source' (ICH-E2B(R2)~~
2118 ~~A.1.6)~~source should ~~contain~~reflect the date of receipt of the initial non-valid ICSR;

2119 • the ~~data element 'Date~~date of receipt of the most recent information ~~for this report' (ICH-E2B(R2)~~
2120 ~~A.1.7)~~should ~~contain~~reflect the date when all the four elements of the minimum information
2121 required for reporting have become available;

2122 • clarification should be provided in the case narrative ~~(data element ICH-E2B(R2) B.5.1)~~ that some
2123 of the four elements were missing in the initial report~~;~~;

2124 • as for any ~~reported~~submitted cases, compliance monitoring is performed against the ~~data element~~
2125 ~~'Date~~date of receipt of the most recent information for this ~~report'~~(report.

2126 In line with ICH-E2B~~(R2) A.1.7)~~, the following applies:

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none">• The data element A.1.6 'Date report was first received from source' should capture the date of receipt of the initial non-valid ICSR;• The data element A.1.7 'Date of receipt of the most recent information for this report' should capture the date when all the four elements of the minimum information required for reporting have become available;• Clarification should be provided in the data element B.5.1 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' that some of the four elements were missing in the initial report.
ICH-E2B(R3)	<ul style="list-style-type: none">• The data element C.1.4 'Date Report Was First Received from Source' should capture the date of receipt of the initial non-valid ICSR;• The data element C.1.5 'Date of Most Recent Information for This Report' should capture the date when all the four elements of the minimum information required for reporting have become available;• Clarification should be provided in the data element H.1 'Case Narrative Including Clinical Course, Therapeutic Measures, Outcome and Additional Relevant Information' that some of the four elements were missing in the initial report.

2127 **VI.C.6.2.4. Data quality of individual case safety reports transmitted electronically and**
2128 **duplicate management**

2129 The EudraVigilance database should contain all cases of suspected adverse reactions that are
2130 reportable according to Directive 2001/83/EC and Regulation (EC) No 726/2004 to support
2131 pharmacovigilance activities. This applies to all medicinal products authorised in the EU independent of
2132 their authorisation procedure.

2133 The EudraVigilance database should also be based on the highest internationally recognised data
2134 quality standards.

2135 To achieve these objectives, all competent authorities in Member States and marketing authorisation
2136 holders should adhere to:

- 2137 • the electronic reporting requirements as defined in EU legislation;
- 2138 • the concepts of data structuring, coding and reporting in line with the EU legislation, guidelines,
2139 standards and principles referred to in [VI.C.6.2.2.1.](#)

2140 This is a pre-requisite to maintain a properly functioning EudraVigilance database intended to fully
2141 support the protection of public health.

2142 In addition, the Agency in collaboration with stakeholders that submit ICSRs to EudraVigilance, are
2143 responsible to contribute to the quality and integrity of the data. This is also reflected in legislation as
2144 follows:

2145 • The Agency shall, in collaboration with the stakeholder that submitted an ICSR to the
2146 EudraVigilance database, be responsible for operating procedures that ensure the highest quality
2147 and full integrity of the information collected in the EudraVigilance database [REG Art 24(3)]. This
2148 includes as well the monitoring of use of the terminologies referred to in chapter IV of the
2149 Commission Implementing Regulation (EU) No 520/2012 [IR Art 25(3)].

2150 Specific quality system procedures and processes shall be in place in order to ensure~~+~~

2151 • the submission of accurate and verifiable data on serious and non-serious suspected adverse
2152 reactions to the Eudravigilance database within the 15 or 90-day time frame [IR Art 11 (1) (c)];

2153 • ~~Specific quality system procedures and processes shall be in place in order to ensure~~ the quality,
2154 integrity and completeness of the information submitted on the risks of medicinal products,
2155 including processes to avoid duplicate submissions [IR Art 11 (1) (d)].

2156 • ~~Marketing authorisation holders shall collaborate with the Agency and the Member States in the~~
2157 ~~detection of duplicates of suspected adverse reaction reports [DIR Art 107(5)].~~

2158 • ~~Member States shall collaborate with the Agency and the marketing authorisation holders in the~~
2159 ~~detection of duplicates of suspected adverse reaction reports [DIR Art 107a (3)].~~

2160 In this regard, marketing authorisation holders and competent authorities in Member States should
2161 have in place an audit system, which ensures the highest quality of the ICSRs transmitted
2162 electronically to the EudraVigilance database within the correct time frames, and which enables the
2163 detection and management of duplicate ICSRs in their system. Those transmitted ICSRs should be
2164 complete, entire and undiminished in their structure, format and content.

2165 ~~High level~~For the purpose of a systematic approach towards quality in accordance with the quality
2166 cycle as outlined in **GVP Module I**, managerial staff (i.e. staff with management responsibilities) in any
2167 organisation should be responsible for ensuring that adequate resources are available and that
2168 appropriate training is provided to their personnel for pharmacovigilance. Competent authorities in
2169 Member States and marketing authorisation holders should regularly update their training plans based
2170 on an assessment of the training needs of their personnel for pharmacovigilance, which should be
2171 subject to monitoring. Records for documenting and developing the competences of personnel should
2172 be maintained and updated accordingly. To support the training of personnel for pharmacovigilance,
2173 the Agency has made available a detailed training plan and catalogue based on a modular training
2174 approach focusing on adverse reactions reporting, signals management and EudraVigilance⁶².

2175 In support of the operation of the procedures that ensure the highest quality and full integrity of the
2176 information collected in EudraVigilance as well as the monitoring of use of the terminologies for the
2177 reporting of suspected adverse reactions, business process maps and process descriptions in relation
2178 to the quality review of ICSRs ~~and the~~ are provided in **VI.App.6**.

2179 A review of the ICSRs quality, integrity and compliance with the reporting time frames will be
2180 performed by the Agency at regular intervals for all organisations reporting to EudraVigilance in line
2181 with the Agency's SOPs. Parameters upon which the review of organisations may be initiated, refer for
2182 example to the volume of reports being submitted to EudraVigilance, major changes to
2183 pharmacovigilance databases, quality issues identified as part of the signal management, requests

⁶² Accessible on [EudraVigilance training webpage](#).

2184 from pharmacovigilance inspectors and the time interval since the last review. For the purpose of the
2185 monitoring of the 15 or 90 days reporting time frames, the Agency provides competent authorities in
2186 Member States and marketing authorisation holders with monthly compliance reports.

2187 The outcome of the quality reviews will be provided to the organisations on the basis of a report, which
2188 include the need for corrective measures where applicable and the time frames for these measures to
2189 be applied. The time frames and the method for corrective measures will depend on the quality issues
2190 identified (e.g. corrections of the MedDRA coding of ICSRs to be performed by means of amendment
2191 reports).

2192 With regard to the monitoring by the Agency of selected medical literature for reports of suspected
2193 adverse reactions to medicinal products containing certain active substances (see [VI.C.2.2.3.1.](#)) and
2194 the entering of adverse reaction reports in EudraVigilance in accordance with Article 27 of Regulation
2195 (EC) 726/2004, two-yearly audits are planned to ensure the quality and integrity of the reports. SOPs
2196 and WINs for the routine quality review process are published at the Agency's dedicated medical
2197 literature monitoring webpage.⁶³

2198 In support of the operation of procedures that ensure detection and management of duplicate ICSRs
2199 ~~are provided in [VI. Appendix 6](#) and [VI. Appendix 7](#). Further guidance~~, business process maps and
2200 process descriptions are provided in [VI.App.7](#) taking into account various scenarios acknowledging that
2201 duplicates may be detected at various stages of the processing of ICSRs by numerous stakeholders
2202 and in EudraVigilance. The collaboration between the Agency, competent authorities in Member States
2203 and marketing authorisation holders is required to ensure that potential duplicates of reports of
2204 suspected adverse reactions are reviewed, confirmed and processed as necessary. Guidance on the
2205 detection of duplicate ICSRs is ~~available~~ provided in the [Guideline on the Detection and Management of](#)
2206 [Duplicate Individual Cases and Individual Case Safety Reports \(ICSRs\)](#) ([EMA/13432/2009](#)).

2207 ~~A review of the ICSRs quality, integrity and compliance with the reporting time frames will be~~
2208 ~~performed by the Agency at regular intervals for all organisations reporting to the EudraVigilance~~
2209 ~~database. Feedback from these reviews will be provided to those organisations.~~

2210 ***VI.C.6.2.5. Electronic re-transmission of ICSRs between multiple senders and receivers***

2211 The electronic re-transmission of cases refers to the electronic exchange of ICSRs between multiple
2212 senders and receivers, for example where in case of contractual agreement, a third country ICSR is
2213 first ~~reported~~ submitted by a marketing authorisation holder outside the EU to another marketing
2214 authorisation holder in the EU and from there to the Agency. This applies as well for the interim
2215 arrangements period, where based on the reporting requirements detailed in [VI.C.4.1.](#), ICSRs
2216 originating in the EU are submitted by marketing authorisation holders to the competent authorities in
2217 the Member State where the reaction occurred and then re-transmitted to the EudraVigilance
2218 database.

2219 During this re-transmission process, information on the case should not in principle be omitted or
2220 changed if no new information on the case is available to the re-transmitting sender. **Exceptions apply**
2221 **to the following ICH-E2B data elements or sections:**

2222 ~~Exceptions apply to the following data elements or sections:~~

- 2223 ~~• 'Sender's (case) safety report unique identifier' (ICH-E2B(R2) A.1.0.1);~~
- 2224 ~~• 'Date of this transmission' (ICH-E2B(R2) A.1.3);~~

⁶³ [Monitoring of medical literature and entry of adverse reaction reports into EudraVigilance](#)

- 2225 ~~• 'Date report was first received from source' (ICH-E2B(R2) A.1.6), for initial reports;~~
- 2226 ~~• 'Date of receipt of the most recent information for this report' (ICH-E2B(R2) A.1.7);~~
- 2227 ~~• 'Information on sender and receiver of case safety report' (ICH-E2B(R2) A.3);~~
- 2228 ~~• 'Relatedness of drug to reaction(s)/event(s)' (ICH-E2B(R2) B.4.k.18);~~
- 2229 ~~• 'Sender's diagnosis/syndrome and/or reclassification of reaction/event' (ICH-E2B(R2) B.5.3);~~
- 2230 ~~• 'Sender's comments' (ICH-E2B(R2) B.5.4).~~

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<ul style="list-style-type: none"> • Data element A.1.0.1 'Sender's (case) safety report unique identifier'; • Data element A.1.3 'Date of this transmission'; • Data element A.1.6 'Date report was first received from source', for initial reports; • Data element A.1.7 'Date of receipt of the most recent information for this report'; • Data element A.3 'Information on sender and receiver of case safety report'; • Data element B.4.k.18 'Relatedness of drug to reaction(s)/event(s)'; • Data element B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event'; • Data element B.5.4 'Sender's comments'.
ICH-E2B(R3) guideline	<ul style="list-style-type: none"> • Data element C.1.1 'Sender's (case) Safety Report Unique Identifier'; • Data element C.1.4 'Date Report Was First Received from Source, for initial reports'; • Data element C.1.5 'Date of Most Recent Information for This Report'; • Data element G.k.9.i.2 'Assessment of Relatedness of Drug to Reaction(s)/Event(s)'; • Data element H.3.r 'Sender's Diagnosis (MedDRA code)'; • Data element H.4 'Sender's Comments'.

2231 In the interest of improving data quality, in case of errors or inconsistencies in the report, the re-
 2232 transmitters should go back to the originator of the report to correct the case accordingly. However, if
 2233 this cannot be done within normal reporting time frame, the re-transmitter can correct information that
 2234 has been incorrectly structured.

2235 In addition, any electronic data interchange partner should adhere to the ICH-E2B(R2) rules regarding
 2236 the provision of follow-up information, ~~whereby the 'Worldwide unique case identification number'~~
 2237 ~~(ICH-E2B(R2) A.1.10) should be maintained~~ in accordance with the ~~ICH-E2B(R2) guideline~~ (see GVP
 2238 ~~Annex IV)~~ principles set out in VI.C.6.2.2.7. Non-adherence to these administrative requirements
 2239 endangers the electronic case management and leads to the potential for unnecessary duplication of
 2240 reports in the receiver's database.

2241 **VI.C.6.2.6. Electronic reporting through company's headquarters**

2242 If a pharmaceutical company decides to centralise the electronic reporting of ICSRs (e.g. by reporting
2243 through the company's global or EU headquarter), the following should be taken into account:

- 2244 • the central reporting arrangement should be clearly specified in the marketing authorisation
2245 holder's pharmacovigilance system master file and in the internal standard operating procedures;
- 2246 • the company's headquarter designated for reporting the ICSRs should be registered with
2247 EudraVigilance~~+~~.

2248 ~~the~~The same principles may be applied for reporting ICSRs from the competent authorities in Member
2249 States to the marketing authorisation holders during the interim arrangements period, that is the
2250 competent authorities in Member States report electronically to the company's headquarter instead of
2251 to the local affiliates.

2252 **VI.C.6.3. Electronic submission of information on medicinal products**

2253 To support the objectives of Directive 2001/83/EC and Regulation (EC) No 726/2004, the provisions
2254 provided in second sub-paragraph of Article 57(2) of Regulation (EC) No 726/2004, regarding the
2255 electronic submission and update of information on medicinal products for human use authorised or
2256 registered in the EU, shall be followed by marketing authorisation holders. In this aspect marketing
2257 authorisation holders shall apply the internationally agreed formats and terminologies described in
2258 chapter IV of the Commission Implementing Regulation (EU) No 520/2012. Recommendations related
2259 to the electronic submission of information on medicines are provided on the Agency's website⁶⁴.

⁶⁴ See EMA documents for electronic submission of information on medicines:
http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document_listing/document_listing_000336.jsp&murl=menus/regulations/regulations.jsp&mid=WCOb01ac0580410138&jsenabled=true

Table VI.2. Process description - Follow-up of ICSRs by marketing authorisation holders

No	Step	Description	Responsible Organisation
	Start	Receipt of a report of a suspected adverse reaction related to a medicine (ADR report)	
1	Receive report of suspected drug adverse reaction(s) from primary source	Day 0. Receipt of the information	MAH
2	Is the report valid?	Is the report received from the primary source a valid ICSR in accordance with VI.B.2? If Yes, go to step 3. If No, go to step 10.	MAH
3	The report received is valid	The report received from the primary source is a valid ICSR in accordance with chapter VI.B.2	
3.1	Record the report	Record the valid ADR report received from the primary source in the pharmacovigilance database	MAH
3.2	Report ICSR to EudraVigilance (EV)	Report the valid ICSR to EudraVigilance in accordance with the principles set out in chapter VI.C.6.2 NOTE: the MAH can organise the reporting of the initial report and the follow-up report in accordance with the reporting timelines set out in the pharmacovigilance legislation i.e. if time permits and follow-up information can be obtained and processed within the initial reporting timeframes, the MAH is not required to report the initial and the follow-up report separately	MAH
3.3	Is follow-up required for the valid ICSR?	If Yes, go to step 4 If No, go to step 9	MAH
4	Follow-up required for valid ICSR		
4.1	Request information from primary source	Contact the primary source to obtain additional information pertinent to the valid case in accordance with the principles set out	MAH

No	Step	Description	Responsible Organisation
		in chapters VI.B.3 and VI.C.6.2.2.7 Note: MAHs should define in their SOPs how many attempts to obtain follow-up information are made	
4.2	Has new information on the case be obtained from the primary source?	If Yes, go to point 5. If No, go to point 8.	MAH
5	Additional information has been obtained		MAH
5.1	Record outcome of follow-up	Record the outcome of the follow-up and record information obtained in the pharmacovigilance database	MAH
5.2	Is new information significant and reportable?	Determine if information obtained is significant enough to be submitted in accordance with VI.C.6.2.2.7. If Yes, go to point 6. If No, go to point 7.	MAH
6	New information is significant and reportable		
6.1	Report ICSR to EudraVigilance	Report the ICSR with the follow-up information to EudraVigilance in accordance with VI.C.6.	MAH
7	New information is not significant and not reportable	The new information is not significant enough to be sent in accordance with VI.C.6.2.2.7.	
7.1	End		MAH
8	No information has been obtained	The follow-up with the primary source is unsuccessful and no additional information on the case can be obtained	
8.1	Record the outcome of follow-up	Record the fact that no further information has been obtained from the primary source in the pharmacovigilance database	MAH
8.2	End		
9	Follow-up is not required for valid ICSR	ICSR is valid. Follow-up is not performed	MAH
9.1	End		
10	The report received from the primary source is NOT a valid ICSR	The report received is not a valid report in accordance with VI.B.2.	

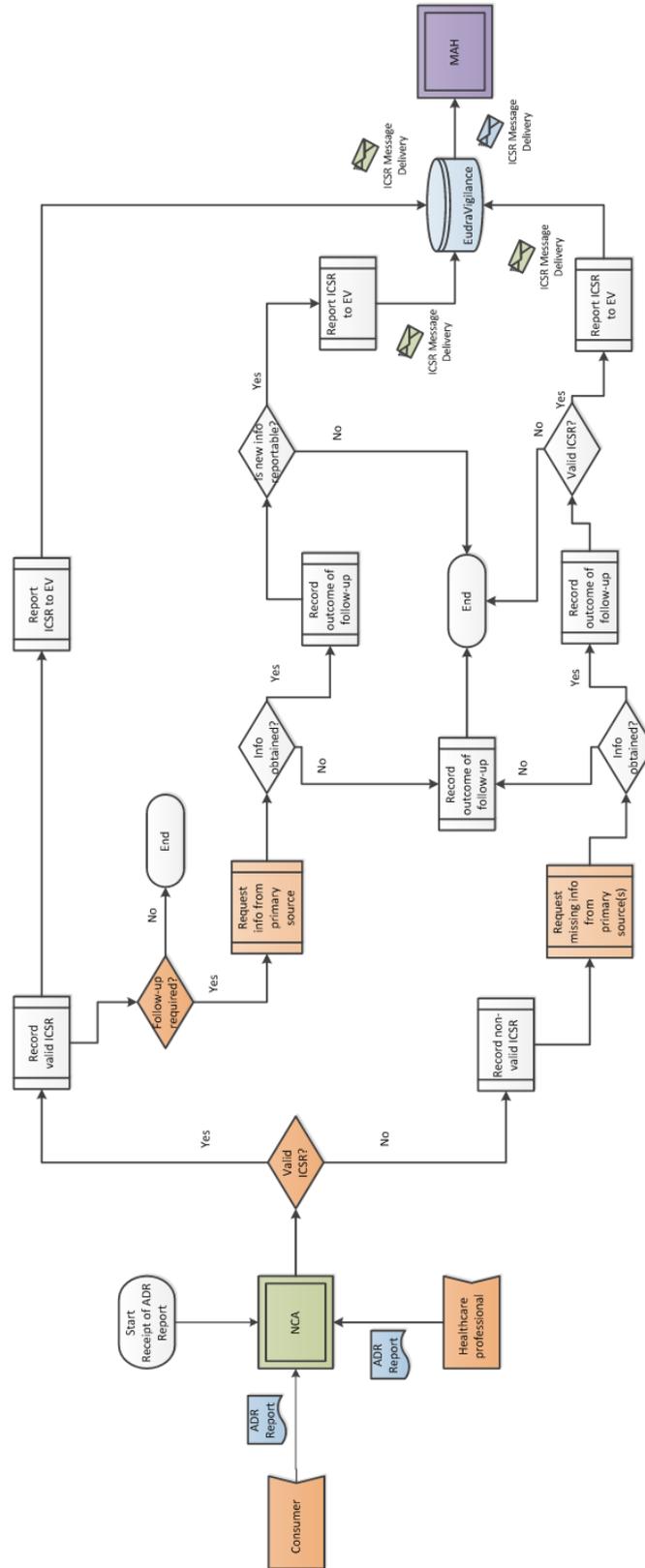
No	Step	Description	Responsible Organisation
10.1	Record non-valid ICSR	Record the non-valid ICSR in pharmacovigilance database	MAH
10.2	Request missing info from primary source	Request missing information for non-valid ICSR from the primary source through follow-up in line with VI.B.3. and VI.C.6.2.2.7.	MAH
10.3	Missing info has been obtained?	Has missing information been obtained for non-valid ICSR? If Yes, go to 11. If No, go to 14.	MAH
11	Missing information has been obtained for non-valid ICSR		MAH
11.1	Record the outcome of follow-up with primary source	Record the outcome of the follow-up of missing information in the pharmacovigilance database	MAH
11.2	Is the ICSR valid?	Is the report now valid taking into account the follow-up information obtained from the primary source? If Yes, go to 12. If No, go to 13.	MAH
12	ICSR is valid		
12.1	Report ICSR to EudraVigilance	Report the valid ICSR to EudraVigilance in line with the principles set out in VI.C.6.	MAH
13	ICSR is not valid		MAH
13.1	End		
14	Missing information has not been obtained for non-valid ICSR	No further information is obtained from the primary source in the pharmacovigilance database	
14.1	Record the outcome of the follow-up	Record the fact that no further information has been obtained from the primary source in the pharmacovigilance database	MAH
14.2	End		

2267
2268

VI.App.1.2 Follow-up of ICSRs by competent authorities in Member States involving consumers or healthcare professionals

2269
2270

Figure VI.3. Business process map - Follow-up of ICSRs by competent authorities in Member States involving consumers or healthcare professionals



2271
2272

Table VI.3. Process description - Follow-up of ICSRs by competent authorities in Member States involving consumers or healthcare professionals

No	Step	Description	Responsible Organisation
	Start	Receipt of a report of a suspected adverse reaction related to a medicine (ADR report)	
1	Receive report of suspected drug adverse reaction(s) from primary source	Day 0. Receipt of the information	NCA
2	Is the report valid?	Is the report received from the primary source a valid ICSR in accordance with chapter VI.B.2? If Yes, go to step 3. If No, go to step 10.	NCA
3	The report received is valid	The report received from the primary source is a valid ICSR in accordance with chapter VI.B.2	
3.1	Record the report	Record the valid ADR report received from the primary source in the pharmacovigilance database	NCA
3.2	Report ICSR to EudraVigilance (EV)	Report the valid ICSR to EudraVigilance in accordance with the principles set out in VI.C.6.2. NOTE: the NCA can organise the reporting of the initial report and the follow-up report in accordance with the reporting timelines set out in the pharmacovigilance legislation i.e. if time permits and follow-up information can be obtained and processed within the initial reporting timeframes, the MAH is not required to report the initial and the follow-up report separately	NCA
3.3	Is follow-up required for the valid ICSR?	If Yes, go to step 4 If No, go to step 9	NCA
4	Follow-up required for valid ICSR		
4.1	Request information from primary source	Contact the primary source to obtain additional information pertinent to the valid	NCA

No	Step	Description	Responsible Organisation
		<p>case in accordance with the principles set out in VI.B.3. and VI.C.6.2.2.7.</p> <p>Note: NCAs should define in their SOPs how many attempts to obtain follow-up information are made</p>	
4.2	Has new information on the case be obtained from the primary source?	<p>If Yes, go to point 5.</p> <p>If No, go to point 8.</p>	NCA
5	Additional information has been obtained		NCA
5.1	Record outcome of follow-up	Record the outcome of the follow-up and record information obtained in the pharmacovigilance database	NCA
5.2	Is new information significant and reportable?	<p>Determine if information obtained is significant enough to be reportable in accordance with VI.C.6.2.2.7.</p> <p>If Yes, go to point 6.</p> <p>If No, go to point 7.</p>	NCA
6	New information is significant and reportable		NCA
6.1	Report ICSR to EudraVigilance	Report the ICSR with the follow-up information to EudraVigilance in accordance with VI.C.6.	NCA
7	New information is not significant and not reportable	The new information is not reportable in accordance with VI.B.3. and VI.C.6.2.2.7.	
7.1	End		NCA
8	No information has been obtained	The follow-up with the primary source is unsuccessful and no additional information on the case can be obtained	
8.1	Record the outcome of follow-up	Record the fact that no further information has been obtained from the primary source in the pharmacovigilance database	NCA
8.2	End		
9	Follow-up is not required for valid ICSR	ICSR is valid. Follow-up is not performed	NCA
9.1	End		
10	The report received from the primary source is NOT	The report received is not a valid report in	

