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³ Guideline on good pharmacovigilance practices (GVP)

4 Module V – Risk management systems (Rev 2)

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

- 6 * <u>Note</u>: Revision 2 is a major revision with modifications throughout, based on experience gained over
- 7 the past 3 years and contains the following:
- further clarification of what RMPs should focus on in relation to an important identified or
 important potential risk and missing information;
- 10 removal of duplication within GVP Module V;
- 11 removal of duplication of information in other guidance documents;
- 12 further guidance on the expected changes in the RMP during the life cycle of the product;
- updated requirements for different types of initial marketing authorisation applications, with the
 aim to create risk-proportionate, fit for purpose RMPs.
- 15 The guidance is updated in parallel to an amended RMP template for initial marketing authorisation
- 16 application, which undergoes public consultation in parallel.
- 17 In parallel to this public consultation of GVP Module V Rev 2, the Agency will take into account findings
- 18 from the pilot phase of publishing RMP summaries for centrally authorised products.

See websites for contact details

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© European Medicines Agency and Heads of Medicines Agencies, 2016. Reproduction is authorised provided the source is acknowledged. Questions on which the Agency seeks specific feedback by means of the public consultation:

- The updated risk definitions and guidance on Part II Module SVII of the RMP may lead, in the post-authorisation phase, to a list of safety concerns in the RMP that is a subset of the list of the product safety concerns as defined in the PSUR. What should be the priority of the GVP Module V: a focused RMP list of safety concerns or the full alignment with the PSUR content?
- 2. Should studies conducted by the MAH but neither required nor imposed by the competent authority (previously classified as category 4 studies) be included, for information, in the RMP annex 2?
- 3. Should the additional risk minimisation materials as they were distributed in the Member States be included in the annexes of the RMP (i.e. RMP annex 6 part B)?
- 4. Should section V.B.10 be maintained or deleted (i.e. in the light of the RMP terminology described in V.A.1.)?

20 Table of contents

21	V.A. Introduction	5
22	V.A.1. Terminology	6
23	V.B. Structures and processes	7
24	V.B.1. Principles of risk management	
25	V.B.2. Responsibilities for risk management	
26	V.B.3. Format and contents of the risk management plan (RMP)	
27	V.B.3.1. RMP part I "Product(s) overview"	
28	V.B.4. RMP part II "Safety specification"	
29	V.B.4.1 General considerations for generic products and advanced therapy medicinal	
30	products	12
31	V.B.4.1.1. Generics	12
32	V.B.4.1.2. Advanced therapy medicinal products	12
33	V.B.4.2. RMP module SI "Epidemiology of the indication(s) and target population(s)"	13
34	V.B.4.3. RMP module SII "Non-clinical part of the safety specification"	13
35	V.B.4.4. RMP module SIII "Clinical trial exposure"	14
36	V.B.4.5. RMP module SIV "Populations not studied in clinical trials"	14
37	V.B.4.6. RMP module SV "Post-authorisation experience"	15
38	V.B.4.7. RMP module SVI "Additional EU requirements for the safety specification"	15
39	V.B.4.8. RMP module SVII "Identified and potential risks"	15
40 41	V.B.4.8.1. RMP module SVII section "Identification of safety concerns in the initial RMP submission"	18
42	V.B.4.8.1.a. RMP module SVII sections "Risk considered important for inclusion in the sa	afety
43	specification" and "Risk not considered important for inclusion in the safety specification	
44 45	V.B.4.8.2. RMP module SVII section "Identification of safety concerns with a submission an updated RMP"	
46	V.B.4.8.2.a. RMP module SVII section "Newly identified risks of the product"	19
47	V.B.4.8.2.b. Justification on the safety concerns re-classification (deletion, addition,	
48	downgrade and/or upgrade)	
49 50	V.B.4.8.3. RMP module SVII section "Details of important identified and potential risks, missing information"	
51	V.B.4.9. RMP module SVIII "Summary of the safety concerns"	21
52	V.B.5. RMP part III "Pharmacovigilance plan"	21
53	V.B.5.1. RMP part III section "Routine pharmacovigilance activities"	21
54	V.B.5.1.1. Specific adverse reaction follow-up questionnaires	22
55	V.B.5.1.2. Other forms of routine pharmacovigilance activities	22
56	V.B.5.2. RMP part III section "Additional pharmacovigilance activities"	22
57	V.B.5.3. RMP part III section "Summary table of additional pharmacovigilance activities"	23
58	V.B.6. RMP part IV "Plans for post-authorisation efficacy studies"	24
59 60	V.B.7. RMP part V "Risk minimisation measures (including evaluation of the effectivenes risk minimisation activities)"	
61	V.B.7.1. RMP part V section "Risk minimisation plan"	
62	V.B.7.2. RMP part V section "Summary of risk minimisation measures"	29
63	V.B.8. RMP part VI "Summary of the risk management plan"	
64	V.B.9. RMP part VII "Annexes to the risk management plan"	
65	V.B.9.1. RMP annex 1	30

