



- 1 6 June 2013
- 2 EMA/873138/2011 Rev 1\*

## Guideline on good pharmacovigilance practices (GVP)

- 4 Module VI Management and reporting of adverse reactions to medicinal
- 5 products (Rev 1)

Date for coming into effect of first version	2 July 2012
Draft Revision 1* finalised by the Agency in collaboration with Member States	28 May 2013
Draft Revision 1 agreed by ERMS FG	29 May 2013
Draft Revision 1 adopted by Executive Director	6 June 2013
Released for public consultation	7 June 2013
End of consultation (deadline for comments)	5 August 2013
Revised draft Revision 1 finalised by the Agency in collaboration with Member States	
Revised draft Revision 1 agreed by ERMS FG	
Revised draft Revision 1 adopted by Executive Director as final	
Date for coming into effect of Revision 1	Q 4 2013

- <sup>\*</sup> Note: Revision 1 contains the following to address questions received from stakeholders:
- 8 Clarifications on the clock start for the reporting of valid ICSRs in VI.B.7.;
- 9 Clarifications on the reporting of suspected adverse reactions originating in post authorisation studies
- 10 in VI.C.1.2.;
- Clarifications on the handling of ICSRs when reported in an official language in VI.C.6.2.2.9.;
- 12 Clarifications on the electronic reporting for ICSRs from market research programmes in
- 13 VI.C.6.2.3.7.;
- 14 Replacements of tables highlighting interim arrangements applicable to marketing authorisation
- 15 holders in VI.App.3.1.1.;
- Revisions in VI.A.2.1.1., VI.A.2.4., VI.B.6.3., VI.C.1. and VI.C.2.2.2..

17



Comments should be provided using this <u>template</u>. The completed comments form should be sent to <u>gvp@ema.europa.eu</u>.

Note for public consultation:

18 19

20

21

- The public consultation is restricted to the yellow highlighted revised texts (i.e. replaced by new texts with deletions and additions) or deleted texts (i.e. not replaced). However, if revisions or deletions
- 22 impact or contradict other existing text, comments on such non-highlighted texts will be processed and
- taken into account for the finalisation process.

## **TABLE OF CONTENTS**

26	VI.A. Introduction	6
27	VI.A.1. Scope	6
28	VI.A.2. Definitions	6
29	VI.A.2.1. Adverse reaction	6
30	VI.A.2.1.1. Causality	6
31	VI.A.2.1.2. Overdose, off-label use, misuse, abuse, occupational exposure	7
32	VI.A.2.2. Medicinal product	7
33	VI.A.2.3. Primary source	8
34	VI.A.2.4. Seriousness	8
35	VI.A.2.5. Individual Case Safety Report (ICSR)	9
36	VI.B. Structures and Processes	. 10
37	VI.B.1. Collection of reports	10
38	VI.B.1.1. Unsolicited reports	10
39	VI.B.1.1.1. Spontaneous reports	10
40	VI.B.1.1.2. Literature reports	11
41	VI.B.1.1.3. Reports from other sources	11
42	VI.B.1.1.4. Information on suspected adverse reactions from the internet or digital media	ı. 11
43	VI.B.1.2. Solicited reports	12
44	VI.B.2. Validation of reports	
45	VI.B.3. Follow-up of reports	
46	VI.B.4. Data management	14
47	VI.B.5. Quality management	
48	VI.B.6. Special situations	16
49	VI.B.6.1. Use of a medicinal product during pregnancy or breastfeeding	16
50	VI.B.6.2. Use of a medicinal product in a paediatric or elderly population	17
51 52	VI.B.6.3. Reports of overdose, abuse, off-label use, misuse, medication error or occupation exposure	
53	VI.B.6.4. Lack of therapeutic efficacy	17
54	VI.B.7. Reporting of ICSRs	18
55	VI.B.7.1. Reporting time frames	18
56	VI.B.8. Reporting modalities	19
57	VI.C. Operation of the EU Network	. 20
58	VI.C.1. Interface with safety reporting rules for clinical trials and post authorisation studies	es
59	in the EU	
60	VI.C.1.1. Interface with clinical trials	
51	VI.C.1.2. Interface with post-authorisation studies	
52	VI.C.1.2.1. Non-interventional studies	
63	VI.C.1.2.2. Compassionate use, named patient use	
54	VI.C.2. Collection of reports	
<b>6</b> 5	VI.C.2.1. Member States responsibilities	
66	VI.C.2.2. Marketing authorisation holders responsibilities	
<b>6</b> 7	VI.C.2.2.1. Spontaneous reports	
68	VI.C.2.2.2. Solicited reports	26

69	VI.C.2.2.3. Case reports published in the scientific and medical literature	. 27
70 71	VI.C.2.2.4. Suspected adverse reactions related to quality defect or falsified medicinal products	. 28
72	VI.C.2.2.5. Suspected transmission via a medicinal product of an infectious agent	
73	VI.C.2.2.6. Emerging safety issues	
74	VI.C.2.2.7. Period between the submission of the marketing authorisation application and	
75	the granting of the marketing authorisation	
76	VI.C.2.2.8. Period after suspension, revocation or withdrawal of marketing authorisation .	. 30
77	VI.C.2.2.9. Period during a public health emergency	. 30
78	VI.C.2.2.10. Reports from class action lawsuits	. 30
79	VI.C.2.2.11. Reports from patient support programmes and market research programmes	30
80	VI.C.3. Reporting time frames	. 31
81	VI.C.4. Reporting modalities	. 31
82	VI.C.4.1. Interim arrangements	. 32
83	VI.C.4.2. Final arrangements	. 32
84 85	VI.C.5. Collaboration with the World Health Organization and the European Monitoring Centre for Drugs and Drug Addiction	. 33
86	VI.C.6. Electronic exchange of safety information in the EU	. 33
87 88	VI.C.6.1. Applicable guidelines, definitions, international formats, standards and terminologies	. 34
89	VI.C.6.2. Electronic Reporting of Individual Case Safety Reports	. 34
90	VI.C.6.2.1. EudraVigilance Database Modules	. 34
91 92	VI.C.6.2.1.1. Adverse reaction data collected in the EudraVigilance Post-Authorisation Module	35
93	VI.C.6.2.1.2. Adverse Reaction Data Collected in the EudraVigilance Clinical Trial Module.	
94	VI.C.6.2.2. Preparation of Individual Case Safety Reports	
95	VI.C.6.2.2.1. General principles	
96	VI.C.6.2.2.2. Information on suspect, interacting and concomitant medicinal products	
97	VI.C.6.2.2.3. Suspected adverse reactions	
98	VI.C.6.2.2.4. Case narrative, causality assessment and comments	
99	VI.C.6.2.2.5. Test results	
100	VI.C.6.2.2.6. Supplementary information	
101	VI.C.6.2.2.7. Follow-up information	
102	VI.C.6.2.2.8. What to take into account for data privacy laws	
103	VI.C.6.2.2.9. Handling of languages	
104	VI.C.6.2.2.10. Nullification of cases	. 42
105	VI.C.6.2.3. Special situations	. 42
106	VI.C.6.2.3.1. Use of a medicinal product during pregnancy or breastfeeding	. 42
107 108	VI.C.6.2.3.2. Suspected adverse reaction reports published in the scientific and medical literature	. 43
109	VI.C.6.2.3.3. Suspected adverse reactions related to overdose, abuse, off-label use, misus	
110	medication error or occupational exposure	. 43
111	VI.C.6.2.3.4. Lack of therapeutic efficacy	. 44
112	VI.C.6.2.3.5. Suspected adverse reactions related to quality defect or falsified medicinal	4.4
113	products	
114	VI.C.6.2.3.6. Suspected transmission via a medicinal product of an infectious agent	
115 116	VI.C.6.2.3.7. Reports originating from organised data collection systems and other system	

<ul> <li>VI.C.6.2.4. Data quality of individual case safety reports transmitted electroni duplicate management</li> <li>VI.C.6.2.5. Electronic re-transmission of ICSRs between multiple senders and</li> <li>VI.C.6.2.6. Electronic reporting through company's headquarters</li> </ul>	46 I receivers 47 48
·	48
121 VI.C.6.2.6. Electronic reporting through company's headquarters	
122 VI.C.6.3. Electronic submission of information on medicinal products	40
123 <b>VI.APPENDICES</b>	
VI.Appendix 1 Identification of biological medicinal products	
125 VI.Appendix 2 Detailed guidance on the monitoring of scientific	c and
126 medical literature	
127 VI.App2.1. When to start and stop searching in the scientific and medical liter	rature53
128 VI.App2.2. Where to look	
129 VI.App2.3. Database Searches	
130 VI.App2.3.1. Precision and recall	
131 VI.App2.3.2. Search construction	54
132 VI.App2.3.3. Selection of product terms	
133 VI.App2.3.4. Selection of search terms	
134 VI.App2.3.5. Limits to a search	55
135 VI.App2.4. Record keeping	56
136 VI.App2.5. Outputs	56
137 VI.App2.6. Review and selection of articles	56
138 VI.App2.7. Day zero	57
139 VI.App2.8. Duplicates	57
140 VI.App2.9. Contracting out Literature Search Services	57
VI.App2.10. Electronic submission of copies of articles published in the scienti	ific and medical
142 literature	57
143 VI.Appendix 3 Modalities for reporting	62
144 VI.App3.1. Interim arrangements	62
VI.App3.1.1. Interim arrangements applicable to marketing authorisation hold	ders 68
146 VI.App3.1.2. Interim arrangements applicable to competent authorities in Mer	ember States. 70
147 VI.App3.2. Final arrangements	71
VI.App3.2.1. Final arrangements applicable to marketing authorisation holders	rs 74
149 VI.App3.2.2. Final arrangements applicable to competent authorities in Memb	oer States74
150 VI.App3.3. Transmission and rerouting of ICSRs to competent authorities in M	
151	75
VI.Appendix 4 Transmission of ICSRs to World Health Organiza  153	* *
154 VI.Appendix 5 Nullification of cases	
155 VI.Appendix 6 Data quality monitoring of ICSRs transmitted ele	
156	_
VI.Appendix 7 Duplicate detection and management of ICSRs	90

### VI.A. Introduction

#### VI.A.1. Scope

160

161

- 162 This Module addresses the legal requirements detailed in Title IX of Directive 2001/83/EC [DIR] and
- 163 Chapter 3 of Regulation (EC) No 726/2004 [REG], which are applicable to competent authorities in
- 164 Member States, marketing authorisation holders and the Agency as regards the collection, data
- 165 management and reporting of suspected adverse reactions (serious and non-serious) associated with
- medicinal products for human use authorised in the European Union (EU). Recommendations regarding
- the reporting of emerging safety issues or of suspected adverse reactions occurring in special
- 168 situations are also presented in this Module. The requirements provided in Chapter IV, V and IX of the
- 169 Commission Implementing Regulation (EU) No 520/2012 [IR] shall be applied in this Module.
- 170 The guidance provided in this Module does not address the collection, management and reporting of
- events or patterns of use, which do not result in suspected adverse reactions (e.g. asymptomatic
- 172 overdose, abuse, off-label use, misuse or medication error) or which do not require to be reported as
- 173 individual case safety report or as Emerging Safety Issues. This information may however need to be
- 174 collected and presented in periodic safety update reports for the interpretation of safety data or for the
- benefit risk evaluation of medicinal products. In this aspect, guidance provided in Module VII applies.
- 176 All applicable legal requirements detailed in this Module are referenced in the way explained in the GVP
- 177 Introductory Cover Note and are usually identifiable by the modal verb "shall". Guidance for the
- implementation of legal requirements is provided using the modal verb "should".

#### 179 VI.A.2. Definitions

- The definitions provided in Article 1 of Directive 2001/83/EC shall be applied for the purpose of this
- Module; of particular relevance are those provided in this chapter. Some general principles presented
- in the ICH-E2A and ICH-E2D guidelines<sup>1</sup> should also be adhered to; they are included as well in this
- 183 chapter.

184

#### VI.A.2.1. Adverse reaction

- An adverse reaction is a response to a medicinal product which is noxious and unintended [DIR Art 1].
- 186 This includes adverse reactions which arise from:
- the use of a medicinal product within the terms of the marketing authorisation;
- the use outside the terms of the marketing authorisation, including overdose, off-label use,
   misuse, abuse and medication errors;
- occupational exposure.

#### 191 VI.A.2.1.1. Causality

- 192 In accordance with the ICH-E2A guideline, the definition of an adverse reaction implies at least a
- reasonable possibility of a causal relationship between a suspected medicinal product and an adverse
- event. An adverse reaction, in contrast to an adverse event, is characterised by the fact that a causal
- relationship between a medicinal product and an occurrence is suspected. For regulatory reporting
- 196 purposes, as detailed in the ICH-E2D quideline, if an event is spontaneously reported, even if the

<sup>&</sup>lt;sup>1</sup> http://www.ich.org/products/quidelines/efficacy/article/efficacy-quidelines.html

- 197 relationship is unknown or unstated, it meets the definition of an adverse reaction. Therefore all
- 198 spontaneous reports notified by healthcare professionals, patients or consumers are considered
- 199 suspected adverse reactions, since they convey the suspicions of the primary sources, unless the
- 200 reporters specifically state that they believe the events to be unrelated or that a causal relationship
- 201 can be excluded.
- 202 VI.A.2.1.2. Overdose, off-label use, misuse, abuse, occupational exposure
- 203 a. Overdose
- This refers to the administration of a quantity of a medicinal product given per administration or
- 205 cumulatively, which is above the maximum recommended dose according to the authorised product
- information. Clinical judgement should always be applied.
- 207 b. Off-label use
- This relates to situations where the medicinal product is intentionally used for a medical purpose not in
- accordance with the authorised product information.
- 210 *c. Misuse*
- 211 This refers to situations where the medicinal product is intentionally and inappropriately used not in
- accordance with the authorised product information.
- 213 d. Abuse
- 214 This corresponds to the persistent or sporadic, intentional excessive use of a medicinal product, which
- is accompanied by harmful physical or psychological effects [DIR Art 1].
- 216 e. Occupational exposure
- 217 This refers to the exposure to a medicinal product (as defined in [DIR Art 1]), as a result of one's
- 218 professional or non-professional occupation.
- 219 VI.A.2.2. Medicinal product
- 220 A medicinal product is characterised by any substance or combination of substances,
- presented as having properties for treating or preventing disease in human beings; or
- which may be used in or administered to human beings either with a view to restoring, correcting
- or modifying physiological functions by exerting a pharmacological, immunological or metabolic
- action, or to making a medical diagnosis [DIR Art 1].
- 225 In accordance with Article 107 of Directive 2001/83/EC, the scope of this module is not only applicable
- 226 to medicinal products authorised in the EU but also to any such medicinal products commercialised
- outside the EU by the same marketing authorisation holder (see VI.C.2.2.). Given that a medicinal
- 228 product is authorised with a defined composition, all the adverse reactions suspected to be related to
- any of the active substances being part of a medicinal product authorised in the EU should be managed
- 230 in accordance with the requirements presented in this module. This is valid independently of the
- strengths, pharmaceutical forms, routes of administration, presentations, authorised indications, or
- trade names of the medicinal product.
- The guidance provided in this Module also applies, subject to amendments where appropriate, to
- medicinal products supplied in the context of compassionate use (see VI.C.1.2.2.) as defined in Article

235 83(2) of Regulation (EC) No 726/2004. As the case may be, this guidance may also apply to named

patient use as defined under Article 5(1) of Directive 2001/83/EC.

#### VI.A.2.3. Primary source

237

258

- The primary source of the information on a suspected adverse reaction(s) is the person who reports
- the facts. Several primary sources, such as healthcare professionals and/or a consumer, may provide
- 240 information on the same case. In this situation, all the primary sources' details, including the
- qualifications, should be provided in the case report, with the "Primary source(s)" section repeated as
- 242 necessary in line with the ICH-E2B(R2) guideline<sup>2</sup>.
- 243 In accordance with the ICH-E2D guideline,
- a healthcare professional is defined as a medically-qualified person such as a physician, dentist,
   pharmacist, nurse, coroner or as otherwise specified by local regulations;
- a consumer is defined as a person who is not a healthcare professional such as a patient, lawyer, friend, relative of a patient or carer.
- 248 Medical documentations (e.g. laboratory or other test data) provided by a consumer that support the
- 249 occurrence of the suspected adverse reaction, or which indicate that an identifiable healthcare
- 250 professional suspects a reasonable possibility of causal relationship between a medicinal product and
- the reported adverse event, are sufficient to consider the spontaneous report as confirmed by a
- 252 healthcare professional.
- 253 If a consumer initially reports more than one reaction and at least one receives medical confirmation,
- the whole report should be documented as a spontaneous report confirmed by a healthcare
- 255 professional and be reported accordingly. Similarly, if a report is submitted by a medically qualified
- patient, friend, relative of the patient or carer, the case should also be considered as a spontaneous
- report confirmed by a healthcare professional.

#### VI.A.2.4. Seriousness

- 259 As described in the ICH-E2A guideline, a serious adverse reaction corresponds to any untoward
- 260 medical occurrence that at any dose results in death, is life-threatening, requires inpatient
- 261 hospitalisation or prolongation of existing hospitalisation, results in persistent or significant disability or
- incapacity, or is a congenital anomaly/birth defect.
- 263 The characteristics/consequences should be considered at the time of the reaction to determine the
- seriousness of a case. For example, life-threatening refers to a reaction in which the patient was at risk
- of death at the time of the reaction; it does not refer to a reaction that hypothetically might have
- 266 caused death if more severe.
- 267 Medical judgement should be exercised in deciding whether other situations should be considered as
- serious reactions. Some medical events may jeopardise the patient or may require an intervention to
- prevent one of the above characteristics/consequences. Such important medical events should be
- considered as serious<sup>3</sup>. The EudraVigilance Expert Working Group has co-ordinated the development of
- an important medical event (IME) terms list based on the Medical Dictionary for Regulatory Activities
- 272 (MedDRA). This IME list aims to facilitate the classification of suspected adverse reactions, the analysis
- of aggregated data and the assessment of the Individual Case Safety Reports (ICSRs) in the
- 274 framework of the day-to-day pharmacovigilance activities. The IME list is intended for guidance

.

<sup>&</sup>lt;sup>2</sup> See VI.C.6 as regards the electronic reporting of ICSRs in the EU.

<sup>&</sup>lt;sup>3</sup> Examples are provided in Section II.B of ICH E2A guideline.

purposes only and is available on the EudraVigilance web site<sup>4</sup> to stakeholders who wish to use it for their pharmacovigilance activities. It is regularly updated in line with the latest version of MedDRA.

### VI.A.2.5. Individual Case Safety Report (ICSR)

277

278

279

280 281 This refers to the format and content for the reporting of one or several suspected adverse reactions in relation to a medicinal product that occur in a single patient at a specific point of time. A valid ICSR should include at least one identifiable reporter, one single identifiable patient, at least one suspect adverse reaction and at least one suspect medicinal product.

<sup>&</sup>lt;sup>4</sup> (http://eudravigilance.ema.europa.eu/human/textforIME.asp).

#### VI.B. Structures and Processes

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

#### VI.B.1. Collection of reports

282

287

302

303

- 288 Competent authorities and marketing authorisation holders should take appropriate measures in order
- to collect and collate all reports of suspected adverse reactions associated with medicinal products for
- 290 human use originating from unsolicited or solicited sources.
- 291 For this purpose, a pharmacovigilance system should be developed to allow the acquisition of sufficient
- information for the scientific evaluation of those reports.
- 293 The system should be designed so that it helps to ensure that the collected reports are authentic,
- legible, accurate, consistent, verifiable and as complete as possible for their clinical assessment.
- 295 All notifications that contain pharmacovigilance data should be recorded and archived in compliance
- with the applicable data protection requirements (see VI.C.6.2.2.8. for EU recommendations).
- 297 The system should also be structured in a way that allows for reports of suspected adverse reactions to
- 298 be validated (see VI.B.2.) in a timely manner and exchanged between competent authorities and
- 299 marketing authorisation holders within the legal reporting time frame (see VI.B.7.1.).
- 300 In accordance with the ICH-E2D guideline, two types of safety reports are distinguished in the post-
- authorisation phase; reports originating from unsolicited sources and those reported as solicited.

#### VI.B.1.1. Unsolicited reports

#### VI.B.1.1.1. Spontaneous reports

- 304 A spontaneous report is an unsolicited communication by a healthcare professional, or consumer to a
- 305 competent authority, marketing authorisation holder or other organisation (e.g. Regional
- 306 Pharmacovigilance Centre, Poison Control Centre) that describes one or more suspected adverse
- reactions in a patient who was given one or more medicinal products and that does not derive from a
- 308 study or any organised data collection systems where adverse events reporting is actively sought, as
- 309 defined in VI.B.1.2.
- 310 Stimulated reporting that occurs consequent to a "Direct Healthcare Professional Communication",
- publication in the press, questioning of healthcare professionals by company representatives,
- 312 communication from patients' organisations to their members, or class action lawsuits should be
- 313 considered spontaneous reports.
- 314 Unsolicited consumer adverse reactions reports should be handled as spontaneous reports irrespective
- of any subsequent "medical confirmation".
- 316 The reporting modalities and applicable time frames for spontaneous reports are described in VI.B.7
- 317 and VI.B.8.