No	Step	Description	Responsible Organisation
	a valid ICSR	accordance with VI.B.2.	
10.1	Record non-valid ICSR	Record the non-valid ICSR in pharmacovigilance database	NCA
10.2.	Request missing info from primary source	Request missing information for non-valid ICSR from the primary source through follow-up in line with VI.B.3. and VI.C.6.2.2.7.	NCA
10.3	Missing info has been obtained?	Has missing information been obtained for non-valid ICSR? If Yes, go to 11. If No, go to 14.	NCA
11	Missing information has been obtained for non-valid ICSR		NCA
11.1	Record the outcome of follow-up with primary source	Record the outcome of the follow-up of missing information in the pharmacovigilance database	NCA
11.2	Is the ICSR valid?	Is the report now valid taking into account the follow-up information obtained from the primary source? If Yes, go to 12. If No, go to 13.	NCA
12	ICSR is valid		NCA
12.1	Report ICSR to EudraVigilance	Report the valid ICSR to EudraVigilance in line with the principles set out in VI.C.6	NCA
13	ICSR is not valid		MAH
13.1	End		NCA
14	Missing information has not been obtained for non-valid ICSR	No further information is obtained from the primary source in the pharmacovigilance database	NCA
14.1	Record the outcome of the follow-up	Record the fact that no further information has been obtained from the primary source in the pharmacovigilance database	NCA
14.2	End		NCA

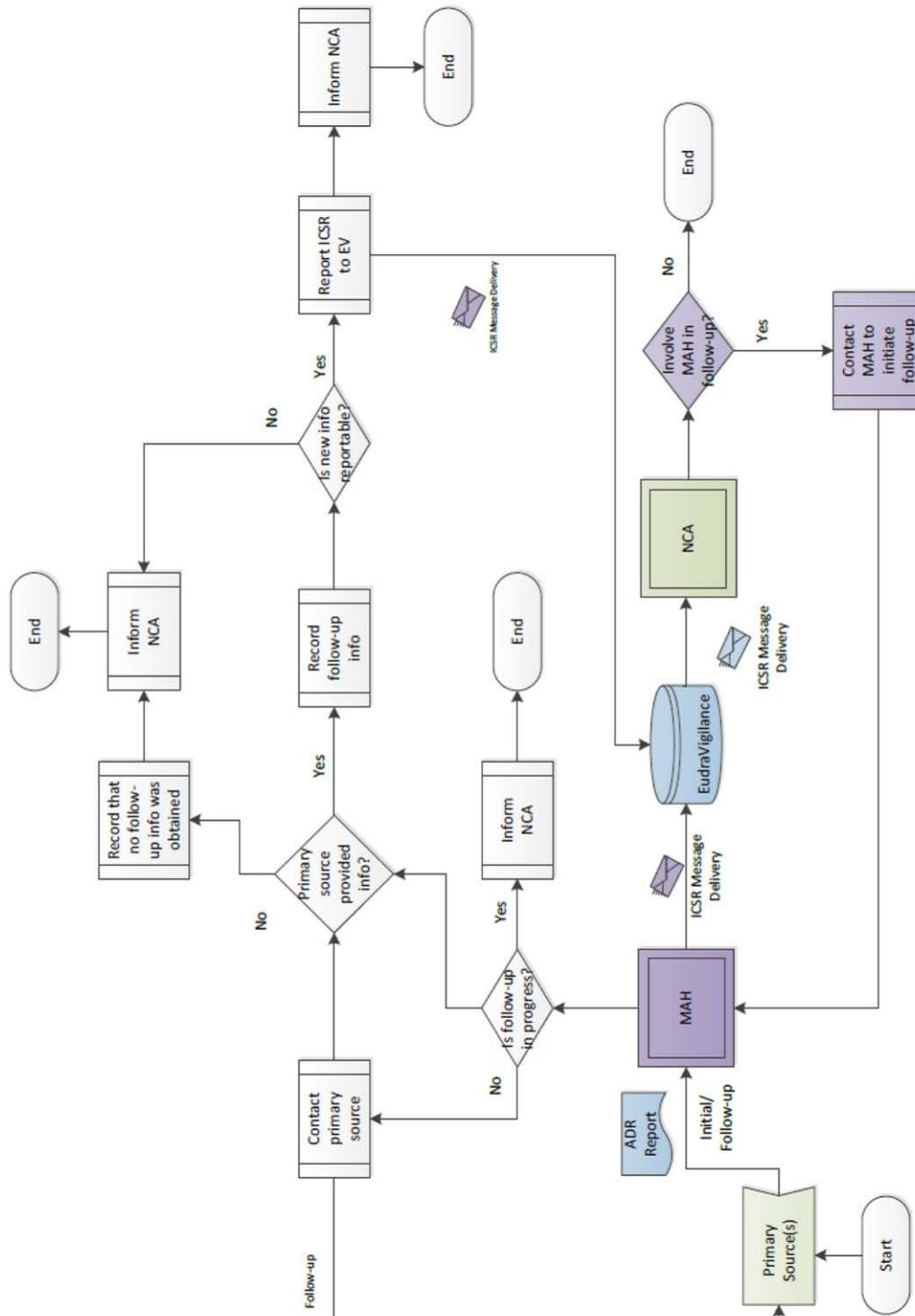
2275

2276
2277

VI.App.1.3 Follow-up of ICSRs by competent authorities in Member States with involvement of marketing authorisation holders

2278
2279

Figure VI.4. Business process map - Follow-up of ICSRs by competent authorities in Member States with involvement of marketing authorisation holders



2280

Table VI.4. Process description - Follow-up of ICSRs by competent authorities in Member States with involvement of marketing authorisation holders

No	Step	Description	Responsible Organisation
	Start	Receipt of a report of a suspected adverse reaction related to a medicine (ISCR)	
1	Receive report of suspected drug adverse reaction(s) from primary source	Day 0. Receipt of the information	MAH
2	Report ICSR to EudraVigilance	Report the valid ICSR to EudraVigilance in line with the principles set out in VI.C.6	MAH
3	Re-route ICSR to NCA	MAH ICSR is rerouted from EudraVigilance to the NCA of the country of the primary source for regulatory purposes	Agency
4	Is follow-up required with involvement of MAH?	If Yes, go to point 5. If No, go to point 12.	NCA
5	Follow-up is required		
5.1	Contact MAH to request follow-up information	Send email to QPPV or local contact person to request follow-up information Indicate reference to individual case(s) using World Wide Unique Case Identifier(s) for cases that require follow-up Indicate criterion/criteria for request to involve MAH in follow-up Indicate timeframe by when follow-up is to be provided	NCA
5.2	Is follow-up already in progress?	If Yes, progress to point 6. If No progress to point 7.	MAH
6	Follow-up is already in progress	Follow-up has already been initiated by the MAH	MAH
6.1	Inform NCA that follow-up is in progress	Inform NCA via e-mail that follow-up is already in progress using functional mailbox MAH.followup@ema.europa.eu Provide reference to individual case(s) using World Wide Unique Case Identifier Indicate timeline by when follow-up info	MAH

No	Step	Description	Responsible Organisation
		has been requested	
6.2	End		
7	Follow-up has not been initiated		MAH
7.1	Contact primary source	Contact primary source to obtain follow-up information as per request of NCA Note: When contacting the primary source(s), MAH is allowed to indicate that the follow-up is performed upon request of a NCA	MAH
7.2	Did primary source provide requested info?	If Yes, proceed to point 9 If No, proceed to point 8	
8	Primary source did not provide follow-up information		MAH
8.1	Record that no follow-up info was obtained	Record that primary source did not provide follow-up information	MAH
8.2	Inform NCA	Inform NCA via e-mail that it was not possible to obtain follow-up information from primary source using functional mailbox MAH.followup@ema.europa.eu Provide reference to individual cases using World Wide Unique Case Identifier	MAH
8.3	End		
9	Primary source did provide follow-up information		
9.1	Record follow-up information	Record follow-up information in pharmacovigilance database	MAH
9.2	Is new information significant and reportable?	Determine if follow-up information is significant enough to be reportable in accordance with principles set out in VI.C.6.2.2.7 If Yes, proceed to point 10. If No, proceed to point 11.	
10	Follow-up info is significant and reportable		

No	Step	Description	Responsible Organisation
10.1	Send follow-up ICSR to EudraVigilance	Send follow-up ICSR to EudraVigilance in accordance with principles set out in VI.C.6	MAH
10.2	Inform NCA that follow-up info was received	Inform NCA via e-mail that follow-up information from primary source was received using functional mailbox MAH.followup@ema.europa.eu Indicate reference to individual cases using World Wide Unique Case Identifier	MAH
10.3	End		
11	Follow-up information is not significant and not reportable		
11.1	Inform NCA	Inform NCA that no significant new information has been obtained in accordance with VI.C.6.2.2.7.	MAH
11.2	End		
12	MAH does NOT need to be involved in follow-up	There is no need to involve the MAH in the follow-up process	NCA
12.1	End		

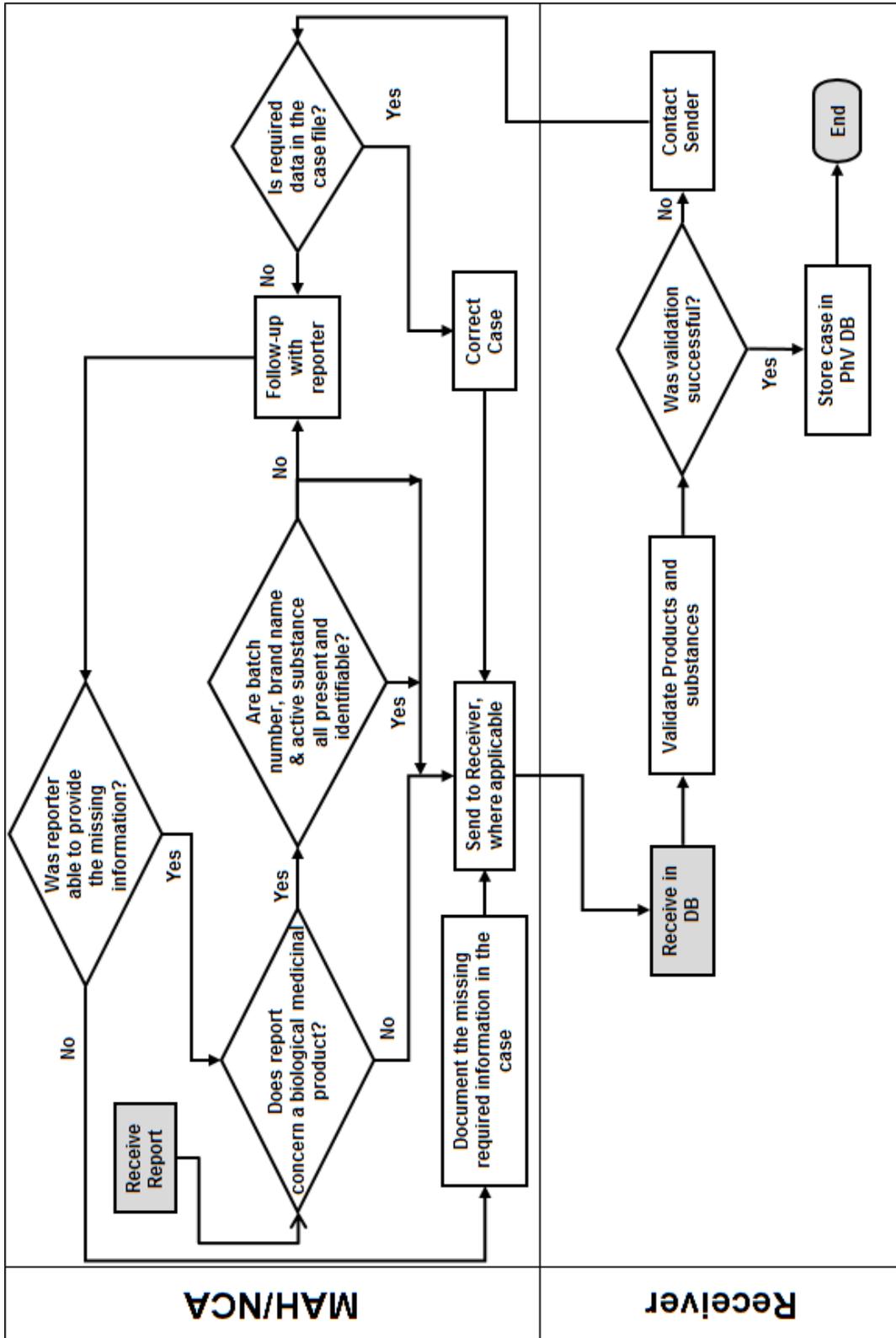
2283

2284

2285
2286
2287
2288
2289

VI.App.1.4 Follow-up of ICSRs for identification of biological medicinal products

Figure VI.2: Figure VI.5. Business process map - Identification of biological medicinal products⁶⁵



⁶⁵ Mandatory when they are the subject of reports of suspected adverse reactions [DIR Art 102(e) and IR Art 28 (3)].

Table VI.2-Table VI.5. Process description - Identification of biological medicinal products

No.	Step	Description	Responsible Organisation
1	Start. Receive report.	Day 0. Receipt of the information for the case that indicates that one of the suspect drugs is of biological origin.	MAH/NCA
2	Does report concern a biological medicinal product?	If Yes, go to step 3 If No, go to step 4	
3	Are batch number, brand name & active substance all present and identifiable?	If Yes, create the case and send it to the correct receiver (step 34). If there is more than one batch number, structure the batch number that coincided with the adverse reaction in the Drug section (ICH-E2B(R2) B.4) and enter the other batch numbers in the case narrative. <ul style="list-style-type: none"> • ICH-E2B(R2) in the Drug section B.4, data element B.4.k.3 "Batch/lot number" and enter the other batch numbers in the case narrative. • ICH-E2B(R3) in the Drug section G.k, and repeat the data element G.k.4.r.7 "Batch/Lot Number" as necessary. If No, create the case and send it to the correct receiver (step 34) and follow-up with the reporter (step 3.1).	MAH/NCA
3.1	Follow-up with reporter.	Follow-up with the reporter to attempt to identify the missing information.	MAH/NCA
3.2	Was reporter able to provide the missing information?	If Yes, return to step 1 – the information should be treated as follow-up and a new version created & transmitted. If No, document this (step 3.3).	MAH/NCA
3.3	Document the required missing information in the case.	Document in the case that the missing required information has been sought but the reporter was not able or willing to provide it.	MAH/NCA
4	Send to receiver, where applicable.	If the case requires transmission to a receiver, transmit the case electronically, in ICH-E2B(R2) format within the relevant timelines (15 or 90 days), to the relevant receiver.	MAH/NCA
5	Receive in PharmacoVigilance DataBase (PhV DB).	Receive the case electronically and load it into the PharmacoVigilance DataBase.	Receiver
6	Validate products and	Validate the products and substances to	Receiver

No.	Step	Description	Responsible Organisation
	substances	ensure that the brand name, active substance & batch number are all present and identifiable. This validation should be complementary to the usual business rules validations.	
7	Was validation successful?	If Yes, store the case in the Pharmacovigilance DataBase (step 8). If No, contact the sender (Step 7.1).	Receiver
7.1	Contact sender.	Contact the sender regarding the missing or not identifiable information.	Receiver
7.2	Is required data in the case file?	Upon receipt of communication from the receiver, check in the case file to see if the missing or unidentifiable information is already on file. If it is on file, correct the case (step 7.3). If the information is not on file, contact the reporter to request the missing information (step 3.1).	MAH/NCA
7.3	Correct case.	Correct the case to include the missing information & send updated version to receiver (step 4).	MAH/NCA
8	Store case in Pharmacovigilance DataBase (PhV DB).	The case should now be stored in the pharmacovigilance database.	Receiver
9	End.	The case is now available for signal detection and data quality analyses.	

2291

2292 VI. Appendix 2 Detailed guidance on the monitoring of 2293 scientific literature

2294 **VI.App2App.2.1: When to start and stop searching in the scientific 2295 literature**

2296 EU specific requirements, as regards the monitoring of scientific and medical literature are provided in
2297 [VI.C.2.2.3.](#)

2298 In addition to the reporting of serious and non-serious ICSRs or their presentation in periodic safety
2299 update reports, the marketing authorisation holder has an obligation to review the worldwide
2300 experience with medicinal product in the period between the submission of the marketing authorisation
2301 application and the granting of the marketing authorisation. The worldwide experience includes
2302 published scientific and medical literature. For the period between submission and granting of a
2303 marketing authorisation, literature searching should be conducted to identify published articles that
2304 provide information that could impact on the risk-benefit assessment of the product under evaluation.
2305 For the purpose of the preparation of periodic safety update reports (see **GVP Module VII**) and the
2306 notification of emerging safety issues (see [VI.C.2.2.6.](#)), the requirement for literature searching is not
2307 dependent on a product being marketed. Literature searches should be conducted for all products with
2308 a marketing authorisation, irrespective of commercial status. It would therefore be expected that
2309 literature searching would start on submission of a marketing authorisation application and continue
2310 while the authorisation is active.

2311 **VI.App2App.2.2 Where to look**

2312 Articles relevant to the safety of medicinal products are usually published in well-recognised scientific
2313 and medical journals; however, new and important information may be first presented at international
2314 symposia or in local journals. Although the most well-known databases (e.g. Medline) cover the
2315 majority of scientific and medical journals, the most relevant publications may be collated elsewhere in
2316 very specialised medical fields, for certain types of product (e.g. herbal medicinal products) or where
2317 safety concerns are subject to non-clinical research. A marketing authorisation holder should establish
2318 the most relevant source of published literature for each product.

2319 Medline, Embase and Excerpta Medica are often used for the purpose of identifying ICSRs. These
2320 databases have broad medical subject coverage. Other recognised appropriate systems may be used.
2321 The database providers can advise on the sources of records, the currency of the data, and the nature
2322 of database inclusions. It is best practice to have selected one or more databases appropriate to a
2323 specific product. For example, in risk-benefit assessment, safety issues arising during non-clinical
2324 safety studies may necessitate regular review of a database that has a less clinical focus and includes
2325 more laboratory-based publications.

2326 Relevant published abstracts from meetings and draft manuscripts should be reviewed for reportable
2327 ICSRs and for inclusion in periodic safety update reports. Although it is not a requirement for
2328 marketing authorisation holders to attend all such meetings, if there are company personnel at such a
2329 meeting, or it is sponsored by a marketing authorisation holder, it is expected that articles of relevance
2330 would be available to the marketing authorisation holder's pharmacovigilance system. In addition,
2331 literature that is produced or sponsored by a marketing authorisation holder should be reviewed, so
2332 that any reportable ICSRs can be **reportedsubmitted** as required in advance of publication.

2333 If ICSRs are brought to the attention of a marketing authorisation holder from this source, they should
2334 be processed in the same way as ICSRs found on searching a database or reviewing a journal.

2335 Abstracts from major scientific meetings are indexed and available in some databases, but posters and
2336 communications are rarely available from this source.

2337 ~~VI.App2.3~~-Guidance in **VI.C.2.2.3** should be followed for the searches of databases with broad medical
2338 coverage by the Agency in accordance with Article 27 of Regulation (EC) 726/2004 and the reporting
2339 obligations of marketing authorisation holders in accordance with Article 107 (3) of Directive
2340 2001/83/EC.

2341 **VI.App.2.3 Database Searches**

2342 A search is more than a collection of terms used to interrogate a database. Decisions about the
2343 database selection, approach to records retrieval, term or text selection and the application of limits
2344 need to be relevant to the purpose of the search. For searches in pharmacovigilance, some of the
2345 considerations for database searching are described below.

2346 **VI.App.2.3.1- Precision and recall**

2347 Medical and scientific databases are a collection of records relating to a set of publications. For any
2348 given record, each database has a structure that facilitates the organisation of records and searching
2349 by various means, from simple text to complex indexing terms with associated subheadings. Search
2350 terms (text or indexed) can be linked using Boolean operators and proximity codes to combine
2351 concepts, increasing or decreasing the specificity of a search. In addition, limits to the output can be
2352 set. When searching, the application of search terms means that the output is less than the entire
2353 database of the records held. The success of a search can be measured according to precision and
2354 recall (also called sensitivity). Recall is the proportion of records retrieved ("hits") when considering
2355 the total number of relevant records that are present in the database. Precision is the proportion of
2356 "hits" that are relevant when considering the number of records that were retrieved. In general, the
2357 higher recall searches would result in low precision.

2358 **VI.App.2.3.2- Search construction**

2359 Databases vary in structure, lag time in indexing and indexing policy for new terms. While some
2360 database providers give information about the history of a particular indexing term or the application
2361 of synonyms, other databases are less sophisticated. In addition, author abstracts are not always
2362 consistent in the choice of words relating to pharmacovigilance concepts or medicinal products/active
2363 substances names.

2364 When constructing a search for pharmacovigilance, the highest recall for a search would be to enter
2365 the medicinal product name and active substance name (in all their variants) only. In practice,
2366 additional indexing terms and text are added to increase precision and to reduce the search result to
2367 return records that are of relevance to pharmacovigilance. There is a balance to be achieved. It is
2368 therefore, expected that complicated searches are accompanied by initial testing to check that relevant
2369 records are not omitted, however, there is no defined acceptable loss of recall when searching for
2370 pharmacovigilance purposes. Term selection should be relevant to the database used and the subject
2371 of the search.

2372 **VI.App.2.3.3- Selection of product terms**

2373 Searches should be performed to find records for active substances and not for brand names only. This
2374 can also include excipients or adjuvants that may have a pharmacological effect. When choosing
2375 search terms for medicinal products, there are a number of considerations.

- 2376 • Is the active substance an indexed term?
- 2377 • What spellings might be used by authors (particularly if the active substance is not indexed)?
- 2378 • What alternative names might apply (numbers or codes used for products newly developed,
2379 chemical names, brand names, active metabolites)?
- 2380 • Is it medically relevant to search only for a particular salt or specific compound for an active
2381 substance?

2382 During searches for ICSRs, it may be possible to construct a search that excludes records for
2383 pharmaceutical forms or routes of administration different to that of the subject product, however,
2384 restrictions should allow for the inclusion of articles where this is not specified. Search construction
2385 should also allow for the retrieval of overdose, medication error, abuse, misuse, off-label use or
2386 occupational exposure information, which could be poorly indexed. Searches should also not routinely
2387 exclude records of unbranded products or records for other company brands.

2388 **VI.App2App.2.3.4: Selection of search terms**

2389 As described previously, there is no acceptable loss of recall when searching published literature for
2390 pharmacovigilance. The use of search terms (free text or use of indexing) to construct more precise
2391 searches may assist in managing the output. Deficiencies that have been found frequently during
2392 Competent Authority inspections include:

- 2393 • the omission of outcome terms, for example "death" as an outcome may be the only indexed term
2394 in a case of sudden death;
- 2395 • the omission of pregnancy terms to find adverse outcomes in pregnancy for ICSR reporting;
- 2396 • the omission of terms to include special types of reports which needs to be addressed as well in
2397 periodic safety update reports, for example,
- 2398 – Reports of asymptomatic overdose, medication error, off-label use, misuse, abuse,
2399 occupational exposure;
- 2400 – Reports of uneventful pregnancy.