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

66 67	V.B.9.2. RMP annex 2: Tabulated summary of on-going and completed pharmacoepidemiological study programme	. 30
68	V.B.9.3. RMP annex 3: Protocols for proposed, on-going, and completed studies in the	
69	pharmacovigilance plan	. 31
70 71	V.B.9.3.1. RMP annex 3 – part A: Protocols of proposed studies, submitted for regulatory review with this updated version of the RMP	
72	V.B.9.3.2. RMP annex 3 – part B: Updates of previously approved protocols, submitted fo	r
73	regulatory review with this updated version of the RMP	
74	V.B.9.3.3. RMP annex 3 – part C	
75	V.B.9.4. RMP annex 4: Specific adverse event follow-up forms	
76	V.B.9.5. RMP annex 5: Protocols for proposed and on-going studies in RMP part IV	. 32
77	V.B.9.6. RMP annex 6: Details of proposed additional risk minimisation activities	. 32
78	V.B.9.6.1. RMP annex 6 – part A	. 32
79	V.B.9.6.2. RMP annex 6 – part B	. 32
80	V.B.9.7. RMP annex 7: Other supporting data (including referenced material)	. 32
81	V.B.10. The relationship between the risk management plan and the periodic safety update	
82	report	
83	V.B.10.1. Common modules between periodic safety update report and risk management	
84 05	plan V.B.11. Principles for the assessment of risk management plans by competent authorities	
85		
86	V.B.11.1. Safety specification	
87	V.B.11.2. Pharmacovigilance plan	
88	V.B.11.3. Plans for post-authorisation studies on efficacy	
89	V.B.11.4. Risk minimisation measures	
90	V.B.11.5. Summary of the risk management plan V.B.11.6. When an RMP update is being assessed	
91 02		
92	V.B.12. Quality systems and record management	
93	V.C. Operation of the EU network	
94	V.C.1. Requirements for the applicant/marketing authorisation holder in the EU	
95	V.C.1.1. Risk management plans with initial marketing authorisation applications	
96	V.C.1.1.1. New applications under Article 10(1), i.e. "generic"	
97	V.C.1.1.2. New applications under Article 10c, i.e. "informed consent"	
98	V.C.1.1.3. New applications under Article 10(3), i.e. "hybrid"	
99	V.C.1.1.4. New applications involving fixed combination medicinal products	
100	V.C.1.1.5. New applications under Article 10a, i.e. "well established medicinal use"	. 37
101	V.C.1.2. Risk management plans first submitted not as part of an initial marketing	
102	authorisation application	
103	V.C.1.2.1. New risk management plans at the request of a competent authority to addres one or more safety concerns	
104 105	-	
105	V.C.1.2.2. Unsolicited risk management plan submission in post-authorisation phase	
106	V.C.2. Submission of a risk management plan to competent authorities in the EU	
107	V.C.2.1. Risk management plans updates	
108	V.C.3. Assessment of the risk management plan within the EU regulatory network	
109	V.C.4. Implementation of additional risk minimisation activities	
110	V.C.5. Transparency	.41

111

112 V.A. Introduction

- 113 A medicinal product is authorised on the basis that in the specified indication(s), at the time of
- authorisation, the benefit-risk balance is judged to be positive for the target population. Generally, a
- medicinal product will be associated with adverse reactions and these will vary in terms of severity,
- 116 likelihood of occurrence, effect on individual patients and public health impact. However, not all actual
- 117 or potential adverse reactions will have been identified at the time when an initial marketing
- authorisation is granted and some will only be discovered and characterised in the post-authorisation
- phase. The aim of a risk management plan (RMP) is to address uncertainties regarding the safety
- 120 profile at different points in a medicinal product's life cycle and to plan risk management activities
- accordingly. As knowledge regarding a medicinal product's safety profile increases, it is expected the
- risk management plan will change. To this end, the RMP contains the following:
- identification or characterisation of the safety profile of the medicinal product including what is
 known and not known and, importantly, which risks need to be further characterised or managed
 proactively (the 'safety specification');
- planning of pharmacovigilance activities to characterise and quantify serious or clinically relevant
 risks of adverse reactions, and to identify new adverse reactions (the 'pharmacovigilance plan');
- planning and implementation of risk minimisation measures, including the evaluation of the
 effectiveness of these activities (the 'risk minimisation plan').
- 130 Regulation (EC) No 726/2004, Directive 2001/83/EC and Commission Implementing Regulation (EU)
- 131 No 520/2012 (hereinafter referred to as REG, DIR and IR) include provisions for post-authorisation
- 132 safety studies and post-authorisation efficacy studies to be a condition of the marketing authorisation
- in certain circumstances [REG Art 9(4), Art 10a(1), DIR Art 21a, Art 22a(1)] and for these studies to
- be included in the risk management system [REG 14a, DIR Art 22c, IR Art 30(1)(d)]. The legislation
- also includes provisions for additional risk minimisation activities to be a condition to the marketing
- authorisation [REG Art 9(4), DIR Art 21a]. Marketing authorisation applicants are encouraged to plan
- 137 from very early on in a product's life cycle how they will further characterise and minimise the risks
- associated with the product in the post-authorisation phase.
- 139 Guidance on templates and submission of RMPs is kept up-to-date on the Agency's website¹.
- This Module includes the principles of risk minimisation and should be read in conjunction with GVPModule XVI.
- 142 In this Module, all applicable legal requirements are referenced in the way explained in the GVP
- 143 Introductory Cover Note and are usually identifiable by the modal verb "shall". Guidance for the
- 144 implementation of legal requirements is provided using the modal verb "should".
- The following articles provide the main references in relation to the legal basis for risk managementbut additional articles may also be relevant:
- Directive 2001/83/EC Article 8(3)(ia) and (iaa), Article 21a, Article 22a, Article 22c, Article 104,
 Article 106(c), Article 127a;
- Regulation (EC) No 726/2004 Article 6(1), Article 9(4)(c), (ca), (cb), (cc), Article 10a, Article 14a,
 Article 26(c);

¹ See <u>www.ema.europa.eu</u>

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

- Commission Implementing Regulation (EU) No 520/512 Article 30, Article 31, Article 32, Articles 33, Annex 1;
- 153 Regulation (EC) No 1901/2006 Article 34;
- 154 Regulation (EC) No 1394/2007 Article 14.