#### VI.B.1.1.2. Literature reports

318

344

350

- 319 The scientific and medical literature is a significant source of information for the monitoring of the
- 320 safety profile and of the risk-benefit balance of medicinal products, particularly in relation to the
- 321 detection of new safety signals or emerging safety issues. Marketing authorisation holders are
- 322 therefore expected to maintain awareness of possible publications through a systematic literature
- 323 review of widely used reference databases (e.g. Medline, Excerpta Medica or Embase) no less
- 324 frequently than once a week. The marketing authorisation holder should ensure that the literature
- 325 review includes the use of reference databases that contain the largest reference of articles in relation
- to the medicinal product properties<sup>5</sup>. In addition, marketing authorisation holders should have
- 327 procedures in place to monitor scientific and medical publications in local journals in countries where
- 328 medicinal products have a marketing authorisation, and to bring them to the attention of the company
- 329 safety department as appropriate.
- 330 Reports of suspected adverse reactions from the scientific and medical literature, including relevant
- 331 published abstracts from meetings and draft manuscripts, should be reviewed and assessed by
- marketing authorisation holders to identify and record ICSRs originating from spontaneous reports or
- 333 non-interventional post-authorisation studies.
- 334 If multiple medicinal products are mentioned in the publication, only those which are identified by the
- 335 publication's author(s) as having at least a possible causal relationship with the suspected adverse
- reaction should be considered by the concerned marketing authorisation holder(s).
- Valid ICSRs should be reported according to the modalities detailed in VI.B.7 and VI.B.8
- 338 One case should be created for each single patient identifiable based on characteristics provided in
- 339 VI.B.2. Relevant medical information should be provided and the publication author(s) should be
- 340 considered as the primary source(s).
- 341 EU specific requirements, as regards medicinal products and scientific and medical publications, which
- are not monitored by the Agency and for which valid ISCRs shall be reported by marketing
- authorisation holders, are provided in VI.C.2.2.3.

#### VI.B.1.1.3. Reports from other sources

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

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

- 351 Marketing authorisation holders should regularly screen internet or digital media under their
- 352 management or responsibility, for potential reports of suspected adverse reactions. In this aspect,
- digital media is considered to be company sponsored if it is owned, paid for and/or controlled by the
- marketing authorisation holder<sup>7</sup>. The frequency of the screening should allow for potential valid ICSRs
- to be reported to the competent authorities within the appropriate reporting timeframe based on the

<sup>&</sup>lt;sup>5</sup> See VI. Appendix 2. for the detailed guidance on the monitoring of medical and scientific literature.

<sup>&</sup>lt;sup>6</sup> 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.

<sup>&</sup>lt;sup>7</sup> 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.

- date the information was posted on the internet site/digital medium. Marketing authorisation holders
- may also consider utilising their websites to facilitate the collection of reports of suspected adverse
- 358 reactions (see VI.C.2.2.1.).
- 359 If a marketing authorisation holder becomes aware of a report of suspected adverse reaction described
- in any non-company sponsored digital medium, the report should be assessed to determine whether it
- 361 qualifies for reporting.
- 362 Unsolicited cases of suspected adverse reactions from the internet or digital media should be handled
- 363 as spontaneous reports. The same reporting time frames as for spontaneous reports should be applied
- 364 (see VI.B.7.).

385

386

387

388

389

390

391392

393

394

395

- 365 In relation to cases from the internet or digital media, the identifiability of the reporter refers to the
- 366 existence of a real person, that is, it is possible to verify the contact details of the reporter (e.g., an
- email address under a valid format has been provided). If the country of the primary source is missing,
- 368 the country where the information was received, or where the review took place, should be used as the
- 369 primary source country.

#### VI.B.1.2. Solicited reports

- 371 As defined in ICH-E2D guideline, solicited reports of suspected adverse reactions are those derived
- from organised data collection systems, which include clinical trials, non-interventional studies,
- 373 registries, post-approval named patient use programmes, other patient support and disease
- management programmes, surveys of patients or healthcare providers, compassionate use or name
- patient use, or information gathering on efficacy or patient compliance. Adverse reactions reports
- obtained from any of these data collection systems should not be considered spontaneous. This is with
- 377 the exception of suspected adverse reactions originating from certain compassionate use or named
- patient use where adverse events are not actively sought (see VI.C.1.2.2.).
- For the purpose of safety reporting, solicited reports should be classified as study reports, and should
- 380 have an appropriate causality assessment, to consider whether they refer to suspected adverse
- reactions and therefore meet the criteria for reporting.
- 382 General reporting rules for suspected adverse reactions occurring in organised data collection systems
- conducted in the EU under the scope of Directive 2001/83/EC, Regulation (EC) No 726/2004 or
- 384 Directive 2001/20/EC, are presented in VI.C.1.

#### VI.B.2. Validation of reports

- Only valid ICSRs qualify for reporting. All reports of suspected adverse reactions should therefore be validated before reporting them to the competent authorities to make sure that the minimum criteria for reporting are included in the reports (ICH-E2D guideline). This is:
  - One or more identifiable reporter (primary source), characterised by qualification (e.g. physician, pharmacist, other healthcare professional, lawyer, consumer or other non-healthcare professional) name, initials or address<sup>8</sup>. Whenever possible, contact details for the reporter should be recorded so that follow-up activities can be performed. However, if the reporter does not wish to provide contact details, the ICSR should still be considered as valid providing the organisation who was informed of the case was able to confirm it directly with the reporter. All parties providing case information or approached for case information should be identifiable, not only the initial reporter.

<sup>&</sup>lt;sup>8</sup> Local data privacy laws regarding patient's and reporter's identifiability might apply.

- One single identifiable patient characterised by initials, patient identification number, date of birth, age, age group or gender. The information should be as complete as possible 9.
- One or more suspected substance/medicinal product (see VI.A.2.2.).
  - One or more suspected adverse reaction (see VI.A.2.1.). If the primary source has made an explicit statement that a causal relationship between the medicinal product and the adverse event has been excluded and the receiver (competent authority or marketing authorisation holder) agrees with this, the report does not qualify as a valid ICSR since the minimum information is incomplete 10. The report does not also qualify as a valid ICSR if it is reported that the patient experienced an unspecified adverse reaction and there is no information provided on the type of adverse reaction experienced. Similarly, the report is not valid if only an outcome (or consequence) is notified and (i) no further information about the clinical circumstances is provided to consider it as a suspected adverse reaction, or (ii) the primary source has not indicated a possible causal relationship with the suspected medicinal product. For instance a marketing authorisation holder is made aware that a patient was hospitalised or died, without any further information. In this particular situation, medical judgement should always be applied in deciding whether the notified information is an adverse reaction or an event. For example, a report of sudden death would usually need to be considered as a case of suspected adverse reaction and reported.

The lack of any of these four elements means that the case is considered incomplete and does not qualify for reporting. Competent authorities and marketing authorisation holders are expected to exercise due diligence in following up the case to collect the missing data elements. Reports, for which the minimum information is incomplete, should nevertheless be recorded within the pharmacovigilance system for use in on-going safety evaluation activities. Recommendations on the electronic reporting of valid ICSRs, when missing information has been obtained, are provided in VI.C.6.2.3.8.

When collecting reports of suspected adverse reactions via the internet or digital media, the term "identifiable" refers to the possibility of verification of the existence of a reporter and a patient (see VI.B.1.1.4.).

When one party (competent authority or a marketing authorisation holder) is made aware that the primary source may also have reported the suspected adverse reaction to another concerned party, the report should still be considered as a valid ICSR. All the relevant information necessary for the detection of the duplicate case should be included in the ICSR<sup>11</sup>.

A valid case of suspected adverse reaction initially submitted by a consumer cannot be downgraded to a report of non-related adverse event if the contacted healthcare professional (nominated by the consumer for follow-up information) disagrees with the consumer's suspicion (see VI.A.2.1.1.). In this situation, the opinions of both the consumer and the healthcare professional should be included in the ICSR. Guidance on the reporting of the medical confirmation of a case, provided in ICH-E2B(R2) guideline Section A.1.14 ("Was the case medically confirmed, if not initially from a healthcare professional?"), should be followed.

For solicited reports of suspected adverse reactions (see VI.B.1.2.), where the receiver disagrees with the reasonable possibility of causal relationship between the suspected medicinal product and the adverse reaction expressed by the primary source, the case should not be downgraded to a report of non-related adverse event. The opinions of both, the primary source and the receiver, should be recorded in the ICSR.

<sup>10</sup> There is no suspected adverse reaction.

<sup>&</sup>lt;sup>9</sup> See Footnote 8.

<sup>&</sup>lt;sup>11</sup> 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) guideline.

438 The same principle applies to the ICSR seriousness criterion, which should not be downgraded from

serious to non-serious if the receiver disagrees with the seriousness reported by the primary source.

#### VI.B.3. Follow-up of reports

439

440

467

- When first received, the information in suspected adverse reactions reports may be incomplete. These
- reports should be followed-up as necessary to obtain supplementary detailed information significant for
- the scientific evaluation of the cases. This is particularly relevant for monitored events of special
- interest, prospective reports of pregnancy, cases notifying the death of a patient, cases reporting new
- risks or changes in the known risks. This is in addition to any effort to collect missing minimum
- information (see VI.B.2.). Any attempt to obtain follow-up information should be documented.
- 447 Follow-up methods should be tailored towards optimising the collection of missing information. This
- 448 should be done in ways that encourage the primary source to submit new information relevant for the
- 449 scientific evaluation of a particular safety concern. The use of targeted specific forms in the local
- 450 language should avoid requesting the primary source to repeat information already provided in the
- 451 initial report and/or to complete extensive questionnaires, which could discourage future spontaneous
- 452 reporting. Therefore, consideration should be given to pre-populating some data fields in those follow-
- up report forms to make their completion by the primary source easy.
- When information is received directly from a consumer suggesting that an adverse reaction may have
- occurred, if the information is incomplete, attempts should be made to obtain consent to contact a
- 456 nominated healthcare professional to obtain further follow-up information. When such a case, initially
- 457 reported by a consumer, has been confirmed (totally or partially) by a healthcare professional, this
- information should be clearly highlighted in the ICSR<sup>12</sup>.
- 459 For suspected adverse reactions relating to biological medicinal products, the definite identification of
- the concerned product with regard to its manufacturing is of particular importance. Therefore, all
- 461 appropriate measures should be taken to clearly identify the name of the product and the batch
- 462 number. A business process map in relation to the mandatory follow-up of information for the
- identification of suspected biological medicinal products is presented in VI. Appendix 1.
- 464 For cases related to vaccines, the recommendations provided in the Guideline on the conduct of
- Pharmacovigilance for Vaccines for Pre-and Post-exposure Prophylaxis against Infectious Diseases 13
- should also be followed as appropriate.

#### VI.B.4. Data management

- 468 Electronic data and paper reports of suspected adverse reactions should be stored and treated in the
- 469 same way as other medical records with appropriate respect for confidentiality regarding patients' and
- 470 reporters' identifiability and in accordance with local data privacy laws. Confidentiality of patients'
- 471 records including personal identifiers, if provided, should always be maintained. Identifiable personal
- details of reporting healthcare professionals should be kept in confidence. With regards to patient's and
- 473 reporter's identifiability, case report information should be transmitted between stakeholders
- 474 (marketing authorisation holders or competent authorities) in accordance with local data privacy laws
- 475 (see VI.C.6.2.2.8, for the processing of personal data in ICSRs in the EU).
- In order to ensure pharmacovigilance data security and confidentiality, strict access controls should be
- 477 applied to documents and to databases to authorised personnel only. This security extends to the

<sup>&</sup>lt;sup>12</sup> For further guidance on reporting this information, refer to ICH-E2B(R2) guideline, Section A.1.14 ("Was the case medically confirmed, if not initially from a healthcare professional?").

<sup>13</sup> (Ref.: EMEA/CHMP/PhVWP/503449/2007)

- 478 complete data path. In this aspect, procedures should be implemented to ensure security and non-
- 479 corruption of data during data transfer.
- 480 When transfer of pharmacovigilance data occurs within an organisation or between organisations
- 481 having concluded contractual agreements, the mechanism should be such that there is confidence that
- 482 all notifications are received; in that, a confirmation and/or reconciliation process should be
- 483 undertaken.

- 484 Correct data entry, including the appropriate use of terminologies, should be verified by quality
- 485 assurance auditing, either systematically or by regular random evaluation. Data entry staff should be
- instructed in the use of the terminologies, and their proficiency confirmed.
- 487 Data received from the primary source should be treated in an unbiased and unfiltered way and
- 488 inferences as well as imputations should be avoided during data entry or electronic transmission. The
- reports should include the verbatim text as used by the primary source or an accurate translation of it.
- The original verbatim text should be coded using the appropriate terminology as described in VI.B.8. In
- 491 order to ensure consistency in the coding practices, it is recommended to use, where applicable, the
- translation of the terminology in the local language to code the verbatim text.
- 493 Electronic data storage should allow traceability (audit trail) of all data entered or modified, including
- dates and sources of received data, as well as dates and destinations of transmitted data.
- 495 A procedure should be in place to account for identification and management of duplicate cases at data
- entry and during the generation of aggregated reports (see VI.C.6.2.4.).

#### VI.B.5. Quality management

- 498 Competent authorities and marketing authorisation holders should have a quality management system
- in place to ensure compliance with the necessary quality standards at every stage of case
- documentation, such as data collection, data transfer, data management, data coding, case validation,
- case evaluation, case follow-up, ICSR reporting and case archiving (see VI.C.6.2.4. and Module I).
- 502 Conformity of stored data with initial and follow-up reports should be verified by quality control
- procedures, which permit for the validation against the original data or images thereof. In this aspect,
- the source data (e.g., letters, emails, records of telephone calls that include details of an event) or an
- image of the source data should be easily accessible.
- 506 Clear written standard operating procedures should guarantee that the roles and responsibilities and
- the required tasks are clear to all parties involved and that there is provision for proper control and,
- 508 when needed, change of the system. This is equally applicable to activities that are contracted out to
- third parties, whose procedures should be reviewed to verify that they are adequate and compliant
- with applicable requirements.
- 511 Staff directly performing pharmacovigilance activities, should be appropriately trained in applicable
- 512 pharmacovigilance legislation and guidelines in addition to specific training in report processing
- activities for which they are responsible and/or undertake. Other personnel who may receive or
- process safety reports (e.g. clinical development, sales, medical information, legal, quality control)
- should be trained in adverse event collection and reporting in accordance with internal policies and
- 516 procedures.

#### VI.B.6. Special situations

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

519	a.	Pregnancy

517

518

- 520 Reports, where the embryo or foetus may have been exposed to medicinal products (either through
- maternal exposure or transmission of a medicinal product via semen following paternal exposure),
- should be followed-up in order to collect information on the outcome of the pregnancy and
- 523 development of the child after birth. The recommendations provided in the Guideline on the Exposure
- to Medicinal Products during Pregnancy: Need for Post-Authorisation Data 14 should be considered as
- regard the monitoring, collection and reporting of information in these specific situations in order to
- facilitate the scientific evaluation. When an active substance (or one of its metabolites) has a long half-
- 527 life, this should be taken into account when assessing the possibility of exposure of the embryo, if the
- 528 medicinal product was taken before conception.
- Not infrequently, pregnant women or healthcare professionals will contact either competent authorities
- or marketing authorisation holders to request information on the teratogenicity of a medicinal product
- and/or experience of use during pregnancy. Reasonable attempts should be made to obtain
- 532 information on any possible medicinal product exposure to an embryo or foetus and to follow-up on the
- 533 outcome of the pregnancy.
- Reports of exposure to medicinal products during pregnancy should contain as many detailed elements
- as possible in order to assess the causal relationships between any reported adverse events and the
- 536 exposure to the suspected medicinal product. In this context the use of standard structured
- 537 questionnaires is recommended.
- Individual cases with an abnormal outcome associated with a medicinal product following exposure
- during pregnancy are classified as serious reports and should be reported, in accordance with the
- requirements outlined in VI.B.7<sup>15</sup>.
- 541 This especially refers to:
- reports of congenital anomalies or developmental delay, in the foetus or the child;
- reports of foetal death and spontaneous abortion; and
- reports of suspected adverse reactions in the neonate that are classified as serious.
- Other cases, such as reports of induced termination of pregnancy without information on congenital
- 546 malformation, reports of pregnancy exposure without outcome data or reports which have a normal
- outcome, should not be reported since there is no suspected adverse reaction. These reports should
- 548 however be collected and discussed in the periodic safety update reports (see Module VII).
- However, in certain circumstances, reports of pregnancy exposure with no suspected reactions may
- 550 necessitate to be reported. This may be a condition of the marketing authorisation or stipulated in the
- risk management plan; for example pregnancy exposure to medicinal products contraindicated in
- 552 pregnancy or medicinal products with a special need for surveillance because of a high teratogenic
- 553 potential (e.g. thalidomide, isotretinoin).

<sup>&</sup>lt;sup>14</sup> (Ref.: <u>EMEA/CHMP/313666/2005</u>)

<sup>&</sup>lt;sup>15</sup> See VI.C.6.2.3.1 for electronic reporting recommendations in the EU.

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

567

568

582

- 557 b. Breastfeeding
- 558 Suspected adverse reactions which occur in infants following exposure to a medicinal product from
- breast milk should be reported in accordance with the criteria outlined in VI.B.7<sup>16</sup>.

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

- The collection of safety information in the paediatric or elderly population is important. Reasonable
- attempts should therefore be made to obtain and submit the age or age group of the patient when a
- case is reported by a healthcare professional, or consumer in order to be able to identify potential
- safety signals specific to a particular population.
- As regards the paediatric population, the guidance published by the Agency<sup>17</sup> on the conduct of
- pharmacovigilance in this population should be followed.

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

- For the purpose of this Module, medication error refers to any unintentional error in the prescribing,
- dispensing, or administration of a medicinal product while in the control of the healthcare professional,
- 571 patient or consumer.
- Reports of overdose, abuse, off-label use, misuse, medication error or occupational exposure with no
- associated adverse reaction should not be reported as ICSRs. They should be considered in periodic
- safety update reports as applicable. When those reports constitute safety issues impacting on the risk-
- benefit balance of the medicinal product, they should be notified to the competent authorities in
- accordance with the recommendations provided in VI.C.2.2.6.
- 577 Reports associated with suspected adverse reactions should be subject to reporting in accordance with
- the criteria outlined in VI.B.7 and with the electronic reporting requirements described in VI.C.6.2.3.3.
- 579 They should be routinely followed-up to ensure that the information is as complete as possible with
- regards to the symptoms, treatments, outcomes, context of occurrence (e.g., error in prescription,
- administration, dispensing, dosage, unauthorised indication or population, etc.).

#### VI.B.6.4. Lack of therapeutic efficacy

- Reports of lack of therapeutic efficacy should be recorded and followed-up if incomplete. They should
- not normally be reported, but should be discussed in periodic safety update reports as applicable.
- However, in certain circumstances, reports of lack of therapeutic efficacy may require to be reported
- within a 15-day time frame (see VI.C.6.2.3.4. as regards electronic reporting in the EU). Medicinal
- 587 products used in critical conditions or for the treatment of life-threatening diseases, vaccines,
- contraceptives are examples of such cases. This applies unless the reporter has specifically stated that
- the outcome was due to disease progression and was not related to the medicinal product.
- 590 Clinical judgement should be used when considering if other cases of lack of therapeutic efficacy
- 591 qualify for reporting. For example, an antibiotic used in a life-threatening situation where the medicinal

\_

<sup>&</sup>lt;sup>16</sup> See Footnote 15.

<sup>&</sup>lt;sup>17</sup> Guideline on conduct of pharmacovigilance for medicines used by the paediatric population (EMEA/CHMP/PhVWP/235910/2005- rev.1).

- 592 product was not in fact appropriate for the infective agent should not be reported. However, a life-
- threatening infection, where the lack of therapeutic efficacy appears to be due to the development of a
- newly resistant strain of a bacterium previously regarded as susceptible, should be reported within 15
- 595 days.

629

- 596 For vaccines, cases of lack of therapeutic efficacy should be reported, in particular with the view to
- 597 highlight potential signals of reduced immunogenicity in a sub-group of vaccinees, waning immunity,
- or strain replacement. With regard to the latter, it is considered that spontaneously reported cases of
- lack of therapeutic efficacy by a healthcare professional may constitute a signal of strain replacement.
- 600 Such a signal may need prompt action and further investigation through post-authorisation safety
- studies as appropriate. General guidance regarding the monitoring of vaccines failure, provided in the
- Report of CIOMS/WHO Working Group on Vaccine Pharmacovigilance<sup>18</sup>, may be followed.

#### VI.B.7. Reporting of ICSRs

- Only valid ICSRs (see VI.B.2.) should be reported. The clock for the reporting of a valid ICSR starts as
- soon as the information containing the minimum reporting criteria has been brought to the attention of
- the national or regional pharmacovigilance centre of a competent authority or of any personnel of the
- marketing authorisation holder, including medical representatives and contractors. This date should be
- considered as day zero. It is the first day when a receiver is informed of a valid ICSR, irrespective of
- whether the information is received during a weekend or public holiday. In practice this is the first
- 610 business day the receiver becomes aware of the information.
- Where the marketing authorisation holder has set up contractual arrangements with a person or an
- organisation, explicit procedures and detailed agreements should exist between the marketing
- authorisation holder and the person/organisation to ensure that the marketing authorisation holder can
- comply with the reporting obligations. These procedures should in particular specify the processes for
- 615 exchange of safety information, including timelines and regulatory reporting responsibilities and should
- avoid duplicate reporting to the competent authorities.
- For ICSRs described in the scientific and medical literature (see VI.B.1.1.2.), the clock starts (day
- 618 zero) with awareness of a publication containing the minimum information for reporting. Where
- 619 contractual arrangements are made with a person/organisation to perform literature searches and/or
- 620 report valid ICSRs, detailed agreements should exist to ensure that the marketing authorisation holder
- can comply with the reporting obligations.
- When additional significant information is received for a previously reported case, the reporting time
- 623 clock starts again for the submission of a follow-up report from the date of receipt of the relevant
- follow-up information. For the purpose of reporting, significant follow-up information corresponds to
- 625 new medical or administrative information that could impact on the assessment or management of a
- 626 case or could change its seriousness criteria; non-significant information includes updated comments
- on the case assessment or corrections of typographical errors in the previous case version. See also
- 628 VI.C.6.2.2.7 as regards the distinction between significant and non-significant follow-up information.

#### VI.B.7.1. Reporting time frames

- 630 In general, the reporting of serious valid ICSRs is required as soon as possible, but in no case later
- than 15 calendar days after initial receipt of the information by the national or regional
- 632 pharmacovigilance centre of a competent authority or by any personnel of the marketing authorisation

<sup>&</sup>lt;sup>18</sup> 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.