2401 **VI.App2App.2.3.5: Limits to a search**

2402 Some databases apply indexing that allows the application of limits to a search, for example by subject
2403 age, sex, publication type. The limits applied to a search are not always shown in the "search strategy"
2404 or search string.

2405 If limits are applied, they should be relevant to the purpose of the search. When searching a worldwide
2406 scientific and medical literature database, titles and abstracts are usually in English language. The use
2407 of limits that reduce the search result to only those published in the English language is generally not
2408 acceptable. Limits applied to patient types, or other aspects of an article, for example human, would
2409 need to be justified in the context of the purpose of a search.

2410 Limits can be applied to produce results for date ranges, for example, weekly searches can be obtained
2411 by specifying the start and end date for the records to be retrieved. Care should be taken to ensure
2412 that the search is inclusive for an entire time period, for example, records that may have been added
2413 later in the day for the day of the search should be covered in the next search period. The search
2414 should also retrieve all records added in that period, and not just those initially entered or published

2415 during the specified period (so that records that have been updated or retrospectively added are
2416 retrieved). This should be checked with the database provider if it is not clear.

2417 Although one of the purposes of searching is to identify ICSRs for reporting, the use of publication type
2418 limits is not robust. ICSRs may be presented within review or study publications, and such records may
2419 not be indexed as "case-reports", resulting in their omission for preparation of periodic safety update
2420 reports from search results limited by publication type.

2421 ***VI.App2App.2.4: Record keeping***

2422 Records of literature searches should be maintained in accordance with the requirements described in
2423 [IR Art 12]. Marketing authorisation holders should demonstrate due diligence in searching published
2424 scientific and medical literature. It is always good practice to retain a record of the search construction,
2425 the database used and the date the search was run. In addition, it may be useful to retain results of
2426 the search for an appropriate period of time, particularly in the event of zero results. If decision
2427 making is documented on the results, it is particularly important to retain this information.

2428 ***VI.App2App.2.5: Outputs***

2429 Databases can show search results in different ways, for example, titles only or title and abstract with
2430 or without indexing terms. Some publications are of obvious relevance at first glance, whereas others
2431 may be more difficult to identify. Consistent with the requirement to provide the full citation for an
2432 article and to identify relevant publications, the title, citation and abstract (if available) should always
2433 be retrieved and reviewed.

2434 ***VI.App2App.2.6: Review and selection of articles***

2435 It is recognised that literature search results are a surrogate for the actual article. Therefore, it is
2436 expected that the person reviewing the results of a search is trained to identify the articles of
2437 relevance. This may be an information professional trained in pharmacovigilance or a
2438 pharmacovigilance professional with knowledge of the database used. Recorded confirmation that the
2439 search results have been reviewed will assist in demonstrating that there is a systematic approach to
2440 collecting information about suspected adverse reactions from literature sources. It is recommended
2441 that quality control checks are performed on a sample of literature reviews / selection of articles to
2442 check the primary reviewer is identifying the relevant articles.

2443 A common issue in selecting relevant articles from the results of a search is that often this process is
2444 conducted for the purposes of identification of ICSRs only. Whereas the review should also be used as
2445 the basis for collating articles for the periodic safety update report production, therefore relevant
2446 studies with no ICSRs should also be identified, as well as those reports of events that do not qualify
2447 for reporting.

2448 Outputs from searches may contain enough information to be a valid ICSR, in which case the article
2449 should be ordered. All articles for search results that are likely to be relevant to pharmacovigilance
2450 requirements should be obtained, as they may contain valid ICSRs or relevant safety information. The
2451 urgency with which this occurs should be proportionate to the content of the material reviewed and the
2452 resulting requirement for action as applicable for the marketing authorisation holder.

2453 Articles can be excluded from reporting by the marketing authorisation holder if another company's
2454 branded medicinal product is the suspected medicinal product. In the absence of a specified medicinal
2455 product source and/or invented name, ownership of the medicinal product should be assumed for

2456 articles about an active substance. Alternative reasons for the exclusion of a published article for the
2457 reporting of ICSRs are detailed in [VI.C.2.2.3](#).

2458 ***VI.App2App.2.7: Day zero***

2459 As described in [VI.B.7](#), day zero is the date on which an organisation becomes aware of a publication
2460 containing the minimum information for an ICSR to be reportable. Awareness of a publication includes
2461 any personnel of that organisation, or third parties with contractual arrangements with the
2462 organisation. It is sometimes possible to identify the date on which a record was available on a
2463 database, although with weekly literature searching, day zero for a reportable adverse reaction present
2464 in an abstract is taken to be the date on which the search was conducted. For articles that have been
2465 ordered as a result of literature search results, day zero is the date when the minimum information for
2466 an ICSR to be valid is available. Organisations should take appropriate measures to obtain articles
2467 promptly in order to confirm the validity of a case.

2468 ***VI.App2App.2.8: Duplicates***

2469 Consistent with the requirements for reporting ICSRs, literature cases should be checked to prevent
2470 ~~reporting the submission of duplicates, and previously reported cases should be identified as such when~~
2471 ~~reported~~. It is, therefore, expected that ICSRs are checked in the organisation database to identify
2472 literature articles that have already been ~~reported~~ submitted. Where applicable, this should include
2473 ICSRs resulting from the Agency's activities in accordance with Article 27 of Regulation (EC) 726/2004.

2474 ***VI.App2App.2.9: Contracting out literature search services***

2475 It is possible to use the services of another party to conduct searches of the published scientific and
2476 medical literature. In this event, the responsibility for the performance of the search and subsequent
2477 reporting still remains- ~~with the exception of the provisions set out in Article 27 of Regulation EC)~~
2478 ~~726/2004 and Article 107(3) of Directive 2001/83/EC~~. The transfer of a pharmacovigilance task or
2479 function should be detailed in a contract between the organisation and the service provider. The nature
2480 of third party arrangements for literature searching can range from access to a particular database
2481 interface only (access to a technology) to full literature searching, review and reporting (using the
2482 professional pharmacovigilance services of another organisation). It is recognised that more than one
2483 organisation may share services of a third party to conduct searches for generic active substances. In
2484 this instance, each organisation should satisfy itself that the search and service is appropriate to their
2485 needs and obligations.

2486 Where an organisation is dependent on a particular service provider for literature searching, it is
2487 expected that an assessment of the service(s) is undertaken to determine whether it meets the needs
2488 and obligations of the organisation. In any case, the arrangement should be clearly documented.

2489 The clock start for the reporting of ICSRs begins with awareness of the minimum information by either
2490 the organisation or the contractual partner (whichever is the earliest). This also applies where a third
2491 party provides a review or a collated report from the published scientific and medical literature, in
2492 order to ensure that published literature cases are ~~reported~~ submitted as required within the correct
2493 time frames. That is, day zero is the date the search was run if the minimum criteria are available in
2494 the abstract and not the date the information was supplied to the organisation.

2495 **VI.App2App.2.10: Electronic submission of copies of articles on suspected**
2496 **adverse reactions published in the scientific literature**

2497 Until standards for the electronic transmission of attachments (e.g. copies of literature articles) are
2498 developed in the framework of ICH, the sender should follow the rules outlined below for the
2499 submission of a copy of the literature article as detailed in VI.C.6.2.3.2.

2500 **1. Mailing address and format of literature articles:**

2501 Literature articles reportable to the Agency should be provided in PDF format and sent via e-mail to
2502 the following e-mail address: EVLIT@ema.europa.eu.

2503 In relation to copies of articles from the published scientific and medical literature, marketing
2504 authorisation holders are recommended to consider potential copyright issues specifically as
2505 regards the electronic transmission and handling of electronic copies in the frame of regulatory
2506 activities.

2507 **2. File name of literature articles sent in electronic format to the Agency:**

2508 The file name of a literature article sent in PDF format should match exactly the 'World-Wide
2509 Unique Case Identification Number' (ICH-E2B(R2) A.1.10.1 or A.1.10.2 as applicable) assigned to
2510 the individual case, which is described in the article and which is reported in the E2B(R2) ICSR
2511 format.

2512 If there is a follow-up article to the individual case published in the literature, the file name with
2513 the World-Wide Unique Case Identification Number must be maintained but should include a
2514 sequence number separated with a dash.

2515 **Examples:**

2516 • Initial ICSR published in the literature: FR-ORGABC-23232321 (data element 'World-Wide Unique
2517 Case Identification Number' (ICH-E2B(R2) A.1.10.1));

2518 — File name of the literature article: FR-ORGABC-23232321.pdf.

2519 • Follow-up information published in the literature in a separate article:

2520 — ICSR: FR-ORGABC-23232321 (data element World-Wide Unique Case Identification Number
2521 remains unchanged (ICH-E2B(R2) A.1.10.1));

2522 — File name: FR-ORGABC-23232321-1.pdf.

2523 **3. Reporting of cases reported in the scientific and medical literature referring to more than one**
2524 **patient:**

2525 When the literature article refers to the description of more than one patient, the copy of the
2526 literature article should be sent only once.

2527 The file name of a literature article sent in PDF format should match exactly the 'World-Wide
2528 Unique Case Identification Number' (data element ICH-E2B(R2) A.1.10.1 or A.1.10.2 as applicable)
2529 assigned to the first reportable individual case described in the article.

2530 In addition, all ICSRs which relate to the same literature article should be cross-referenced in the
2531 data element 'Identification number of the report which is linked to this report' (ICH-E2B(R2)
2532 A.1.12). The data element should be repeated as necessary to cross-refer all related cases (see
2533 Table VI.2).

2534 ~~Examples for the reporting of ICSRs~~In accordance with Article 28(3) of the Commission Implementing
 2535 Regulation (EU) 520/2012 and upon request of the Agency, the marketing authorisation holder that
 2536 transmitted the initial report shall provide a copy of the relevant article taking into account copyright
 2537 restrictions, and a full translation of that article into English.

2538 **Table VI.6.** In line with ICH-E2B the following applies as regards the electronic submission of a copy
 2539 of an article including a full translation where applicable: Electronic transmission of copies of literature
 2540 articles/translations on suspected adverse reactions

Reference	E2B(R2)/(R3) requirements
ICH-E2B(R2)	<p>1. Mailing address and format of literature articles:</p> <p>Literature articles reportable to the Agency should be provided in PDF format and sent via e-mail to the following e-mail address: EVLIT@ema.europa.eu.</p> <p>In relation to copies of articles from the published scientific and medical literature, marketing authorisation holders are recommended to consider potential copyright issues specifically as regards the electronic transmission and handling of electronic copies in the frame of regulatory activities.</p> <p>2. File name of literature articles sent in electronic format to the Agency:</p> <p>The file name of a literature article sent in PDF format should match exactly the data element A.1.10.1 or A.1.10.2 'World-Wide Unique Case Identification Number' assigned to the individual case, which is described in the article and which is provided in the E2B(R2) ICSR format.</p> <p>If there is a follow-up article to the individual case published in the literature, the file name with the World-Wide Unique Case Identification Number must be maintained but should include a sequence number separated with a dash.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Initial ICSR published in the literature: FR-ORGABC-23232321 data element A.1.10.1 'World-Wide Unique Case Identification Number'; <ul style="list-style-type: none"> – File name of the literature article: FR-ORGABC-23232321.pdf. • Follow-up information published in the literature in a separate article: <ul style="list-style-type: none"> – ICSR: FR-ORGABC-23232321 data element A.1.10.1 'World-Wide Unique Case Identification Number' remains unchanged; – File name: FR-ORGABC-23232321-1.pdf. <p>3. Reporting of cases described in the scientific and medical literature referring to more than one patient:</p> <p>When the literature article refers to the description of more than one patient, the copy of the literature article should be sent only once.</p> <p>The file name of a literature article sent in PDF format should match exactly data element A.1.10.1 or A.1.10.2 as applicable 'World-Wide Unique Case Identification Number' assigned to the first reportable individual case described in the article.</p> <p>In addition, all ICSRs which relate to the same literature article should be cross</p>

Reference	E2B(R2)/(R3) requirements
	referenced in data element A.1.12 'Identification number of the report which is linked to this report'. The data element should be repeated as necessary to cross refer all related cases.
ICH-E2B(R3)	<ul style="list-style-type: none"> Information on how to attach documents to an ICSR is provided in section 3.5 'Document Attachments' of the ICH-E2B(R3) Implementation Guide for Electronic Transmission of Individual Case Safety Reports (ICSRs) - Data Elements and Message Specification. When a literature article is sent as an attachment, the literature citation in Vancouver style is captured in data element C.4.r.1 'Literature Reference(s)'. The Digital Object Identifier (DOI) for the article should be included where available. The example reference below highlighted how this should be done: "International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med 1997; 336:309-15. doi: 10.1056/NEJM199701233360422." The electronic version of the document (i.e. the journal article and a copy of the translation where applicable) should be attached to the ICSR in data element C.4.r.2. 'Included Documents'. If the article and/or translation are not provided at the time of ICSR reporting, attachments can be transmitted separately from the ICSR transmission. When the sender transmits an attachment later, the original ICSR along with all the same medical information captured in E2B(R3) data elements is retransmitted as an 'amendment' (see VI.C.6.2.2.8.). If new information has been received and the data elements in E2B(R3) have been updated, then the ICSR with attachment is transmitted as a follow-up.

2541

2542 **VI.App.2.11 Examples for the reporting of suspected adverse reactions**
2543 **described in the scientific and medical literature and referring to more than**
2544 **one patient**

2545 ~~Table VI.3.~~ **Table VI.7.** Examples for the reporting of suspected adverse reactions described in the
2546 scientific and medical literature and referring to more than one patient

Ex.	Scenario	Action
+	<p>A literature article describes suspected adverse reactions that have been experienced by up to 3 single patients.</p> <p>3 ICSRs should be created and reported for each individual identifiable patient described in the literature article.</p> <p>Each ICSR should contain all the available information on the</p>	<p>For Case 1 described in the literature article:</p> <ul style="list-style-type: none"> ICH E2B(R2) A.1.10.1 'World-Wide Unique Case Identification Number': UK-ORGABC-0001 ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0002 ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0003 ICH E2B(R2) A.2.2 'Literature reference(s)':

Ex.	Scenario	Action
	<p>case:</p>	<p>Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals: N Engl J Med. 1997;336:309-15.</p> <ul style="list-style-type: none"> • File name for the copy of literature article to be sent via e-mail to EVLIT@ema.europa.eu: UK-ORGABC-0001.pdf <p>For Case 2 described in the literature article:</p> <ul style="list-style-type: none"> • ICH E2B(R2) A.1.10.1 'World Wide Unique Case Identification Number': UK-ORGABC-0002 • ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0001 • ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0003 • ICH E2B(R2) A.2.2 'Literature reference(s): Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals: N Engl J Med. 1997;336:309-15. • No copy of the literature article required since the copy was already submitted for case 1. <p>For Case 3 described in the literature article:</p> <ul style="list-style-type: none"> • ICH E2B(R2) A.1.10.1 'World Wide Unique Case Identification Number': UK-ORGABC-0003 • ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0001 • ICH E2B(R2) A.1.12 'Identification number of the report which is linked to this report': UK-ORGABC-0002 • ICH E2B(R2) A.2.2 'Literature reference(s): Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals: N Engl J Med. 1997;336:309-15. • No copy of the literature article required since the copy was already submitted for case 1.
21	<p>A literature article describes suspected adverse reactions that have been experienced by more than 3 single patients one identifiable patient.</p> <p>ICSRs should be created and reported submitted for each</p>	<p>For the ICSRs which relate to the same literature article, the cross reference in the data element ICH (E2B(R2) A.1.12/ ICH-E2B(R3) C.1.10.r 'Identification number of the report which is linked to this report' ICH (E2B(R2) field A.1.12) should be conducted as follows:</p> <ul style="list-style-type: none"> • The first case should be linked to all other cases related to the same article; (1-n); • All the other cases (n) should be only linked to the first

Ex.	Scenario	Action
	<p>individual identifiable patient described in the literature article.</p> <p>Each ICSR should contain all the available information on the case.</p> <p>The cross reference with all the linked ICSRs from this literature article should only be provided in the first case, in the data element ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report'. There is no need to repeat all the cross references in the other ICSRs.</p>	<p>one, as in the example below.</p> <p><i>Example for the reporting of cases originally reported described in the scientific and medical literature referring to a large number of patients:</i></p> <p>For Casecase 1 described in the literature article:</p> <ul style="list-style-type: none"> • data element ICH--E2B(R2) A.1.10.1/ ICH-E2B(R3) C.1.8.1 'Worldwide Unique Case Identification Number': UK-ORGABC-0001 • data element ICH-E2B(R2) A.1.12/ ICH-E2B(R3) C.1.10.r 'Identification number of the report which is linked to this report': UK-ORGABC-0002 • data element ICH-E2B(R2) A.1.12/ ICH-E2B(R3) C.1.10.r 'Identification number of the report which is linked to this report': UK-ORGABC-0003 • data element ICH-E2B(R2) A.1.12/ ICH-E2B(R3) t C.1.10.r 'Identification number of the report which is linked to this report': UK-ORGABC-0004 • data element ICH-E2B(R2) A.1.12/ICH-E2B(R3) C.1.10.r 'Identification number of the report which is linked to this report': UK-ORGABC-000N • data element ICH-E2B(R2) A.2.2/ ICH-E2B(R3) C.4.r. 'Literature reference(s)': N Engl J Med. 1997;336:309-15. File name for the copy Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals including DOI if available: e.g. "N Engl J Med 1997; 336: 309-15. doi: 10.1056/NEJM199701233360422" • Copy of literature article to be sent via e-mail to EVLIT@ema.europa.eu/translation: follow steps as outlined in Table VI.6. UK-ORGABC-0001.pdf <p>For Case 2 described in the literature article:</p> <ul style="list-style-type: none"> • data element ICH--E2B(R2) A.1.10.1/ ICH-E2B(R3) C.1.8.1 'Worldwide Unique Case Identification Number': UK-ORGABC-0002 • data element ICH-E2B(R2) A.1.12/ ICH-E2B(R3) C.1.10.r 'Identification number of the report which is linked to this report': UK-ORGABC-0001 • data element ICH-E2B(R2) A.2.2/ ICH-E2B(R3) C.4.r. 'Literature reference(s)':

Ex.	Scenario	Action
		<p>N Engl J Med. 1997;336:309-15. Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals including DOI if available: e.g. „N Engl J Med 1997; 336:309-15. doi: 10.1056/NEJM199701233360422“</p> <ul style="list-style-type: none"> • No copy of the literature article required since the copy was already submitted for case 1. <p>For Case N described in the literature article:</p> <ul style="list-style-type: none"> • data element ICH-E2B(R2) A.1.10.1/ ICH-E2B(R3) C.1.8.1 ‘Worldwide Unique Case Identification Number’: UK-ORGABC-000N • data element ICH-E2B(R2) A.1.12/ ICH-E2B(R3) C.1.10.r ‘Identification number of the report which is linked to this report’: UK-ORGABC-0001 • data element ICH-E2B(R2) A.2.2/ ICH-E2B(R3) C.4.r. ‘Literature reference(s)’: N Engl J Med. 1997;336:309-15. Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals including DOI if available: e.g. „N Engl J Med 1997; 336:309-15. doi: 10.1056/NEJM199701233360422“ • No copy of the literature article required since the copy was already submitted for case 1.

2547

2548

VI. Appendix 3 ~~Modalities for reporting~~ Reporting modalities of ICSRs in EU

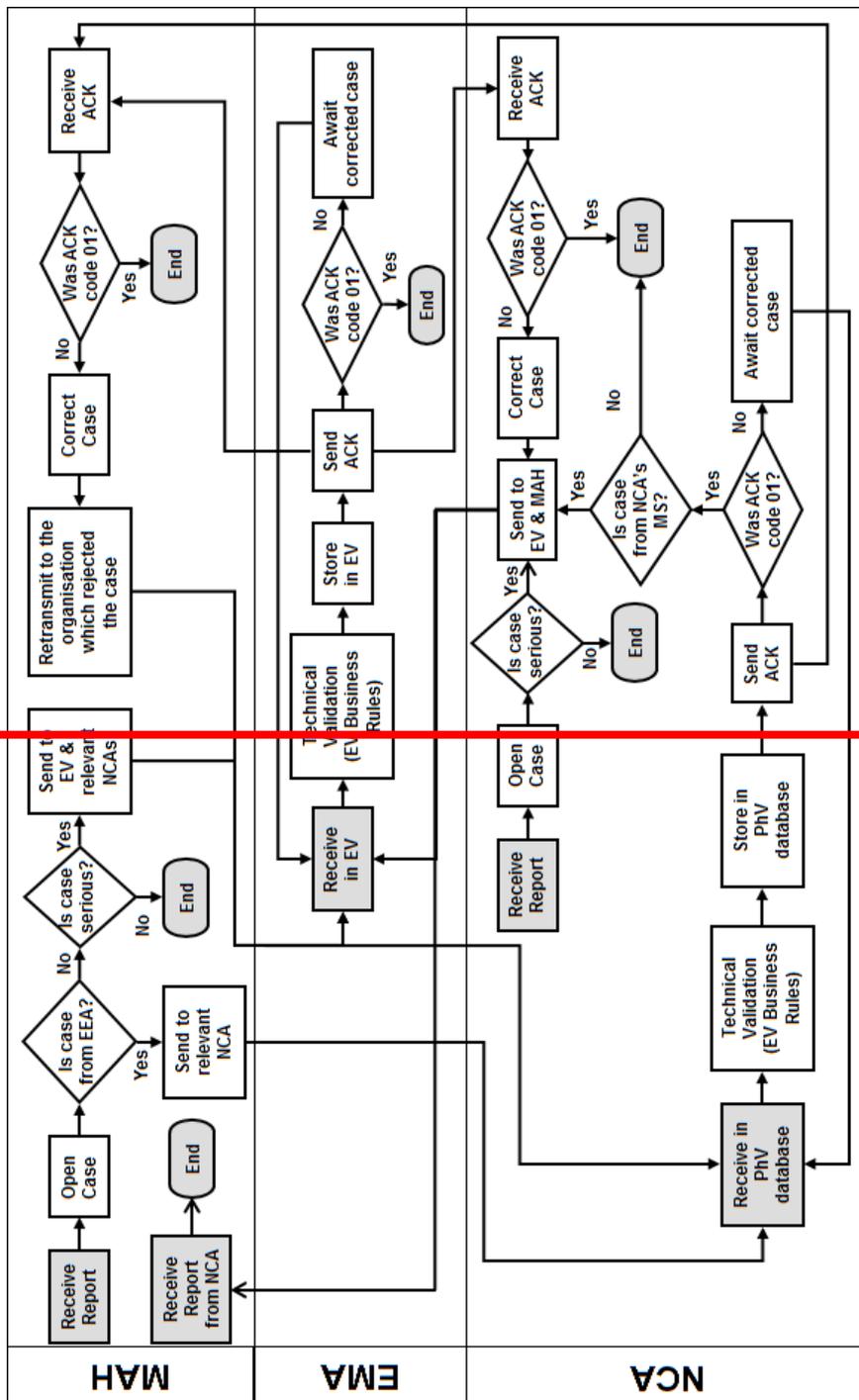
2549

2550

~~VI.App3.1. Interim arrangements~~

2551

~~Business process map – Suspected adverse reaction reporting in EU – Interim arrangements~~