155 **V.A.1. Terminology**

156 Without prejudice to the terminology provided in GVP Annex I, more focused definitions of (important)

- identified or potential risks and missing information are developed herein below, to apply in the EU for
 the purpose of the risk management system, as follows:
- 159 Identified risk in the RMP (within this Module referred to as "identified risk")
- An undesirable outcome for which there is sufficient scientific evidence that it is caused by themedicinal product.
- 162 In a clinical trial, the comparator may be placebo, active substance or non-exposure. Where an
- adverse event which is an identified risk for a comparator occurs at a similar (active comparator) or
- 164 higher frequency with a new product, this suggests that the adverse event should also be an identified
- 165 risk for the new product.
- 166 Potential risk in the RMP (within this Module referred to as "potential risk")
- 167 An undesirable outcome for which there is a scientific basis for supposition of a causal relation with the
- 168 medicinal product (e.g. a signal, a class effect plausible also for the new product, findings from (non-)
- 169 clinical studies) but where there is insufficient support to conclude that there is a causal association.
- 170 Important identified risk and important potential risk in the RMP (within this Module referred to as
 171 "important identified risk and important potential risk", or occasionally "important risk")
- 172 An important identified or potential risk is a risk that could have an impact on the benefit-risk balance
- 173 of the product when further characterised and/or if not managed appropriately in daily clinical practice,
- and which therefore would usually lead to further evaluation as part of the pharmacovigilance plan
- 175 within the RMP (e.g. to investigate frequency, severity, seriousness and outcome of this risk under
- 176 normal conditions of use; which populations are particularly at risk) or will require risk minimisation
- 177 activities beyond routine risk communication (see V.B.7.).
- Typically, a potential risk will not be considered 'important' if it has minimal impact on patients or, upon further characterisation, does not require at least routine risk minimisation activities that are
- 180 intended to affect clinical practice, even if a strong causal relationship were found. For example, if a
- potential risk, once confirmed, requires dose reduction or more frequent monitoring in certain
- 182 populations, then that would qualify the potential risk as 'important'. If confirmation of the potential
- risk as an identified risk would not result in any changes of the monitoring requirements, then such a
- 184 potential risk would not usually be considered 'important'.
- 185 Where there is a justified supposition that an adverse reaction might be associated with the long-term
- use, off-label use, or use in populations not studied (e.g. because similar effects have been seen with
- 187 other products of the same class), the adverse reaction should be considered a potential risk, and if
- 188 deemed important, should be included in the RMP as an important potential risk.
- 189

190 <u>Missing information in the RMP (within this Module referred to as "missing information")</u>

- 191 Gaps in knowledge about a medicinal product, related to the anticipated utilisation patterns such as
- 192 long-term use or use in particular patient populations, which could be clinically significant. For193 instance:
- safety profile with long-term use when there are suspected potential risks related to cumulative or
 long-term exposure;
- use is anticipated in populations not studied (e.g. pregnant women or patients with severe renal
 impairment) and the safety profile is expected to be different in these populations;
- off-label use is likely; if a markedly different safety profile than that in the target population is
 suspected, the specific safety concern that might be associated with off-label use should be
 specified rather than the global term 'off label use'.
- 201 Safety concern in the RMP (within this Module referred to as "safety concern")
- Any of the important identified risks, important potential risks, or missing information included in the RMP.
- 204 <u>Risk management system</u>

A set of pharmacovigilance activities and interventions designed to identify, characterise, prevent or minimise risks relating to a medicinal product, including the assessment of the effectiveness of those

- 207 activities and interventions [DIR Art 1(28b)].
- 208 Risk management plan
- A detailed description of the risk management system [DIR Art 1(28c)].
- 210 <u>Risk minimisation activity (used synonymously with risk minimisation measure)</u>
- 211 An intervention intended to prevent or reduce the occurrence of an adverse reactions associated with

the exposure to a medicine, or to reduce their severity or impact on the patient should adverse

- 213 reactions occur.
- 214 Where the terms "(important) identified risk", "(important) potential risk", "missing information" and
- 215 "safety concern" are used in other GVP Modules and not in relation to the RMP, the definitions in GVP
- 216 Annex I apply without the respective focus described above for the EU GVP.

217 V.B. Structures and processes

218 V.B.1. Principles of risk management

- 219 The overall aim of risk management is to ensure that the benefits of a particular medicinal product
- exceed the risks by the greatest achievable margin. The primary aim and focus of the RMP remains
- that of appropriate risk management planning throughout a medicinal product's life cycle. The risk
- management system shall be proportionate to the identified risks and the potential risks of the
- 223 medicinal product, and the need for post-authorisation safety data [DIR Art 8(3)].
- The RMP is a dynamic document that should be updated throughout the life cycle of the product(s).
- 225 This includes the addition of safety concerns where required, but also, as the safety profile is further
- characterised, the removal or reclassification of safety concerns.

- The guidance on risk classification in this document may facilitate that during the life cycle of the products the list of safety concerns in the RMP will be reduced (see also V.A.1. and V.B.4.8.):
- It may be that important potential risks can be removed from the safety specification in the RMP
 (e.g. when accumulating scientific and clinical data do not support the initial supposition, the
 impact to the individual has been shown to be less than anticipated resulting in the potential risk
 not being considered important, or when there is no reasonable expectation that any
 pharmacovigilance activity can further characterise the risk, thus questioning the importance of the
 risk), or they need to be elevated to 'important identified risks' (e.g. if they result in associated
 additional risk minimisation activities).
- In certain circumstances, important identified risks may need to be removed from the safety
 specification (e.g. for products marketed for a long time for which risks and the required risk
 minimisation measures have become fully integrated into standard clinical practice thus reducing
 the risk to a level when is no longer considered an important risk).
- Given the overall aim of obtaining more information regarding the benefit-risk balance in certain populations excluded in the pre-authorisation phase, it is expected that as the product matures, the classification as missing information will not be appropriate anymore once new data become available, or when there is no reasonable expectation that the existing or future feasible pharmacovigilance activities could further characterise the safety profile of the product with respect to the areas of missing information. Summary of product characteristics (SmPC) changes should be made accordingly.
- Finally, with the exception of some patient registries and programmes (such as pregnancy prevention programmes), over time the additional pharmacovigilance activities in the RMP will be completed and thus removed from the RMP. The need to continue additional risk minimisation activities may change, as they become part of the routine practice.