- 633 holder, including medical representatives and contractors. This applies to initial and follow-up
- 634 information. Where a case initially reported as serious becomes non-serious, based on new follow-up
- 635 information, this information should still be reported within 15 days; the reporting time frame for non-
- serious reports should then be applied for the subsequent follow-up reports.
- 637 Information as regards the reporting time frame of non-serious valid ICSRs in the EU is provided in
- 638 <u>VI.C.3</u>.

### VI.B.8. Reporting modalities

- Taking into account the international dimension of adverse reactions reporting and the need to achieve
- harmonisation and high quality between all involved parties, ICSRs should be submitted electronically
- as structured data with the use of controlled vocabularies for the relevant data elements where
- applicable. In this aspect, with regard to the content and format of electronic ICSRs, competent
- authorities and marketing authorisation holders should adhere to the following internationally agreed
- 645 ICH<sup>19</sup> guidelines and standards:
- ICH M1 terminology Medical Dictionary for Regulatory Activities (MedDRA);
- MedDRA Term Selection: Points to Consider Document The latest version of the ICH-endorsed
   Guide for MedDRA Users;
- ICH M2 EWG Electronic Transmission of Individual Case Safety Reports Message Specification;
- ICH E2B(R2) Maintenance of the ICH Guideline on Clinical Safety Data Management: Data Elements for Transmission of Individual Case Safety Reports;
- ICH E2B Implementation Working Group Questions & Answers (R5) (March 3, 2005);
- As technical standards evolve over time, the above referred documents may require revision and
- maintenance. In this context, the latest version of these documents should always be taken into
- 655 account.
- 656 Information regarding EU specific reporting modalities is provided in VI.C.4.

<sup>19</sup> http://www.ich.org/

### VI.C. Operation of the EU Network

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

657

666

667

# VI.C.1. Interface with safety reporting rules for clinical trials and post authorisation studies in the EU

- The pharmacovigilance rules laid down in Directive 2001/83/EC and Regulation (EC) No 726/2004 do
- 669 not apply to investigational medicinal products and non-investigational medicinal products<sup>20</sup> used in
- 670 clinical trials conducted in accordance with Directive 2001/20/EC<sup>21</sup>.
- Post-authorisation safety or efficacy studies requested by competent authorities in Member States in
- accordance with Directive 2001/83/EC or Regulation (EC) No 726/2004, or conducted voluntarily by
- 673 marketing authorisation holders, can either be clinical trials or non-interventional studies as shown in
- Figure VI.1. The safety reporting falls therefore either under the scope of Directive 2001/20/EC for any
- clinical trials or under the provisions set out in Directive 2001/83/EC and Regulation (EC) No 726/2004
- 676 for any non-interventional studies. Suspected adverse reactions should not be reported under both
- 677 regimes, that is Directive 2001/20/EC as well as Regulation (EC) No 726/2004 and Directive
- 678 2001/83/EC as this creates duplicate reports.
- 679 Further guidance on post-authorisation safety studies is provided in Module VIII.
- The different types of studies and clinical trials which can be conducted in the EU are illustrated in
- 681 Figure VI.1. The safety reporting for clinical trials corresponding to Section A, B, C and D of Figure VI.1
- 682 follows the requirements of Directive 2001/20/EC. The safety reporting for non-interventional studies
- 683 corresponding to section E and F follows the requirements of Directive 2001/83/EC and Regulation
- 684 (EC) No 726/2004. The reporting rules of solicited reports of suspected adverse reactions to the
- 685 EudraVigilance database modules are dependent on the types of organised collection systems where
- they occurred; recommendations provided in VI.C.6.2.1 should be followed.

<sup>21</sup> See [DIR Art 3(3), Art 107(1) third subparagraph].

\_

<sup>&</sup>lt;sup>20</sup> For guidance on these terms, see The rules governing medicinal product 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).

692

693

694

695

696

697

698

699

700

701 702

703

704

705

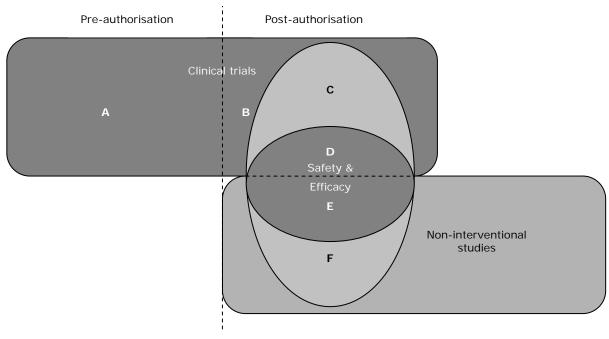
706 707

708

709

710 711

714



Section A: Clinical trials, which fall under the scope of Directive 2001/20/EC and which are conducted when no marketing authorisation exists in the EU.

Section B: Clinical trials, which fall under the scope of Directive 2001/20/EC and which are conducted in the post-authorisation period, e.g. for new indication.

Section C: Post-authorisation clinical trials conducted in accordance with the summary of product characteristics (SmPC) indication and condition of use, but which fall under the scope of Directive 2001/20/EC due to the nature of the intervention.

Section D: Post-authorisation safety or efficacy clinical trials requested in accordance with Directive 2001/83/EC or Regulation (EC) No 726/2004 or conducted voluntarily by marketing authorisation holders, but which fall under the scope of Directive 2001/20/EC due to the nature of the intervention.

Section E: Non-interventional post-authorisation safety or efficacy studies requested in accordance with Directive 2001/83/EC or Regulation (EC) No 726/2004 or conducted voluntarily by the marketing authorisation holders and which follow the same legal requirements.

Section F: Non-interventional post-authorisation studies conducted in accordance with SmPC indication and condition of use and which fall under the scope of Directive 2001/83/EC or Regulation (EC) No 726/2004.

#### VI.C.1.1. Interface with clinical trials

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

If a clinical trial, conducted under the scope of Directive 2001/20/EC, yields safety concerns which impact on the risk-benefit balance of an authorised medicinal product, the competent authorities in the

Member States where the medicinal product is authorised and the Agency should be notified

immediately in accordance with the modalities detailed in VI.C.2.2.6. This applies as well if a safety

716 concern arises from a clinical trial conducted exclusively outside the EU.

The safety data from clinical trials to be presented in the relevant sections of the periodic safety update report of the authorised medicinal product are detailed in Module VII.

- 719 Where an untoward and unintended response originating from a clinical trial conducted in accordance
- with Directive 2001/20/EC, is suspected to be related only to a non-investigational medicinal product
- 721 (or another medicinal product, which is not part of the clinical trial protocol) and does not result from a
- possible interaction with the investigational medicinal product, it does not follow the expedited
- 723 reporting requirements of Directive 2001/20/EC, which apply only to the investigational medicinal
- 724 product. The investigator or the sponsor is encouraged to report the case to the competent authority in
- 725 the Member State where the reaction occurred or to the marketing authorisation holder of the
- suspected medicinal product, but not to both to avoid duplicate reporting<sup>22</sup>. Where made aware of such
- 727 case, the competent authority or the marketing authorisation holder should apply the reporting
- 728 requirements described in VI.C.3, VI.C.4 and VI.C.6. As regards electronic reporting, the
- recommendations detailed in VI.C.6.2.3.7 should be followed.

### VI.C.1.2. Interface with post-authorisation studies

- 731 In the context of this module, post-authorisation studies are organised data collection systems which
- do not fall under the scope of the clinical trials Directive 2001/20/EC.
- They include non-interventional post-authorisation studies, compassionate use, named patient use,
- other patient support and disease management programmes, registries, surveys of patients or
- healthcare providers, and information gathering on efficacy or patient compliance. They may involve
- 736 the receipt of information on adverse events.
- Competent authorities in Member States and marketing authorisation holders should have in place a
- 738 system to collect full and comprehensive case information on adverse events that are actively sought
- 739 in post-authorisation studies and to evaluate that information in order to determine whether the
- 740 collected adverse events are possibly related to the studied (or supplied) medicinal product and should
- be classified and processed as ICSRs of suspected adverse reactions.
- 742 Different methods may be applied for assessing the causal role of a medicinal product on the reported
- 743 adverse event (e.g. WHO-UMC system for standardised case causality assessment). In this situation,
- the levels of causality, which correspond to a reasonable possibility of causal relationship, should be
- established in advance in order to determine when an adverse event is considered as an adverse
- 746 reaction.

730

- Only valid ICSRs (see VI.B.2.) of adverse reactions, which are suspected to be related to the studied
- 748 (or supplied) medicinal product by the primary source or the receiver of the case, should be reported.
- 749 They should be considered as solicited reports (with the exception of certain reports from
- 750 compassionate use or named patient use (see VI.C.1.2.2.)) and reported by marketing authorisation
- 751 holders or competent authorities in Member States in accordance with the requirements provided in
- 752 <u>VI.C.3.</u>, <u>VI.C.4.</u> and <u>VI.C.6.</u>. Other reports of adverse events should only be included in the study
- report, where applicable.

754 <u>Electronic reporting recommendations for cases originating in post-authorisation studies are detailed in</u>

- 755 VI.C.6.2.3.7.
- 756 It may happen that reports of adverse reactions are only suspected to be related to other medicinal
- 757 products which are not subject to the scope of the post-authorisation study. If there is no interaction
- 758 with the studied (or supplied) medicinal product, these reports should be notified by the primary
- source, to the competent authority in the Member State where the reaction occurred or to the

<sup>&</sup>lt;sup>22</sup> See The rules governing medicinal product in the European Union, Volume 10, <u>Detailed guidance on the collection</u>, verification and presentation of adverse event/reaction reports arising from clinical trials on medicinal products for human use ('CT-3'), (2011/C 172/01).

- 760 marketing authorisation holder of the suspected medicinal product, but not to both to avoid duplicate
- 761 reporting. Where made aware of such case, the concerned competent authorities or marketing
- authorisation holders should apply the reporting requirements described in VI.C.3 and VI.C.4 while
- respecting the electronic reporting recommendations detailed in VI.C.6.2.3.7.
- Further guidance on post-authorisation studies conducted by marketing authorisation holders is provided in VI.C.2.2.2.
- The requirements provided in this Module do not apply to an accordance sponsors, who should follow local
- 767 requirements as regards the reporting of cases of suspected adverse reactions to the competent
- 768 authority in the Member State where the reaction occurred. However, where a study is directly
- 769 financed, initiated, managed (fully or partially), or where the design is influenced by a marketing
- authorisation holder (voluntarily or pursuant to obligations imposed in accordance with Articles 21a or
- 771 22a of Directive 2001/83/EC), the marketing authorisation holder should be considered as sponsor. In
- this context, the marketing authorisation holder should fulfil the reporting requirements detailed in this
- 773 Module.

798

799

800

801

802

#### VI.C.1.2.1. Non-interventional studies

- Non-interventional studies should be distinguished between those with primary data collection directly
- 776 from healthcare professionals or consumers, and healthcare professionals, and study designs which are
- 777 based on secondary use of data such as studies based on medical chart reviews or electronic
- healthcare records, systematic reviews or meta-analyses.
- 779 For Non-interventional studies with primary data collection directly from healthcare professionals 780 or consumers, non-academic sponsors should specify in the protocol any adverse events (serious 781 or non-serious) to be actively sought and reported by healthcare professionals or consumers in the 782 course of the study <del>patients and healthcare professionals should be considered as organised data</del> 783 <del>collection systems where adverse events are actively sought</del>. Death and fatal outcomes are events 784 which need to be actively collected by sponsors unless they are presented in the protocol as 785 adverse events that will not be actively sought. The justification for this exemption should always 786 be provided, for example because they represent outcomes of the study (efficacy end point), 787 because patients included in the study have a disease with high mortality, or because occurrence 788 of death has no relation to the objective of the study (such as in a drug utilisation study). For 789 adverse events actively sought according to the protocol, only valid ICSRs (see <a href="MI.B.2.">MI.B.2.</a>) of adverse 790 reactions suspected to be related to the studied medicinal product should be reported (as solicited 791 reports) by the sponsor to the competent authorities. With regards to the electronic reporting of 792 ICSRs, the recommendations provided in VI.C.6.2.3.7. should be followed. All other serious and 793 non-serious reports of adverse events, which are not actively sought according to the protocol, 794 should only be summarised in the interim or final study report; they should not be reported as 795 ISCRs to the competent authorities. Only reports of adverse reactions suspected to be related to 796 the studied medicinal product should be reported. Reports of adverse events should only be 797 summarised in the study report, where applicable.
  - For non-interventional study designs which are based on secondary use of data, the reporting of suspected adverse reactions reporting as ICSRs is not required. Reports of adverse events/reactions should only be summarised in the interim or final study report, where applicable.
  - In case of doubt, the reporting requirement should be clarified with the concerned competent authorities in Member States.

• With regard the reporting of cases of suspected adverse reactions to local ethics committees and investigators, the national legislation should be followed as applicable.

#### VI.C.1.2.2. Compassionate use, named patient use

Where an organisation<sup>23</sup> or a healthcare professional, supplying a medicinal product under compassionate use or named patient use (see VI.A.2.2. for definitions), is notified or becomes aware of an adverse event, it should be managed as followed depending on the requirements in the concerned Member State:

- For compassionate and named patient uses where adverse events are actively sought, only reports
  of adverse reactions suspected to be related to the supplied medicinal product should be reported.
  They should be considered as solicited reports.
- For compassionate and named patient uses where the reporting of adverse events is not solicited, any notified noxious or unintended response to the supplied medicinal product should be considered as a spontaneous report of suspected adverse reaction by the receiver of the case.

#### VI.C.2. Collection of reports

#### VI.C.2.1. Member States responsibilities

Each Member State shall have in place a system for the collection and recording of unsolicited and solicited reports of suspected adverse reactions that occur in its territory and which are brought to its attention by healthcare professionals, consumers, or marketing authorisation holders<sup>24</sup> [DIR Art 101(1) and 107a(1)]. In this context, competent authorities in Member States shall establish procedures for collecting and recording all reports of suspected adverse reactions that occur in their territory [IR Art 15 (2)]. The general principles detailed in VI.B, together with the reporting modalities presented in VI.C.3, VI.C.4 and VI.C.6 should be applied to those reports. Pharmacovigilance data and documents relating to individual authorised medicinal products shall be retained as long as the product is authorised and for at least 10 years after the marketing authorisation has expired. However, the documents shall be retained for a longer period where Union law or national law so requires [IR Art 16 (2)].

Each Member State shall take all appropriate measures to encourage healthcare professionals and consumers in their territory to report suspected adverse reactions to their competent authority. In addition, the competent authority in a Member State may impose specific obligations on healthcare professionals. To this end, competent authorities in Member States shall facilitate in their territory the reporting of suspected adverse reactions by means of alternative straightforward reporting systems, accessible to healthcare professionals and consumers, in addition to web-based formats [DIR Art 102]. Information on the different ways of reporting suspected adverse reactions related to medicinal products, shall be made publicly available including by means of national medicines web-based portals [DIR 106(e)]. To increase awareness of the reporting systems, organisations representing consumers and healthcare professionals may be involved as appropriate [DIR Art 102].

Standard web-based structured forms for the reporting of suspected adverse reactions by healthcare professionals and consumers shall be developed by the Agency in collaboration with Member States in order to collect across the EU harmonised information relevant for the evaluation of suspected adverse reactions, including errors associated with the use of medicinal products [REG Art 25]. In this context,

<sup>&</sup>lt;sup>23</sup> E.g. sponsor, applicant, marketing authorisation holder, hospital or wholesaler.

<sup>&</sup>lt;sup>24</sup> 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.

- core data fields for reporting will be made available by the Agency to the competent authorities in
- 844 Member States for use in their national reporting systems as applicable.
- The reports of suspected adverse reactions received from healthcare professionals and consumers
- should be acknowledged where appropriate and further information should be provided to the reporters
- as requested and when available.
- 848 For reports submitted by a marketing authorisation holder, Member States on whose territory the
- 849 suspected adverse reaction occurred may involve the marketing authorisation holder in the follow-up
- of the reports [DIR Art 107a(2)].
- 851 Each Member State shall ensure that the competent authority responsible for medicinal products within
- 852 that Member State is informed of any suspected adverse reaction, brought to the attention of any
- other authority, body, institution or organisation responsible for patient safety within that Member
- State, and that valid ICSRs are made available to the EudraVigilance database. Therefore, where
- 855 reports of suspected adverse reactions are sent directly to other authorities, bodies, organisations
- 856 and/or institutions within a Member State, the competent authority in that Member State shall have
- data exchange agreements in place so that these reports are brought to its attention and are made
- 858 available to EudraVigilance in a timely manner[DIR Art 107a(5)]. This applies as well to reports of
- 859 suspected adverse reactions arising from an error associated with the use of a medicinal product.
- 860 Those error reports of suspected adverse reactions for which a competent authority in a Member
- 861 State is made aware of, including those received from the EudraVigilance database in accordance with
- Article 24(4) of Regulation (EC) No 726/2004, shall also be brought to the attention of other
- 863 authorities, bodies, organisations and/or institutions responsible for patient safety within that Member
- 864 State [DIR Art 107a(5)].

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

#### VI.C.2.2. Marketing authorisation holders responsibilities

- 869 Each marketing authorisation holder shall have in place a system for the collection and recording of all
- 870 reports of suspected adverse reactions which are brought to its attention, whether reported
- spontaneously by healthcare professionals or consumers or occurring in the context of a post-
- authorisation study [DIR Art 104(1), Art 107(1)]. Marketing authorisation holders shall not refuse to
- 873 consider reports of suspected adverse reactions received electronically or by any other
- appropriate means from patients and healthcare professionals [Art 107(2)]. All those reports shall
- be accessible at a single point within the Union [Dir Art 107(1)].
- 876 Marketing authorisation holders shall establish mechanisms enabling the traceability and follow-up of
- adverse reaction reports while complying with the data protection legislation [IR Art 12 (1)].
- 878 Pharmacovigilance data and documents relating to individual authorised medicinal products shall be
- retained as long as the product is authorised and for at least 10 years after the marketing
- authorisation has ceased to exist. However, the documents shall be retained for a longer period where
- Union law or national law so requires [IR Art 12 (2)].
- With regard to the collection and recording of reports of suspected adverse reactions, marketing
- authorisation holders responsibilities apply to reports related to medicinal products (see VI.A.2.2.) for
- which ownership cannot be excluded on the basis of one the following criteria: medicinal product
- name, active substance name, pharmaceutical form, batch number or route of administration.
- 886 Exclusion based on the primary source country or country of origin of the adverse reaction is possible if

887 the marketing authorisation holder can demonstrate that the suspected medicinal product has never

888 been supplied or placed on the market in that territory or that the product is not a travel medicine

- 889 (e.g., anti-malarial medicinal product).
- 890 The marketing authorisation holder shall ensure that any information on adverse reactions, suspected
- to be related to at least one of the active substances of its medicinal products authorised in the EU, is 891
- 892 brought to its attention by any company outside the EU belonging to the same mother company (or
- group of companies) <sup>25</sup>. The same applies to the marketing authorisation holder when having 893
- 894 concluded a commercial agreement with a company outside the EU for one of its medicinal product
- authorised in the EU. The clock for reporting (see VI.B.7.) starts when a valid ICSR is first received by 895
- 896 one of these companies outside the EU.
- 897 In addition to the requirements presented in this chapter, the general principles detailed in Section
- 898 VI.B., together with the reporting modalities presented in VI.C.3., VI.C.4. and VI.C.6. should be
- 899 applied by marketing authorisation holders to all reports of suspected adverse reactions.

#### VI.C.2.2.1. Spontaneous reports

900

908

- 901 Marketing authorisation holders shall record all reports of suspected adverse reactions originating from
- 902 within or outside the EU, which are brought to their attention spontaneously by healthcare
- 903 professionals, or consumers. This includes reports of suspected adverse reactions received
- 904 electronically or by any other appropriate means [DIR Art 107(1), Art 107(2)]. In this context,
- 905 marketing authorisation holders may consider utilising their websites to facilitate the collection of
- 906 reports of suspected adverse reactions by providing adverse reactions forms for reporting, or
- 907 appropriate contact details for direct communication (see VI.B.1.1.4.).

#### VI.C.2.2.2. Solicited reports

- 909 In accordance with Art 107(1) of Directive 2001/83/EC, marketing authorisation holders shall record all
- 910 reports of suspected adverse reactions originating from within or outside the EU, which occur in post-
- authorisation studies, initiated, managed, or financed by them<sup>26</sup>. General guidance on post-911
- authorisation studies is provided in VI.C.1.2.. Electronic reporting recommendations for cases 912
- 913 originating in post-authorisation studies are detailed in VI.C.6.2.3.7.
- 914 For post authorisation studies solicited reports, marketing authorisation holders should have
- 915 mechanisms in place to collect full and comprehensive case information and to evaluate that
- 916 information, in order to allow meaningful assessment of individual cases and reporting of valid ICSRs
- 917 (see VI.B.2.) related to the studied (or supplied) medicinal product. Marketing authorisation holders
- 918 should therefore exercise due diligence in establishing such system, in following-up those reports (see
- 919 VI.B.3.) and in seeking the view of the primary source as regard the causal role of the studied (or
- 920 supplied) medicinal product on the notified adverse event. Where this opinion is missing, the
- 921 marketing authorisation holder should exercise its own judgement based on the information available
- 922 in order to decide whether the report is a valid ICSR, which should be reported to the competent
- 923 authorities. This does not apply to study designs based on secondary use of data for which reporting of
- 924 ICSRs is not required (see VI.C.1.2.1.).
- 925 Safety data to be presented in the relevant sections of the periodic safety update report of the
- 926 authorised medicinal product are detailed in Module VII.

products (98/C 229/03).