2552

2553

~~Table VI.4. Table VI.8. Process description – Suspected adverse reaction reporting in EU – Interim arrangements~~

No.	Step	Description	Responsible Organisation
1	Start: Receive report:	Marketing Authorisation Holder (MAH) receives information on a suspected adverse reaction from a patient, healthcare professional or other valid reporter. If the case has been received from an EU NCA, do not retransmit it to EudraVigilance (EV).	MAH
2	Open case:	Open and create an individual case safety report.	MAH
3	Is case from EEA?	Did the adverse reactions occur in the EU? If No, go to step 3.1. If Yes, go to step 5.	MAH
3.1	Is case serious?	If No, go to step 3.2. If Yes, go to step 4.	MAH
3.2	End:	The case is now stored in the MAHs pharmacovigilance database. Normal follow-up activities should continue and if any follow-up is received, return to step 1.	MAH
4	Send to EV & relevant NCAs:	Transmit the serious case electronically, in ICH E2B(R2) format as an xml message within the 15-day time frame to EV and to the relevant NCAs, where required. The case goes to step 4.1 & step 6.	MAH
4.1	Receive in EV:	Receive the message in EV database from MAH or NCA.	EMA
4.2	Technical Validation (EV Business Rules):	Every message that is received in EV is validated against the EudraVigilance Business Rules and an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid. A valid message will have an ACK code 01. A non-valid message will have an ACK code 02 (if a case contained therein is non-valid) or 03 (if the message itself is not correctly formatted).	EMA
4.3	Store in EV:	Once the case has been validated, it is stored in EV.	EMA
4.4	Send ACK:	The acknowledgement message created in step 4.2 is transmitted to the case sender, no later than 2 business days following receipt of the case. Go to step 16 for MAHs receiving the ACK.	EMA

No-	Step	Description	Responsible Organisation
		Go to step 20 for NCAs receiving the ACK. Go to step 4.5 for the EMA's next step.	
4.5	Was ACK code 01?	If No, go to step 4.6. If Yes, go to step 4.7.	EMA
4.6	Await corrected case.	The sender should correct every case with an error ACK and retransmit within the regulatory reporting timelines. Periodically the EMA should assess all cases with an error ACK for which a corrected case has not been transmitted and contact the Qualified Person responsible for Pharmacovigilance (QPPV) to inform of these missing corrected cases. If a sender fails to correct cases, then this information should be incorporated into data quality assessments and the appropriate committees should be informed. Go back to step 4.1 upon receipt of the corrected case.	EMA
4.7	End.	The case is now stored in EV & following duplicate detection & recoding will be available for signal detection and data quality analyses.	EMA
5	Send to relevant NCA.	Transmit the case (serious, and if required non-serious) electronically, in ICH E2B(R2) format as an xml message within the relevant time frames (15 or 90 days, as applicable), to the relevant NCA for the Member State where the reaction occurred. If country of occurrence has not been specified, then country of primary source should normally be taken to be the occurrence country.	MAH
6	Receive in Pharmacovigilance DataBase (PhV-DB).	Receive the message from MAH in the NCA's PhV-DB.	NCA
7	Technical Validation (EV Business Rules).	Every message that is received in the NCA's PhV-DB should be validated against the EudraVigilance Business Rules and an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid. A valid message will have an ACK code 01. A non-valid message will have an ACK code 02 (if a case contained therein is	NCA

No-	Step	Description	Responsible Organisation
		non-valid) or 03 (if the message itself is not correctly formatted):	
8	Store in EV:	Once the case has been validated, it is stored in the NCA's PhV DB.	NCA
9	Send ACK:	The acknowledgement message created in step 7 is transmitted to the case sender no later than 2 business days following receipt of the case. Go to step 16 for MAHs receiving the ACK. Go to step 10 for the NCA's next step.	NCA
10	Was ACK code 01?	If No, go to step 10.1. If Yes, go to step 11.	NCA
10.1	Await corrected case:	The MAH should correct every case with an error ACK and retransmit it within the regulatory reporting timelines. Periodically the NCA should assess all cases with an error ACK for which a corrected case has not been transmitted and contact the QPPV to inform them of these missing corrected cases. If a sender fails to correct cases, then this information should be incorporated into any data quality assessments performed and the appropriate action can be taken. Go back to step 6 upon receipt of the corrected case.	NCA
11	Was case from NCA's MS?	Did the case occur in the territory of the receiving NCA? If No, go to step 11.1. If Yes, go to step 12.	NCA
11.1	End:	The case is now stored in the NCA's Pharmacovigilance DataBase & following duplicate detection & recoding will be available for signal detection and data quality analyses.	NCA
12	Send to EV & MAH:	Transmit the serious case electronically, in ICH E2B(R2) format as an xml message within the 15-day time frame to EV and to the relevant MAH(s). Go to step 4.1 for reception of the case in EV Go to step 24 for reception of the case by the relevant MAH(s)	NCA
13	Start: Receive report:	NCA receives information on a suspected adverse reaction from a patient, healthcare professional or	NCA

No.	Step	Description	Responsible Organisation
		other valid reporter concerning a suspected adverse reaction occurring in the territory of the receiving competent authority.	
14	Open case:	Open and create an individual case safety report.	NCA
15	Is case serious?	If No, go to step 15.1 If Yes, go to step 12	NCA
15.1	End	The case is now stored in the NCA's Pharmacovigilance DataBase & following duplicate detection & recoding will be available for signal detection and data quality analyses.	NCA
16	Receive ACK:	Receive the ACK message, associate it with the relevant case(s) and check to ensure that the case was considered valid.	MAH
17	Was ACK code 01?	If yes, go to step 17.1. If no, then the regulatory timeline clock has not stopped and the case should be corrected and re-transmitted to EV within the relevant regulatory reporting timelines. Day 0 remains as the day that the first information was received. A 02 or 03 ACK does not constitute new information. Go to step 18 (Correct case).	MAH
17.1	End:	End the process of transmitting this version of the case to EV or NCA. Normal follow-up activities should continue and if any follow-up is received, return to step 1.	MAH
18	Correct case:	Correct the case to remove the errors identified in the ACK.	MAH
19	Retransmit to the organisation which rejected the case:	Retransmit the corrected case to the organisation which rejected the case with ACK code 02 or 03. Go to step 4.1 &/or step 6 as appropriate.	MAH
20	Receive ACK:	Receive the ACK message, associate it with the relevant case(s) and check to ensure that the case was considered valid.	NCA
21	Was ACK code 01?	If yes, go to step 23. If no, then the regulatory timeline clock has not stopped and the case should be corrected and re-transmitted to EV within	NCA

No.	Step	Description	Responsible Organisation
		the relevant regulatory reporting timelines. Day 0 remains as the day that the first information was received. A 02 or 03 ACK does not constitute new information. Go to step 22 (Correct case).	
22	Correct case:	Correct the case to remove the errors identified in the ACK and retransmit the case to EV and to the relevant MAH(s) (go back to step 12).	NCA
23	End:	End the process of transmitting this version of the case to EV and to the relevant MAH(s). Normal follow-up activities should continue and if any follow-up is received, return to step 6 or 13.	NCA
24	Receive report from NCA	MAH receives information on a suspected adverse reaction from an NCA. This case should not be retransmitted to EV and to the NCA which transmitted it to the MAH	MAH
25	End	The case is now stored in the MAH's Pharmacovigilance DataBase & following duplicate detection & recoding will be available for signal detection and data quality analyses.	MAH

2556

2557 ~~VI.App3.1.1. Interim arrangements applicable to marketing authorisation~~
2558 ~~holders~~

2559 ~~Reporting requirements of individual case safety reports applicable to marketing authorisation holders~~
2560 ~~during the interim period are detailed in the latest version of Doc. EMA/321386/2012 available on EMA~~
2561 ~~website.~~

2562
2563

VI.App3.1.2. Interim arrangements applicable to competent authorities in Member States

2564
2565

Table VI.5. Reporting requirements applicable to competent authorities in Member States—Interim arrangements

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
<ul style="list-style-type: none">CentralisedMutual recognition, decentralised or subject to referralPurely national	EU	All serious	<ul style="list-style-type: none">EudraVigilance databaseMarketing authorisation holder of the suspected medicinal product	15 days

2566

2567

VI.App3.2. Final arrangements

2568

Figure VI.3-Figure VI.6. Business process map - ~~Suspected adverse reaction-ICSRs~~ reporting in EU

2569

~~-Final arrangements~~

2570

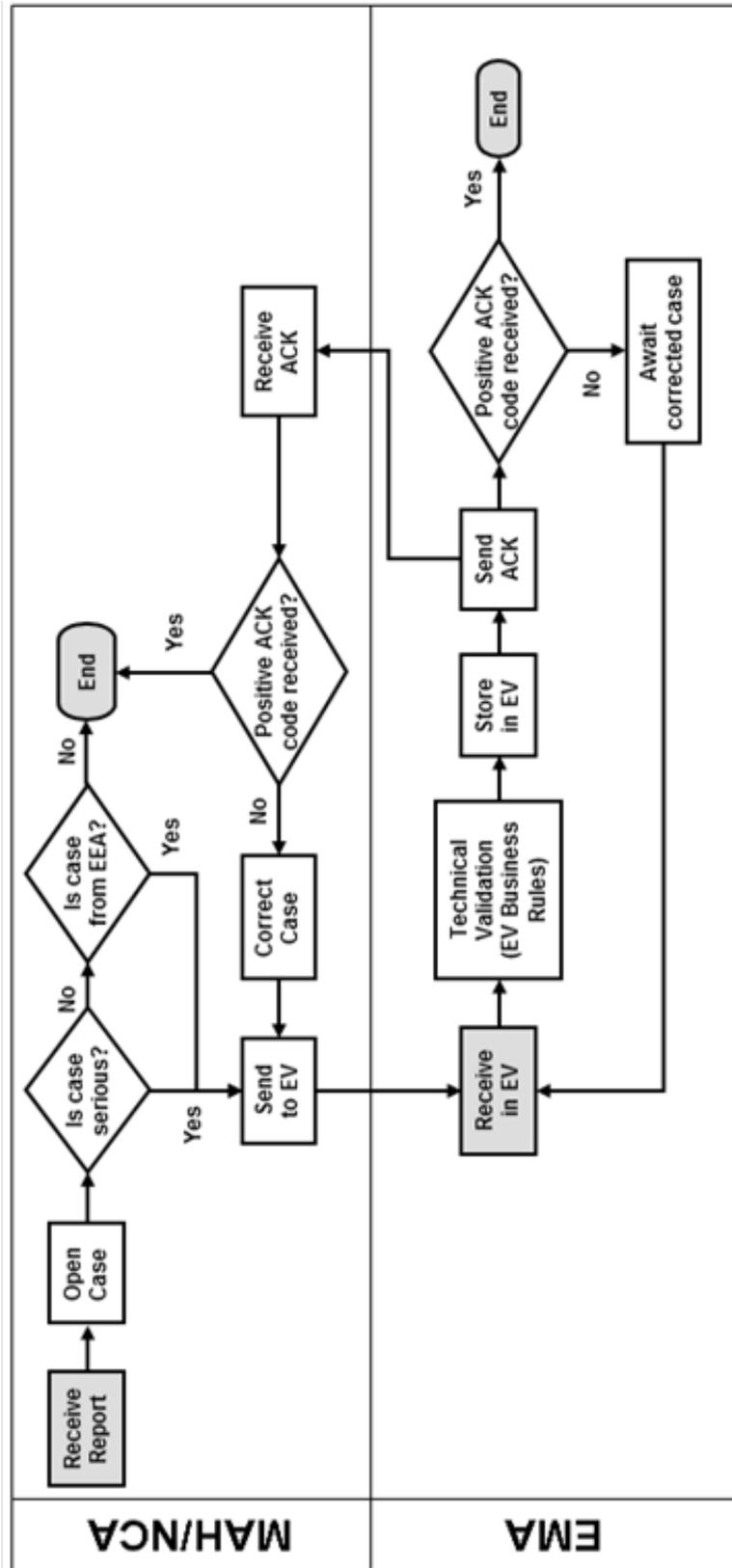


Table VI.6-Table VI.9. Process description - ~~Suspected adverse reaction-ICSRs~~ reporting in EU - ~~Final arrangements~~

No.	Step	Description	Responsible Organisation
1	Start. Receive report.	National Competent Authority (NCA) or Marketing Authorisation Holder (MAH) receives information on a suspected adverse reaction from a patient, healthcare professional or other valid reporter. If the case has been received from an EU NCA, <u>do not</u> retransmit it to EudraVigilance (EV).	MAH/NCA
2	Open case.	Open and create an individual case safety report.	MAH/NCA
3	Is case serious?	If No go to step 3.1. If Yes, go to step 4.	
3.1	Is case from EEA?	If No go to step 11.1. If Yes, go to step 4.	
4	Send to EV.	Transmit the case (all serious and EU non-serious) electronically, in ICH--E2B(R2/R3) format as an xml XML message within the relevant time frame (15 or 90 days, as applicable), to EV.	MAH/NCA
5	Receive in EV.	Receive the message in the EV.	EMA
6	Technical Validation (EV Business Rules).	Every message that is received in EV is validated against the EudraVigilance Business Rules and an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid. E2B(R2) messages will receive an E2B(R2) acknowledgement and an E2B(R3) message will receive an E2B(R3) acknowledgement. A valid message E2B(R2) ICSR will have an E2B(R2) ACK code 01- (ACK_B.1.8). A non-valid E2B(R2) ICSR will have an E2B(R2) ACK code 02(ACK_B.1.8). A non-valid message will have an ACK receive an 03 transmission acknowledgement code 02 (ACK_A.1.6) (if a case contained therein the message itself is not correctly formatted). A valid E2B(R3) ICSR will have an E2B(R3) ACK code "CA" (ACK.B.r.6). A non-valid or 03 E2B(R3) ICSR will have an E2B(R3) ACK code "CR" (ACK.B.r.6). A	EMA

No.	Step	Description	Responsible Organisation
		non-valid message will receive an "AR" transmission acknowledgement code (ACK.A.4) (if the message itself is not correctly formatted).	
7	Store in EV.	Once the case has been validated, it is stored in the EV.	EMA
8	Send ACK.	The acknowledgement message created in step 6 is transmitted to the case sender no later than 2 business days following receipt of the case. Go to step 9 for the EMA's next step. Go to step 10 for MAH/NCA's next step.	EMA
9	Was a positive ACK code received ?	If No go to step 9.1. If Yes, go to step 9.2.	EMA
9.1	Await corrected case.	The sender should correct every case with an error ACK and retransmit it within the regulatory reporting timelines. Periodically the EMA should assess all cases with an error ACK for which a corrected case has not been transmitted and contact the Qualified Person responsible for Pharmacovigilance (QPPV) to inform these missing corrected cases.sender . If a sender fails to correct cases, this information should be incorporated into data quality assessments and the appropriate committees should be informed. Go back to step 5 upon receipt of the corrected case.	EMA
9.2	End.	The case is now stored in EV &, following duplicate detection & recoding will be available for signal detection and data quality analyses. If the case occurred in the EU and was transmitted to EV by a MAH, it will be rerouted to the relevant NCA (see VI. Appendix App.3.3)	EMA
10	Receive ACK.	Receive the ACK message, associate it with the relevant case(s) and check to ensure that the case was considered valid.	MAH/NCA
11	Was a positive ACK code received ?	If yes, go to step 11.1. If no, then the regulatory timeline clock has not stopped and the case should be corrected and re-transmitted to EV within	MAH/NCA

No.	Step	Description	Responsible Organisation
		the relevant regulatory reporting timelines. Day 0 remains as the day that the first information was received. A Neither a non-valid ICSR (E2B(R2) ACK code 02 or E2B(R3) ACK code "CR") nor a non-valid message (E2B(R2) 03 ACK does not constitute or E2B(R3) "AR" transmission acknowledgement code) constitutes new information. Go to step 12 (Correct case)	
11.1	End.	End the process for this version of the case. Normal follow-up activities should continue and if any follow-up is received, return to step 1.	MAH/NCA
12	Correct case.	Correct the case to remove the errors identified in the ACK and retransmit the case to EV (go back to step 4).	MAH/NCA

2573

2574 | **VI. ~~App 3.2~~ App. 3.1. ~~Final arrangements~~ Requirements applicable to**
 2575 | **marketing authorisation holders**

2576 | ~~Table VI.7.~~ **Table VI.10.** Reporting requirements applicable to marketing authorisation holders -
 2577 | ~~Final arrangements~~

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
<ul style="list-style-type: none"> Centralised Mutual recognition, decentralised or subject to referral 	EU	All serious	<ul style="list-style-type: none"> EudraVigilance database 	15 days
		All non-serious	<ul style="list-style-type: none"> EudraVigilance database 	90 days
<ul style="list-style-type: none"> Purely national 	Non-EU	All serious	<ul style="list-style-type: none"> EudraVigilance database 	15 days

2578

2579 | **VI. ~~App 3.2.2. Final arrangements~~ App. 3.2. Requirements applicable to**
 2580 | **competent authorities in Member States**

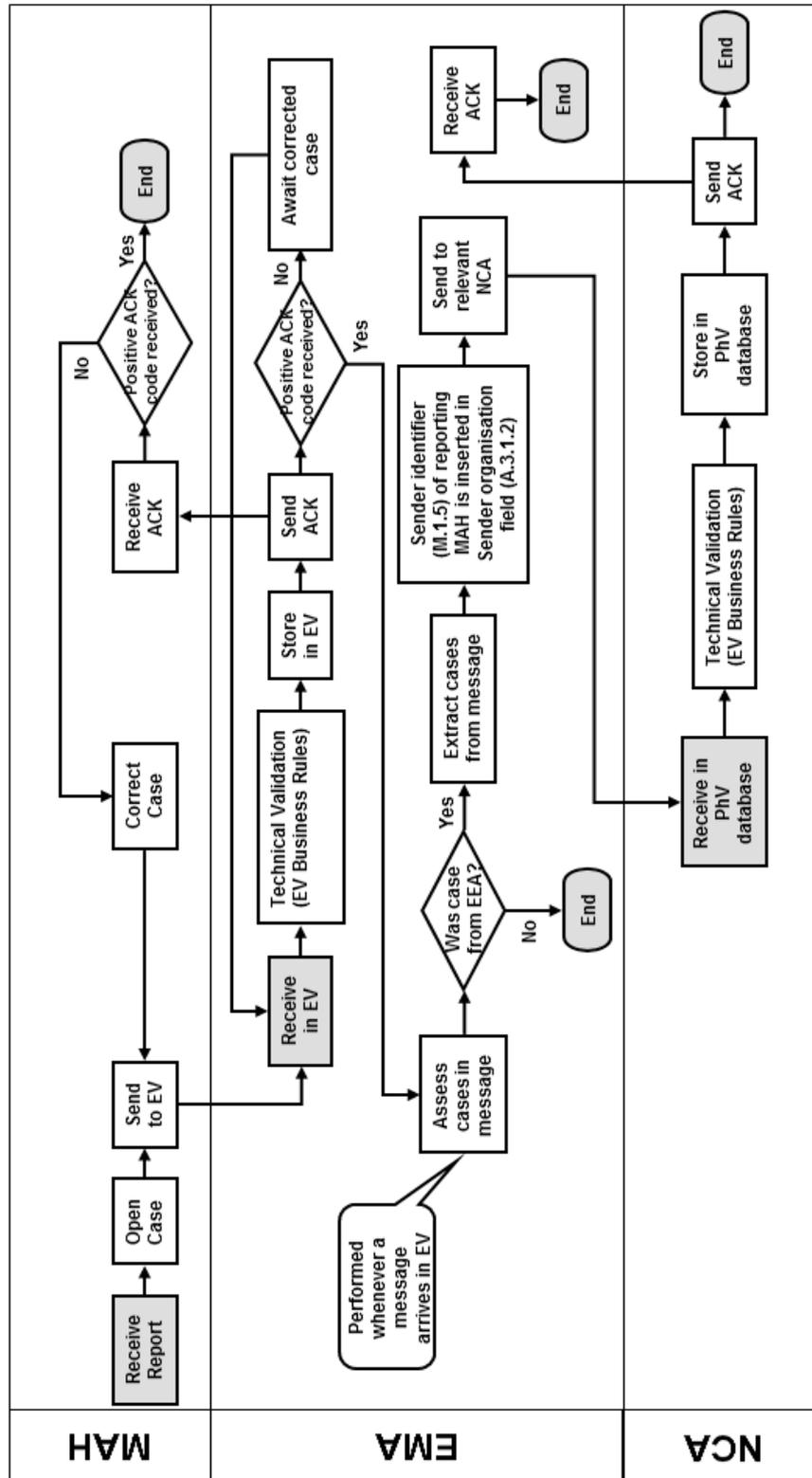
2581 | ~~Table VI.8.~~ **Table VI.11.** Reporting requirements applicable to competent authorities in Member
 2582 | States - ~~Final arrangements~~

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
<ul style="list-style-type: none"> Centralised Mutual recognition, decentralised or subject to referral 	EU	All serious	<ul style="list-style-type: none"> EudraVigilance database 	15 days
		All non-serious	<ul style="list-style-type: none"> EudraVigilance database 	90 days
<ul style="list-style-type: none"> Purely national 				

2583 **VI. App3 App. 3.3 Transmission and rerouting of ICSRs to competent**
 2584 **authorities in Member States**⁶⁶

2585 **Figure VI.4-Figure VI.7.** Business process map - Transmission and rerouting of ICSRs to competent
 2586 authorities in Member States

2587
 2588



⁶⁶ Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

Table VI.9-Table VI.12. Process description - Transmission and rerouting of ICSRs to competent authorities in Member States ⁶⁷

No.	Name	Description	Responsible Organisation
1	Start. Receive report.	Marketing Authorisation Holder (MAH) receives information on a suspected adverse reaction from a patient, healthcare professional or other valid reporter.	MAH
2	Open case.	Open and create an individual case safety report.	MAH
3	Send to EudraVigilance (EV).	Transmit the case electronically, in ICH--E2B(R2/R3) format as an xml XML message within the relevant time frames (15 or 90 days, as applicable), to EV.	MAH
4	Receive in EV.	Receive the message in the EV.	EMA
5	Technical Validation (EV Business Rules).	<p>Every message that is received in EV is validated against the EudraVigilance Business Rules and an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid. E2B(R2) messages will receive an E2B(R2) acknowledgement and an E2B(R3) message will receive an E2B(R3) acknowledgement.</p> <p>A valid messageE2B(R2) ICSR will have an E2B(R2) ACK code 01- (ACK_B.1.8). A non-valid messageE2B(R2) ICSR will have an E2B(R2) ACK code 02- (if a case contained therein is (ACK_B.1.8)). A non-valid or 03 message will receive an 03 transmission acknowledgement code (ACK_A.1.6) (if the message itself is not correctly formatted).</p> <p>A valid E2B(R3) ICSR will have an E2B(R3) ACK code "CA" (ACK.B.r.6). A non-valid E2B(R3) ICSR will have an E2B(R3) ACK code "CR" (ACK.B.r.6). A non-valid message will receive an "AR" transmission acknowledgement code (ACK.A.4) (if the message itself is not correctly formatted).</p>	EMA
6	Store in EV.	Once the case has been validated, it is stored in EV.	EMA