251 V.B.2. Responsibilities for risk management

- The principal organisations directly involved in medicinal products' risk management planning are applicants/marketing authorisation holders and the competent authorities who regulate the medicinal products.
- 255 An applicant/marketing authorisation holder is responsible for:
- having an appropriate risk management system in place [DIR 8(3)(iaa); Art 104(3)(c)];
- 257 ensuring that the knowledge and understanding gained regarding the product's safety profile 258 following its use in clinical practice is critically reviewed. The marketing authorisation holder (MAH) 259 should update the risk management system and monitor pharmacovigilance data to determine 260 whether there are new risks or whether risks have changed or whether there are changes to the 261 benefit-risk balance of medicinal products [Dir Art 104(3)(e)], as described below. The critical 262 review of safety profile of the product is a continuous activity and is reflected in data submitted 263 with Periodic Safety Update Reports (PSUR) (see GVP Module VII), where an RMP submission may 264 or may not be warranted. In addition, there are two specific moments when the MAHs are advised 265 to reflect on the need to review the list of safety concerns and the planned and ongoing 266 pharmacovigilance and risk minimisation activities: with the 5-year renewal and around the 267 submission of the first PSUR following the (first) renewal (usually 8-9 years following the granting 268 of the marketing authorisation - when the assessment of the generic products for the active 269 substance commences).

270 V.B.3. Format and contents of the risk management plan (RMP)

- 271 The RMP consists of seven parts. Part II of the RMP Safety specification is subdivided into modules
- [IR Annex I], so the content can be tailored to the specifics of the medicinal product or re-used in
- other documents (e.g. PSURs). RMP part II modules generally follow the section titles in the safety
- specification of ICH-E2E (see GVP Annex IV). The modular structure aims to facilitate updating of the
- 275 RMP. In addition, in specific circumstances certain RMP modules may have reduced content
- 276 requirements (see V.C.2.1.).
- 277 The submitted RMP should follow the RMP template in IR Annex I². The amount of information,
- 278 particularly in RMP part II, to be provided will depend on the type of medicinal product, its risks, and
- where it is in its life cycle.
- An overview of the parts and modules of the RMP is provided below in Table V.1. [IR Annex I]:
- 281 **Table V.1**. Overview of the RMP parts and modules

Part I	Product(s) overview
Part II	Safety specification
Module SI	Epidemiology of the indication(s) and target population(s)
Module SII	Non-clinical part of the safety specification
Module SIII	Clinical trial exposure
Module SIV	Populations not studied in clinical trials
Module SV	Post-authorisation experience
Module SVI	Additional EU requirements for the safety specification
Module SVII	Identified and potential risks
Module SVIII	Summary of the safety concerns
Part III	Pharmacovigilance plan (including post-authorisation safety studies)
Part IV	Plans for post-authorisation efficacy studies
Part V	Risk minimisation measures (including evaluation of the effectiveness of risk minimisation activities)
Part VI	Summary of the risk management plan
Part VII	Annexes

282 Information in the RMP should be provided in enough detail whilst avoiding unnecessary text that 283 distracts from the key issues to be considered for risk management of the product. However, the 284 safety specifications in the RMP should not be a duplication of data submitted elsewhere; where 285 applicable, the information in the RMP should provide an integrated overview/discussion focusing on 286 the most important risks that have been identified or are anticipated based on pre-clinical, clinical and 287 post-marketing data presented in other modules of the eCTD. Any data included in the RMP should be 288 consistent with other sections of the dossier. Links to relevant sections of the non-clinical and clinical 289 overviews and summaries should be included in the RMP core document.

For new RMP submissions for nationally authorised products with limited safety data in the dossier, the RMP may contain the relevant safety data and discussion, to support the risk identification.

 $^{^2}$ EMA/465932/2013; available on EMA website http://www.ema.europa.eu.

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

- 292 To aid consistency between the information provided in the eCTD and the RMP, Table V.2. indicates
- 293 where information from the eCTD is likely to be discussed in the RMP:
- 294 **Table V.2.** Mapping between RMP modules and eCTD

RMP Module	eCTD
Part I Product(s) overview	Module 2.3 Quality overall summary
	Module 3 Quality
Module SI Epidemiology of the indication(s) and target population(s)	Module 2.5 Clinical overview
Module SII Non-clinical part of the safety	Module 2.4 Non-clinical overview
specification	Module 2.6 Non-clinical written and tabulated summaries
	Module 4 Non-clinical study reports
Module SIII Clinical trial exposure	Module 2.7 Clinical summary - briefly
	Module 5 Clinical Study reports
Module SIV Populations not studied in clinical trials	Module 2.5 Clinical overview
Module SV Post-authorisation experience	Module 2.5 Clinical overview – briefly
Module SVII Identified and potential risks	Module 2.5 Clinical overview (including benefit-risk conclusion)
	Module 2.7 Clinical summary (SPC)
Module SVIII Summary of the safety concerns	Module 2.5 Clinical overview
	Module 2.7 Clinical summary
Part III Pharmacovigilance plan (including post-	Module 2.5 Clinical overview
authorisation safety studies)	Module 2.7 Clinical summary
Part IV Plans for post-authorisation efficacy studies	Module 2.5 Clinical overview
	Module 2.7 Clinical summary
Part V Risk minimisation measures (including	Module 2.5 Clinical overview
evaluation of the effectiveness of risk minimisation activities)	Module 2.7 Clinical summary

Literature referenced in the RMP should be included in RMP annex 7. This should be in the format of links if already included elsewhere in eCTD (see V.B.9.).

297 The description of the parts and modules of an RMP provides guidance on the main topics to be

covered within each specific area. However, some sections may not be relevant to all medicinal

299 products and there may be additional topics that need to be included but are not mentioned in this 300 guidance. The RMP is part of the scientific dossier of a product and as such should be science based

and not promotional.

302 V.B.3.1. RMP part I "Product(s) overview"

- This should provide the administrative information on the RMP and an overview of the product(s). The information presented should be current and accurate in relation to the ongoing application as it is anticipated to appear in the marketing authorisation. When applicable, the changes from an indication already approved should be highlighted in the document.
- 307 The information should include:
- 308 Active substance information:
- active substance(s);

- 910 pharmacotherapeutic group(s) (ATC code);
- name of marketing authorisation holder or applicant;
- medicinal product(s) to which this RMP refers.