26 This does not concern donation of a medicinal product for research purpose if the marketing authorisation holder has no

<sup>&</sup>lt;sup>25</sup> As outlined in the Commission communication on the Community marketing authorization procedures for medicinal

- 928 General principles in relation to the monitoring for individual cases of suspected adverse reactions
- described in the scientific and medical literature are provided in VI.B.1.1.2. As regards the screening
- of the scientific and medical literature, the requirements provided in this Module are part of the wider
- 931 literature searches which need to be conducted for periodic safety update reports (see Module VII).
- 932 In accordance with Article 107(3) of Directive 2001/83/EC, in order to avoid the reporting of duplicate
- 933 ICSRs, marketing authorisation holders shall only report those ICSRs described in the scientific and
- 934 medical literature which is not reviewed by the Agency, for all medicinal products containing active
- 935 substances which are not included in the list monitored by the Agency pursuant to Article 27 of
- Regulation (EC) No 726/2004. Until such lists of scientific and medical literature and active substance
- 937 names are published by the Agency, marketing authorisation holders should monitor all the active
- 938 substances for which they hold a marketing authorisation in the EU by accessing a widely used
- 939 systematic literature review and reference database, in line with the principles detailed in VI.B.1.1.2.
- 940 and in VI. Appendix 2

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

946

947

948

949

950

951

952

953

954

955 956

957

958

959

- Where ownership of the medicinal product by the marketing authorisation holder can be excluded on the basis of the criteria detailed in VI.C.2.2.;
- For individual case safety reports identified in the scientific and medical literature that originate in a country where a company holds a marketing authorisation but has never commercialised the medicinal product;
  - For literature ICSRs which are based on an analysis from a competent authority database within the EU. The reporting requirements remain for those ICSRs which are based on the analysis from a competent authority database outside the EU;
  - For literature articles, which present data analyses from publicly available databases or, which summarise results from post-authorisation studies (see VI.C.1.2.). This type of literature article describes adverse reactions, which occur in a group of patients with a designated medicinal product with the aim of identifying or quantifying a safety hazard related to a medicinal product, and aggregated data on patients are often presented in tables or line listings. The main objective of those studies is to detect/evaluate specific risks that could affect the overall risk-benefit balance of a medicinal product.
- New and significant safety findings presented in these articles, for which reporting is not required, should however be discussed in the relevant sections of the concerned periodic safety update report (see Module VII) and analysed as regards their overall impact on the medicinal product risk-benefit profile. In addition, any new safety information, which may impact on the risk-benefit profile of a medicinal product, should be notified immediately to the competent authorities in Member States where the medicinal product is authorised and to the Agency in accordance with the recommendations provided in VI.C.2.2.6.
- A detailed guidance on the monitoring of the scientific and medical literature has been developed in accordance with Article 27(3) of Regulation (EC) No 726/2004; it is included in VI. Appendix 2.

The electronic reporting recommendations regarding suspected adverse reactions reports published in

971 the scientific and medical literature are provided in VI.C.6.2.3.2.

## 972 VI.C.2.2.4. Suspected adverse reactions related to quality defect or falsified medicinal

973 products

986

- 974 When a report of suspected adverse reactions is associated with a suspected or confirmed falsified
- medicinal product or quality defect of a medicinal product, a valid ICSR should be reported. The
- 976 seriousness of the ICSR is linked to the seriousness of the reported suspected adverse reactions in
- accordance with the definitions provided in VI.A.2.4. Electronic reporting recommendations provided
- 978 in VI.C.6.2.3.5. should be followed.
- In addition in order to protect public health, it may become necessary to implement urgent measures
- such as the recall of one or more defective batch(es) of a medicinal product from the market.
- Therefore, marketing authorisation holders should have a system in place to ensure that reports of
- 982 suspected adverse reactions related to falsified medicinal products or to quality defects of a medicinal
- 983 products are investigated in a timely fashion and that confirmed quality defects are notified separately
- to the manufacturer and to competent authorities in accordance with the provisions described in Article
- 985 13 of <u>Directive 2003/94/EC</u>.

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

- For the purposes of reporting, any suspected transmission of an infectious agent via a medicinal
- product should be considered as a serious adverse reaction and such cases should be reported within
- 989 15 days in accordance with the requirements outlined in VI.C.4. 27. If no other criterion is applicable,
- the seriousness of this ICSR should be considered as important medical event (see VI.A.2.4.). This also
- applies to vaccines. Electronic reporting recommendations provided in VI.C.6.2.3.6. should be followed.
- In the case of medicinal products derived from human blood or human plasma, haemovigilance
- procedures may also apply in accordance with <u>Directive 2002/98/EC</u>. Therefore the marketing
- 994 authorisation holder should have a system in place to communicate suspected transmission via a
- 995 medicinal product of an infectious agent to the manufacturer, the relevant blood establishment(s) and
- 996 national competent authorities in Member States.
- 997 Any organism, virus or infectious particle (e.g. prion protein transmitting Transmissible Spongiform
- 998 Encephalopathy), pathogenic or non-pathogenic, is considered an infectious agent.
- A transmission of an infectious agent may be suspected from clinical signs or symptoms, or laboratory
- 1000 findings indicating an infection in a patient exposed to a medicinal product.
- 1001 Emphasis should be on the detection of infections/infectious agents known to be potentially
- transmitted via a medicinal product, but the occurrence of unknown agents should also always be
- 1003 considered.
- 1004 In the context of evaluating a suspected transmission of an infectious agent via a medicinal product,
- 1005 care should be taken to discriminate, whenever possible, between the cause (e.g., injection/
- administration) and the source (e.g., contamination) of the infection and the clinical conditions of the
- patient at the time of the infection (immuno-suppressed /vaccinee).
- 1008 Confirmation of contamination (including inadequate inactivation/attenuation of infectious agents as
- active substances) of the concerned medicinal product increases the evidence for transmission of an

<sup>&</sup>lt;sup>27</sup> See VI.C.6.2.3.6. for electronic reporting recommendations.

- 1010 infectious agent and may therefore be suggestive of a quality defect for which the procedures detailed
- in VI.C.2.2.4. should be applied.

- 1012 Medicinal products should comply with the recommendations provided in the Note for Guidance on
- 1013 Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and
- 1014 Veterinary Products<sup>28</sup>. For advanced therapy medicinal products, Article 14(5) of Regulation (EC) No
- 1015 1394/2007 and the Guideline on Safety and Efficacy Follow-up Risk Management of Advanced
- 1016 Therapy Medicinal Products<sup>29</sup>, should also be followed as appropriate.

#### VI.C.2.2.6. Emerging safety issues

- 1018 Events may occur, which do not fall within the definition of reportable valid ICSRs, and thus are not
- subject to the reporting requirements, even though they may lead to changes in the known risk-benefit
- 1020 balance of a medicinal product and/or impact on public health. Examples include:
- major safety findings from a newly completed non-clinical study;
- major safety concerns identified in the course of a non-interventional post-authorisation study or of a clinical trial;
- signal of a possible teratogen effect or of significant hazard to public health;
- safety issues published in the scientific and medical literature;
- safety issues arising from the signal detection activity (see Module IX) or emerging from a new
   ICSR and which impact on the risk-benefit balance of the medicinal product and/or have
   implications for public health;
- safety issues related to the use outside the terms of the marketing authorisation;
- safety issues due to misinformation in the product information;
- marketing authorisation withdrawal, non-renewal, revocation or suspension outside the EU for safety-related reasons;
- urgent safety restrictions outside the EU;
- safety issues in relation to the supply of raw material;
- lack of supply of medicines.
- These events/observations, which may affect the risk-benefit balance of a medicinal product, are not to
- be submitted as ICSRs. They should be notified as Emerging Safety Issues in writing to the competent
- authorities in Member States where the medicinal product is authorised and to the Agency via email
- 1039 (P-PV-emerging-safety-issue@ema.europa.eu); this should be done immediately when becoming
- 1040 aware of them. The document should indicate the points of concern and the actions proposed in
- relation to the marketing application/authorisation for the concerned medicinal product. Those safety
- 1042 issues should also be analysed in the relevant sections of the periodic safety update report of the
- authorised medicinal product.

# VI.C.2.2.7. Period between the submission of the marketing authorisation application and the granting of the marketing authorisation

In the period between the submission of the marketing authorisation application and the granting of the marketing authorisation, information (quality, non-clinical, clinical) that could impact on the risk-

٠

1044

<sup>&</sup>lt;sup>28</sup> Latest revision. (Ref.: <u>EMA/410/01</u>).

<sup>&</sup>lt;sup>29</sup> (Ref.: <u>EMEA/149995/2008</u>)

- 1048 benefit balance of the medicinal product under evaluation may become available to the applicant<sup>30</sup>. It is the responsibility of the applicant to ensure that this information is immediately submitted in 1049 1050 accordance with the modalities described in VI.C.2.2.6. to the competent authorities in the Member 1051 States where the application is under assessment (including Reference Member State and all concerned Member States for products assessed under the mutual recognition or decentralised 1052 1053 procedures) and to the Agency. For applications under the centralised procedure, the information 1054 should also be provided to the (Co-) Rapporteur. 1055 In the situation where a medicinal product application is under evaluation in the EU while it has already 1056 been authorised in a third country, valid ICSRs from outside the EU, originating from unsolicited 1057 reports (see VI.B.1.1.) or solicited reports (see VI.B.1.2.), should be reported in accordance with the
  - VI.C.2.2.8. Period after suspension, revocation or withdrawal of marketing authorisation
- The marketing authorisation holder shall continue to collect any reports of suspected adverse reactions related to the concerned medicinal product following the suspension of a marketing authorisation. The reporting requirements outlined in VI.C.4. remain.
- Where a marketing authorisation is withdrawn or revoked, the former marketing authorisation holder is encouraged to continue to collect spontaneous reports of suspected adverse reactions originating within the EU to for example facilitate the review of delayed onset adverse reactions or of retrospectively notified cases.
  - VI.C.2.2.9. Period during a public health emergency

requirements provided in VI.C.3., VI.C.4. and VI.C.6..

1058

1059

1067

1072

1083

- A public health emergency is a public health threat duly recognised either by the World Health

  Organization (WHO) or the Community in the framework of <u>Decision No. 2119/98/EC</u> of the European

  Parliament and of the Council. In the event of a public health emergency, regular reporting

  requirements may be amended. Such arrangements will be considered on a case-by-case basis and will
- 1073 VI.C.2.2.10. Reports from class action lawsuits

be appropriately notified on the Agency website.

- Stimulated reports arising from class action lawsuits should be managed as spontaneous reports. Valid ICSRs should describe adverse reactions related to the concerned medicinal product. They should be reported in accordance with the time frames and modalities described in VI.C.3., VI.C.4. and VI.C.6.
- Where large batches of potential ICSRs are received, marketing authorisation holders may request, in exceptional circumstances, for an exemption in order to submit serious cases of suspected adverse reactions within 30 days from their date of receipt instead of 15 days. The 90 days reporting time frame for non-serious ICSRs remains unchanged. It will be possible to apply for this exemption only once the functionalities of the EudraVigilance database specified in Article 24(2) of Regulation (EC) No 726/2004 are established. The request should be made to the Agency Pharmacovigilance Department.
  - VI.C.2.2.11. Reports from patient support programmes and market research programmes
- A patient support programme is an organised system where a marketing authorisation holder receives and collects information relating to the use of its medicinal products. Examples are post-authorisation

<sup>&</sup>lt;sup>30</sup> See also Chapter 1, Section 5.1.1 of Volume 2A (Notice to Applicants) of The Rules Governing Medicinal Products in the Furgpean Union

- patient support and disease management programmes, surveys of patients and healthcare providers,
- information gathering on patient compliance, or compensation/re-imbursement schemes.
- 1088 A market research programme refers to the systematic collection, recording and analysis by a
- 1089 marketing authorisation holder of data and findings about its medicinal products, relevant for
- marketing and business development.
- 1091 Safety reports originating from those programmes should be considered as solicited reports. Marketing
- 1092 authorisation holders should have the same mechanisms in place as for all other solicited reports (see
- 1093 VI.C.2.2.2.) to manage that information and report valid cases of adverse reactions, which are
- suspected to be related to the concerned medicinal product.
- 1095 Valid ICSRs should be reported as solicited in accordance with the electronic reporting requirements
- 1096 provided in VI.C.6.2.3.7.

1106

#### VI.C.3. Reporting time frames

- The general rules in relation to the reporting of initial and follow-up reports, including those for
- defining the clock start are detailed in VI.B.7.
- 1100 According to Articles 107(3) and 107a(4) of Directive 2001/83/EC,
- serious valid ICSRs shall be reported 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 reported by competent authorities in Member States or by marketing authorisation holders within 90 days from the date of receipt of the reports.
- 1105 This should be done in accordance with the reporting modalities detailed in VI.C.4.

#### VI.C.4. Reporting modalities

- 1107 In addition to the recommendations provided in VI.B.8., competent authorities in Member States and
- marketing authorisation holders shall use the formats, standards and terminologies for the electronic
- 1109 transmission of suspected adverse reactions as referred to in Chapter IV of the Commission
- 1110 Implementing Regulation (EU) No 520/2012. ICSRs shall be used for reporting to the Eudravigilance
- 1111 database suspected adverse reactions to a medicinal product that occur in a single patient at a specific
- point in time [IR Art 27]. Competent authorities in Member States and marketing authorisation holders
- shall also ensure that all reported electronic ICSRs are well documented and as complete as possible in
- accordance with the requirements provided in [IR Art 28].
- 1115 The time frames for reporting serious and non-serious valid ICSRs are provided in VI.C.3. The
- recommendations provided in VI.C.6. should be adhered to as regards the electronic exchange of
- 1117 pharmacovigilance information between competent authorities in Member States, marketing
- 1118 authorisation holders and the Agency.
- 1119 ICSRs reported electronically to the EudraVigilance database will be made accessible to stakeholders
- 1120 such as competent authorities, healthcare professionals, consumers, as well as marketing authorisation
- 1121 holders and research organisations in accordance with Article 24(2) of Regulation (EC) No 726/2004
- and the EudraVigilance access policy<sup>31</sup>. This policy defines the overall principles of the provision of
- access to EudraVigilance data in line with the current legal framework, while guaranteeing personal
- 1124 data protection. As detailed in the EudraVigilance access policy, a selection of ICSRs could be

<sup>&</sup>lt;sup>31</sup> EudraVigilance Access Policy for Medicines for Human Use (EMA/759287/2009).

- downloaded by marketing authorisation holders in ICH E2B format and in accordance with the ICH M2
- message specifications, to facilitate their pharmacovigilance activities.

#### 1127 VI.C.4.1. Interim arrangements

- 1128 In accordance with the provisions set out in Article 2(4), Article 2(5) and Article 2(6) of Directive
- 1129 2010/84/EU, until the Agency can ensure the functionalities of the EudraVigilance database as
- 1130 specified in Article 24(2) of Regulation (EC) No 726/2004, the following reporting requirements shall
- 1131 apply to valid unsolicited and solicited ICSRs reported by healthcare professionals and non-healthcare
- 1132 professionals. This is independently of the condition of use of the suspected medicinal product and of
- the expectedness of the adverse reaction.

#### a. Serious ICSRs

1134

1146

1155

1162

- Marketing authorisation holders shall report all serious ICSRs that occur in the EU to the competent authority of the Member State on whose territory the suspected adverse reactions occurred.
- Marketing authorisation holders shall report to the EudraVigilance database all serious ICSRs that occur outside the EU, including those received from competent authorities. If required by Member States, those reports shall also be submitted to the competent authorities in the Member States in which the medicinal product is authorised.
- Competent authorities in Member States shall ensure that all serious ICSRs that occur in their territory and that are reported to them, including those received from marketing authorisation holders, are made available to the EudraVigilance database. Competent authorities in Member States should also make available, to the marketing authorisation holders of the suspected medicinal products, all serious ICSRs reported directly to them.

#### b. Non-Serious ICSRs

- If required by Member States, marketing authorisation holders shall report all non-serious ICSRs that occur in the EU to the competent authority of the Member State on whose territory the suspected adverse reactions occurred.
- 1150 Overviews of the reporting requirements of serious and non-serious reports during the interim period,
- 1151 applicable to marketing authorisation holders or competent authorities in Member States, are
- presented in VI. Appendix 3.1, together with a detailed business process map.
- 1153 Member States reporting requirements for serious non-EU ICSRs and for non-serious EU ICSRs are also
- included in this Appendix.

#### VI.C.4.2. Final arrangements

- 1156 Once the functionalities of the EudraVigilance database specified in Article 24(2) of Regulation (EC) No
- 1157 726/2004 are established, the following requirements, detailed in Articles 107(3) and 107a(4) of
- Directive 2001/83/EC, shall apply within 6 months of the announcement by the Agency to valid
- unsolicited and solicited ICSRs reported by healthcare professionals and non-healthcare professionals.
- 1160 This is independently of the condition of use of the suspected medicinal product and of the
- 1161 expectedness of the adverse reaction.

#### a. Serious ICSRs

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

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

#### b. Non-Serious ICSRs

1168

1180 1181

1195

- Marketing authorisation holders shall submit all non-serious ICSRs that occur in the EU to the
   EudraVigilance database only.
- Competent authorities in Member States shall submit all non-serious ICSRs that occur in their territory to the EudraVigilance database.
- 1173 Overviews of the reporting requirements of serious and non-serious reports, applicable to marketing
- 1174 authorisation holders or competent authorities in Member States once the final arrangements are
- implemented, are presented in VI. Appendix 3.2, together with a detailed business process map.
- 1176 In accordance with the requirement detailed in Article 24(4) of Regulation (EC) No 726/2004 for the
- 1177 final arrangements, the ICSRs submitted to the EudraVigilance database by marketing authorisation
- 1178 holders shall be automatically transmitted upon receipt, to the competent authority of the Member
- 1179 State where the reaction occurred. A detailed business process map is included in VI. Appendix 3.3.

# VI.C.5. Collaboration with the World Health Organization and the European Monitoring Centre for Drugs and Drug Addiction

- 1182 The Agency shall make available to the WHO Collaborating Centre for International Drug Monitoring all
- 1183 suspected adverse reaction reports occurring in the EU [REG Art 28c(1)]. This will take place on a
- weekly basis after their transmission to the EudraVigilance database by competent authorities in
- 1185 Member States or marketing authorisation holders. It will replace the requirements of Member States
- 1186 participating in the WHO Programme for International Drug Monitoring to directly report to WHO
- suspected adverse reactions reports occurring in their territory. This will be implemented once the
- 1188 functionalities of the EudraVigilance database specified in Article 24(2) of Regulation (EC) No 726/2004
- 1189 are established.
- 1190 A detailed business process map for the reporting of ICSRs, from the EudraVigilance database to the
- 1191 WHO Collaborating Centre for International Drug Monitoring, is presented in VI. Appendix 4.
- 1192 The Agency and the European Monitoring Centre for Drugs and Drug Addiction shall also exchange
- 1193 information that they receive on the abuse of medicinal products including information related to illicit
- 1194 drugs [REG Art 28c(2)].

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

- Part VI.C.6 highlights the requirements, as defined in Articles 24(1) and 24(3) of Regulation (EC) No
- 1197 726/2004, for the establishment and maintenance of the European database and data processing
- 1198 network (the EudraVigilance database) in order to collate and share pharmacovigilance information
- 1199 electronically between competent authorities in Member States, marketing authorisation holders and
- the Agency, in ways which ensure the quality and integrity of the data collected.
- 1201 The information provided here is relevant for the electronic exchange of ICSRs in the EU between all
- 1202 stakeholders and for the electronic submission of information on medicinal products to the Agency.

## 1203 VI.C.6.1. Applicable guidelines, definitions, international formats,

#### 1204 standards and terminologies

- For the classification, retrieval, presentation, risk-benefit evaluation and assessment, electronic
- 1206 exchange and communication of pharmacovigilance and medicinal product information, Member
- 1207 States, marketing authorisation holders and the Agency shall adhere to the legal requirements
- 1208 provided in Chapter IV of the Commission Implementing Regulation (EU) No 520/2012.
- 1209 In addition the following guidelines should be applied:
- Note for guidance EudraVigilance Human Processing of Safety Messages and Individual Case
   Safety Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2) (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);
- 1215 The ICH guidelines detailed in VI.B.8.;
- The ICH-M5 guideline 'Routes of Administration Controlled Vocabulary' (CHMP/ICH/175860/2005), which provides standard terms for routes of administration;
- 1218 The latest version of these documents should always be considered.

#### VI.C.6.2. Electronic Reporting of Individual Case Safety Reports

- 1220 The reporting of valid ICSRs electronically, by competent authorities in Member States and marketing
- authorisation holders, is mandatory for all medicinal products authorised in the EU [DIR Art 107(3), Art
- 1222 107a(4)]. Non-adherence to this requirement constitutes a non-compliance with EU legislation.
- 1223 Responsibilities in case of communication failure (including adherence to compliance for reporting) are
- 1224 detailed in Chapter IV of the Note for Guidance on the Electronic Data Interchange (EDI) of Individual
- 1225 Case Safety Reports (ICSRs) and Medicinal Product Reports (MPRs) in Pharmacovigilance during the
- 1226 Pre- and Post-authorisation Phase in the European Economic Area (EEA) (EMEA/115735/2004).
- 1227 Technical tools (EVWEB) have been made available by the Agency to interested electronic data
- 1228 interchange partners, including small and medium-sized enterprises, to facilitate compliance with the
- 1229 electronic reporting requirements as defined in EU legislation. Information is available on
- 1230 EudraVigilance website<sup>32</sup>.