⁶⁷ Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

No.	Name	Description	Responsible Organisation
7	Send ACK.	The acknowledgement message created in step 5 is transmitted to the case sender no later than 2 business days following receipt of the case.	EMA
7.1	Receive ACK.	Receive the ACK message, associate it with the relevant case(s) and check to ensure that the case was considered valid.	MAH
7.2	Was a positive ACK code 0 received?	If Yes, go to step 7.2.1. If no, then the regulatory timeline clock has not stopped and the case should be corrected and re-transmitted to EV within the relevant regulatory reporting timelines. Day 0 remains as the day that the first information was received. A Neither a non-valid ICSR (E2B(R2) ACK code 02 or E2B(R3) ACK code "CR") nor a non-valid message (E2B(R2) 03 ACK does not constitute or E2B(R3) "AR" transmission acknowledgement code) constitutes new information. Go to step 7.2.2 (Correct case).	MAH
7.2.1	End.	End the process of transmitting this version of the case to EV. Normal follow-up activities should continue and if any follow-up is received, return to step 1.	MAH
7.2.2	Correct case.	Correct the case to remove the errors identified in the ACK and retransmit the case to EV (go back to step 3).	MAH
8	Was a positive ACK code 0 received?	If yes, go to step 9. If no, perform no further processing on this version of the case and go to step 8.1	EMA
8.1	Await corrected case.	The sender should correct every case with an error ACK and retransmit it within the regulatory reporting timelines. Periodically the EMA should assess all cases with an error ACK for which a corrected case has not been transmitted and contact the Qualified Person responsible for Pharmacovigilance (QPPV) sender to inform of these missing corrected cases. If a sender fails to correct cases, his information should be incorporated into data quality assessments and the appropriate committees should be	EMA

No.	Name	Description	Responsible Organisation
		informed.	
9	Assess cases in message.	Whenever a message has passed the technical validation, the cases therein should be immediately assessed to determine the country where the reaction occurred for regulatory reporting purposes.	EMA
10	Was case from EU?	For every case, assess whether the country of occurrence is in the EU. If Yes, go to step 11. If No, go to step 10.1	EMA
10.1	End.	The case is now stored in EV &, following duplicate detection & recoding will be available for signal detection and data quality analyses.	EMA
11	Extract cases from message.	The cases occurring in the EU will be extracted from the message for processing prior to retransmission.	EMA
12	Technical Validation.	For the retransmission of E2B(R2) messages the 'Message sender identifier' (ICH M2E2B(R2) M.1.5) of reporting MAH is inserted in data element 'Sender fieldorganisation' (ICH-E2B(R2) A.3.1.2) prior to retransmission. This is to permit the receiving National Competent Authority (NCA) to unambiguously identify the MAH responsible for transmitting the case to EV. For the retransmission of E2B(R3) messages the data element N.2.r.2 'Message sender identifier' will remain unchanged	EMA
13	Send to relevant NCA	The case is transmitted to the relevant NCA of the Member State where the reaction occurred with no other changes. Where a Member State has more than one NCA responsible for post-marketing reports, the cases occurring in that Member State are sent to all relevant NCAs.	EMA
14	Receive in Pharmacovigilance DataBase (PhV DB).	The relevant NCA receives the message in its PhV DB	NCA
15	Technical Validation (EV Business Rules).	Every message should be validated against the EudraVigilance Business Rules (the same business rules as in Step 5 and	NCA

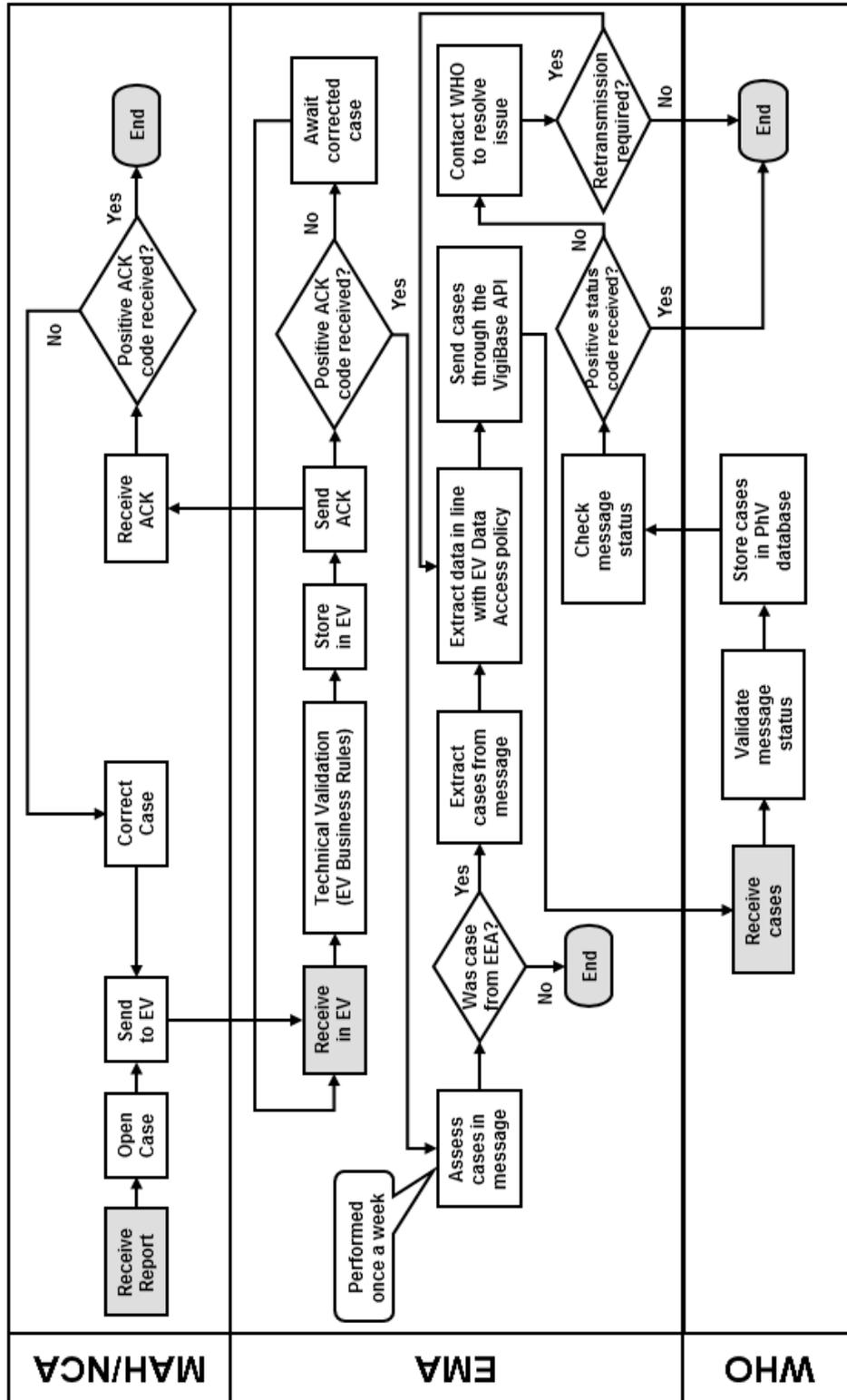
No.	Name	Description	Responsible Organisation
		<p>an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid.</p> <p>A valid messageICSR will have an E2B(R2) ACK code 01- or E2B(R3) ACK code "CA". A non-valid messageICSR will have an E2B(R2) ACK code 02 (if a case contained therein is or E2B(R3) ACK code "CR". A non-valid or 03 message will receive an E2B(R2) 03 or E2B(R3) "AR" transmission acknowledgement code (if the message itself is not correctly formatted).</p>	
16	Store in Pharmacovigilance DataBase (PhV DB).	Once the case has been validated, it is stored in the PhV DB.	NCA
17	Send ACK.	The acknowledgement message created in step 15 is transmitted to EV no later than 2 business days following receipt of the case.	NCA
17.1	End	The case is now stored in the NCA's Pharmacovigilance DataBase &, following duplicate detection & recoding will be available for signal detection and data quality analyses.	NCA
18	Receive ACK	The acknowledgement message sent in step 17 is received & stored in EV.	EMA
19	End	The case has now been successfully retransmitted to the relevant NCA.	EMA

2591

2592
2593
2594
2595
2596
2597
2598

VI. Appendix 4 Transmission of ICSRs to the World Health Organization (WHO)⁶⁸

Figure VI.5- Figure VI.8. Business process map - Transmission of ICSRs to the World Health Organization (WHO) Collaborating Centre for International Drug Monitoring



⁶⁸ Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

Table VI.10-Table VI.13. Process description - Transmission of ICSRs to the World Health Organisation (WHO) Collaborating Centre for International Drug Monitoring⁶⁹

No.	Step	Description	Responsible Organisation
1	Start. Receive report.	National Competent Authority (NCA) or Marketing Authorisation Holder (MAH) receives information on a suspected adverse reaction from a patient, healthcare professional or other valid reporter.	MAH/NCA
2	Open case.	Open and create an individual case safety report.	MAH/NCA
3	Send to EV.	Transmit the case electronically, in ICH--E2B(R2/R3) format as an xml XML message within the relevant time frames (15 or 90 days, as applicable), to EudraVigilance (EV).	MAH/NCA
4	Receive in EV.	Receive the message in EV.	EMA
5	Technical Validation (EV Business Rules).	<p>Every message that is received in EV is validated against the EudraVigilance Business Rules and an Acknowledgement message (ACK) is created specifying whether or not the message & the case(s) therein are valid. E2B(R2) messages will receive an E2B(R2) acknowledgement and an E2B(R3) message will receive an E2B(R3) acknowledgement.</p> <p>A valid messageE2B(R2) ICSR will have an E2B(R2) ACK code 01- (ACK_B.1.8). A non-valid messageE2B(R2) ICSR will have an E2B(R2) ACK code 02-(if a case contained therein is(ACK_B.1.8). A non-valid) or 03 message will receive an 03 transmission acknowledgement code (ACK_A.1.6) (if the message itself is not correctly formatted).</p> <p>A valid E2B(R3) ICSR will have an E2B(R3) ACK code "CA" (ACK.B.r.6). A non-valid E2B(R3) ICSR will have an E2B(R3) ACK code "CR" (ACK.B.r.6). A non-valid message will receive an "AR" transmission acknowledgement code (ACK.A.4) (if the message itself is not correctly formatted).</p>	EMA

⁶⁹ Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

No.	Step	Description	Responsible Organisation
6	Store in EV.	Once the case has been validated, it is stored in EV.	EMA
7	Send ACK.	The acknowledgement message created in step 5 is transmitted to the case sender no later than 2 business days following receipt of the case.	EMA
7.1	Receive ACK.	Receive the ACK message, associate it with the relevant case(s) and check to ensure that the case was considered valid.	MAH/NCA
7.2	Was a positive ACK code 01 received?	<p>If Yes, go to step 7.2.1.</p> <p>If no, then the regulatory timeline clock has not stopped and the case should be corrected and re-transmitted to EV within the relevant regulatory reporting timelines. Day 0 remains as the day that the first information was received.</p> <p>Neither a non-valid ICSR (E2B(R2) ACK code 02 or E2B(R3) ACK code "CR") nor a non-valid message (E2B(R2) 03 ACK does not constitute or E2B(R3) "AR" transmission acknowledgement code) constitutes new information. Go to step 7.2.2 (Correct case).</p>	MAH/NCA
7.2.1	End	End the process of transmitting this version of the case to EV. Normal follow-up activities should continue and if any follow-up is received, return to step 1.	MAH/NCA
7.2.2	Correct case	Correct the case to remove the errors identified in the ACK and retransmit the case to EV (go back to step 3).	MAH/NCA
8	Was a positive ACK code 01 received??	<p>If yes, go to step 9</p> <p>If no, perform no further processing on this version of the case and go to step 8.1</p>	EMA
8.1	Await corrected case.	The sender should correct every case with an error ACK and retransmit within the regulatory reporting timelines. Periodically the EMA should assess all cases with an error ACK for which a corrected case has not been transmitted and contact the Qualified Person responsible for Pharmacovigilance (QPPV) to inform of these missing corrected cases. If a sender fails to correct cases, this information should be incorporated into data quality assessments and the appropriate	EMA

No.	Step	Description	Responsible Organisation
		committees should be informed.	
9	Assess cases in message.	Once a week, for every message that has passed the technical validation, the cases therein should be assessed to determine the country where the reaction occurred for regulatory reporting purposes.	EMA
10	Was case from EU?	For every case, assess whether the country of occurrence is in the EU. If Yes, go to step 11. If No, go to step 10.1.	EMA
10.1	End.	The case is now stored in EV &, following duplicate detection & recoding will be available for signal detection and data quality analyses.	EMA
11	Extract cases from message	The cases occurring in the EU is extracted from the message for processing prior to retransmission.	EMA
12	Redact & replace Extract data in line with EV Data Access policy.	Prior to sending the cases to the World Health Organization (WHO) Collaborating Centre for International Drug Monitoring, the cases are extracted copies of the cases have some data elements redacted and replaced in line with the EV Data Access Policy in order to ensure personal data protection.	EMA
13	Copy Send cases to physical media through the VigiBase API .	The cases are copied to physical media sent through the VigiBase API which returns a messageID for each file submitted	EMA
14	Send to WHO-	The physical media is sent to WHO Collaborating Centre-	EMA
14 15	Receive physical media Cases	WHO Collaborating Centre receives the physical media cases.	WHO
15 16	Store cases in Pharmacovigilance DataBase (PhV DB).	Once the cases have been validated, they are stored in the PhV DB- a status code is recorded for each message	WHO
16	EMA Checks status of ICSR Messages	EMA uses the messageID to check the status code of each submitted message.	EMA
17	Was a positive status code received?	If yes, go to step 19 If no, go to step 18	EMA
18	Contact WHO to resolve technical issue	WHO UMC is contacted to resolve technical issues. If a message needs to be retransmitted go to step 12, if this is not required go to step 19.	EMA
17 19	End.	Cases are stored in the WHO	WHO

No.	Step	Description	Responsible Organisation
		Collaborating Centre's Pharmacovigilance DataBase & following duplicate detection & recoding will be available for signal detection and data quality analyses.	

2601

2602 VI. Appendix 5 Nullification of cases

2603 General principles regarding the nullification of cases are provided in [VI.C.6.2.2.10](#). The following
 2604 recommendations outlined in [VI.C.6.2.2.9](#).

2605 Examples of scenarios for which ICSRs should ~~also be applied~~ be nullified, are provided in [Table VI.13](#).

2606 ~~• The value in the data element 'Report nullification' (ICH-E2B(R2) A.1.13) should be set to 'Yes' and
 2607 the nullification reason should be provided in the data element 'Reason for nullification' (ICH-
 2608 EB(R2) A.1.13.1). The nullification reason should be clear and concise to explain why this case is
 2609 no longer considered to be a valid report. For example a nullification reason stating, 'the report no
 2610 longer meets the reporting criteria' or 'report sent previously in error' are not detailed enough
 2611 explanations.~~

2612 ~~• An individual case can only be nullified by the sending organisation.~~

2613 ~~• Once an individual case has been nullified, the case cannot be reactivated.~~

2614 ~~• If it becomes necessary to resubmit the case that has been previously nullified, a new 'Sender's
 2615 (case) safety report unique identifier' (ICH-E2B(R2) A.1.0.1) and 'Worldwide unique case
 2616 identification number' (ICH-E2B(R2) A.1.10) should be assigned.~~

2617 ~~• Individual versions (i.e. follow-up reports) of a case cannot be nullified, only the entire individual
 2618 case to which they refer.~~

2619 ~~Table VI.11.~~ **Table VI.14.** Examples of scenarios for which ICSRs should be nullified

Ex.	Scenario	Action
1	An individual case has been identified as a duplicate of another individual case previously submitted by the same sender.	One of the individual cases should be nullified. The remaining valid case should be updated with any additional relevant information from the nullified case. <ul style="list-style-type: none"> NOTE: In case of duplicate reports where one report needs to be nullified, the update of the remaining case should be performed in the form of a follow-up report⁷⁰. Information on the identification of the nullified case(s) should be provided (ICH-E2B(R2) A.1.11/ICH-E2B(R3) C.1.11).
2	A wrong 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10/ICH-E2B(R3) C.1.8.1) was accidentally used and does not refer to an existing case.	The case with the wrong 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10/ ICH-E2B(R3) C.1.8.1) should be nullified. A new case should be created with a correct 'Worldwide unique case identification number'.
3	On receipt of further information it is confirmed that that the adverse reaction(s) occurred before the suspect	The case should be nullified.

⁷⁰ See [Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports \(ICSRs\)](#), [EMA/13432/2009](#).

Ex.	Scenario	Action
	drug(s) was taken.	
4	On receipt of further information on an individual case, it is confirmed that the patient did not receive the suspect drug-(s). Minimum reporting criteria for an ICSR as outlined in VI.B.2 are no longer met.	The case should be nullified.
5	On receipt of further information it is confirmed by the same reporter that the reported adverse reaction(s) did not occur to the patient. Minimum reporting criteria for an ICSR as outlined in VI.B.2 are no longer met.	The case should be nullified.
6	On receipt of further information it is confirmed that there was no valid identifiable patient for the individual case. Minimum reporting criteria for an ICSR as outlined in VI.B.2 are no longer met.	If it is not possible to obtain confirmation of verify the patient's existence, then the case should be nullified.

2620 ~~Individual cases that have been nullified~~ Examples of scenarios for which ICSRs should ~~not~~ **NOT** be
2621 ~~used for scientific evaluation, however, they should remain in the database for auditing purposes.~~

2622 ~~In addition, in case of duplicate reports where one report needs to be nullified, the update of the~~
2623 ~~remaining case should be performed in the form of a follow-up report⁷¹. Information on the~~
2624 ~~identification of the nullified case(s) should be nullified, are provided in the data element 'Source(s) of~~
2625 ~~the case identifier (e.g. name of the company, name of regulatory agency)' (ICH-E2B(R2) A.1.11.1)~~
2626 ~~and in the data element 'Case identifier(s)' (ICH-E2B(R2) A.1.11.2). Table VI.14..~~

2627 ~~Table VI.12. Table VI.15.~~ Examples of scenarios for which ICSRs should NOT be nullified

Ex.	Scenario	Action
7	A wrong 'Worldwide unique case identification number' (ICH--E2B(R2) A.1.10/ ICH-E2B(R3) C.1.8.1) was accidentally used. This wrong ICH-E2B(R2) A.1.10 'Worldwide unique case identification number' referred to ana different existing case.	The report with the wrong 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10/ICH-E2B(R3) C.1.8.1) should not be nullified. A follow-up An amendment report should be submitted to correct the information previously submitted. A new ICSR should be created and submitted with the correct 'Worldwide unique case identification number'.
8	On receipt of further information on an	The case should not be nullified. A follow-up should

⁷¹ ~~As presented in the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs), EMA/13432/2009.~~

Ex.	Scenario	Action
	<p>individual case, it is confirmed that the patient did not receive the marketing authorisation holder's suspect drug. However, the patient received other suspect drugs and the minimum reporting criteria for an ICSR are still met.</p>	<p>be submitted within the appropriate time frame with the updated information on the case.</p> <p>Further, it is recommended that the initial sender informs the other marketing authorisation holder about this case (including the 'Worldwide Unique Case Identification Number' (ICH-E2B(R2) A.1.10 / ICH-E2B(R3) C.1.8.1).</p> <p>The other concerned marketing authorisation holder should create a new case and specify the reference case number and the name of the initial sending marketing authorisation holder (ICH-E2B(R2) section A.1.11 / ICH-E2B(R3) section C.1.11).</p>
9	<p>On receipt of further information the reporter has confirmed that the reported adverse reaction is no longer considered to be related to the suspect medicinal product(s).</p>	<p>The case should not be nullified.</p> <p>A follow-up report should be submitted within the appropriate time frame with the updated information on the case.</p> <ul style="list-style-type: none"> • ICH-E2B(R2): Section B.4.k.18 'Relatedness of drug to reaction(s)/event(s) (repeat B.4.k.18.1 through B.4.k.18.4 as necessary)' should be populated as necessary. • ICH-E2B(R3): Section G.k.9.i 'Drug-reaction(s) / Event(s) Matrix (repeat as necessary)' should be populated as necessary.
10	<p>Change of the individual case from serious to non-serious (downgrading).</p>	<p>The case should not be nullified.</p> <p>A follow-up report or an amendment report (depending on whether new information was received or not) should be submitted with:</p> <p>ICH-E2B(R2): the data element A.1.5.1 'Seriousness' (ICH-E2B(R2) A.1.5.1) should be populated with the value 'No' without selection of a value for the data element A.1.5.2 'Seriousness criteria' (ICH-E2B(R2) A.1.5.2).</p> <ul style="list-style-type: none"> • . The data element A.1.9 'Does this case fulfil the local criteria for an expedited report?' (ICH-E2B(R2) field A.1.9) should remain populated with the value 'Yes'. • ICH-E2B(R3): the data element E.i.3.2 'Seriousness Criteria at Event Level' should not be populated if the reaction is not serious. The data element C.1.7 'Does This Case Fulfil the Local Criteria for an Expedited Report?' should

Ex.	Scenario	Action
		remain populated with the value 'Yes'.
11	<p>The primary source country has changed, which has an impact on the ICH-E2B(R2) convention regarding the creation of the 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) ICH-E2B(R3) C1.8.1.</p>	<p>The case should not be nullified.</p> <p>The ICH-E2B(R2): The data element A.1.0.1 'Sender's (case) safety report unique identifier' (ICH-E2B(R2) A.1.0.1) can be updated on the basis of the new primary source country code. However, the data element A.1.10 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) should remain unchanged.</p> <ul style="list-style-type: none"> If, for some technical reason, the sender's local system is not fully ICH-E2B(R2) compliant and cannot follow apply this policy, then the sender should nullify the original case. A new case should be created using the data element A.1.10 with a new 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) reflecting the changed primary source country code. The 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) of the case that was nullified should be reflected in the data elements A.1.11 'Other case identifiers in previous transmissions' (ICH-E2B(R2) A.1.11). ICH-E2B(R3): The data element C.1.1 'Sender's (Case) Safety Report Unique Identifier' can be updated on the basis of the new primary source country code. However, the data element C.1.8.1 'Worldwide Unique Case Identification Number' should remain unchanged. If, for some technical reason the sender's local system cannot apply this policy, then the sender should nullify the original case. A new case should be created using the data element C.1.8.1 with a new 'Worldwide Unique Case Identification Number' reflecting the changed primary source country code. The 'Worldwide unique case identification number' of the case that was nullified should be reflected in the data elements C.1.9.1 'Other Case Identifiers in Previous Transmissions'.
12	<p>The suspected medicinal product belongs to another marketing authorisation holder (e.g. a product with the same active substance but marketed under a different invented name).</p>	<p>The case should not be nullified.</p> <p>It is recommended that the initial sender informs the other marketing authorisation holder about this case (including the 'Worldwide unique case identification number Unique Case Identification Number' (ICH-</p>

Ex.	Scenario	Action
		<p>E2B(R2) A.1.10)-used/ICH-E2B(R3) C.1.8.1). The original organisation should also submit a follow-up report to provide this new information.</p> <p>The other concerned marketing authorisation holder should create a new case and specify the reference case number and the name of the initial sending marketing authorisation holder in the data elements 'Source(s) of the case identifier (e.g. name of the company name of regulatory agency)' (ICH-E2B(R2) A.1.11.1) and 'Case identifier(s)' (ICH-E2B(R2) A.1.11.2). This will allow grouping the cases in the EudraVigilance database.(ICH-E2B(R2) section A.1.11/ICH-E2B(R3) section C.1.11).</p>
13	<p>The suspected medicinal product taken does not belong to the marketing authorisation holder (same active substance, the invented name is unknown and the report originates from a country, where the marketing authorisation holder has no marketing authorisation for the medicinal product in question).</p>	<p>The case should not be nullified.</p> <p>The marketing authorisation holder should submit a follow-up report with this information within the appropriate time frame.</p>
14	<p>The case is mistakenly reportedsubmitted by the marketing authorisation holder A although the marketing authorisation holder B as co-marketer is responsible for reporting the case.</p>	<p>The case should not be nullified.</p> <p>An explanation should be sent by the marketing authorisation holder A to the co-marketer marketing authorisation holder B that the case has already been reportedsubmitted. The marketing authorisation holder B should provide any additional information on the case as a follow-up report with the same 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10)-/ICH-E2B(R3) C.1.8.1).</p>