313 <u>Administrative information on the RMP:</u>

- data lock point of the current RMP;
- date submitted and the version number of the RMP;
- list of all parts and modules. For RMP updates, modules version number and date of approval
 (opinion date) should be tabulated in this section. High level comment on the rationale for creating
 the update should be included for significant changes to each module;
- authorisation procedure (central, mutual recognition, decentralised, national);
- invented name(s) in the European Economic Area (EEA);
- brief description of the product including:
- 322 chemical class;
- 323 summary of mode of action;
- important information about its composition (e.g. origin of active substance of biologicals,
 relevant adjuvants or residues for vaccines);
- eCTD link to the currently approved PI;
- indications;
- dosage (summary information only related to main population; not a duplication of SmPC section
 4.2);
- pharmaceutical forms and strengths;
- whether the product is subject to additional monitoring in the EU (at initial marketing authorisation application conclusion or with RMP updates).
- 333 The QPPV (see GVP Module I) signature is not required for RMP versions submitted for assessment;
- this can be included in the closing sequence in the finalised approved version of the RMP.

335 V.B.4. RMP part II "Safety specification"

336 The purpose of the safety specification is to provide an adequate discussion on the safety profile of the 337 medicinal product(s), with focus on those aspects that need further risk management activities. It 338 should be a summary of the important identified risks of a medicinal product, important potential risks, 339 and missing information. It should also address the populations potentially at risk (where the product 340 is likely to be used i.e. both as authorised and off-label use), and outstanding safety questions that 341 warrant further investigation to refine understanding of the benefit-risk balance during the post-342 authorisation period. The safety specification forms the basis of the pharmacovigilance plan and the 343 risk minimisation plan.

The safety specification consists of eight RMP modules of which RMP modules SI-SV, SVII and SVIII correspond to safety specification headings in ICH-E2E. RMP module SVI includes additional elements required to be submitted in the EU.

- Although the elements outlined below serve as a guide only, it is recommended that
- 348 applicants/marketing authorisation holders follow the structure provided when compiling the safety
- specification. Where needed for risk management planning purposes, the safety specification mayinclude additional elements such as:
- the disposal of the product where it might pose a particular risk because of remaining active
 substance (e.g. patches);
- innovative pharmaceutical forms;
- use with a medical device and risk associated with the medical device;
- environmental impact;
- exceptionally, quality aspects relevant in relation to the safety of the product and not adequately
 addressed at time of marketing authorisation.
- 358 Details of specific requirements for initial marketing authorisation applications are included in V.C.1.1.

V.B.4.1 General considerations for generic products and advanced therapy medicinal products

361 *V.B.4.1.1. Generics*

362 For generic medicinal products the expectation is that the safety specification is the same as that of 363 the reference product or of other generic products for which an RMP is in place. If discrepancies exist 364 between approved RMPs for such products, then the applicant is expected to propose and justify the 365 most appropriate safety specification for their product. RMP summaries for most recently approved 366 centrally authorised medicinal products (CAPs) are published on EMA website³. The CMDh has 367 published the summary of safety concerns for selected medicinal products for which an RMP is in place, 368 on the CMDh website⁴. Exceptionally, the applicant for a new generic medicinal product may add or 369 remove safety concerns compared with the safety profile of the reference product if this is 370 appropriately justified (for example, when there is a more up to date understanding of the current 371 safety profile or when there are differences in product characteristics compared with the reference 372 product, e.g. there is a risk associated with an excipient present only in some of the products 373 containing the same active substance).

374 V.B.4.1.2. Advanced therapy medicinal products

Under Regulation (EC) No 1394/2007 on advanced therapy medicinal products, certain products for
human medicinal use are categorised within the EU as advanced therapy medicinal products (ATMPs).
These products are fully defined in the above Regulation but broadly comprise:

- gene therapy medicinal products;
- somatic cell therapy medicinal products;
- 380 tissue engineered products.
- 381 Because of the nature of these products, risks may occur that are not normally a consideration with 382 other medicinal products including risks to living donors, risks of germ line transformation and

³ See http://www.ema.europa.eu.

⁴ See http://www.hma.eu/464.html.

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

383 transmission of vectors. This needs to be taken into consideration when developing the safety 384 specification for ATMPs.

V.B.4.2. RMP module SI "Epidemiology of the indication(s) and target 385 386 population(s)"

387 This RMP module should include incidence, prevalence, outcome of the target disease (i.e. indications) 388 and relevant co-morbidity, and should when relevant for assessment of safety and risk management 389 be stratified by age, gender, and racial and/or ethnic origin. Risk factors for the disease and the main 390 existing treatment options should also be described. The emphasis should be on the epidemiology of 391 the proposed indication in the EU. Differences in the epidemiology in different regions should be 392 discussed where it varies across regions.

- 393 This section should also describe the relevant adverse events to be anticipated in the target 394 population, their frequency and characteristics. The text should help anticipate and interpret any potential signals and help identify opportunities for risk minimisation. The text should be kept concise 395 396 and not be promotional.
- 397 For guidance on when information should be provided on co-morbidities in the target population, 398 please consider the following examples:
- 399 if the target population for a medicinal product is men with prostate cancer, the target population 400 is likely to be men over the age of 50 years. They also have an increased risk for myocardial 401 infarction. To identify whether such a medicinal product might be increasing the risk of myocardial 402 infarction, it is important to know how many cases would be expected amongst prostate cancer 403 patients (ideally) or men in the same age group, not taking the medicinal product. Estimation of 404 the risk in the target population, as compared with the same age/gender group in the general 405 population may be particularly important if the disease itself increases the risk.
- 406 if a product is associated with an increased risk of congenital malformations, then it will be useful 407 to have insight into the potential frequency and duration of use in women of childbearing potential, to help decide on the potential need for and the design of effective risk minimisation activities. 408