#### 1231 VI.C.6.2.1. EudraVigilance Database Modules

- 1232 Two modules are available in the EudraVigilance database to address the collection of reports of
- 1233 suspected adverse reactions related to medicinal products for human use, in accordance with EU
- 1234 legislation:

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

http://eudravigilance.ema.europa.eu

#### 1239 VI.C.6.2.1.1. Adverse reaction data collected in the EudraVigilance Post-Authorisation

- 1240 Module
- The adverse reaction reports collected in the EudraVigilance Post-Authorisation Module (EVPM) refer to 1241
- 1242 unsolicited reports and solicited reports which do not fall under the scope of the Clinical Trials Directive
- 2001/20/EC (see VI.C.1.). The ICSRs should be submitted with the value 'EVHUMAN' in the data 1243
- 1244 element 'Message receiver identifier' (ICH M2 M.1.6).
- 1245 Depending on their type, these ICSRs should be classified with one of the following options, in
- 1246 accordance with the EudraVigilance business rules<sup>33</sup>:
- Data element 'Type of report' (ICH-E2B(R2) A.1.4): 1247
- 1248 spontaneous report;
- 1249 other;
- 1250 not available to sender (unknown); or
- report from study. 1251
- 1252 In addition, when the value in the data element ICH-E2B(R2) A.1.4 is 'Report from study', the data
- 1253 element 'Study type in which the reaction(s)/event(s) were observed' (ICH-E2B(R2) A.2.3.3)
- should be populated with: 1254
- 1255 individual patient use, e.g. compassionate use or named-patient basis, or
- 1256 other studies, e.g. pharmacoepidemiology, pharmacoeconomics, intensive monitoring, PMS,
- 1257 etc.

#### 1258 VI.C.6.2.1.2. Adverse Reaction Data Collected in the EudraVigilance Clinical Trial Module

- 1259 Only cases of Suspected Unexpected Serious Adverse Reactions (SUSARs), related to investigational
- 1260 medicinal products studied in clinical trials which fall under the scope of Directive 2001/20/EC (see
- 1261 VI.C.1.), should be reported by the sponsor to the EudraVigilance Clinical Trial Module (EVCTM). The
- requirements provided in Chapter II of EudraLex Volume 10 of The Rules Governing Medicinal Products 1262
- 1263 in the European Union should be applied. The ICSRs should be submitted with the value 'EVCTMPROD'
- in the data element 'Message receiver identifier' (ICH M2 M.1.6) and should be classified as followed, 1264
- 1265 in accordance with the EudraVigilance business rules<sup>34</sup>:
- data element 'Type of report' (ICH-E2B(R2) A.1.4): 1266
- 1267 report from study; and
- data element 'Study type in which the reaction(s)/event(s) were observed' (ICH-E2B(R2) A.2.3.3): 1268
- 1269 clinical trials.

#### 1270 VI.C.6.2.2. Preparation of Individual Case Safety Reports

#### 1271 VI.C.6.2.2.1. General principles

- 1272 The content of each valid ICSR transmitted electronically between all stakeholders should comply with
- 1273 the legal requirements and guidelines detailed in the Commission Implementing Regulation (EU) No
- 1274 520/2012 and in VI.C.6.1., particularly:

<sup>33</sup> Note for guidance - EudraVigilance Human - Processing of Safety Messages and Individual Case Safety Reports (ICSRs) (<u>EMA/H/20665/04/Final Rev. 2</u>). <sup>34</sup> See Footnote 33.

- the requirements provided in Chapter IV and V of the Commission Implementing Regulation (EU)
   No 520/2012;
- the latest version of the ICH-endorsed guide for MedDRA users MedDRA Term Selection: Points to Consider Document:
- the EudraVigilance business rules for the electronic transmission of ICSRs detailed in the Note for
   guidance EudraVigilance Human Processing of Safety Messages and Individual Case Safety
   Reports (ICSRs) (EMA/H/20665/04/Final Rev. 2).
- 1282 It is recognised that it is often difficult to obtain all the details on a specific case. However, the
- 1283 complete information (medical and administrative data) for a valid ICSR that is available to the sender
- should be reported in a structured manner in the relevant ICH-E2B(R2) data elements (which should
- 1285 be repeated as necessary when multiple information is available) and in the narrative section (see
- 1286 <u>VI.C.6.2.2.4.</u>). This applies to all types of ICSRs, such as reports with initial information on the case,
- follow-up information and cases highlighted for nullification<sup>35</sup>.
- 1288 In the situation where it is evident that the sender has not transmitted the complete information
- available on the case, the receiver may request the sender to re-transmit the ICSR within 24 hours
- 1290 with the complete case information in electronic format in accordance with the requirements applicable
- 1291 for the electronic reporting of ICSRs. This should be seen in the light of the qualitative signal detection
- 1292 and evaluation activity, where it is important for the receiver to have all the available information on a
- case to perform the medical assessment (see VI.C.6.2.4.).
- 1294 Where the suspected adverse reactions reported in a single ICSR impact on the known risk-benefit
- 1295 balance of a medicinal product, this should be considered as an Emerging Safety Issue (see
- 1296 VI.C.2.2.6.), which should be immediately notified in writing to the competent authorities of the
- Member States where the medicinal product is authorised and to the Agency. This is in addition to the
- reporting requirements detailed in VI.C.4. A summary of the points of concerns and the action
- 1299 proposed should be recorded in the ICSR in data element 'Sender's comments' (ICH-E2B(R2) B.5.4).

#### 1300 VI.C.6.2.2.2. Information on suspect, interacting and concomitant medicinal products

- 1301 The suspect, interacting and/or concomitant active substances/invented names of the reported
- medicinal products should be provided in accordance with [IR Art 28 (3) (g) to (i)], the ICH-E2B(R2)
- 1303 guideline and the EudraVigilance business rules.
- 1304 The characterisation of medicinal products as suspect, interacting or concomitant is based on the
- information provided by primary source.
- 1306 For combination medicinal products, which contain more than one active substance, each active
- 1307 substance needs to be reflected individually in the data element 'Active substance name(s)' (ICH
- 1308 E2B(R2) B.4.k.2.2), which needs to be repeated for each active substance contained in the
- 1309 combination medicinal product.
- 1310 When the primary source reports a suspect or interacting branded/proprietary medicinal product name
- 1311 without indicating the active substance(s) of the medicinal product and where the proprietary
- 1312 medicinal product can be one of two or more possible generics, which have a different composition
- depending on the country where the medicinal product is marketed, the ICSR should be populated as
- 1314 follows:

1315

1316

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

<sup>&</sup>lt;sup>35</sup> See also VI.C.6.2.2.10. on nullification of individual cases.

- data element 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) 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.
- 1320 However if the information is available on:
- the 'Identification of the country where the drug was obtained' (data element ICH E2B(R2) B.4.k.2.3),
- the 'Authorization/application number' (data element ICH-E2B(R2) B.4.k.4.1),
- the 'Country of authorization/application' (data element ICH-E2B(R2) B.4.k.4.2), and/or
- the 'Batch/lot number' (data element ICH-E2B(R2) B.4.k.3),
- the composition with regard the active substance(s) of the proprietary medicinal product should be provided accordingly.
- 1328 Where the primary source reports a suspect or interacting branded/proprietary medicinal product name
- 1329 without indicating the pharmaceutical form/presentation of the product and where the
- 1330 proprietary/branded medicinal product can be one of two or more possible pharmaceutical
- forms/presentations, which have different compositions in a country, the ICSR should be populated as
- 1332 follows:
- data element 'Proprietary medicinal product name' (ICH-E2B(R2) B.4.k.2.1) should be populated with the medicinal product name as reported by the primary source;
- data element 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) should be completed with those
   active substances which are in common to all pharmaceutical forms/presentations in the country of
   authorisation.
- 1338 Where medicinal products cannot be described on the basis of the active substances or the invented
- 1339 names, for example when only the therapeutic class is reported by the primary source, or in case of
- other administered therapies that cannot be structured, this information should only be reflected in the
- case narrative (data element ICH-E2B(R2) B.5.1). The data elements 'Proprietary medicinal product
- name' (ICH-E2B(R2) B.4.k.2.1) and 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) should not be
- populated. The same applies if a suspected food interaction is reported (e.g. to grapefruit juice).
- Where a case of adverse reactions is reported to be related only to a therapeutic class, it is considered
- incomplete and does not qualify for reporting (see VI.B.2.). Efforts should be made to follow-up the
- 1346 case in order to collect the missing information regarding the suspected medicinal product (see
- 1347 VI.B.3.).
- 1348 As regards the reporting of drug interactions, which concerns drug/drug (including biological products),
- 1349 drug/food, drug/device, and drug/alcohol interactions, the coding of the interaction should be
- 1350 performed in Section 'Reactions/Events' (ICH-E2B(R2) B.2) in line with the latest version of the ICH-
- 1351 Endorsed Guide for MedDRA Users MedDRA Term Selection: Points to Consider Document. In
- addition, for drug/drug interactions, information on the active substances/proprietary medicinal
- product names should be provided in the Section 'Drug information' (ICH-E2B(R2) B.4), which should
- 1354 be characterised as interacting in the data element 'Characterisation of drug role' (ICH-E2B(R2)
- 1355 B.4.k.1).
- 1356 If the primary source suspects a possible causal role of one of the ingredients (e.g., excipient or
- 1357 adjuvant) of the suspected medicinal product, this information should be provided in the Section 'Drug
- information' (ICH-E2B(R2) B.4) as a separate entry in addition to the information given regarding the
- suspected medicinal product. This should also be specified in the case narrative (data element ICH-

- 1360 E2B(R2) B.5.1). If available, tests results (positive or negative) in relation to the causal role of the
- 1361 suspected ingredient should be included in the section 'Results of tests and procedures relevant to the
- investigation of the patient' (ICH E2B(R2) B.3).

#### VI.C.6.2.2.3. Suspected adverse reactions

- 1364 All available information as described in [IR Art 28 (3) (j)] shall be provided for each individual case.
- 1365 The coding of diagnoses and provisional diagnoses with signs and symptoms in the data element
- 1366 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1) should be
- 1367 performed in line with the latest version of the ICH-Endorsed Guide for MedDRA Users, MedDRA Term
- 1368 Selection: Points to Consider.

1363

- 1369 In practice, if a diagnosis is reported with characteristic signs and symptoms, the preferred option is to
- 1370 select a term for the diagnosis only and to MedDRA code it in the ICH-E2B(R2) section B.2
- 1371 'Reaction(s)/event(s)'. If no diagnosis is provided, all reported signs and symptoms should be listed
- and MedDRA coded in the ICH-E2B(R2) section B.2 'Reaction(s)/event(s)'. If these signs and
- 1373 symptoms are typically part of a diagnosis, the diagnosis can be MedDRA coded in addition by
- 1374 competent authorities in Member States or marketing authorisation holders in the ICH-E2B(R2) data
- 1375 element B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event'.
- 1376 If in the narrative other events have been reported, which are not typically signs or symptoms of the
- 1377 primary source's diagnosis or provisional diagnosis, and those events are suspected to be adverse
- 1378 reactions, they should also be listed and MedDRA coded in the ICH-E2B(R2) section B.2
- 1379 'Reaction(s)/event(s)'.
- 1380 In case a competent authority in a Member State or a marketing authorisation holder disagrees with
- the diagnosis reported by the primary source, an alternative diagnosis can be provided in the ICH-
- 1382 E2B(R2) data element B.5.3 'Sender's diagnosis/syndrome and/or reclassification of reaction/event' in
- 1383 addition to the reported diagnosis provided in the ICH-E2B(R2) section B.2 'Reaction(s)/event(s)'. In
- this situation, a reasoning should be included in the data element 'Sender's comments' (ICH-E2B(R2)
- 1385 B.5.4) (see VI.C.6.2.2.4.).
- 1386 In the event of death of the patient, the date, cause of death including autopsy-determined causes
- 1387 shall be provided as available [IR 28 (3) (I)]. If the death is unrelated to the reported suspected
- adverse reaction(s) and is linked for example to disease progression, the seriousness criterion of the
- 1389 ICSR should not be considered as fatal; the recommendation provided in the EudraVigilance Business
- 1390 Rules should be followed.

1391

#### VI.C.6.2.2.4. Case narrative, causality assessment and comments

- 1392 In accordance with [IR Art 28 (3) (m)], a case narrative (data element ICH-E2B(R2) B.5.1) shall be
- provided, where possible 36, for all cases with the exception of non-serious cases. The information shall
- 1394 be presented in a logical time sequence, in the chronology of the patient's experience including clinical
- 1395 course, therapeutic measures, outcome and follow-up information obtained. Any relevant autopsy or
- post-mortem findings shall also be summarised.
- The narrative should be presented in line with the recommendations described in Chapter 5.2 of the
- 1398 ICH-E2D guideline. In this aspect, it should serve as a comprehensive, stand-alone "medical report"
- 1399 containing all known relevant clinical and related information, including patient characteristics, therapy
- 1400 details, medical history, clinical course of the event(s), diagnosis, adverse reactions and their

Guideline on good pharmacovigilance practices (GVP) – Module VI (Rev 1) EMA/873138/2011 Rev 1

<sup>&</sup>lt;sup>36</sup> 'Where possible' should be interpreted as having received sufficient information from the primary source to prepare a concise clinical summary of the individual case.

- 1401 outcomes, relevant laboratory evidence (including normal ranges) and any other information that
- supports or refutes the suspected adverse reactions. An example of a standard narrative template is
- available in the Report of the CIOMS Working Group V<sup>37</sup>.
- 1404 The information provided in the narrative should be consistent with the data appropriately reflected in
- all the other relevant ICH-E2B(R2) data elements of the ICSR.
- During the interim arrangements (see VI.C.4.1.), the case narratives included in the ICSRs submitted
- 1407 to the competent authorities in Member States by marketing authorisation holders, should not be
- 1408 modified or deleted when the ICSRs are forwarded to the EudraVigilance database by the competent
- 1409 authorities.
- 1410 Where available, comments from the primary source on the diagnosis, causality assessment or other
- relevant issue, should be provided in the data element 'Reporter's comments' (ICH-E2B(R2) B.5.2).
- 1412 Competent authorities in Member States and marketing authorisation holders may provide an
- assessment of the case and describe a disagreement with, and/or alternatives to the diagnoses given
- by the primary source (see VI.C.6.2.2.3.). This should be done in the data element 'Sender's
- 1415 comments' (ICH-E2B(R2) B.5.4), where discrepancies or confusions in the information notified by the
- 1416 primary source may also be highlighted. Where applicable, a summary of the points of concerns and
- 1417 actions proposed should also be included in the data element 'Sender's comments' (ICH-E2B(R2))
- 1418 B.5.4), if the ICSR leads to notification of an Emerging Safety Issue (see VI.C.2.2.6.). The degree of
- 1419 suspected relatedness of each medicinal product to the adverse reaction(s) may be indicated in the
- data element 'Relatedness of drug to reaction(s)/event(s)' (ICH-E2B(R2) B.4.k.18), which should be
- repeated as necessary. This also allows presenting the degree of relatedness from different sources or
- 1422 with different methods of assessment.

#### 1423 VI.C.6.2.2.5. Test results

- Results of tests and procedures relevant to the investigation of the patient shall be provided [IR Art 28]
- 1425 (3) (k)].
- 1426 As described in the ICH-E2B(R2) guideline, the section B.3 'Results of tests and procedures relevant to
- 1427 the investigation of the patient' should capture the tests and procedures performed to diagnose or
- 1428 confirm the reaction/event, including those tests done to investigate (exclude) a non-drug cause, (e.g.,
- serologic tests for infectious hepatitis in suspected drug-induced hepatitis). Both positive and negative
- results should be reported.
- 1431 The coding of investigations should be performed in line with the latest version of the ICH-Endorsed
- Guide for MedDRA Users, MedDRA Term Selection: Points to Consider. If it is not possible to provide
- information on tests and test results in a structured manner, provisions have been made to allow for
- the transmission of the information as free text in the data element ICH-E2B(R2) B.3.2. 'Results of
- 1435 tests and procedures relevant to the investigation'.

#### VI.C.6.2.2.6. Supplementary information

- 1437 Key information from supplementary records should be provided in the relevant section of the ICSR,
- and their availability should be mentioned in the data element 'List of documents held by sender' (ICH-
- 1439 E2B(R2) A.1.8.2).

1436

<sup>37</sup> Council for International Organizations of Medical Sciences (CIOMS). Current Challenges in Pharmacovigilance: Pragmatic Approaches (CIOMS V). Geneva: CIOMS; 2001. <a href="http://www.cioms.ch/">http://www.cioms.ch/</a>.

- 1440 Other known case identifiers relevant for the detection of duplicates should be presented
- 1441 systematically in the data element 'Other case identifiers in previous transmissions' (ICH-E2B(R2)
- 1442 A.1.11).

#### 1443 VI.C.6.2.2.7. Follow-up information

- 1444 ICSRs are sent at different times to multiple receivers. Therefore the initial/follow-up status is
- dependent upon the receiver. For this reason an item to capture follow-up status is not included in the
- 1446 ICH-E2B(R2) data elements. However, the data element 'Date of receipt of the most recent information
- for this report' (ICH-E2B(R2) A.1.7) taken together with the data element 'Sender identifier' (ICH
- 1448 E2B(R2) A.3.1.2) and the data element 'Sender's (case) report unique identifier' (ICH-E2B(R2)
- 1449 A.1.0.1) provide a mechanism for each receiver to identify whether the report being transmitted is an
- 1450 initial or a follow-up report. For this reason these items are considered critical for each transmission
- and a precise date should always be used (i.e. day, month, year). The data element 'Date of receipt of
- the most recent information for this report' (ICH-E2B(R2) A.1.7) should therefore always be updated
- each time a follow-up information is received by a competent authority or a marketing authorisation
- holder, independently whether the follow-up information received is significant enough to be reported.
- The data element 'Date report was first received from the source' (ICH-E2B(R2) A.1.6) should remain
- 1456 unchanged to the date the competent authority or the marketing authorisation holder became aware of
- 1457 the initial report.
- 1458 New information should be clearly identifiable in the case narrative (data element ICH-E2B(R2) B.5.1)
- and provided in a structured format in the applicable ICH-E2B(R2) data elements.
- 1460 Competent authorities in Member States or marketing authorisation holders should report follow-up
- 1461 information if significant new medical information has been received. Significant new information
- 1462 relates to for example new suspected adverse reaction(s), a change in the causality assessment and
- any new or updated information on the case that impacts on its medical interpretation. Therefore, the
- 1464 identification of significant new information requiring to be reported always necessitates medical
- 1465 judgement.
- 1466 Situations where the seriousness criteria and/or the causality assessment are downgraded (e.g. follow-
- 1467 up information leads to a change of the seriousness criteria from serious to non-serious; causality
- assessment is changed <u>from related</u> to non-related) should also be considered as significant changes
- and thus reported (see VI.B.7.1. for reporting time frames).
- 1470 In addition, competent authorities in Member States or marketing authorisation holders should also
- 1471 report follow-up information, where new administrative information is available, that could impact on
- the case management; for example, if new case identifiers have become known to the sender, which
- 1473 may have been used in previous transmissions (data element 'Other case identifiers in previous
- 1474 transmissions' (ICH-E2B(R2) A.1.11)). This information may be specifically relevant to manage
- 1475 potential duplicates. Another example refers to data element 'Additional available documents held by
- sender' (ICH-E2B(R2) A.1.8), whereby new documents that have become available to the sender may
- be relevant for the medical assessment of the case.
- 1478 In contrast, a follow-up report which contains non-significant information does not require to be
- reported. This may refer, for example, to minor changes to some dates in the case with no implication
- 1480 for the evaluation or transmission of the case, or corrections of typographical errors in the previous
- 1481 case version. Medical judgement should be applied since a change to the birth date may constitute a
- 1482 significant modification (e.g. with implications on the age information of the patient). Similarly, a
- change of the status of a MedDRA code/term from current to non-current, due to a version change of
- MedDRA, can be considered as a non-significant change as long as this change has no impact on the

- medical content of a case. However, an amendment of the MedDRA coding due to a change in the
- interpretation of a previously reported suspected adverse reaction may constitute a significant change
- and therefore should be reported.
- 1488 In situations where the case is modified without impacting on its medical evaluation, while no new
- 1489 follow-up is received (e.g., for correcting a mistake or typographical error), the date of receipt of the
- most recent information reported in the data element 'Date of receipt of the most recent information
- for this report' (ICH-E2B(R2) A.1.7 ) should not be changed. This data element should however be
- 1492 updated in any other situations, to the date when new follow-up information is received (independently
- 1493 whether it is significant or not) or to the date when changes are made which impact on the
- 1494 interpretation of the case.
- 1495 Where follow-up information of a case initially reported by a marketing authorisation holder is received
- 1496 directly by a competent authority, the 'Worldwide unique case identification number' (ICH-E2B(R2)
- 1497 A.1.10) of the initial report should be maintained, in adherence with the ICH-E2B(R2) rules. The same
- 1498 principle should be applied if a follow-up is received by a marketing authorisation holder of a case
- initially reported by a competent authority.

#### VI.C.6.2.2.8. What to take into account for data privacy laws

- To detect, assess, understand and prevent adverse reactions and to identify, and take actions to
- reduce the risks of, and increase the benefits from medicinal products for the purpose of safeguarding
- public health, the processing of personal data within the EudraVigilance database is possible while
- respecting EU legislation in relation to data protection (Directive 95/46/EC, Regulation (EC) No
- 1505 45/2001).

1500

- 1506 Where in accordance with applicable national legislation, information related to personal data cannot
- 1507 be transferred to the EudraVigilance database, pseudonymisation may be applied by competent
- authorities in Member States and by marketing authorisation holders, thereby replacing identifiable
- personal data such as name and address with pseudonyms or key codes, for example in accordance
- 1510 with the ISO Technical Specification DD ISO/TS 25237: 2008, Health informatics Pseudonymization
- 1511 [IR Recital 17]. The application of pseudonymisation will facilitate the ability of the EudraVigilance
- 1512 system to adequately support case processing and detect duplicates. This should however be done
- 1513 without impairing the information flow in the EudraVigilance database and the interpretation and
- 1514 evaluation of safety data relevant for the protection of public health; given the high-level nature of the
- information, data elements such as patient's age, age group and gender should in principle be kept un-
- 1516 redacted/visible.

1517

#### VI.C.6.2.2.9. Handling of languages

- 1518 The ICH-E2B(R2) concept for the electronic reporting of ICSRs is based on the fact that structured and
- 1519 coded information is used for data outputs of pharmacovigilance systems (e.g. listings) and for signal
- 1520 detection. However, for scientific case assessment and signal evaluation, the medical summary
- 1521 provided in the data element 'Case narrative including clinical course, therapeutic measures, outcome
- and additional relevant information' (ICH-E2B(R2) B.5.1) is normally required (see VI.6.2.2.4.).
- 1523 Where suspected adverse reactions are reported by the primary source in narrative and textual
- 1524 descriptions in an official language of the Union other than English, the original verbatim text and the
- summary thereof in English shall be provided by the marketing authorisation holder<sup>38</sup>. Member States

<sup>&</sup>lt;sup>38</sup> 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.