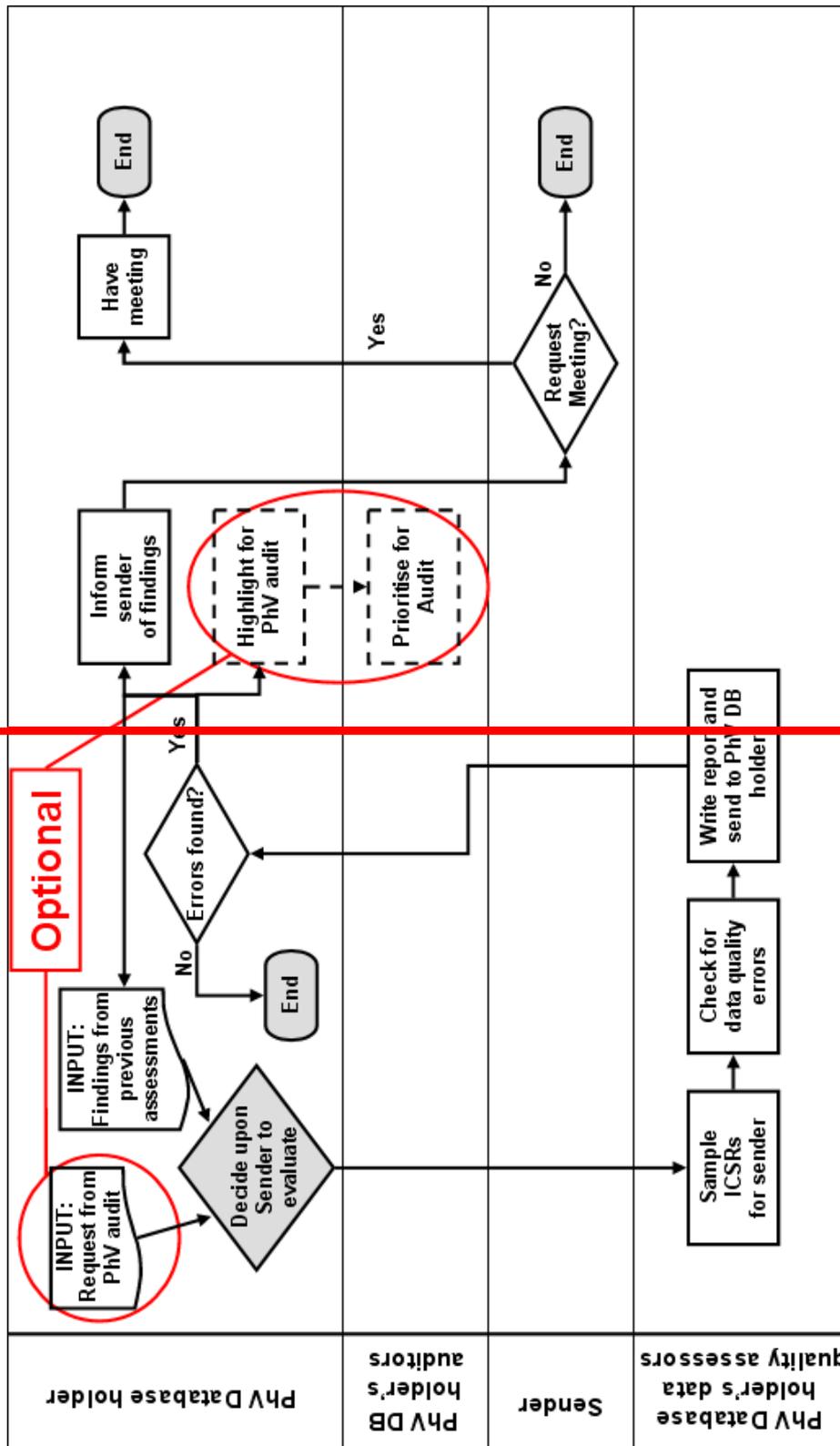
2628

2629
2630

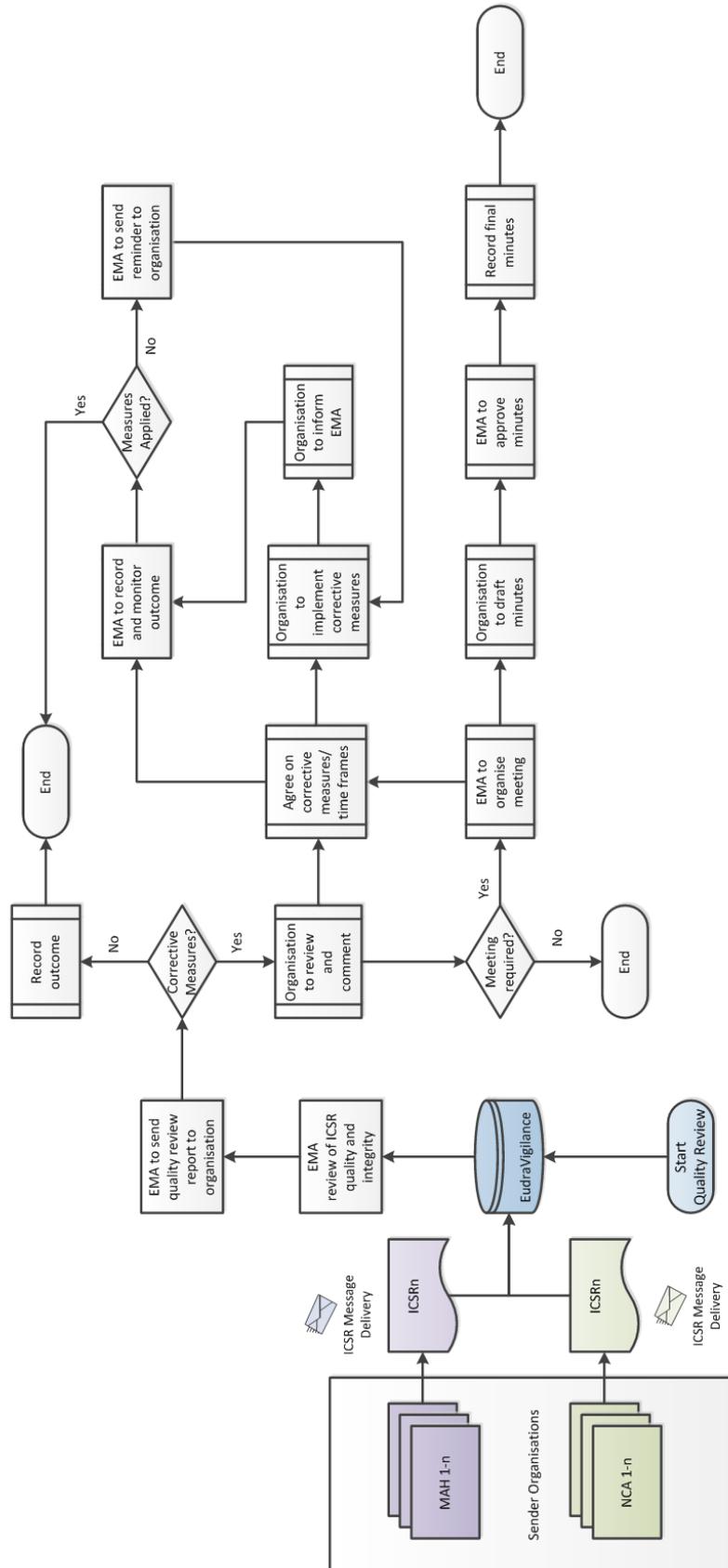
VI. Appendix 6 Data quality monitoring of ICSRs transmitted electronically

2631
2632

Figure VI.6- Figure VI.9. Business process map - ~~Data~~ Review of quality monitoring and integrity of ICSRs ~~transmitted electronically~~ by the Agency in collaboration with NCAs and MAHs



2633



2635

~~Table VI.13. Process description – Data quality monitoring of ICSRs transmitted electronically~~

2636

~~Table VI.14. Table VI.16. The business map and process description describe a system where there is a separation between a Pharmacovigilance DataBase (PhV-DB) holder, the PhV-DB holder's data Quality Assessors (QA) and the PhV-DB holder's auditors; however this is not mandatory and these functions may be performed by the same people or groups. Process description – Review of quality and integrity of ICSRs by the Agency in collaboration with NCAs and MAHs~~

2637

2638

2639

2640

No.	Step	Description	Responsible Organisation
4	Start: Decide upon Sender to evaluate:	Select one of the organisations that has transmitted ICSRs to your database: Inputs into this decision can include, but need not be limited to findings from previous assessments and requests from pharmacovigilance audits. Review of quality and integrity of ICSRs by the Agency in collaboration with NCAs and MAHs in EEA Member States	PhV-DB holder EMA
21	Sample ICSRs from Sender. Receive reports of suspected drug adverse reaction(s) from NCAs and MAHs	Take a sample of ICSRs that were transmitted by the selected sender ICSRs are received in electronic format in EudraVigilance from sender organisations with reporting obligations of suspected adverse reactions related to medicines authorised in the EEA	QA EMA
32	Check for data ICSR quality errors and integrity	Check the cases for data quality errors. The cases should be assessed against appropriate published standards and similar documents, for example the MedDRA Term Selection Points to Consider document. A review of the quality, integrity and monitoring of compliance with reporting timeframes as well as the use of terminologies is performed in accordance with: <ul style="list-style-type: none"> • 3194 SOP - EudraVigilance individual case safety report data quality checking (in draft) • 3201 WIN - EudraVigilance how to check the quality of the data (in draft) 	QA EMA
43	Write A EV quality review report and send it sent to PhV-DB holder organisation	The findings from the data quality assessment should be collated into a single report. These can include related	QA EMA

No.	Step	Description	Responsible Organisation
		checks, such as 15-day reporting compliance, whether error reports are corrected and similar statistical information. A draft report summarising the quality review outcome is sent to the organisation (EU QPPV for MAH/ Head of PhV Department of NCA) by e-mail	
53.1	Errors found? Are corrective actions required?	<p>Were any errors found during the analysis of the cases?</p> <p>Are corrective actions required by the organisation being reviewed?</p> <p>If Yes, go to point 4.</p> <p>If No, go to step 5.1.</p> <p>If Yes go to steps 5.2, 5.3 & 6. point 10.</p>	PhV-DB holder
4.	Corrective actions are required by organisation being reviewed		
54.1	End. Review and comment	<p>If there were no errors found, then no further action needs to be taken. The process can end until the next time the sender is assessed. The PhV-DB holder may choose to share this information with the assessed sender and their auditors who may wish to factor this in to determinations of which sender to assess.</p> <p>Review draft quality review report and provide comments to EMA</p>	PhV-DB holder Organisation being reviewed (NCA/MAH)
5-2	Highlight for PhV audit.	If the PhV-DB holder's organisation has an audit department, any significant findings should always be shared with them.	PhV-DB holder
5-2.1	Prioritise for Audit. Is meeting required?	<p>The audit or inspections department should use the information provided to them to feed into decisions about prioritising organisations for audit or inspection.</p> <p>If Yes, progress to 6.</p> <p>If No, progress to 7.</p>	PhV-DB holder's auditors Organisation being reviewed (NCA/MAH)
5-36	INPUT: Findings from previous assessments. A meeting is required	Any errors found (or even lack thereof) should be incorporated into decisions about which senders to evaluate &	PhV-DB holder

No.	Step	Description	Responsible Organisation
		should also inform the performance of the assessments (e.g. targeting particular types of case) and the report (documenting whether previously identified issues have been addressed). A review meeting is requested by the Sender Organisation or is proposed by EMA	
6.1	A meeting is organised	A meeting is organised (via TC or face-to-face)	EMA
6.2	Inform sender of findings. Draft minutes of the meeting	Inform the sender of the findings, including requested remedial actions (e.g. retransmitting certain cases) and time frames for those actions. Agreed actions and outcome of discussions to be summarised in draft meeting minutes	PhV-DB holder Organisation being reviewed (NCA/MAH)
6.3	Approve meeting minutes	Approve meeting minutes as final	EMA
6.4	Record final minutes	Record final meeting minutes	EMA/Organisation being reviewed (NCA/MAH)
6.5	End		
7	Request A meeting? is NOT required	The sender should have the option to choose to request a meeting to discuss the findings and appropriate remedial action and time frames. If no No review meeting is required (requested, go to step 7.1. If a meeting is requested go to step by the Sender Organisation or proposed by EMA) Proceed with point 8.	Sender
7.18	Address the findings & retransmit any required cases. Agree on corrective measures/timeframes	Address all findings, take necessary steps to prevent recurrence of such findings & retransmit any required cases. Reach agreement on corrective measures/timeframes; outcome of the agreement is to be reflected on the basis of the final quality review report, which is to be recorded	Sender Organisation being reviewed (NCA/MAH)
8.1	Implement corrective measures	Implement the corrective measures in accordance with the agreed methods	Organisation being reviewed (NCA/MAH)

No.	Step	Description	Responsible Organisation
		and timeframes	
78.2	End : Inform EMA about outcome	Once all findings have been addressed, the necessary steps taken to prevent recurrence of such findings and any required cases have been retransmitted, the process can end until the next time the sender is assessed. Inform EMA when corrective measures have been implemented in line with final quality review report	Sender Organisation being reviewed (NCA/MAH)
8.3	Have meeting : Record and monitor outcome	Upon request from one party, a meeting should be held to discuss the findings of quality assessments and appropriate remedial and preventive actions to ensure that the cases in the database are correct and shall be so in the future. Record the final quality review report and monitor the implementation the agreed corrective measures	PhV-DB holder & Sender EMA
98.4	End : Have corrective measures been applied?	Unless further action has Check if corrective measures have been specified (e.g. future meetings or assessments) , implemented by the organisation If Yes, the process can will end until the next time the sender is assessed If No, proceed to 9.	PhV-DB holder EMA
9	Send reminder to organisation being reviewed	Send reminder to organisation being reviewed to implement corrective measures and proceed with point 8.4	EMA
10	Corrective Measures are NOT required	The quality review did not reveal any corrective measures	
10.1	Record outcome		EMA/Organisation being reviewed
10.2	End		

2641

2642

VI. Appendix 7 Duplicate detection and management of ICSRs

2643

VI.App.7.1 Duplicate Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from the same sender

2644

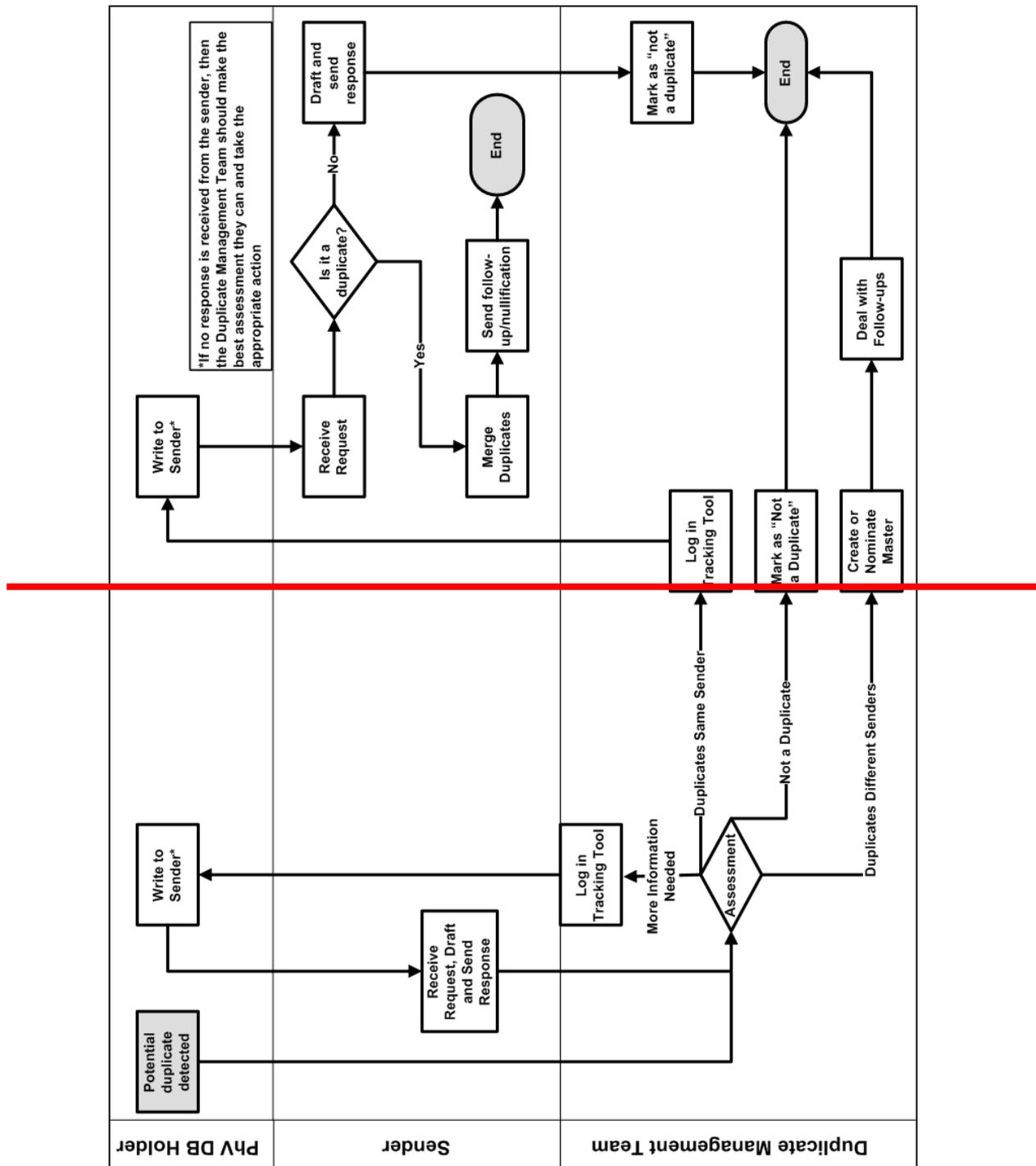
2645

2646

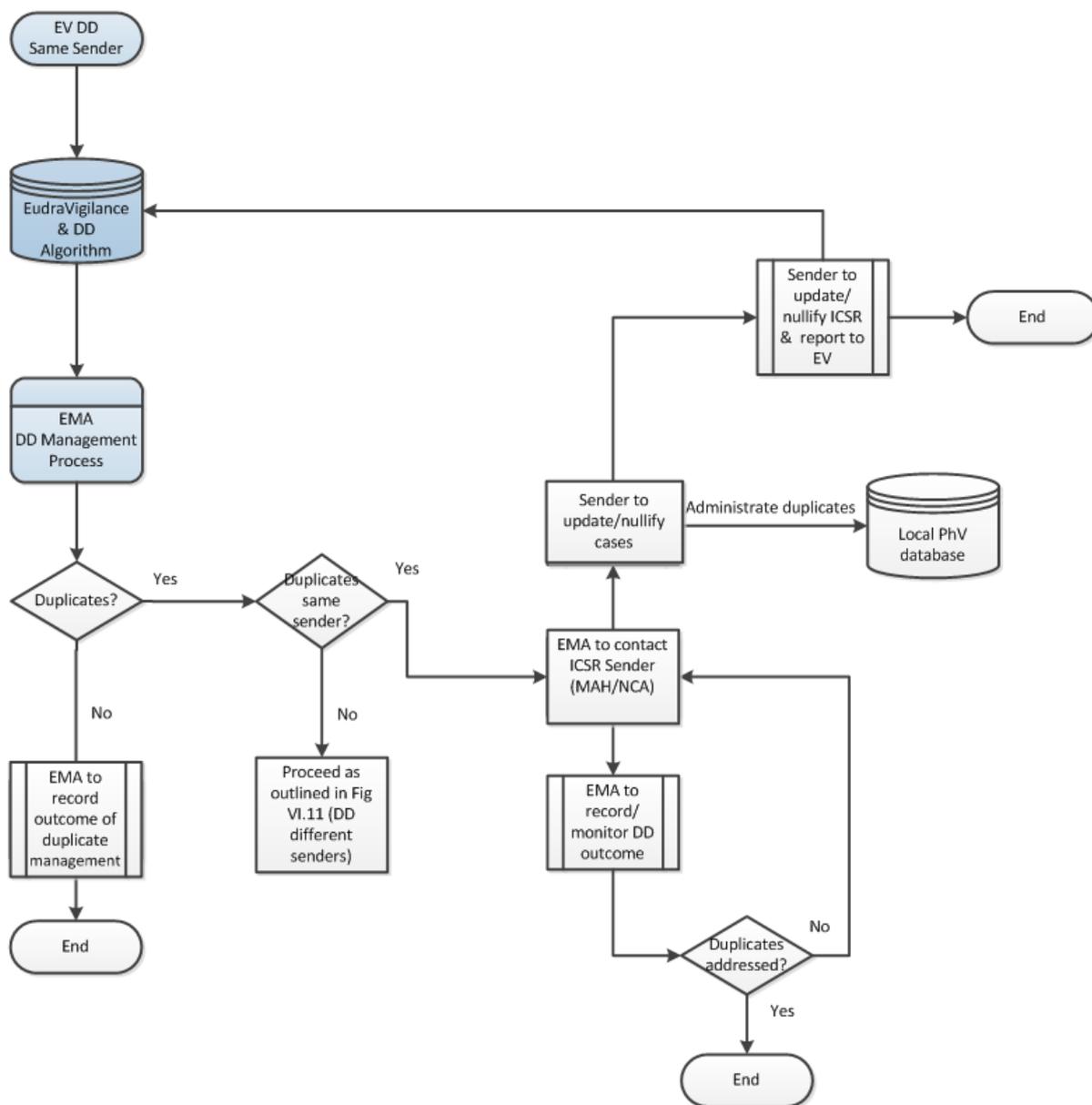
Figure VI.7- Figure VI.10. Business process map - Duplicate detection and management of ICSRs Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from the same sender

2647

2648



2649



2650
2651

2652
2653
2654

Table VI.15-Table VI.17. Process description - Duplicate detection and management of ICSRs Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from the same sender

No:	Step	Description	Responsible organisation Organisation
4	Start: Potential duplicate detected:	Potential duplicates have been detected by the Pharmacovigilance DataBase (PhV-DB) holder organisation or the PhV-DB holder organisation is notified of potential duplicates by a receiver of the cases. EudraVigilance (EV) Duplicate Detection with duplicates originating from the same Sender – Duplicates identified by the Agency	PhV-DB holder
1	Duplicate Detection (DD) in EudraVigilance	A duplicate detection algorithm is operated in EudraVigilance to detect potential duplicates	EMA
2	Assessment. EMA Duplicate Detection Management Process	All The potential duplicates need assessment identified by the organisation Duplicate Management Team (DMT) to confirm or deny their duplicate status. Following assessment there are 4 possible outcomes: <ul style="list-style-type: none"> • Not a Duplicate (go to step 2.1); • More Information Needed (go to step 2.2); • Duplicates From Different Sender (go to step 2.3); • Duplicates From Same Sender (go to step 2.4). The outcome of all assessments should be recorded to avoid continually reassessing the same cases when further versions arrive. These recorded outcomes can also be used to refine the EudraVigilance duplicate detection methods during future development. algorithm are reviewed in accordance with the applicable SOP/WIN <ul style="list-style-type: none"> • 3323 SOP - Performing duplicate detection in EudraVigilance (in draft) • 3324 WIN - Evaluation and management of detected potential duplicates in EudraVigilance (in draft) 	DMT EMA