V.B.4.3. RMP module SII "Non-clinical part of the safety specification" 409

- This RMP module should present a high-level summary of the important non-clinical safety findings, for 410 411 example:
- 412 toxicity (key issues identified from acute or repeat-dose toxicity, reproductive/developmental 413 toxicity, genotoxicity, carcinogenicity);
- 414 safety pharmacology (e.g. cardiovascular system, including QT interval prolongation, nervous 415 system);
- other toxicity-related information or data. 416

417 What constitutes an important safety finding will depend upon the medicinal product, the target 418 population and experience with other similar compounds or therapies in the same class. Normally

- 419 significant areas of toxicity (by target organ system) and the relevance of the findings to the use in
- 420 humans should be discussed. Also, quality aspects if relevant to safety (e.g. important information on
- 421 the active substance or its impurities, e.g. genotoxic impurities) should be discussed. If a product is
- 422 intended for use in women of childbearing age, data on the reproductive/developmental toxicity should 423

- safety finding could constitute an important risk to the target population, it should be included as a
- safety concern in RMP module SVIII. Where the non-clinical safety finding is not considered relevant
- 426 for human beings, provision of a brief explanation is required.
- 427 If, based on the assessment of the non-clinical or clinical data, additional non-clinical studies are428 considered warranted, this should be briefly discussed here.
- Final conclusions on this section should be aligned with content of module SVII and any safetyconcerns should be carried forward to module SVIII.

431 V.B.4.4. RMP module SIII "Clinical trial exposure"

- In this RMP module, in order to assess the limitations of the human safety database, summary
 information on the patients studied in clinical trials should be provided in an appropriate format (e.g.
 tables/graphs). The size of the study population should be detailed using both numbers of patients
 and, where appropriate, patient time exposed to the medicinal product. This should be stratified for
 relevant categories; stratifications would normally include:
- 437 age and gender;
- indication;
- 439 dose;
- other stratifications should be provided where this adds meaningful information for risk
 management planning purposes.
- Paediatric data should be divided by age categories (e.g. ICH-E11⁵); similarly the data on older people
- should be stratified into age categories reflecting the target population (e.g. 65-74, 75-84 and 85
- 444 years and above). For teratogenic drugs, stratification into age categories relating to childbearing445 potential might be appropriate.
- Unless clearly relevant and duly justified, data should not be presented by individual trial but instead,
 they should be pooled. Totals should be provided for each table/graph as appropriate. Where patients
 have been enrolled in more than one trial (e.g. open label extension study following a trial) they should
 only be included once in the age/gender/ethnic origin tables. Reasons for differences in the total
- 450 numbers of patients between tables should be explained.
- 451 When the RMP is being submitted with an application for a new indication, a new pharmaceutical form 452 or route, the clinical trial data specific to the application should be presented separately at the start of
- the module as well as being pooled across all indications.

454 V.B.4.5. RMP module SIV "Populations not studied in clinical trials"

- 455 Populations that are considered under missing information should be described in this RMP module.
- 456 When exclusion criteria from the clinical trial development programme are not proposed as
- 457 contraindications for the medicinal product, then RMP module SIV should also include a discussion on
- the relevant subpopulations, including whether or not any use in populations excluded from the clinical

⁵ See:

http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general_content_000429.jsp&mid=WC0b01ac05 80029590.

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

- trials (e.g. women of childbearing potential, older people) might be associated with a different list ofsafety concerns and should be included as missing information in the RMP.
- 461 In discussing differences between target populations and those exposed in clinical trials it should be
- 462 noted that some differences may arise through trial setting (e.g. hospital or general practice) rather
 463 than through explicit inclusion/exclusion criteria.
- The exposure or the lack of, in special populations (pregnant women, breast-feeding women, renal
- impairment, hepatic impairment, cardiac impairment, sub-populations with relevant genetic
- 466 polymorphisms, immuno-compromised, and different ethnic origins) should be provided where
- 467 available and as appropriate. The degree of renal, hepatic or cardiac impairment should be specified as
- 468 well as the type of genetic polymorphism.

469 V.B.4.6. RMP module SV "Post-authorisation experience"

- 470 If post-marketing data are available from an authorised product from the same MAH containing the 471 same active substance or from post-authorisation experience in other regions outside EU, where the
- 472 product is already authorised, the data should be discussed in this RMP module.
- 473 It should only provide an overview of experience in the post-authorisation phase that is helpful for risk
- 474 management planning purposes. It is not the intention to duplicate information from the PSUR. High-
- 475 level information on the number and characteristics of patients exposed post-authorisation should be
- 476 included, when available.
- Additionally, a discussion on how the medicinal product is being used in practice and on labelled and
- off-label use, including use in the special populations mentioned in RMP module SIV, can also be
 included when relevant for the risk identification discussion in module SVII.
- 480 Where appropriate and relevant for the discussion in SVII, data on unauthorised use in markets
- 481 outside the EU should also be summarised and the implications for the authorisation in the EU should482 be discussed.

V.B.4.7. RMP module SVI "Additional EU requirements for the safety specification"

- Some safety topics were not included in the ICH-E2E format, but are thought to be of particular interest due to either EU legislation or prior experience of a safety issue. This includes:
- the potential for misuse for illegal purposes, and, where appropriate, the proposed means of
 limiting this; e.g. limited pack size, controlled distribution, special medical prescription (see also
 V.B.7.).