- 1526 may report case narratives in their official language(s). For those reports, case translations shall be
- provided when requested by the Agency or other Member States for the evaluation of potential signals.
- 1528 For suspected adverse reactions originating outside the EU, English shall be used in the ICSR [IR 28
- 1529 (4)].

1562

1563

1564 1565

- 1530 Additional documents held by the sender, which may be only available in a local language, should only
- be translated if requested by the receiver.

#### VI.C.6.2.2.10. Nullification of cases

- 1533 In line with the ICH-E2B(R2) guideline, the nullification of individual cases should be used to indicate
- that a previously transmitted report should be considered completely void (nullified), for example when
- 1535 the whole case was found to be erroneous or in case of duplicate reports. It is essential to use the
- 1536 same case report numbers previously submitted in the data element 'Sender's (case) safety report
- 1537 unique identifier' (ICH-E2B(R2) A.1.0.1) and in the data element 'Worldwide unique case identification
- 1538 number' (ICH-E2B(R2) A.1.10).
- 1539 A nullified case is one that should no longer be considered for scientific evaluation. The process of the
- 1540 nullification of a case is by means of a notification by the sender to the receiver that this is no longer a
- 1541 valid case. However, the case should be retained in the sender's pharmacovigilance database for
- 1542 auditing purposes.
- The principles to be considered when nullifying a case are detailed in VI. Appendix 5.
- 1544 VI.C.6.2.3. Special situations
- 1545 VI.C.6.2.3.1. Use of a medicinal product during pregnancy or breastfeeding
- 1546 General recommendations are provided in VI.B.6.1.
- With regard to the electronic reporting of parent-child/foetus cases, the following should be adhered to:
- 1549 In the situation where a foetus or nursing infant is exposed to one or several medicinal products 1550 through the parent and experiences one or more suspected adverse reactions (other than early 1551 spontaneous abortion/foetal demise), information on both the parent and the child/foetus should 1552 be provided in the same report. These cases are referred to as parent-child/foetus reports. The 1553 information provided in the section 'Patients characteristics' (ICH-E2B(R2) B.1) applies only to the 1554 child/foetus. The characteristics concerning the parent (mother or father), who was the source of exposure to the suspect medicinal product should be provided in the data element 'For a parent-1555 child/fetus report, information concerning the parent' (ICH-E2B(R2) B.1.10). If both parents are 1556 the source of the suspect drug(s) then the case should reflect the mother's information in the data 1557 element 'For a parent-child/fetus report, information concerning the parent' (ICH E2B(R2) B.1.10). 1558 The data element 'Case narrative including clinical course, therapeutic measures, outcome and 1559 additional relevant information' (ICH-E2B(R2) B.5.1) should describe the entire case, including the 1560 father's information. 1561
  - If both the parent and the child/foetus experience suspected adverse reactions, two separate reports, i.e. one for the parent (mother or father) and one for the child/foetus, should be created but they should be linked by using the data element 'Identification number of the report which is linked to this report' (ICH-E2B(R2) A.1.12) in each report.

- If there has been no reaction affecting the child, the parent-child/foetus report does not apply; i.e. the section 'Patients characteristics' (ICH-E2B(R2) B.1) applies only to the parent (mother or father) who experienced the suspected adverse reaction.
- For those cases describing miscarriage or early spontaneous abortion, only a parent report is applicable, i.e. the section 'Patients characteristics' (ICH-E2B(R2) B.1) apply to the mother.

  However, if the suspect medicinal product was taken by the father, the data element 'Additional information on drug' (ICH-E2B(R2) B.4.k.19) should specify that the medication was taken by the father.

### 1574 VI.C.6.2.3.2. Suspected adverse reaction reports published in the scientific and medical literature

- EU requirements in relation to the monitoring of suspected drug reactions reported in the scientific and medical literature are provided in VI.C.2.2.3. With regard to the electronic reporting of ICSRs published in the scientific and medical literature, the following applies:
- The literature references shall be included in the data element 'Literature reference(s)' (ICH-1580 E2B(R2) A.2.2) in the Vancouver Convention (known as "Vancouver style"), developed by the International Committee of Medical Journal Editors [IR Art 28 (3) (b)]. The standard format as well as those for special situations can be found in the following reference: International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med. 1997; 336: 309-15, which is in the Vancouver style<sup>39</sup>.
  - A comprehensive English summary of the article shall be provided in the data element 'Case narrative including clinical course, therapeutic measures, outcome and additional relevant information' (ICH-E2B(R2) B.5.1) [IR Art 28 (3) (b)].
- Upon request of the Agency, for specific safety review, a full translation in English and a copy of the relevant literature article shall be provided by the marketing authorisation holder that transmitted the initial report, taking into account copyright restrictions [IR 28 (3)]. The recommendations detailed in VI.App2.10, regarding the mailing of the literature article, should be adhered to.
- Recommendations presented in VI.App2.10, for the reporting of several cases when they are published in the same literature article, should be followed.
- VI.C.6.2.3.3. Suspected adverse reactions related to overdose, abuse, off-label use, misuse, medication error or occupational exposure
- 1597 General principles are provided in VI.B.6.3.

1585

1586

1587

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

Guideline on good pharmacovigilance practices (GVP) – Module VI (Rev 1) EMA/873138/2011 Rev 1

<sup>&</sup>lt;sup>39</sup> The Vancouver recommendations are also available on the International Committee of Medical Journal Editors website <a href="http://www.icmie.org">http://www.icmie.org</a>

1605	VI.C.6.2.3.4. Lack of therapeutic efficacy
1606	General principles are provided in VI.B.6.4.
1607 1608 1609 1610 1611	If the primary source suspects a lack of therapeutic efficacy, the MedDRA Lowest Level Term code, corresponding to the term closest to the description of the reported lack of therapeutic efficacy, should be provided in the data element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1), in line with recommendations included in the latest version of the ICH-Endorsed Guide for MedDRA Users 'MedDRA Term Selection: Points to Consider'.
1612 1613 1614	Unless aggravation of the medical condition occurs, the indication for which the suspected medicinal product was administered should not be included in the data element 'Reaction/event in MedDRA terminology (Lowest Level Term).
1615 1616 1617 1618	The same reporting modalities as for serious ICSRs (see VI.C.4.) should be applied for those cases related to classes of medicinal products where, as described in VI.B.6.4., reports of lack of therapeutic efficacy should be reported within a 15-day time frame. If no seriousness criterion is available, it is acceptable to submit the ICSR within 15 days as non-serious.
1619 1620	VI.C.6.2.3.5. Suspected adverse reactions related to quality defect or falsified medicinal products
1621 1622 1623	EU requirements are provided in VI.C.2.2.4. In order to be able to clearly identify cases related to quality defect or falsified medicinal products when they are exchanged between stakeholders, the following recommendations should be applied:
1624	a. Quality defect
1625 1626 1627 1628	Where a report of suspected adverse reactions is associated with a suspected or confirmed quality defect of a medicinal product, the MedDRA Lowest Level Term code of the term corresponding most closely to the product quality issue, should be added to the observed suspected adverse reaction(s) in the data element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1).
1629	b. Falsified medicinal products
1630 1631 1632 1633 1634 1635 1636	Where a report of suspected adverse reactions is associated with a suspected or confirmed falsified ingredient, active substance or medicinal product, the MedDRA Lowest Level Term code of the term corresponding most closely to the reported information should be added to the observed suspected adverse reaction(s) in the data element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1). Information on the suspected medicinal product, active substance(s) or excipient(s) should be provided in the data elements 'Proprietary medicinal product name' (ICH-E2B(R2) B.4.k.2.1) and/or 'Active substance name(s)' (ICH-E2B(R2) B.4.k.2.2) as reported by the primary source.
1638	VI.C.6.2.3.6. Suspected transmission via a medicinal product of an infectious agent
1639	EU requirements are provided in VI.C.2.2.5.
1640 1641 1642	The coding of a suspected transmission of an infectious agent via a medicinal product in the data element 'Reaction/event in MedDRA terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1) should be performed in line with the latest version of the ICH-Endorsed Guide for MedDRA Users 'MedDRA

Term Selection: Points to Consider'.

<sup>&</sup>lt;sup>40</sup> As presented in EU legislation (<u>Directive 2011/62/EU</u>).

- 1644 In addition, if the infectious agent is specified, the MedDRA Lowest Level Term code corresponding to
- 1645 the infectious agent should also be included in the data element 'Reaction/event in MedDRA
- terminology (Lowest Level Term)' (ICH-E2B(R2) B.2.i.1).

#### 1647 VI.C.6.2.3.7. Reports originating from organised data collection systems and other systems

- 1648 General safety reporting requirements in the EU for post-authorisation studies are provided in VI.C.1.
- and <u>VI.C.2.2.2.</u> Individual case safety reports originating from those studies shall contain information
- on study type, study name and the sponsor's study number or study registration number [IR Art 28]
- 1651 (3)(c)]. This should be provided in ICH E2B(R2) section A.2.3 'Study identification'.
- Safety reporting requirements regarding patient support programmes or market research programmes
- 1653 are provided in VI.C.2.2.11.

1659

1660

1662

1663

1664

1665

1666

1667

1668

1669

1670

1671

1672

1676

1677

1678

16791680

1681

1682

- 1654 The following reporting rules should be applied based on (i) the type of data collection system and (ii)
- 1655 whether the suspected medicinal product is part of the scope of the data collection system.
- 16.56 1. For all patient support programmes, market research programme, non-interventional studies with primary data collection from consumers and healthcare professionals, and for certain compassionate use or named patient use where adverse events are actively sought:
  - a) Where the adverse reaction is suspected to be related at least to the studied (or supplied) medicinal product:
- the report should be considered as solicited;
  - the ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value 'Report from study';
    - the ICH E2B(R2) 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'.
      - b) Where the adverse reaction is only suspected to be related to a medicinal product which is not subject to the scope of the organised data collection system and there is no interaction with the studied (or supplied) medicinal product:
      - the report should be considered as spontaneous report; as such it conveys the suspicion of the primary source;
      - The ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
- 1673 2. For certain compassionate use or named patient use where adverse event reporting is not solicited:
- the report should be considered as spontaneous report; as such it conveys the suspicion of the primary source;
  - The ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
  - 3. For clinical trial conducted in accordance with Directive 2001/20/EC and where the adverse reaction is only suspected to be related to a non-investigational medicinal product (or another medicinal product which is not subject to the scope of the clinical trial) and there is no interaction with the investigational medicinal product:
    - the report should be considered as spontaneous report; as such it conveys the suspicion of the primary source;

- The ICH E2B(R2) data element A.1.4 'Type of report' should be populated with the value 'Spontaneous'.
- 1686 All ICSRs which are reportable to the EudraVigilance database and which originate from post-
- authorisation studies which do not fall under the scope of the clinical trials Directive 2001/20/EC,
- 1688 should be submitted to EVPM (see VI.C.6.2.1.). The same applies to cases of adverse reactions
- 1689 originating in clinical trials if they are not suspected to be related to the investigational medicinal
- 1690 product.

#### 1691 VI.C.6.2.3.8. Receipt of missing minimum information

- When missing minimum information (see VI.B.2.) has been obtained about a non-valid ICSR, the
- 1693 following rules should be applied:
- the data element 'Date report was first received from source' (ICH-E2B(R2) A.1.6) should contain the date of receipt of the initial non-valid ICSR;
- the data element 'Date of receipt of the most recent information for this report' (ICH-E2B(R2)
   A.1.7) should contain the date when all the four elements of the minimum information required for reporting have become available;
- clarification should be provided in the case narrative (data element ICH-E2B(R2) B.5.1) that some of the four elements were missing in the initial report.;
- as for any reported cases, compliance monitoring is performed against the data element 'Date of receipt of the most recent information for this report' (ICH-E2B(R2) A.1.7).

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

- 1705 The EudraVigilance database should contain all cases of suspected adverse reactions that are
- 1706 reportable according to Directive 2001/83/EC and Regulation (EC) No 726/2004 to support
- 1707 pharmacovigilance activities. This applies to all medicinal products authorised in the EU independent of
- 1708 their authorisation procedure.
- 1709 The EudraVigilance database should also be based on the highest internationally recognised data
- 1710 quality standards.
- 1711 To achieve these objectives, all competent authorities in Member States and marketing authorisation
- 1712 holders should adhere to:
- the electronic reporting requirements as defined in EU legislation;
- the concepts of data structuring, coding and reporting in line with the EU legislation, guidelines, standards and principles referred to in VI.C.6.2.2.1.
- 1716 This is a pre-requisite to maintain a properly functioning EudraVigilance database intended to fully
- 1717 support the protection of public health.
- 1718 The Agency shall, in collaboration with the stakeholder that submitted an ICSR to the EudraVigilance
- 1719 database, be responsible for operating procedures that ensure the highest quality and full integrity of
- 1720 the information collected in the EudraVigilance database [REG Art 24(3)]. This includes as well the
- monitoring of use of the terminologies referred to in Chapter IV of the Commission Implementing
- 1722 Regulation (EU) No 520/2012 [IR Art 25(3)].
- 1723 Specific quality system procedures and processes shall be in place in order to ensure

- the submission of accurate and verifiable data on serious and non-serious suspected adverse reactions to the Eudravigilance database within the 15 or 90-day time frame [IR Art 11 (1) (c)],
- the quality, integrity and completeness of the information submitted on the risks of medicinal products, including processes to avoid duplicate submissions [IR Art 11 (1) (d)].
- 1728 In this regard, marketing authorisation holders and competent authorities in Member States should
- have in place an audit system, which ensures the highest quality of the ICSRs transmitted
- 1730 electronically to the EudraVigilance database within the correct time frames, and which enables the
- 1731 detection and management of duplicate ICSRs in their system. Those transmitted ICSRs should be
- 1732 complete, entire and undiminished in their structure, format and content.
- 1733 High level business process maps and process descriptions in relation to the quality review of ICSRs
- and the detection and management of duplicate ICSRs are provided in VI. Appendix 6 and VI.
- 1735 Appendix 7. Further guidance on the detection of duplicate ICSRs is available in the Guideline on the
- 1736 Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs),
- 1737 <u>EMA/13432/2009</u>.
- 1738 A review of the ICSRs quality, integrity and compliance with the reporting time frames will be
- 1739 performed by the Agency at regular intervals for all organisations reporting to the EudraVigilance
- 1740 database. Feedback from these reviews will be provided to those organisations.

#### 1741 VI.C.6.2.5. Electronic re-transmission of ICSRs between multiple senders and receivers

- 1742 The electronic re-transmission of cases refers to the electronic exchange of ICSRs between multiple
- 1743 senders and receivers, for example where in case of contractual agreement, a third country ICSR is
- 1744 first reported by a marketing authorisation holder outside the EU to another marketing authorisation
- 1745 holder in the EU and from there to the Agency. This applies as well for the interim arrangements
- 1746 period, where based on the reporting requirements detailed in VI.C.4.1., ICSRs originating in the EU
- 1747 are submitted by marketing authorisation holders to the competent authorities in the Member State
- where the reaction occurred and then re-transmitted to the EudraVigilance database.
- During this re-transmission process, information on the case should not in principle be omitted or
- 1750 changed if no new information on the case is available to the re-transmitting sender.
- 1751 Exceptions apply to the following data elements or sections:
- 'Sender's (case) safety report unique identifier' (ICH-E2B(R2) A.1.0.1);
- 'Date of this transmission' (ICH-E2B(R2) A.1.3);
- 'Date report was first received from source' (ICH-E2B(R2) A.1.6), for initial reports;
- 'Date of receipt of the most recent information for this report' (ICH-E2B(R2) A.1.7);
- "Information on sender and receiver of case safety report" (ICH-E2B(R2) A.3);
- 1757 'Relatedness of drug to reaction(s)/event(s)' (ICH-E2B(R2) B.4.k.18);
- 'Sender's diagnosis/syndrome and/or reclassification of reaction/event' (ICH-E2B(R2) B.5.3);
- 'Sender's comments' (ICH-E2B(R2) B.5.4).
- 1760 In the interest of improving data quality, in case of errors or inconsistencies in the report, the re-
- 1761 transmitters should go back to the originator of the report to correct the case accordingly. However, if
- this cannot be done within normal reporting time frame, the re-transmitter can correct information that
- 1763 has been incorrectly structured.

- 1764 In addition, any electronic data interchange partner should adhere to the ICH-E2B(R2) rules regarding
- the provision of follow-up information, whereby the 'Worldwide unique case identification number'
- 1766 (ICH-E2B(R2) A.1.10) should be maintained in accordance with the ICH-E2B(R2) guideline. Non-
- 1767 adherence to these administrative requirements endangers the electronic case management and leads
- 1768 to the potential for unnecessary duplication of reports in the receiver's database.

#### VI.C.6.2.6. Electronic reporting through company's headquarters

1769

1780

1781

17821783

1784

17851786

1787

1788

- 1770 If a pharmaceutical company decides to centralise the electronic reporting of ICSRs (e.g. by reporting through the company's global or EU headquarter), the following should be taken into account:
- the central reporting arrangement should be clearly specified in the marketing authorisation
   holder's pharmacovigilance system master file and in the internal standard operating procedures;
- the company's headquarter designated for reporting the ICSRs should be registered with
   EudraVigilance;
- the same principles may be applied for reporting ICSRs from the competent authorities in Member
   States to the marketing authorisation holders during the interim arrangements period, that is the
   competent authorities in Member States report electronically to the company's headquarter instead
   of to the local affiliates.

#### VI.C.6.3. Electronic submission of information on medicinal products

To support the objectives of Directive 2001/83/EC and Regulation (EC) No 726/2004, the provisions provided in second sub-paragraph of Article 57(2) of Regulation (EC) No 726/2004, regarding the electronic submission and update of information on medicinal products for human use authorised or registered in the EU, shall be followed by marketing authorisation holders. In this aspect marketing authorisation holders shall apply the internationally agreed formats and terminologies described in Chapter IV of the Commission Implementing Regulation (EU) No 520/2012. Recommendations related to the electronic submission of information on medicines are provided on the Agency's website<sup>41</sup>.

<sup>41</sup> EMA documents for electronic submission of information on medicines

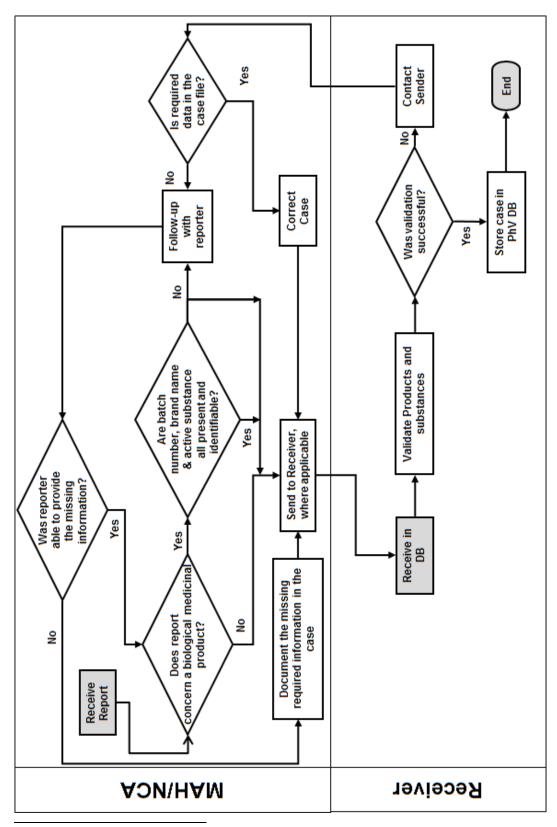
(http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document\_listing/document\_listing\_000336.jsp&murl=menus/regulations/regulations.jsp&mid=WC0b01ac0580410138&jsenabled=true)

Guideline on good pharmacovigilance practices (GVP) – Module VI (Rev 1) EMA/873138/2011 Rev 1

1789 **VI.APPENDICES** 

# VI.Appendix 1 Identification of biological medicinal products<sup>42</sup>

Figure VI.2. Business process map - Identification of biological medicinal products



<sup>&</sup>lt;sup>42</sup> Mandatory when they are the subject of reports of suspected adverse reactions [DIR Art 102(e) and IR Art 28 (3)].

Table VI.1. 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 3). 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. If No, create the case and send it to the correct receiver (step 3) 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 E2B(R2) format within the relevant timelines (15 or 90 days), to the relevant receiver.	MAH/NCA
5	Receive in DataBase (DB).	Receive the case electronically and load it into the pharmacovigilance database.	Receiver
6	Validate products and substances	Validate the products and substances to 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.	Receiver
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	Upon receipt of communication from the	MAH/NCA

No.	Step	Description	Responsible Organisation
	file?	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).	
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.	

## VI.Appendix 2 Detailed guidance on the monitoring of scientific and medical literature

## 1800 VI.App2.1. When to start and stop searching in the scientific and medical literature

- EU specific requirements, as regards the monitoring of scientific and medical literature are provided in VI.C.2.2.3..
- 1804 In addition to the reporting of serious and non-serious ICSRs or their presentation in periodic safety
- update reports, the marketing authorisation holder has an obligation to review the worldwide
   experience with medicinal product in the period between the submission of the marketing authorisation
- 1807 application and the granting of the marketing authorisation. The worldwide experience includes
- 1808 published scientific and medical literature. For the period between submission and granting of a
- 1809 marketing authorisation, literature searching should be conducted to identify published articles that
- provide information that could impact on the risk-benefit assessment of the product under evaluation.
- 1811 For the purpose of the preparation of periodic safety update reports (see Module VII) and the
- notification of Emerging Safety Issues (see VI.C.2.2.6.), the requirement for literature searching is not
- dependent on a product being marketed. Literature searches should be conducted for all products with
- a marketing authorisation, irrespective of commercial status. It would therefore be expected that
- 1815 literature searching would start on submission of a marketing authorisation application and continue
- 1816 while the authorisation is active.