No.	Step	Description	Responsible organisation
2.1	Not a Duplicate: Mark as not a duplicate. Are there duplicates?	<p>If Are the cases are assessed as not being duplicates of one another, then mark both cases as such identified by the EudraVigilance duplicate detection algorithm confirmed?</p> <p>Go If Yes, proceed to step 3 (End).</p> <p>If No, proceed to 6.</p>	DMT EMA
2.2	More information needed: Log in tracking tool.	<p>There should be some form of tool for tracking when more information is needed, when correspondence has been sent, whether an answer was received and, if so, when.</p>	DMT
2.2.13	Write to Sender. Are the confirmed duplicates from the same sender?	<p>More information is required in order to be able to make a definite assessment. The sender (who transmitted the case(s) in question to the PhVDB holder's organisation) should be contacted to request specific information necessary to confirm or deny duplication. Personal data protection must remain paramount, so unsecured communications should not include sufficient data to identify an individual. Are the confirmed duplicates from the same sender organisation or a different sender organisation?</p> <p>If Yes, proceed to 4.</p> <p>If No, proceed according to the business process map related to duplicate detection of ICSRs from different senders outlined in Figure VI.11.</p>	PhV-DB holder EMA
2.2.24	Receive request, draft and send response. EMA to contact ICSR Sender (MAH/NCA)	<p>Once a request for more information has been received, the Sender of the case should respond promptly, either as a follow-up version of the case or by responding to the requester. The DMT should then reassess the case based on the new information (Go back to step 2). Contact the ICSR sender organisation to inform about the ICSRs that have been identified and confirmed as duplicates in EudraVigilance in</p>	Sender EMA

No.	Step	Description	Responsible organisation
		<p>accordance with the applicable WIN:</p> <ul style="list-style-type: none"> 3325 WIN Following-up potential duplicates ICSRs with the original senders (in draft) 	
2.3.4.1	<p>Duplicates Different Senders: Create or nominate master-EMA to record/monitor the outcome of the duplicate management</p>	<p>Once cases have been determined to be duplicates of one another and have been transmitted to the PhV-DB holder by different senders or reporters, then they should be merged under a master case, following the process described in chapter 2.3 "Management of duplicate cases" of the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs), EMA/13432/2009. Record the outcome of the duplicate management and monitor that duplicates have been addressed by the sender organisation</p>	DMT/EMA
2.3.1	Deal with follow-ups.	<p>If any follow-ups arrive for any of the cases, this information may require a reassessment of the master case. Reassess and, if necessary, amend the master case as with any received follow-up information. Go to step 3 (End).</p>	DMT
4.2.4	<p>Duplicates Same Sender: Log in tracking tool.Are the duplicates addressed?</p>	<p>Once cases have been determined to be duplicates of one another, and have been transmitted to the PhV-DB holder by the same sender, then this decision and the correspondence referred to in step 2.4.1 should be logged in the tracking tool referred to in step 2.2. Have the duplicates been addressed by the Sender Organisation?</p> <p>If Yes, the process ends.</p> <p>If No, progress with point 4</p>	DMT
2.4.15	<p>Write to Sender: (MAH/NCA) to update/nullify cases</p>	<p>The sender organisation, as Sender Organisation has to update/nullify the source of the duplicates, should be contacted duplicate cases in their pharmacovigilance database in accordance with chapter 2.3.3 of the Guideline on the</p>	PhV-DB holder Organisation (MAH/NCA)

No.	Step	Description	Responsible organisation Organisation
		<p>Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009).</p> <p>The sender should be asked to confirm or deny duplication and take appropriate steps in accordance with chapter 2.3.1 of the aforementioned Guideline).</p>	
2.4.2	Receive request.	Receive and log the communication containing information on suspected duplicates in the Sender's PhV DB.	Sender
2.4.3	Is it a duplicate?	Assess the potential duplicates. Are the cases duplicates of one another? If Yes, go to step 2.4.3.1. If No, go to step 2.4.3.2.	Sender
2.4.35.1	Merge duplicates. Sender (MAH/NCA) to send updated ICSR/nullification report to EV	Merge the duplicates, taking into account Flowchart 1 of chapter 2.3.1.3 of The Sender Organisation has to send an updated ICSR/nullification report to EudraVigilance in accordance with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009).	Sender Organisation (MAH/NCA)
5.2	End		
2.4.3.1.16	Send follow-up/nullification. There are no confirmed duplicates	For the cases that are merged under the master, send a nullification message to the PhV DB holder. For the case that is master, send the updated case to the PhV DB holder as follow-up information. The merging & transmission should be completed promptly and in any case within 15 days result of the date of receipt of the information from the PhV DB holder duplicate detection management process it is confirmed that the individual cases were considered to be possible are no duplicates. This date should be treated as the date of receipt of most recent information for regulatory reporting purposes.	Sender EMA
2.4.3.1.2	End.	The duplicates have now been	Sender

No.	Step	Description	Responsible organisation
		<p>removed from both the Sender's system and that of the PhV-DB holder and only the master should be available for signal detection and data quality analyses.</p> <p>Unless follow-up information is received, then no further steps need be taken.</p>	
2.4.3.2	Draft and send a response.	Reply to the PhV-DB holder who sent the communication informing that the cases are not duplicates.	Sender
2.4.3.26.1	<p>Mark as "Not a duplicate" Mark as "Not a duplicate" EMA to record outcome of duplicate management</p>	<p>Upon receipt of confirmation from the Sender organisation that duplicate detection management process is recorded in accordance with the cases are not applicable SOP/WIN:</p> <ul style="list-style-type: none"> 3323 SOP - Performing duplicate detection in EudraVigilance (in draft) 3324 WIN - Evaluation and management of detected potential duplicates, mark the cases as "Not a duplicate" & go to step 3 (End): in EudraVigilance (in draft) 	DMT/EMA
36.2	End:	No further action is required for this couple.	DMT

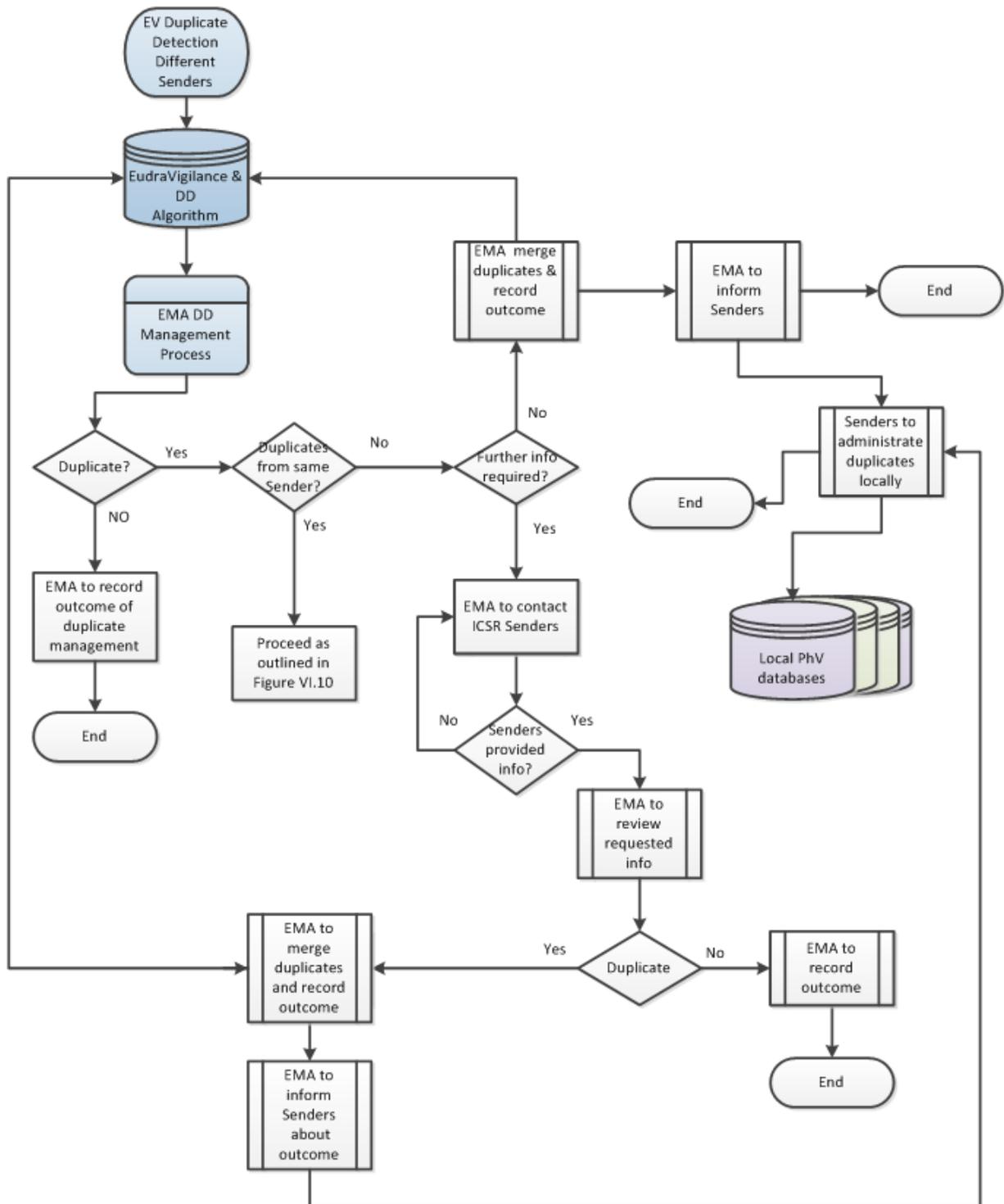
2655

2656
2657
2658

VI.App.7.2 Duplicate Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from different Senders

2659
2660
2661

Figure VI.11. Business process map - Duplicate Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from different senders



2662
2663

Table VI.18. Process description - Duplicate Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates originate from different senders

No	Step	Description	Responsible Organisation
	Start	<p>EudraVigilance (EV) Duplicate Detection with duplicates originating from different Senders – Duplicates identified by the Agency</p> <p><i>Example: there is more than one suspect drug and the same case is submitted by two MAHs; the patient reported the same adverse reaction to a NCA and the MAH</i></p>	
1	Duplicate Detection (DD) in EudraVigilance	A duplicate detection algorithm is operated in EudraVigilance to detect potential duplicates	EMA
2	EMA Duplicate Detection Management Process	<p>The potential duplicates identified by the EudraVigilance duplicate detection algorithm are reviewed in accordance with the applicable SOP/WIN</p> <ul style="list-style-type: none"> 3323 SOP - Performing duplicate detection in EudraVigilance (In draft) 3324 WIN - Evaluation and management of detected potential duplicates in EudraVigilance (in draft) 	EMA
2.1	Are there duplicates?	<p>Are the duplicates identified by the EudraVigilance duplicate detection algorithm confirmed?</p> <p>If Yes, proceed to point 3.</p> <p>If No, proceed to point 9.</p>	EMA
3	Are the duplicates from the same Sender?	<p>Are the duplicates identified by the EudraVigilance duplicate detection algorithm confirmed?</p> <p>If Yes, proceed as outlined in Figure VI.10.</p> <p>If No, proceed to point 4.</p>	
4	Is further information required?	<p>Is there further information required to confirm if the duplicates identified by the duplicate detection algorithm are duplicates?</p> <p>If Yes, proceed to point 5.</p> <p>If No, proceed to point 8.</p>	EMA
5	EMA to contact ICSR Senders (MAH/NCA)	<p>Contact the ICSR senders to obtain additional information on the individual cases that have been identified as potential duplicates and indicate timeframe by when the information is to be provided</p> <ul style="list-style-type: none"> 3325 WIN Following-up potential duplicates ICSRs 	EMA

No	Step	Description	Responsible Organisation
		with the original senders (in draft)	
6	Has Sender provided the information?	Check if the Senders have provided the requested information? If Yes, proceed to point 7. If No, proceed to 5.	EMA
7	EMA to review requested info	The duplicate cases are to be reviewed based on the requested info that has been provided by the Senders to confirm if they are duplicates. If Yes, proceed to point 8. If No, progress with point 9.	
8	The cases are confirmed duplicates		
8.1	EMA to merge duplicate reports and record outcome	Merge the potential duplicates in EudraVigilance in line with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009)	Sender Organisations (MAH/NCA)
8.2	EMA to inform Senders about outcome	Inform the Senders about the outcome of the duplicate management to allow Senders to take action where necessary ^{72, 73, 74}	EMA
8.3	Senders to administrate duplicates locally	Senders of the cases identified as duplicates in EudraVigilance should follow the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009) Note: capture duplicate case reference numbers in data element 'Other case identifiers in previous	Sender Organisations (MAH/NCA)

⁷² NOTE: MAHs will be able to download "master cases" from EudraVigilance in line with the EudraVigilance Access Policy. The message type (equivalent to E2B(R2) - M.1.1) will have the code "master" to distinguish it from all other ICSR messages, which will have the message type "ichicsr" (see EU ICSR Implementation Guide, chapter I.C.3.1.1). MAHs will also be able to export from EudraVigilance the original ICSRs that have been merged under the "master case" and also any nullification to these ICSRs, where applicable (see EU ICSR Implementation Guide, chapter I.C.6.1.2). It is up to the MAH to decide if they wish to process "master cases" or not.

If the MAH does process the "master case" and it involves updating one of their own individual cases with information from the EudraVigilance master case, the MAH MUST NOT resubmit an updated version of this individual case to EudraVigilance.

⁷³ A table of master cases and associated duplicates will be made available to aid duplicate management by Sender organisations.

⁷⁴ NCAs can use the EudraVigilance Rerouting Rules Engine to update the rerouting rules to determine if they wish to receive EudraVigilance "master cases" or not. See also further guidance as outlined in EU ICSR Implementation Guide, chapter I.C.2.3 and I.C.6.1.2). The "master cases" must not be retransmitted by the NCA to EudraVigilance if there is no receipt of new information that warrants a follow-up report.

No	Step	Description	Responsible Organisation
		transmissions' (E2B(R2) A.11/E2B(R3) section C.1.9.1	
8.4	End		
9	The cases are NOT duplicates	The potential duplicates have been reviewed and are not duplicate cases	EMA
9.1	EMA to record outcome of duplicate management	The outcome of the Duplicate Detection Management process is recorded in accordance with the applicable SOP/WIN: <ul style="list-style-type: none"> 3323 SOP - Performing duplicate detection in EudraVigilance (in draft) 3324 WIN - Evaluation and management of detected potential duplicates in EudraVigilance (in draft) 	EMA
9.2	End		

2666

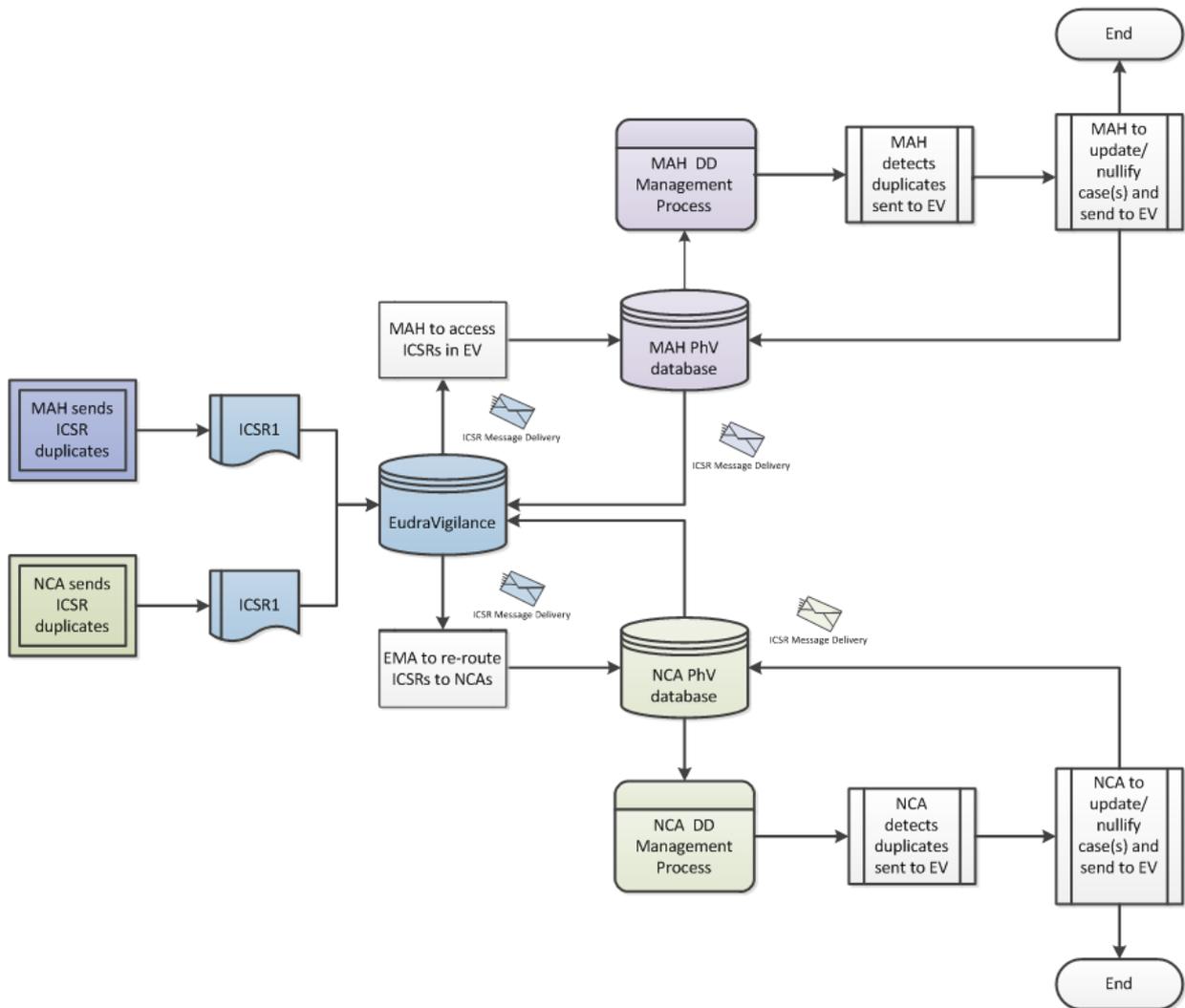
2667

2668
2669
2670

VI.App.7.3 Duplicates from same Sender Organisation – duplicates detected by the sender organisation prior to detection by the Agency in EudraVigilance

2671
2672
2673
2674

Figure VI.12. Business process map - Duplicates originating from a pharmacovigilance database of the same Sender Organisation (NCA/MAH), which were sent to EudraVigilance – Duplicates detected by the Sender Organisation prior detection by the Agency in EudraVigilance



2675
2676

2677
2678
2679

Table VI.19. Process description - Duplicates originating from a pharmacovigilance database of the same Sender Organisation (NCA/MAH) which were sent to EudraVigilance – Duplicates detected by the Sender Organisation prior detection by the Agency in EudraVigilance

No	Step	Description	Responsible Organisation
	Start	Duplicates originating from a pharmacovigilance database of the same Sender Organisation (NCA/MAH) which were sent to EudraVigilance – Duplicates detected by the Sender Organisation	
1	ICSR duplicates are sent to EudraVigilance	Duplicated ICSRs for the same individual case are sent to EudraVigilance by the same sender	Sender Organisation (NCA/MAH)
2	Re-routing of ICSRs to NCA	MAHs ICSRs are rerouted from EudraVigilance to the NCA in accordance with VI.C.4 and the rerouting principles described in the EU ICSR Implementation Guide (EMA/51938/2013)	EMA/EudraVigilance
3	Duplicate Management Process		NCA
3.1	Duplicates detected, which were sent to EudraVigilance	The NCA identifies the duplicates they sent to EudraVigilance as part of their duplicate management process	NCA
3.2	Review/update/nullify cases and send to EV	Review and update/nullify duplicated individual cases and send updated ICSRs/nullification ICSRs to EudraVigilance in line with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009)	NCA
3.3	End		
4	Duplicate Management Process		MAH
4.1	Duplicates detected, which were sent to EudraVigilance	Duplicates sent to EudraVigilance are identified as part of their duplicate management process	MAH
4.2	Review/update/nullify cases and send to EV	Review and update/nullify duplicated individual cases and send updated ICSR/nullification ICSR to EudraVigilance in line with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009)	MAH
4.3	End		

2680

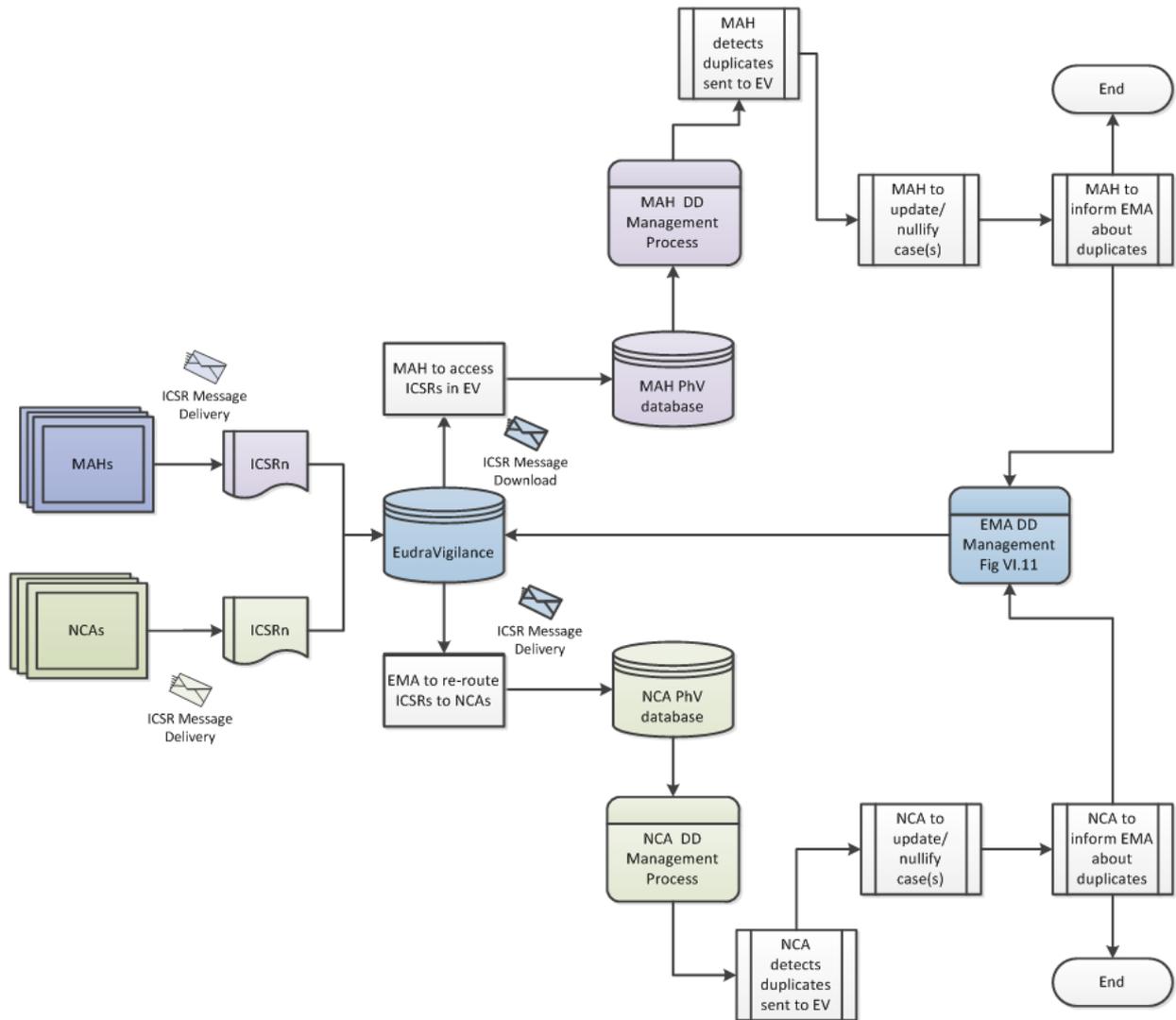
2681
2682

VI.App.7.4 Duplicates from different Sender Organisations - Duplicates detected by an Organisation prior detection by Agency in EudraVigilance