490 V.B.4.8. RMP module SVII "Identified and potential risks"

- This RMP module should provide a focussed discussion on the identification of important identified andimportant potential risks, and missing information (i.e. safety concerns).
- 493 Safety topics derived from specific situations/data sources are thought to be of particular interest to be494 discussed in module SVII, as appropriate:
- *potential harm from overdose,* whether intentional or accidental, for example in cases where there
 is a narrow therapeutic margin or potential for major dose-related toxicity, and/or where there is a
 high risk of intentional overdose in the treated population (e.g. in depression). Where harm from

- 498 overdose has occurred during clinical trials this should be explicitly mentioned and, where relevant,
 499 overdose should be included as a safety concern in RMP module SVIII and appropriate risk
 500 minimisation proposed in RMP part V;
- 501 potential for risks resulting from medication errors, defined as an unintended failure in the drug 502 treatment process that leads to, or has the potential to lead to, harm to the patient. Medication 503 errors identified during product development including clinical trials should be discussed and 504 information on the errors, their potential cause(s) and possible remedies given. Where applicable 505 an indication should be given of how these have been taken into account in the final product design. Further guidance on medication errors is provided in Good practice guide on recording, 506 507 coding, reporting and assessment of medication errors⁶ including in "Annex 2 - Design features which should be considered to reduce the risk of medication error" an extensive list of potential 508 509 medication errors and the consequence to the patients. Adverse reactions related to medication 510 errors in the post marketing period should be discussed in the updated RMP and ways of limiting 511 the errors proposed;
- *potential for transmission of infectious agents*, for instance because of the nature of the
 manufacturing process or the materials involved. For live attenuated vaccines any potential for
 transmission of mutated live vaccine virus, and the potential of causing the disease in
 immunocompromised contacts of the vaccine should be discussed;
- *potential for off-label use* should be discussed with a focus on any anticipated differences in safety
 concerns between the target and the off-label population. Off-label use is particularly relevant in
 situations where the medicinal product must not be given for known safety reasons. The potential
 for use in other disease areas should also be considered where this is suspected to be related to a
 different safety profile. In such cases, potential or identified risks arising from the off-label use of
 the product should be considered for inclusion in the safety specifications;
- if a risk common to other members of the pharmacological class is not thought to be an important
 identified or important potential risk with the concerned medicinal product, the evidence to support
 this should be provided and discussed;
- risks related to identified and potential pharmacokinetic and pharmacodynamic interactions should
 be discussed in relation to the treatments for the condition, but also in relation to commonly used
 medications in the target population. The evidence supporting the interaction and possible
 mechanism should be summarised, and the potential health risks discussed for different indications
 and populations. Important (potential) risks following clinically important interactions should be
 considered for inclusion as a safety concern;
- risks in pregnant and lactating women, e.g. teratogenic risk direct or through exposure to
 semen: contraception recommendations can be considered as risk minimisation measures. Further
 guidance on risk management in case of exposure of the embryo / foetus to teratogenic agents can
 be found in the GVP P.III.;
- effect on fertility appropriate risk minimisation measures should be considered, e.g. routine risk
 communication and/or additional activities recommending fertility preservation: sperm
 cryopreservation in men and embryo and oocyte cryopreservation in women.

⁶ EMA/762563/2014; available on EMA website http://www.ema.europa.eu

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

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For RMPs of advanced therapy medicinal products (ATMPs), the applicants should also consider the

539 following possible risks in drafting the safety specifications (see Guideline on Safety and Efficacy

540	Follow-up – Risk Management	of Advanced Therapy Medicinal Products ⁷)

541 risks to living donors, for instance:

- 542 risks to living donors related to their conditioning prior to procurement (e.g. 543 immunosuppression, cytotoxic agents, growth factors);
- 544 risks to living donors related to surgical/medical procedures used during or following 545 procurement, irrespective of whether the tissue was collected or not;
- risks to patients related to quality characteristics of the product, in particular: 546
- 547 species of origin and characteristics of cells (and related body fluids, biomaterials, 548 biomolecules) that are used during manufacturing, and the safety testing performed;
- 549 characteristics of vectors for gene therapy medicinal products;
- 550 biologically active substances used in manufacturing (e.g. enzymes, antibodies, cytokines, 551 sera, growth factors, antibiotics);
- 552 quality assurance and characteristics of the finished product in terms of defined composition, 553 stability, biological activity, and purity with reference to non-physiologic proteins and 554 fragments thereof;
- 555 risk related to transmissible diseases (e.g. viral, bacterial, parasitical infections and 556 infestations, but also malignant disease);
- 557 risks to patients related to the storage and distribution of the product, for instance:
- 558 risks related to preservation, freezing and thawing;
- risks of breaking the cold chain or other type of controlled temperature conditions; 559
- 560 risks related to stability of the product; _
- 561 risks to patients related to administration procedures, for instance:
- 562 biologically active substances used in preparation of the product prior to administration (e.g. _ 563 enzymes, antibodies, cytokines, sera, growth factors, antibiotics);
- 564 risks related to conditioning of the patient;
- 565 risks of related medical or surgical procedures (e.g. anaesthesia, infusion, transfusion, implantation, transplantation or other application method); 566
- 567 risks related to clinical follow-up (e.g. immunosuppression as co-medication or as necessary 568 for treatment of complications, diagnostic procedures, hospitalisation);
- 569 risks related to mistakes or violations of the standard procedures for administration of the 570 product (e.g. different administration procedures used by different healthcare 571 establishments/healthcare professionals resulting in differing outcomes);
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⁷ EMEA/149995/2008; available on EMA website http://www.ema.europa.eu