1817

#### VI.App2.2. Where to look

- 1818 Articles relevant to the safety of medicinal products are usually published in well-recognised scientific
- and medical journals, however, new and important information may be first presented at international
- 1820 symposia or in local journals. Although the most well-known databases (e.g. Medline) cover the
- 1821 majority of scientific and medical journals, the most relevant publications may be collated elsewhere in
- very specialised medical fields, for certain types of product (e.g. herbal medicinal products) or where
- 1823 safety concerns are subject to non-clinical research. A marketing authorisation holder should establish
- the most relevant source of published literature for each product.
- Medline, Embase and Excerpta Medica are often used for the purpose of identifying ICSRs. These
- 1826 databases have broad medical subject coverage. Other recognised appropriate systems may be used.
- 1827 The database providers can advise on the sources of records, the currency of the data, and the nature
- 1828 of database inclusions. It is best practice to have selected one or more databases appropriate to a
- specific product. For example, in risk-benefit assessment, safety issues arising during non-clinical
- safety studies may necessitate regular review of a database that has a less clinical focus and includes
- 1831 more laboratory-based publications.
- 1832 Relevant published abstracts from meetings and draft manuscripts should be reviewed for reportable
- 1833 ICSRs and for inclusion in periodic safety update reports. Although it is not a requirement for
- marketing authorisation holders to attend all such meetings, if there are company personnel at such a
- meeting, or it is sponsored by a marketing authorisation holder, it is expected that articles of relevance
- 1836 would be available to the marketing authorisation holder's pharmacovigilance system. In addition,
- 1837 literature that is produced or sponsored by a marketing authorisation holder should be reviewed, so
- that any reportable ICSRs can be reported as required in advance of publication.
- 1839 If ICSRs are brought to the attention of a marketing authorisation holder from this source, they should
- be processed in the same way as ICSRs found on searching a database or reviewing a journal.

- Abstracts from major scientific meetings are indexed and available in some databases, but posters and
- 1842 communications are rarely available from this source.

#### 1843 VI.App2.3. Database Searches

- 1844 A search is more than a collection of terms used to interrogate a database. Decisions about the
- 1845 database selection, approach to records retrieval, term or text selection and the application of limits
- need to be relevant to the purpose of the search. For searches in pharmacovigilance, some of the
- 1847 considerations for database searching are described below.

#### VI.App2.3.1. Precision and recall

- 1849 Medical and scientific databases are a collection of records relating to a set of publications. For any
- 1850 given record, each database has a structure that facilitates the organisation of records and searching
- by various means, from simple text to complex indexing terms with associated subheadings. Search
- terms (text or indexed) can be linked using Boolean operators and proximity codes to combine
- 1853 concepts, increasing or decreasing the specificity of a search. In addition, limits to the output can be
- 1854 set. When searching, the application of search terms means that the output is less than the entire
- 1855 database of the records held. The success of a search can be measured according to precision and
- 1856 recall (also called sensitivity). Recall is the proportion of records retrieved ("hits") when considering
- the total number of relevant records that are present in the database. Precision is the proportion of
- 1858 "hits" that are relevant when considering the number of records that were retrieved. In general, the
- higher recall searches would result in low precision.

#### VI.App2.3.2. Search construction

- Databases vary in structure, lag time in indexing and indexing policy for new terms. While some
- 1862 database providers give information about the history of a particular indexing term or the application
- 1863 of synonyms, other databases are less sophisticated. In addition, author abstracts are not always
- 1864 consistent in the choice of words relating to pharmacovigilance concepts or medicinal products/active
- 1865 substances names.

1848

1860

- 1866 When constructing a search for pharmacovigilance, the highest recall for a search would be to enter
- 1867 the medicinal product name and active substance name (in all their variants) only. In practice,
- 1868 additional indexing terms and text are added to increase precision and to reduce the search result to
- 1869 return records that are of relevance to pharmacovigilance. There is a balance to be achieved. It is,
- 1870 therefore, expected that complicated searches are accompanied by initial testing to check that relevant
- 1871 records are not omitted, however, there is no defined acceptable loss of recall when searching for
- pharmacovigilance purposes. Term selection should be relevant to the database used and the subject
- of the search.

1874

#### VI.App2.3.3. Selection of product terms

- 1875 Searches should be performed to find records for active substances and not for brand names only. This
- 1876 can also include excipients or adjuvants that may have a pharmacological effect. When choosing
- 1877 search terms for medicinal products, there are a number of considerations.
- 1878 Is the active substance an indexed term?
- What spellings might be used by authors (particularly if the active substance is not indexed)?

- What alternative names might apply (numbers or codes used for products newly developed, chemical names, brand names, active metabolites)?
- Is it medically relevant to search only for a particular salt or specific compound for an active substance?
- During searches for ICSRs, it may be possible to construct a search that excludes records for pharmaceutical forms or routes of administration different to that of the subject product, however, restrictions should allow for the inclusion of articles where this is not specified. Search construction
- should also allow for the retrieval of overdose, medication error, abuse, misuse, off-label use or
- occupational exposure information, which could be poorly indexed. Searches should also not routinely
- 1889 exclude records of unbranded products or records for other company brands.

#### VI.App2.3.4. Selection of search terms

- As described previously, there is no acceptable loss of recall when searching published literature for pharmacovigilance. The use of search terms (free text or use of indexing) to construct more precise
- 1893 searches may assist in managing the output. Deficiencies that have been found frequently during
- 1894 Competent Authority inspections include:

1890

1903

- the omission of outcome terms, for example "death" as an outcome may be the only indexed term in a case of sudden death;
- the omission of pregnancy terms to find adverse outcomes in pregnancy for ICSR reporting;
- the omission of terms to include special types of reports which needs to be addressed as well in periodic safety update reports, for example,
- 1900 Reports of asymptomatic overdose, medication error, off-label use, misuse, abuse,
   1901 occupational exposure;
- 1902 Reports of uneventful pregnancy.

#### VI.App2.3.5. Limits to a search

- Some databases apply indexing that allows the application of limits to a search, for example by subject age, sex, publication type. The limits applied to a search are not always shown in the "search strategy" or search string.
- 1907 If limits are applied, they should be relevant to the purpose of the search. When searching a worldwide
- 1908 scientific and medical literature database, titles and abstracts are usually in English language. The use
- of limits that reduce the search result to only those published in the English language is generally not
- acceptable. Limits applied to patient types, or other aspects of an article, for example human, would
- 1911 need to be justified in the context of the purpose of a search.
- 1912 Limits can be applied to produce results for date ranges, for example, weekly searches can be obtained
- by specifying the start and end date for the records to be retrieved. Care should be taken to ensure
- that the search is inclusive for an entire time period, for example, records that may have been added
- 1915 later in the day for the day of the search should be covered in the next search period. The search
- should also retrieve all records added in that period, and not just those initially entered or published
- 1917 during the specified period (so that records that have been updated or retrospectively added are
- 1918 retrieved). This should be checked with the database provider if it is not clear.
- 1919 Although one of the purposes of searching is to identify ICSRs for reporting, the use of publication type
- 1920 limits is not robust. ICSRs may be presented within review or study publications, and such records may

not be indexed as "case-reports", resulting in their omission for preparation of periodic safety update reports from search results limited by publication type.

#### VI.App2.4. Record keeping

- 1924 Records of literature searches should be maintained in accordance with the requirements described in
- 1925 [IR Art 12]. Marketing authorisation holders should demonstrate due diligence in searching published
- scientific and medical literature. It is always good practice to retain a record of the search construction,
- the database used and the date the search was run. In addition, it may be useful to retain results of
- 1928 the search for an appropriate period of time, particularly in the event of zero results. If decision
- making is documented on the results, it is particularly important to retain this information.

#### VI.App2.5. Outputs

- Databases can show search results in different ways, for example, titles only or title and abstract with
- or without indexing terms. Some publications are of obvious relevance at first glance, whereas others
- 1933 may be more difficult to identify. Consistent with the requirement to provide the full citation for an
- 1934 article and to identify relevant publications, the title, citation and abstract (if available) should always
- 1935 be retrieved and reviewed.

1923

1930

1936

#### VI.App2.6. Review and selection of articles

- 1937 It is recognised that literature search results are a surrogate for the actual article. Therefore, it is
- 1938 expected that the person reviewing the results of a search is trained to identify the articles of
- 1939 relevance. This may be an information professional trained in pharmacovigilance or a
- 1940 pharmacovigilance professional with knowledge of the database used. Recorded confirmation that the
- search results have been reviewed will assist in demonstrating that there is a systematic approach to
- 1942 collecting information about suspected adverse reactions from literature sources. It is recommended
- that quality control checks are performed on a sample of literature reviews / selection of articles to
- 1944 check the primary reviewer is identifying the relevant articles.
- A common issue in selecting relevant articles from the results of a search is that often this process is
- 1946 conducted for the purposes of identification of ICSRs only. Whereas the review should also be used as
- 1947 the basis for collating articles for the periodic safety update report production, therefore relevant
- studies with no ICSRs should also be identified, as well as those reports of events that do not qualify
- 1949 for reporting.
- 1950 Outputs from searches may contain enough information to be a valid ICSR, in which case the article
- 1951 should be ordered. All articles for search results that are likely to be relevant to pharmacovigilance
- requirements should be obtained, as they may contain valid ICSRs or relevant safety information. The
- 1953 urgency with which this occurs should be proportionate to the content of the material reviewed and the
- 1954 resulting requirement for action as applicable for the marketing authorisation holder.
- 1955 Articles can be excluded from reporting by the marketing authorisation holder if another company's
- branded medicinal product is the suspected medicinal product. In the absence of a specified medicinal
- 1957 product source and/or invented name, ownership of the medicinal product should be assumed for
- 1958 articles about an active substance. Alternative reasons for the exclusion of a published article for the
- 1959 reporting of ICSRs are detailed in VI.C.2.2.3.

#### 1960 **VI.App2.7. Day zero**

- As described in VI.B.7., day zero is the date on which an organisation becomes aware of a publication containing the minimum information for an ICSR to be reportable. Awareness of a publication includes
- any personnel of that organisation, or third parties with contractual arrangements with the
- organisation. It is sometimes possible to identify the date on which a record was available on a
- 1965 database, although with weekly literature searching, day zero for a reportable adverse reaction present
- 1966 in an abstract is taken to be the date on which the search was conducted. For articles that have been
- 1967 ordered as a result of literature search results, day zero is the date when the minimum information for
- an ICSR to be valid is available. Organisations should take appropriate measures to obtain articles
- 1969 promptly in order to confirm the validity of a case.

#### VI.App2.8. Duplicates

1970

1975

1994

1995

- 1971 Consistent with the requirements for reporting ICSRs, literature cases should be checked to prevent
- 1972 reporting of duplicates, and previously reported cases should be identified as such when reported. It is,
- 1973 therefore, expected that ICSRs are checked in the organisation database to identify literature articles
- that have already been reported.

#### VI.App2.9. Contracting out Literature Search Services

- 1976 It is possible to use the services of another party to conduct searches of the published scientific and
- medical literature. In this event, the responsibility for the performance of the search and subsequent
- reporting still remains. The transfer of a pharmacovigilance task or function should be detailed in a
- 1979 contract between the organisation and the service provider. The nature of third party arrangements for
- 1980 literature searching can range from access to a particular database interface only (access to a
- technology) to full literature searching, review and reporting (using the professional pharmacovigilance
- 1982 services of another organisation). It is recognised that more than one organisation may share services
- of a third party to conduct searches for generic active substances. In this instance, each organisation
- should satisfy itself that the search and service is appropriate to their needs and obligations.
- 1985 Where an organisation is dependent on a particular service provider for literature searching, it is
- 1986 expected that an assessment of the service(s) is undertaken to determine whether it meets the needs
- and obligations of the organisation. In any case, the arrangement should be clearly documented.
- 1988 The clock start for the reporting of ICSRs begins with awareness of the minimum information by either
- 1989 the organisation or the contractual partner (whichever is the earliest). This also applies where a third
- 1990 party provides a review or a collated report from the published scientific and medical literature, in
- order to ensure that published literature cases are reported as required within the correct time frames.
- 1992 That is, day zero is the date the search was run if the minimum criteria are available in the abstract
- and not the date the information was supplied to the organisation.

### VI.App2.10. Electronic submission of copies of articles published in the scientific and medical literature

- 1996 Until standards for the electronic transmission of attachments (e.g. copies of literature articles) are
- 1997 developed in the framework of ICH, the sender should follow the rules outlined below for the
- submission of a copy of the literature article as detailed in VI.C.6.2.3.2.:
- 1999 1. Mailing address and format of literature articles:

2000 Literature articles reportable to the Agency should be provided in PDF format and sent via e-mail to 2001 the following e-mail address: **EVLIT@ema.europa.eu**. 2002 In relation to copies of articles from the published scientific and medical literature, marketing 2003 authorisation holders are recommended to consider potential copyright issues specifically as 2004 regards the electronic transmission and handling of electronic copies in the frame of regulatory 2005 activities. 2006 2. File name of literature articles sent in electronic format to the Agency: 2007 The file name of a literature article sent in PDF format should match exactly the 'World-Wide Unique Case Identification Number' (ICH-E2B(R2) A.1.10.1 or A.1.10.2 as applicable) assigned to 2008 2009 the individual case, which is described in the article and which is reported in the E2B(R2) ICSR 2010 format. 2011 If there is a follow-up article to the individual case published in the literature, the file name with 2012 the World-Wide Unique Case Identification Number must be maintained but should include a 2013 sequence number separated with a dash. 2014 Examples: 2015 Initial ICSR published in the literature: FR-ORGABC-23232321 (data element 'World-Wide Unique 2016 Case Identification Number' (ICH-E2B(R2) A.1.10.1)); 2017 File name of the literature article: FR-ORGABC-23232321.pdf. 2018 Follow-up information published in the literature in a separate article: 2019 ICSR: FR-ORGABC-23232321 (data element World-Wide Unique Case Identification Number 2020 remains unchanged (ICH-E2B(R2) A.1.10.1)); 2021 File name: FR-ORGABC-23232321-1.pdf. 2022 3. Reporting of cases reported in the scientific and medical literature referring to more than one 2023 patient: 2024 When the literature article refers to the description of more than one patient, the copy of the 2025 literature article should be sent only once. 2026 The file name of a literature article sent in PDF format should match exactly the 'World-Wide

Unique Case Identification Number' (data element ICH-E2B(R2) A.1.10.1 or A.1.10.2 as applicable)

In addition, all ICSRs which relate to the same literature article should be cross referenced in the

data element 'Identification number of the report which is linked to this report' (ICH-E2B(R2)

A.1.12). The data element should be repeated as necessary to cross refer all related cases (see

assigned to the first reportable individual case described in the article.

2027

2028

2029

2030

2031

2032

Table VI.2).

Ex.	Scenario	Action
1	A literature article describes suspected adverse reactions that have been experienced by up to 3 single patients.  3 ICSRs should be created and reported for each individual identifiable patient described in the literature article.  Each ICSR should contain all the available information on the case.	For Case 1 described in the literature article:  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): Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals: N Engl J Med. 1997; 336: 309-15.  File name for the copy of literature article to be sent via e-mail to EVLIT@ema.europa.eu: UK-ORGABC-0001.pdf  For Case 2 described in the literature article: 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.  For Case 3 described in the literature article: 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-0001

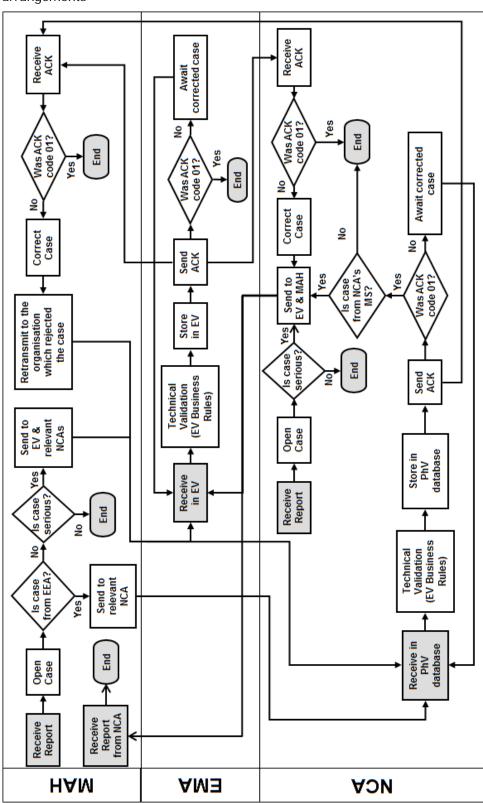
Ex.	Scenario	Action
2 2	A literature article describes suspected adverse reactions that have been experienced by more than 3 single patients.  ICSRs should be created and reported for each individual identifiable patient described in the literature article.	<ul> <li>ICH-E2B(R2) A.2.2 'Literature reference(s):         Literature reference in line with uniform requirements for manuscripts submitted to biomedical journals:         N Engl J Med. 1997; 336: 309-15.</li> <li>No copy of the literature article required since the copy was already submitted for case 1.</li> <li>For the ICSRs which relate to the same literature article, the cross reference in the data element 'Identification number of the report which is linked to this report' ICH (E2B(R2) field A.1.12) should be conducted as follows:         <ul> <li>The first case should be linked to all other cases related to the same article;</li> <li>All the other cases should be only linked to the first one, as in the example below.</li> </ul> </li> <li>Example for the reporting of cases originally reported in the</li> </ul>
	Each ICSR should contain all the available information on the case.	scientific and medical literature referring to a large number of patients:
	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.	<ul> <li>For Case 1 described in the literature article:</li> <li>ICH E2B(R2) A.1.10.1 'Worldwide Unique Case Identification Number':     UK-ORGABC-0001</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':     UK-ORGABC-0002</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':     UK-ORGABC-0003</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':     UK-ORGABC-0004</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':     UK-ORGABC-000N</li> <li>ICH-E2B(R2) A.2.2 'Literature reference(s)':     N Engl J Med. 1997; 336: 309-15.</li> <li>File name for the copy of literature article to be sent via e-mail to EVLIT@ema.europa.eu:     UK-ORGABC-0001.pdf.</li> </ul>
		<ul> <li>For Case 2 described in the literature article:</li> <li>ICH E2B(R2) A.1.10.1 'Worldwide Unique Case Identification Number':         UK-ORGABC-0002</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':         UK-ORGABC-0001</li> <li>ICH-E2B(R2) A.2.2 'Literature reference(s)':</li> </ul>

Ex.	Scenario	Action
		<ul> <li>N Engl J Med. 1997; 336: 309-15.</li> <li>No copy of the literature article required since the copy was already submitted for case 1.</li> <li>For Case N described in the literature article:</li> <li>ICH-E2B(R2) A.1.10.1 'Worldwide Unique Case</li> </ul>
		<ul> <li>Identification Number':     UK-ORGABC-000N</li> <li>ICH-E2B(R2) A.1.12 'Identification number of the report which is linked to this report':     UK-ORGABC-0001</li> <li>ICH-E2B(R2) A.2.2 'Literature reference(s)':     N Engl J Med. 1997; 336: 309-15.</li> <li>No copy of the literature article required since the copy was already submitted for case 1.</li> </ul>

#### VI.Appendix 3 Modalities for reporting

#### VI.App3.1. Interim arrangements

**Figure VI.3.** Business process map - Suspected adverse reaction reporting in EU – Interim arrangements



2036

2037

2038

Table VI.3. 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, got so step 5.	MAH
3.1	Is case serious?	If No, go to step 3.2. If Yes, got 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.  Go to step 20 for NCAs receiving the ACK.	EMA

No.	Step	Description	Responsible Organisation
		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.	ЕМА
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 (PhV) database.	Receive the message from MAH in the NCA's PhV database.	NCA
7	Technical Validation (EV Business Rules).	Every message that is received in the NCA's PhV database 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 non-valid) or 03 (if the message itself is	NCA

No.	Step	Description	Responsible Organisation
		not correctly formatted).	
8	Store in EV.	Once the case has been validated, it is stored in the NCA's PhV database.	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 other valid reporter concerning a	NCA

No.	Step	Description	Responsible Organisation
		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.	МАН
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.	МАН
18	Correct case.	Correct the case to remove the errors identified in the ACK.	МАН
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. Got 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 the relevant regulatory reporting	NCA

No.	Step	Description	Responsible Organisation
		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

## VI.App3.1.1. Interim arrangements applicable to marketing authorisation holders

2043

2044

2045

2046

2047

2048

2049 2050

2051 2052

2053

2054

Reporting requirements of ICSRs applicable to marketing authorisation holders during the interim period are detailed in the latest version of Doc. EMA/321386/2012 available on EMA website under the following pathway: Home/Regulatory/Human medicines/Pharmacovigilance /2010 pharmacovigilance legislation/Q&A on implementation

Table VI.4. Reporting requirements applicable to marketing authorisation holders - Interimarrangements

Marketing authorisation procedure	<del>Origin</del>	Adverse reaction type	<del>Destination</del>	<mark>Time</mark> <del>frame</del>
<ul> <li>Centralised</li> <li>Mutual recognition,</li> <li>decentralised or</li> </ul>	<del>EU</del>	<del>All-serious</del>	<ul> <li>Member State<sup>(1)</sup> where suspected adverse reaction occurred</li> </ul>	<mark>15 days</mark>
subject to referral  Purely national		<del>All non-serious</del>	<ul> <li>Member State where suspected adverse reaction occurred, if required (See Table VI.5)</li> </ul>	<del>90 days</del>
	<del>Non-</del> <del>EU</del>	<del>All-serious</del>	EudraVigilance database  Member States where suspected medicinal product is authorised, if required (See Table VI.5)	<del>15 days</del>

(1) Member States may request marketing authorisation holders to report those cases to EudraVigilance.