2683
2684

Figure VI.13. Business process map - Duplicates from different Sender Organisations - Duplicates detected by an Organisation prior detection by Agency in EudraVigilance

2685



2686
2687

Table VI.20. Process description - Duplicates from different Sender Organisations - Duplicates detected by an Organisation prior detection by Agency in EudraVigilance

No	Step	Description	Responsible Organisation
	Start	<p>Duplicates from different Sender Organisations - Duplicates detected by an Organisation where duplicates were previously not identified in EudraVigilance</p> <p>Example: case series described in the medical literature submitted by MAHs to EudraVigilance; these were previously reported by healthcare professionals to a NCA, which submitted the cases to EudraVigilance. Primary source identifiers or patient identifiers were masked and the duplicate detection algorithm did not identify the reports as potential duplicates</p>	
1	ICSR duplicates are sent to EudraVigilance	Duplicated ICSRs for the same individual case are sent to EudraVigilance	Sender Organisation (NCA/MAH)
2	Re-routing of ICSRs to NCA	MAHs ICSRs are rerouted from EudraVigilance to the NCA in accordance with VI.C.4 and the rerouting principles described in the EU ICSR Implementation Guide (EMA/51938/2013)	EMA/EudraVigilance
3	Duplicate Management Process		NCA
3.1	Duplicates detected, which were sent to EudraVigilance	The NCA identifies the duplicates it sent to EudraVigilance as part of its duplicate management process	NCA
3.2	Review/update/nullify cases and send to EV	Review and update/nullify individual cases and send updated ICSR/nullification ICSR to EudraVigilance in line with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009)	NCA
3.3	End		
4	Duplicate Management Process		MAH
4.1	Duplicates detected, which were sent to EudraVigilance	MAH identifies the duplicates it sent to EudraVigilance as part of its duplicate management process	MAH

No	Step	Description	Responsible Organisation
4.2	Review/update/nullify cases and send to EV	Review and update/nullify duplicated individual cases and send updated ICSR/nullification ICSR to EudraVigilance in line with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009)	MAH
4.3	End		

2690

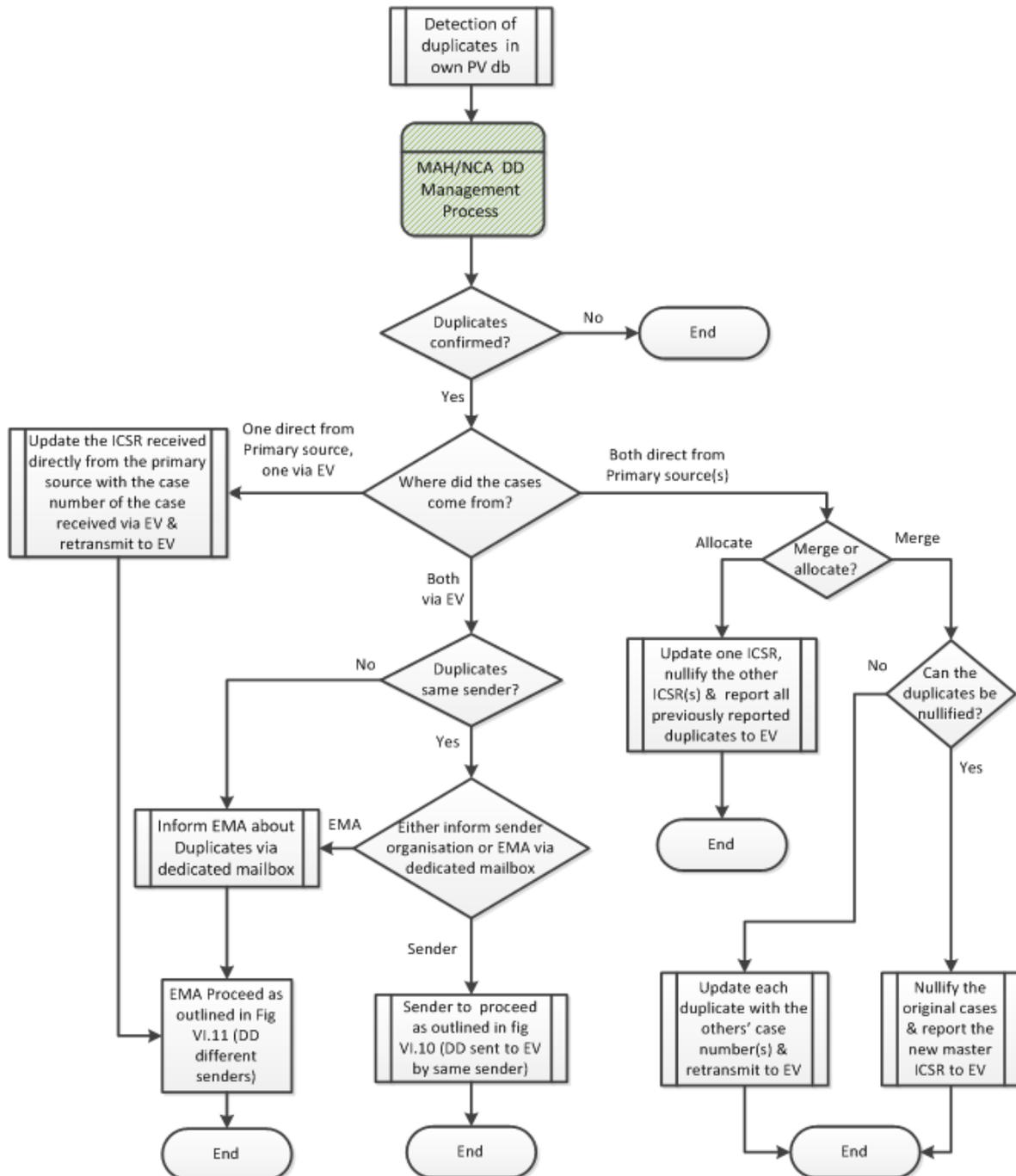
2691

2692
2693
2694

VI.App.7.5 Duplicate Detection in EudraVigilance – Collaboration between the Agency, Member States and MAHs where duplicates are first detected in a database other than EudraVigilance

2695
2696
2697

Figure VI.14. Business process map - Collaboration between the Agency, Member States and MAHs - Duplicates first detected in a database other than EudraVigilance



2698
2699

Table VI.21. Process description - Collaboration between the Agency, Member States and MAHs where duplicates are first detected in a database other than EudraVigilance

No	Step	Description	Responsible Organisation
	Start	EudraVigilance (EV) Duplicate Detection with duplicates originating from the same Sender – Duplicates identified by the Agency	
1	Duplicate Detection (DD) NOT in EudraVigilance	A duplicate detection process operating on a database other than EV detects potential duplicates. This is day zero for your process & for any updated versions that will be transmitted	MAH/NCA
2	MAH/NCA Duplicate Detection Management Process	The potential duplicates identified are reviewed in accordance with the applicable SOP/WIN	MAH/NCA
3	Are the duplicates confirmed?	Are the potential duplicates identified by the process confirmed? If Yes, proceed to 4. If No, proceed to 3.1.	MAH/NCA
3.1	End		
4	Where did the cases come from?	From where did your organisation receive the confirmed duplicate cases? If both cases came direct from a primary source or via non-EEA NCAs, proceed to 5 If both cases came via EV (either rerouted for an NCA or accessed from EV for an MAH), proceed to 6 If one case came direct from a primary source & one via EV, proceed to 7	MAH/NCA
5	Both cases came direct from primary source: MAH/NCA to administer the duplicates in accordance with internal policies	If the internal policy is to allocate one case as the master, proceed to step 5.1 If the internal policy is to merge duplicates under a master, proceed to 5.2	MAH/NCA
5.1	MAH/NCA allocates one case as the master	Update one ICSR with the case numbers & other relevant information from the other & send that to EV as follow-up. Nullify the other case &, if it was already transmitted to EV, send the nullification message to EV	MAH/NCA

No	Step	Description	Responsible Organisation
5.1.1	End		
5.2	MAH/NCA merges the duplicates under a master case	<p>Can the underlying duplicates be nullified and a nullification message sent to EV?</p> <p>If No, proceed to 5.2.1</p> <p>If Yes, proceed to 5.2.2</p>	MAH/NCA
5.2.1	The underlying duplicates cannot be nullified	<p>The Sender Organisation has to send updated ICSRs for the duplicate reports to EudraVigilance in accordance with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009).</p> <p>The updated duplicates should include the case numbers of the other duplicates and also of the master case in the report duplicates section. The master case created from the duplicates should <u>NOT</u> be sent to EV⁷⁵.</p>	MAH/NCA
5.2.2	The underlying duplicates can be nullified	<p>The Sender Organisation has to nullify the duplicate cases in their pharmacovigilance database in accordance with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009).</p> <p>The master case created from the duplicates should be sent to EV. This case should be sent as a standard ICSR & cannot be sent as message type MASTER.</p>	MAH/NCA
5.3	End		
6	Both cases were received via EV	<p>Were the duplicates transmitted to EV by the same sender organisation?</p> <p>If yes, proceed with step 6.1</p> <p>If no, proceed with step 6.2</p>	MAH/NCA
6.1	Either inform sender organisation or EMA via dedicated mailbox	<p>If you wish to inform the EMA via the dedicated mailbox proceed with step 6.2</p> <p>If you wish to inform the sender directly, proceed with step 6.3</p>	MAH/NCA
6.2	Inform EMA about duplicates via	Email duplicates@ema.europa.eu to inform them that you have detected that cases you received from	MAH/NCA

⁷⁵ Where, in certain instances based on internal duplicate management process, the recommendation provided under section 5.2.1 cannot be applied by Member States, the management of duplicates will be handled by EMA. Requests should be sent to duplicates@ema.europa.eu with the relevant worldwide case safety IDs of the duplicate cases.

No	Step	Description	Responsible Organisation
	dedicated mailbox	Eudravigilance are duplicates of one another, including the worldwide case safety IDs of the duplicate cases	
6.2.1	EMA proceed as outlined in Figure VI.11.	EMA to administer duplicates in accordance with defined duplicate management process as outlined in Figure VI.11.	EMA
6.2.2	End		
6.3	Inform sender about duplicates	Contact the sender organisation to inform them about the duplicates that they have transmitted to EV. Proceed with step 6.4	MAH/NCA
6.4	Sender to proceed as outlined in Figure VI.10.	The sender has to assess the cases and, if confirmed, either merge the cases under a master or allocate as applicable, in accordance with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009) .	Original sender organisation (MAH/NCA)
6.5	End		
7	One case came direct from a primary source & one via EV	The sender has to update the ICSR received directly from the primary source with the case number of the case received via EV & retransmit to EV. The duplicates in the sender's database should be managed in accordance with the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs) (EMA/13432/2009) . Once the updated case has been received in EV from the sender, proceed to step 6.2.1	MAH/NCA

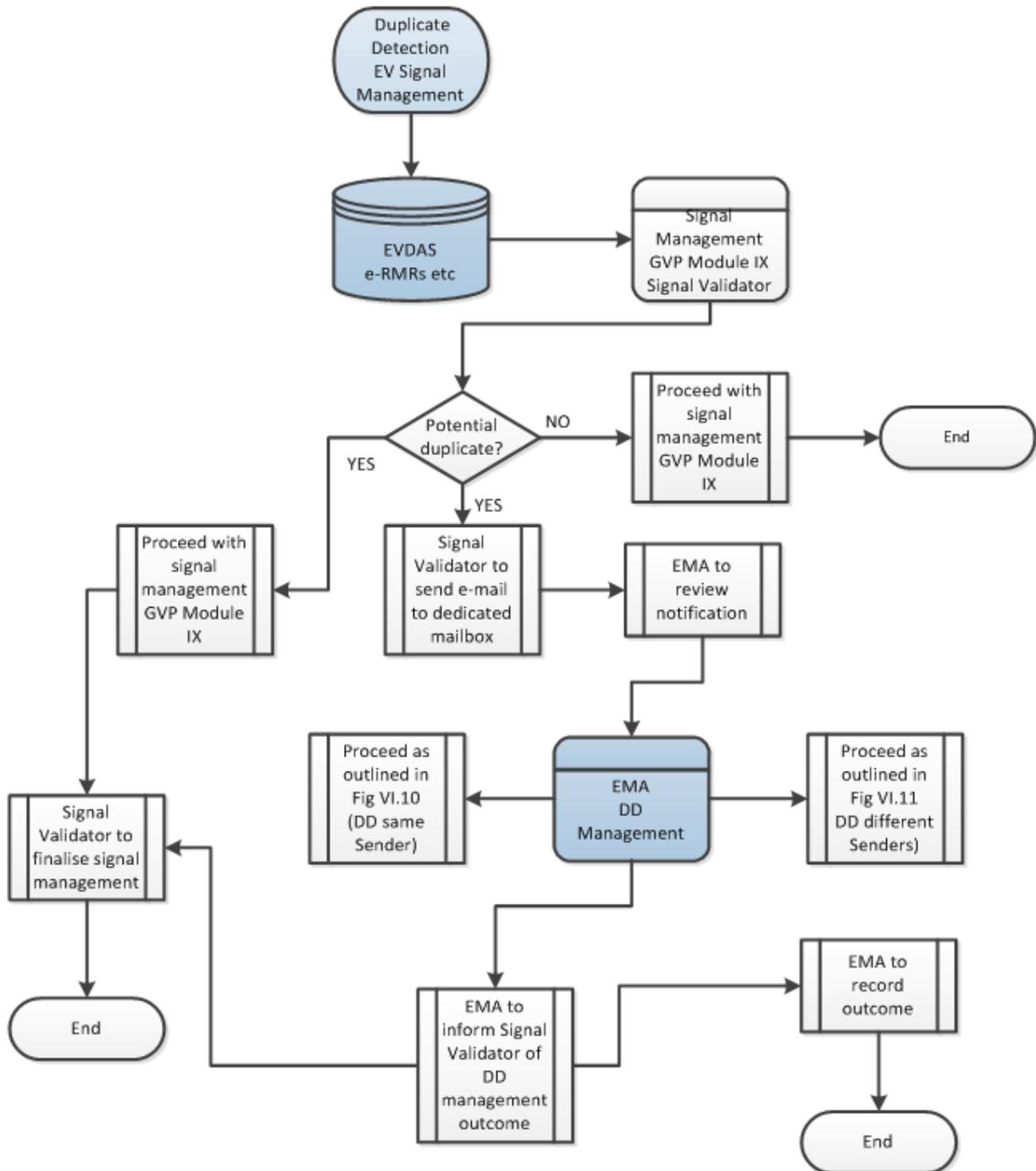
2702

2703
2704
2705

VI.App.7.6 Duplicates identified as part of signal management as outlined in GVP Module IX - Collaboration between the Agency, Member States and MAHs

2706
2707
2708

Figure VI.15. Business process map - Duplicates identified as part of signal management as outlined in GVP Module IX



2709
2710

Table VI.22. Process description - Duplicates identified as part of signal management based on EudraVigilance data as outlined in GVP Module IX

No	Step	Description	Responsible Organisation
	Start	Duplicates identified as part of signal management as outlined in GVP Module IX As part of the signal management process based on EudraVigilance data as outlined in GVP Module IX, there may be instances where a signal validator of the Agency, a Member State or a MAH may identify potential duplicates.	
1	Signal Management in line with GVP Module IX	Signals are assessed in line with GVP Module IX based on electronic Reaction Monitoring Reports (eRMRs), case line listings and individual case report forms generated by EudraVigilance (EVDAS)	Signal validator (EMA/NCA/MAH)
2	Potential duplicates?	As part of the review of the signal there may be individual cases identified that could be potential duplicates from the signal validator's perspective: If potential duplicates are identified, proceed as outlined under point 3 and point 4. If no potential duplicate are identified, proceed as outlined under point 5.	
3	Potential duplicates have been identified		
3.1	Send e-mail to dedicated mailbox	Send detail request for the verification of the duplicates to duplicate-detection@ema.europa.eu with the Worldwide Unique Case Identifier for all individual cases, which are considered as potential duplicates	Signal validator (EMA/NCA/MAH)
3.2	Review notification	EMA to review notification of potential duplicates and initiate duplicate management process If duplicates are from the same Sender organisation, proceed as outlined in Figure VI.10. If duplicates are from different Sender organisations, proceed as outlined in Figure VI.11.	EMA
3.3	Notify signal validator about the outcome of the duplicate management	Inform the Signal Validator about the outcome of the duplicate management process	EMA
	Record the outcome of the duplicate	Record the outcome of the duplicate management	EMA

No	Step	Description	Responsible Organisation
3.4	management		
3.5	End		
4	Potential duplicates have been identified		
4.1	Proceed with signal management	Proceed with the review of the signal in line with GVP Module IX	Signal validator (EMA/NCA/MAH)
4.2	Finalise signal management	Finalise signal management based on duplicate detection management feedback from EMA	Signal validator (EMA/NCA/MAH)
4.3	End		
5	No (potential) duplicates have been identified		
5.1	Proceed with signal management	Proceed with the review of the signal in line with GVP Module IX	Signal validator (EMA/NCA/MAH)
5.2	End		

2713

2714

VI. Appendix 8 Examples of assessment of case validity.

2715

Table VI.23. Examples of assessment of the validity individual reports based on reporter and patient identifiability.

2716

No.	Examples of case reports (source: Report of CIOMS Working Group V, 2001)	Validity assessment
1	<i>Dr. Isabella Queen reports that her patient, a 34 year old white male (initials A.V.) experienced hair loss after taking drug X. Dr. Queen's address and phone number are available.</i>	Valid case. Identifiable reporter and qualification. Patient's qualifying descriptors available (initials, age, gender).
2	<i>Dr. Isabella Queen reports her patient, a male, was reported to have experienced hair loss after taking drug X. Dr. Queen's phone number is available.</i>	Valid case. Identifiable reporter and qualification. Patient's qualifying descriptor available (gender).
3	<i>Dr. Feelgood reports that 2 patients were reported to have given birth, to a premature female infant in one case and a premature male infant in another, while on drug X. Dr.'s phone number and address are available.</i>	Valid case. Identifiable reporter and qualification. 2 patients with qualifying descriptors available (gender).
4	<i>Dr. Bones reports via e-mail that her patient (initials X.X.) developed a melanoma after taking drug Z. While the physician's e-mail address is available, attempts to reach her yielded no response. Address and phone number are not available.</i>	Valid case. Identifiable reporter and qualification. Patient's qualifying descriptor available (initials).
5	<i>A report from a Dr describes a patient (initials X.X.) who developed a melanoma after taking drug Z. No contact details are available regarding the reporter and the case cannot be followed-up.</i>	Non-valid case. Reporter qualification provided but no contact parameters available to allow verification of the case.
6	<i>Dr. Bones reports via e-mail that her patient developed a melanoma after taking drug X. Dr. Bone's address and phone number are not available, but she does respond by e-mail.</i>	Non-valid case. Identifiable reporter and qualification. No patient's qualifying descriptor available. Report should be followed-up.
7	<i>An employee of a drug company is at a barbecue at the house of paediatrician, Dr. Wiener, his neighbour. He hears from Dr. Wiener about his patient who developed hepatitis three weeks after one injection of the company's drug X. The employee sends a memo to the drug safety department with the</i>	Non-valid case. Identifiable reporter and qualification. No patient's qualifying descriptor available. Report should be followed-up.

No.	Examples of case reports (source: Report of CIOMS Working Group V, 2001)	Validity assessment
	<i>clinical details he remembered on the patient and also includes Dr. Wiener's address and phone number.</i>	
8	<i>Dr. Lindbergh on a commercial airplane flight from Paris to New York is seated next to an employee from a drug company. Dr. Lindbergh talks about his patient who experienced severe depression after taking the company's drug A (an oral contraceptive). The company employee, a marketing manager, reports the case to his drug safety department and provides the physician's business card.</i>	Valid case. Identifiable reporter and qualification. Patient's qualifying descriptors available (gender). Patient presumably female as suspected product is an oral contraceptive.
9	<i>The safety department of pharmaceutical company A sends to company B a report it received of a 23 year old female who developed Stevens Johnson Syndrome after taking drug A (a company A product) and drug B (a company B product). On follow-up with the reporting physician, Company A is told that their drug is not considered as a suspect causal agent. Company A sends the contact information on the identifiable physician to company B.</i>	Valid case. Identifiable reporter and qualification. Patient's qualifying descriptor available (age and gender).
10	<i>Professor Messer presents a paper at a medical convention (either orally or as a poster presentation) on a patient that developed thyroiditis after long-term therapy with Drug X. The paper is seen (or heard) by a company employee who reports it to the drug safety department.</i>	Non-valid case. Identifiable reporter and qualification. No patient's qualifying descriptor available. Report should be followed-up.
11	<i>The International Herald Tribune publishes an article describing a 5 year old patient who died after Drug Y ingestion. There is no physician mentioned and no author is listed for the article. The editor of the IHT (or, for example, a reader of the paper) forwards the article to the company.</i>	Valid case. Identifiable reporter and qualification (Editor to IHT, non-HCP). Patient's qualifying descriptor available (age).
12	<i>A company employee reads in a newspaper that several patients at Massachusetts General Hospital have given birth prematurely while taking drug X.</i>	Non-valid case. Identifiable reporter and qualification (Author of article or Journal editor, non-HCP). No patient's qualifying descriptor available. Report should be followed-up.

No.	Examples of case reports (source: Report of CIOIMS Working Group V, 2001)	Validity assessment
13	<i>Pharmacist Gene Type reports that a neighbour told him that a female taking drug Z had dyspepsia at that neighbour's house last week. Only the pharmacist's address and phone number are available. Further information is not forthcoming despite rigorous follow-up.</i>	<p>Non-valid case.</p> <p>No identifiable reporter and qualification (second hand information).</p> <p>Patient's qualifying descriptor available.</p> <p>Report should be followed-up.</p>
14	<i>Dr. NoRed Cell reports that 6 patients developed aplastic anemia while on drug X. Dr.'s address and phone number are not available, but his/ her e-mail address is given.</i>	<p>Non-valid case.</p> <p>Identifiable reporter and qualification.</p> <p>Report describing definite number of patients with no qualifying descriptor available for each patient.</p> <p>Report should be followed-up.</p>
15	<i>Dr. Onko Gene communicates to a company that 50 patients developed ovarian cancer while on drug X. The Dr.'s address, phone number and e-mail address are available, but attempts to reach her by the usual means are unsuccessful.</i>	<p>Non-valid case.</p> <p>Identifiable reporter and qualification.</p> <p>Report describing definite number of patients with no qualifying descriptor available for each patient.</p> <p>Report should be followed-up as possible.</p>

2717