This will be further addressed in a specific question and answer document.

Table VI.5. Reporting requirements applicable to marketing authorisation holders — Interimarrangements — Member States requirements

Marketing authorisation procedure	<mark>Origin</mark>	<mark>Adverse</mark> reaction type	<del>Destination</del>	<mark>YES</mark>	<mark>OW</mark>
<ul> <li>Centralised</li> <li>Mutual recognition, decentralised or subject to referral</li> <li>Purely national</li> </ul>	<del>EU</del>	All non-serious	Member State where suspected adverse reaction occurred	AT, DE <sup>1</sup> DK, IS, PL, RO	BE, BG, CY, CZ, DE, EE, ES, FI, FR, GR, HU, IE, IT, LI, LT, LU, LV, MT, NL, NO, PT, SE, SI, SK, UK

Marketing authorisation procedure	<del>Origin</del>	Adverse reaction type	<del>Destination</del>	<mark>YES</mark>	<mark>OM</mark>
	Non- EU	All serious	Member States where suspected medicinal product is authorised	<del>DE,</del> <mark>SK,</mark> <del>UK</del>	AT, BE, BG, CY, CZ, DK, EE, ES, FI, FR, GR, HU, IE, IS, IT, LI, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE, SI

DE<sup>1</sup>: Only for non-serious cases related to vaccines reportable to the Paul-Ehrlich-Institut. Reporting of other non-serious cases related to non-vaccines medicinal products will only be requested individually in case of safety concerns.

2055

2056

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

**Table VI.4.** Reporting requirements applicable to competent authorities in Member States - Interim arrangements

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
<ul> <li>Centralised</li> <li>Mutual recognition, decentralised or subject to referral</li> <li>Purely national</li> </ul>	EU	All serious	<ul> <li>EudraVigilance database</li> <li>Marketing authorisation holder of the suspected medicinal product</li> </ul>	15 days

#### VI.App3.2. Final arrangements

2063

Figure VI.4. Business process map - Suspected adverse reaction reporting in EU - Final arrangements

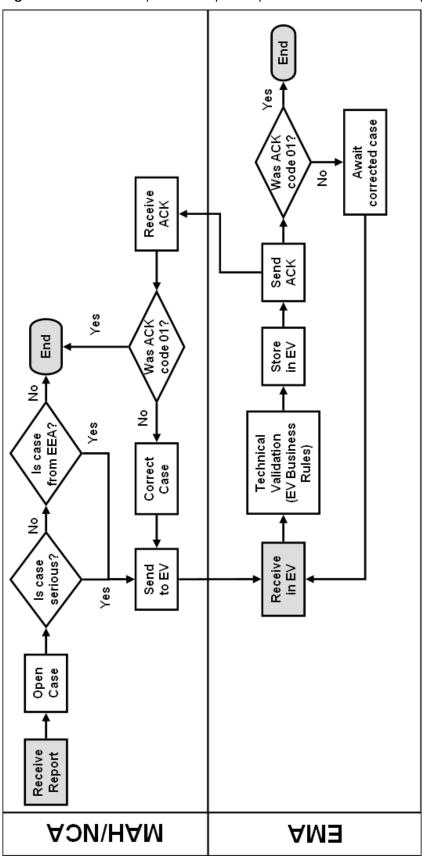


Table VI.5. Process description - Suspected adverse reaction reporting in EU - Final arrangements

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, do not 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) format as an 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.  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
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 ACK code 01?	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	EMA

No.	Step	Description	Responsible Organisation
		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. 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.	
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 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 ACK code 01?	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 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 12 (Correct case)	MAH/NCA
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

## VI.App3.2.1. Final arrangements applicable to marketing authorisation holders

## **Table VI.6.** Reporting requirements applicable to marketing authorisation holders - Final arrangements

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
Centralised	EU	All serious	EudraVigilance database	15 days
<ul> <li>Mutual recognition, decentralised or</li> </ul>		All non-serious	EudraVigilance database	90 days
<ul><li>subject to referral</li><li>Purely national</li></ul>	Non- EU	All serious	EudraVigilance database	15 days

2072

2073

2074

2075

2076

2070

2071

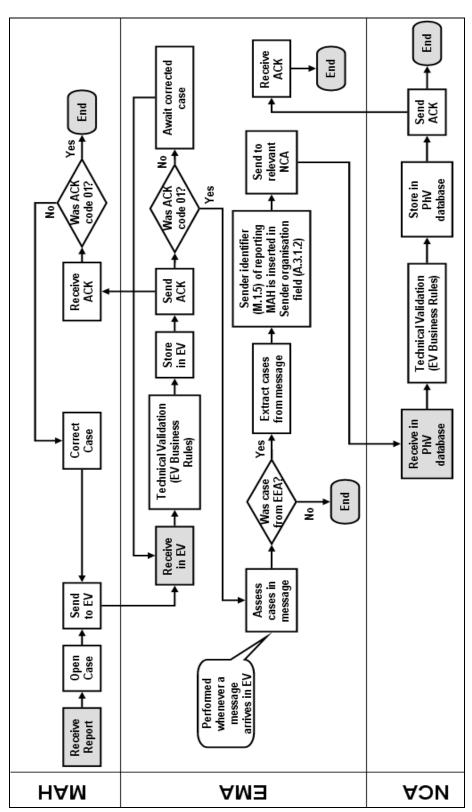
## VI.App3.2.2. Final arrangements applicable to competent authorities in Member States

## **Table VI.7.** Reporting requirements applicable to competent authorities in Member States - Final arrangements

Marketing authorisation procedure	Origin	Adverse reaction type	Destination	Time frame
<ul> <li>Centralised</li> </ul>	EU	All serious	EudraVigilance database	15 days
<ul> <li>Mutual recogn decentralised of subject to refer</li> </ul>	or	All non-serious	EudraVigilance database	90 days
Purely nationa	I			

## $\it VI.App 3.3.$ Transmission and rerouting of ICSRs to competent authorities in Member States $^{43}$

**Figure VI.5.** Business process map - Transmission and rerouting of ICSRs to competent authorities in Member States



 $<sup>^{43}</sup>$  Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

2077

20782079

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.	МАН
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) format as an 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).	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
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.	МАН
7.2	Was ACK code 01?	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 02 or 03 ACK does not constitute new information. Go to step 7.2.2 (Correct	MAH

 $<sup>\</sup>frac{44}{2}$  Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

No.	Name	Description	Responsible Organisation
		case).	
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.	МАН
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 ACK code 01?	If yes, go to step 9.  If no, perform no further processing on this version of the case and go to step 8.1	ЕМА
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) 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 informed.	EMA
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.	Message sender identifier (ICH M2 M.1.5) of reporting MAH is inserted in Sender organisation field (ICH-E2B(R2) A.3.1.2) prior to retransmission. This is to permit	EMA

No.	Name	Description	Responsible Organisation
		the receiving National Competent Authority (NCA) to unambiguously identify the MAH responsible for transmitting the case to EV.	
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 (PhV) database.	The relevant NCA receives the message in its pharmacovigilance database	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 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).	NCA
16	Store in PhV database.	Once the case has been validated, it is stored in the pharmacovigilance database.	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.	ЕМА

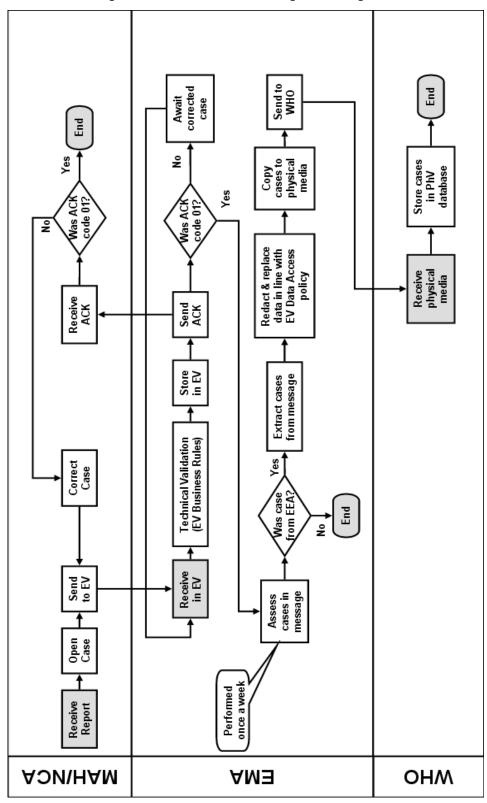
# VI.Appendix 4 Transmission of ICSRs to World Health Organization (WHO)<sup>45</sup>

2087

2088

2089

**Figure VI.6.** Business process map - Transmission of ICSRs to World Health Organization (WHO) Collaborating Centre for International Drug Monitoring



<sup>&</sup>lt;sup>45</sup> Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

Guideline on good pharmacovigilance practices (GVP) – Module VI (Rev 1) EMA/873138/2011 Rev 1

 $\textbf{Table VI.9.} \ \ \textbf{Process description - Transmission of ICSRs to World Health Organization (WHO)} \ \ \textbf{Collaborating Centre for International Drug Monitoring}^{46}$ 

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) format as an 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).	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
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 ACK code 01?	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 02 or 03 ACK does not constitute new information. Go to step 7.2.2 (Correct	MAH/NCA

 $<sup>^{46}</sup>$  Once the functionalities of the EudraVigilance database specified in [REG Art 24(2)] are established.

No.	Step	Description	Responsible Organisation
7.2.1	End	case).  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 ACK code 01?	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 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 committees should be informed.	EMA
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 data in line with EV Data Access policy.	Prior to sending the cases to the World Health Organisation (WHO) Collaborating Centre, the extracted copies of the cases have some data elements redacted and replaced in line with the EV Data Access	EMA

No.	Step	Description	Responsible Organisation
		Policy in order to ensure personal data protection.	
13	Copy cases to physical media.	The cases are copied to physical media.	EMA
14	Send to WHO.	The physical media is sent to WHO Collaborating Centre.	EMA
15	Receive physical media	WHO Collaborating Centre receives the physical media.	WHO
16	Store cases in pharmacoVigilance (PhV) database.	Once the cases have been validated, they are stored in the pharmacovigilance database.	WHO
17	End.	Cases are stored in the WHO Collaborating Centre's pharmacovigilance database &, following duplicate detection & recoding will be available for signal detection and data quality analyses.	WHO

### VI.Appendix 5 Nullification of cases

2093

2096 2097

20982099

2100 2101

2102

2104

21052106

2107

2108

2109

General principles regarding the nullification of cases are provided in VI.C.6.2.2.10. The following recommendations should also be applied:

- The value in the data element 'Report nullification' (ICH-E2B(R2) A.1.13) should be set to 'Yes' and the nullification reason should be provided in the data element 'Reason for nullification' (ICH-EB(R2) A.1.13.1). The nullification reason should be clear and concise to explain why this case is no longer considered to be a valid report. For example a nullification reason stating, 'the report no longer meets the reporting criteria' or 'report sent previously in error' are not detailed enough explanations.
- An individual case can only be nullified by the sending organisation.
- Once an individual case has been nullified, the case cannot be reactivated.
  - If it becomes necessary to resubmit the case that has been previously nullified, a new 'Sender's (case) safety report unique identifier' (ICH-E2B(R2) A.1.0.1) and 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) should be assigned.
  - Individual versions (i.e. follow-up reports) of a case cannot be nullified, only the entire individual case to which they refer.

#### Table VI.10. 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.	One of the individual cases should be nullified. The remaining valid case should be updated with any additional relevant information from the nullified case.
2	A wrong 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) 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) 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 occurred before the suspect drug(s) was taken.	The case should be nullified.
4	On receipt of further information on an individual case, it is confirmed that the patient did not receive the suspect drug. 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	The case should be nullified.

Ex.	Scenario	Action
	criteria for an ICSR as outlined in VI.B.2 are no longer met.	
6	On receipt of further information it is confirmed that there was no valid 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 the patient's existence, then the case should be nullified.

- Individual cases that have been nullified should not be used for scientific evaluation, however, they should remain in the database for auditing purposes.
  - In addition, 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 report<sup>47</sup>. Information on the identification of the nullified case(s) should be provided in the data element 'Source(s) of the case identifier (e.g. name of the company, name of regulatory agency)' (ICH-E2B(R2) A.1.11.1) and in the data element 'Case identifier(s)' (ICH-E2B(R2) A.1.11.2).

Table VI.11. Examples of scenarios for which ICSRs should NOT be nullified

2113

21142115

2116

2117

Ex.	Scenario	Action
7	A wrong 'Worldwide unique case identification number' (ICH E2B(R2) A.1.10) was accidentally used. This wrong ICH-E2B(R2) A.1.10 'Worldwide unique case identification number' referred to an existing case.	The report with the wrong 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) should not be nullified.  A follow-up 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 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.	The case should not be nullified.
9	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).	The case should not be nullified.  A follow-up report should be submitted within the appropriate time frame with the updated information on the case.

Guideline on good pharmacovigilance practices (GVP) – Module VI (Rev 1) EMA/873138/2011 Rev 1

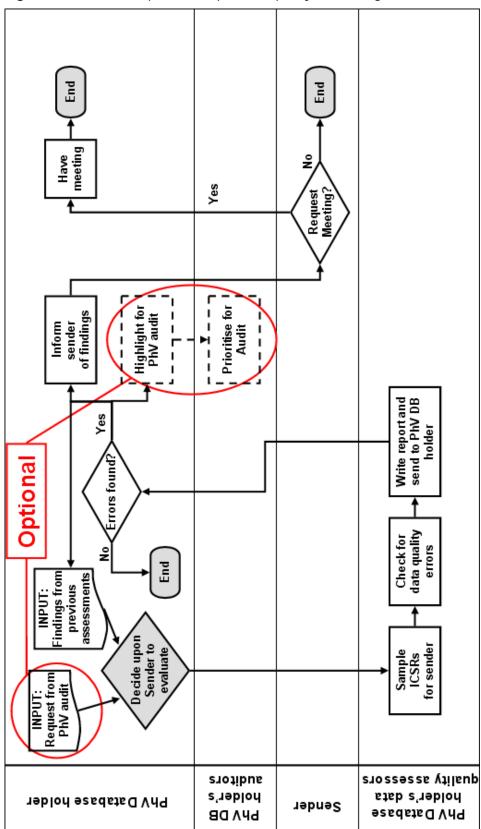
<sup>&</sup>lt;sup>47</sup> As presented in the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs), EMA/13432/2009.

Ex.	Scenario	Action
10	Change of the individual case from serious to non-serious (downgrading).	The case should not be nullified.
		A follow-up report should be submitted with the data element 'Seriousness' (ICH-E2B(R2) A.1.5.1) populated with the value 'No' without selection of a value for the data element 'Seriousness criteria' (ICH-E2B(R2) A.1.5.2).
		The data element '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'.
11	The primary source country has	The case should not be nullified.
changed, which has an impact on the ICH-E2B(R2) convention regarding the creation of the 'Worldwide unique case identification number' (ICH-E2B(R2)	The '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 'Worldwide unique case identification number' (ICH-E2B(R2) A.1.10) should remain unchanged.	
		If, for some technical reason, the sender's local system is not fully ICH-E2B(R2) compliant and cannot follow this policy, then the sender should nullify the original case. A new case should be created 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 'Other case identifiers in previous transmissions' (ICH-E2B(R2) A.1.11).
12	The suspected medicinal product belongs	The case should not be nullified.
	to another marketing authorisation holder (e.g. a product with the same active substance but marketed under a different invented name).	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) used). The original organisation should also submit a follow-up report to provide this new information.
		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.

Ex.	Scenario	Action
13	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).	The case should not be nullified.  The marketing authorisation holder should submit a follow-up report with this information within the appropriate time frame.
14	The case is mistakenly reported by the marketing authorisation holder A although the marketing authorisation holder B as co-marketer is responsible for reporting the case.	The case should not be nullified.  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 reported. 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).

# VI.Appendix 6 Data quality monitoring of ICSRs transmitted electronically

Figure VI.7. Business process map - Data quality monitoring of ICSRs transmitted electronically



2119

2120

Table VI.12. Process description - Data quality monitoring of ICSRs transmitted electronically

2124

2125

2126

2127

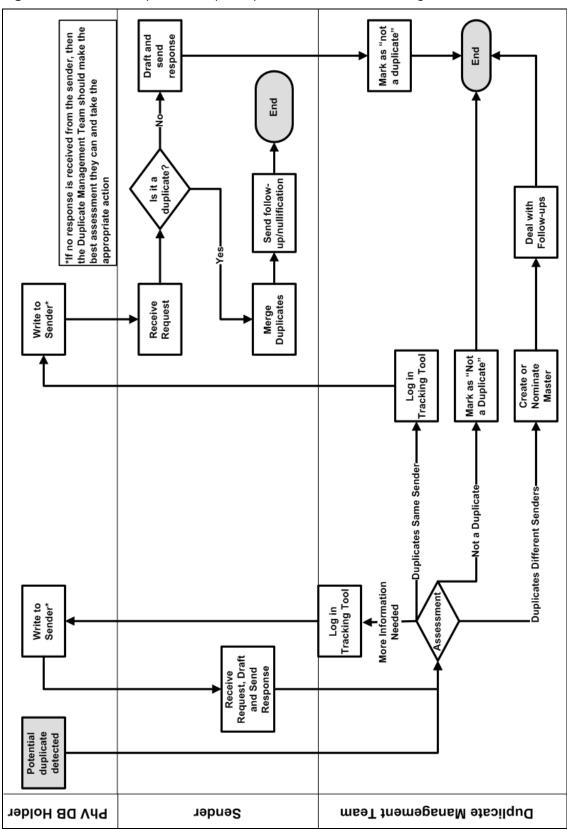
The business map and process description describe a system where there is a separation between a PharmacoVigilance DataBase (PhV DB) holder, the PhV DB holder's data Quality Assessors (QA) and the PhV DB holder's auditors; however this is not mandatory and these functions may be performed by the same people or groups.

No.	Step	Description	Responsible Organisation
1	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.	PhV DB holder
2	Sample ICSRs from Sender.	Take a sample of ICSRs that were transmitted by the selected sender	QA
3	Check for data quality errors.	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.	QA
4	Write report and send to PhV DB holder.	The findings from the data quality assessment should be collated into a single report. These can include related checks, such as 15-day reporting compliance, whether error reports are corrected and similar statistical information.	QA
5	Errors found?	Were any errors found during the analysis of the cases?  If No, go to step 5.1.  If Yes go to steps 5.2, 5.3 & 6.	PhV DB holder
5.1	End.	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 pharmacovigilance database (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.	PhV DB holder
5.2	Highlight for PhV audit.	If the PhV DB holder's organisation has an audit department, any significant findings	PhV DB holder

No.	Step	Description	Responsible Organisation
5.2.1	Prioritise for Audit.	should always be shared with them.  The audit or inspections department should use the information provided to them to feed into decisions about prioritising organisations for audit or inspection.	PhV DB holder's auditors
5.3	INPUT: Findings from previous assessments.	Any errors found (or even lack thereof) should be incorporated into decisions about which senders to evaluate & 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).	PhV DB holder
6	Inform sender of findings.	Inform the sender of the findings, including requested remedial actions (e.g. retransmitting certain cases) and time frames for those actions	PhV DB holder
7	Request meeting?	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 meeting is requested, go to step 7.1.  If a meeting is requested go to step 8.	Sender
7.1	Address the findings & retransmit any required cases.	Address all findings, take necessary steps to prevent recurrence of such findings & retransmit any required cases.	Sender
7.2	End.	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.	Sender
8	Have meeting.	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.	PhV DB holder & Sender
9	End.	Unless further action has been specified (e.g. future meetings or assessments), the process can end until the next time the sender is assessed.	PhV DB holder

### VI.Appendix 7 Duplicate detection and management of ICSRs

#### Figure VI.8. Business process map - Duplicate detection and management of ICSRs



2129

Table VI.13. Process description - Duplicate detection and management of ICSRs

No.	Step	Description	Responsible
			organisation
1	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.	PhV DB holder
2	Assessment.	All potential duplicates need assessment by the organisation Duplicate Management Team (DMT) to confirm or deny their duplicate status.  Following assessment there are 4 possible outcomes:  • 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 duplicate detection methods during future development.	DMT
2.1	Not a Duplicate: Mark as not a duplicate.	If the cases are assessed as not being duplicates of one another, then mark both cases as such.  Go to step 3 (End).	DMT
2.2	More information needed: Log in tracking tool.	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.	DMT
2.2.1	Write to Sender.	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	PhV DB holder

No.	Step	Description	Responsible organisation
		identify an individual.	
2.2.2	Receive request, draft and send response.	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).	Sender
2.3	Duplicates Different Senders: Create or nominate master.	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.	DMT
2.3.1	Deal with follow-ups.	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).	DMT
2.4	Duplicates Same Sender: Log in tracking tool.	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.	DMT
2.4.1	Write to Sender.	The sender organisation, as the source of the duplicates, should be contacted in accordance with chapter 2.3.3 of the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs), EMA/13432/2009.  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.	PhV DB holder
2.4.2	Receive request.	Receive and log the communication	Sender

No.	Step	Description	Responsible organisation
		containing information on suspected duplicates in the Sender's PhV DB.	
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
2.4.3.1	Merge duplicates.	Merge the duplicates, taking into account Flowchart 1 of chapter 2.3.1.3 of the Guideline on the Detection and Management of Duplicate Individual Cases and Individual Case Safety Reports (ICSRs), EMA/13432/2009.	Sender
2.4.3.1.1	Send follow-up/nullification.	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 of the date of receipt of the information from the PhV DB holder that the cases were considered to be possible duplicates. This date should be treated as the date of receipt of most recent information for regulatory reporting purposes.	Sender
2.4.3.1.2	End.	The duplicates have now been 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.  Unless follow-up information is received, then no further steps need be taken.	Sender
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
2.4.3.2.1	Mark as "Not a duplicate".	Upon receipt of confirmation from the Sender organisation that the cases are not duplicates, mark the cases as "Not a duplicate" & go to step 3 (End).	DMT
3	End.	No further action is required for this couple.	DMT