- risks related to interaction of the product and the patient, for instance:
- unwanted immunogenicity and its consequences (including e.g. anaphylaxis, graft versus host
 disease, graft rejection, hypersensitivity reactions, immune deficiencies);
- 577 risks related to both intended and unintended genetic modification of the patient's cells 578 (apoptosis, change of function, alteration of growth and/or differentiation, malignancy);
- 579 early and late consequences of homing, grafting, differentiation, migration and proliferation;
- risks related to infection with vectors used in gene therapy medicinal products (type of vector, target cells, persistence, potential for latency and reactivation, potential for integration of genetic material into the host genome, prolonged expression of the transgene, altered expression of the host's genes);
- risks related to scaffolds, matrices and biomaterials (e.g. biodegradation, mechanical factors);
- risks related to persistence of the product in the patient:
- 586 availability of rescue procedures or antidotes and their risks;
- 587 late complications, particularly malignancies and auto-immunity;
- considerations on the potential impact of previous, concomitant, or future therapies typical for
 the diagnosis or treatment of the respective disease on the product, or *vice versa* impact of the
 product on those other therapies (e.g. an immunoglobulin treatment later in life could impact
 on expression of the introduced gene by antibody interaction);
- risks related to re-administration, for instance:
- 593 immune reactions anaphylaxis, neutralising antibodies;
- 594 risks related to repeated surgical or administration procedures;
- risks to close contacts, for instance:
- 596 based on the environmental risk assessment, virus shedding and its consequences;
- specific parent-child risks, for instance:
- 598 risk of germ line integration of transgene, or other genetic transformation of the germ line;
- 599 foetal transmission (of e.g. vectors, biologically active substances, cells, infectious agents);
- 600 trans-mammary exposure of children in breast-feeding women (to e.g. vectors, biologically
 601 active substances, cells, infectious agents).

V.B.4.8.1. RMP module SVII section "Identification of safety concerns in the initial RMP submission"

This RMP section should contain the initial identification of safety concerns and is expected to be populated for RMPs submitted with the initial marketing authorisation (MA) application, or with a new RMP submitted post-authorisation (at the competent authority's request or without request).

607V.B.4.8.1.a. RMP module SVII sections "Risk considered important for inclusion in the safety608specification" and "Risk not considered important for inclusion in the safety specification"

In this RMP section, for each risk, the following information should be summarised and discussed:

- (for risks taken forward as safety concerns] the level of scientific evidence of an association
 (including when relevant a causality assessment);
- seriousness;
- frequency;
- clinical and benefit-risk impact;
- 615 [for risks not taken forward as safety concerns] the justification for not including them as a safety
 616 concern.

V.B.4.8.2. RMP module SVII section "Identification of safety concerns with a submission of an updated RMP"

- 619 For post-authorisation RMP updates, newly identified risks not considered important or missing
- 620 information, for which new significant emerging data is available since the last submission of the RMP,621 should be discussed in this RMP section.

622 V.B.4.8.2.a. RMP module SVII section "Newly identified risks of the product"

Data presented in this RMP section shall follow same requirements as detailed in V.B.4.8.1.1.

V.B.4.8.2.b. Justification on the safety concerns re-classification (deletion, addition, downgrade and/or upgrade)

626 When an important risk or missing information is re-classified or removed, a justification should be 627 provided in this RMP section.

628 **V.B.4.8.3. RMP module SVII section "Details of important identified and potential risks, and** 629 **missing information**"

- 630 For RMPs covering multiple products where there may be significant differences in the identified and
- potential risks or missing information for different products (e.g. fixed dose combination products), it is
- appropriate to make it clear which safety concerns relate to which product.
- 633 This RMP section applies to all stages of the product's life cycle.

634 **Presentation of important identified and important potential risks data:**

- name of the risk (using MedDRA terms when appropriate);
- frequency (e.g. incidence rates with confidence intervals);
- 637 potential mechanism;
- evidence source(s) and strength of the evidence (i.e. the scientific basis for suspecting the association);
- impact on the individual patient (e.g. absolute risk, relative risk, severity, reversibility, and long term outcomes, as well as quality of life);
- risk factors and risk groups (including patient factors, dose, at risk period, additive or synergistic factors);

- preventability (i.e. predictability of a risk; whether risk factors have been identified that can be
 minimised by routine or additional risk minimisation activities other than general awareness using
 the PI; possibility of detection at an early stage which could mitigate seriousness);
- impact on the benefit-risk balance of the product;
- public health impact (e.g. absolute risk in relation to the size of the target population and
 consequently actual number of individuals affected, or overall outcome at population level).

650 **Presentation of missing information data**:

- name of the missing information (using MedDRA terms when appropriate);
- description of the risk anticipated in the population not studied, or the description of a population
 in need of further characterisation;
- evidence that the safety profile is expected to be different than in the general target population;
- the changes in the benefit-risk balance that are anticipated if a causal relation between a further
 characterised risk and the product is confirmed to be strong (i.e. worst case scenario).

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658 V.B.4.9. RMP module SVIII "Summary of the safety concerns"

- In this RMP module, a list of safety concerns should be provided with the following categories:
- 660 important identified risks;
- important potential risks;
- missing information.

663 V.B.5. RMP part III "Pharmacovigilance plan"

- The purpose of the pharmacovigilance plan in part III of the RMP is to present an overview and discuss
 how the applicant/marketing authorisation holder plans to further characterise the risks identified in
 the safety specification. It provides a structured plan for:
- the investigation of whether a potential risk is real or not;
- further characterisation of safety concerns including severity, frequency, and risk factors;
- how missing information will be sought;
- measuring the effectiveness of risk minimisation measures.
- 671 It does NOT include actions intended to reduce, prevent or mitigate risks; these are discussed in RMP672 part V.
- 673 The pharmacovigilance plan should focus on the safety concerns summarised in RMP module SVIII of
- the safety specifications and should be proportionate to the benefits and risks of the product. Early
- discussions between competent authorities and the applicant/marketing authorisation holder are
- recommended to identify whether, and which, additional pharmacovigilance activities are needed and
- 677 consequently milestones should be agreed.
- 678 Pharmacovigilance activities can be divided into routine and additional pharmacovigilance activities.

679 V.B.5.1. RMP part III section "Routine pharmacovigilance activities"

- 680 Routine pharmacovigilance is the primary/minimum set of activities required for all medicinal products
- as per the obligations set out in Directive 2001/83/EC and Regulation (EC) No 726/2004. Signal
- detection, which is part of routine pharmacovigilance, is an important element in identifying new risks
 for all products. The descriptions of these activities in the pharmacovigilance system master file (see
- 684 GVP Module II) are not required to be repeated in the RMP.
- The Pharmacovigilance Risk Assessment Committee (PRAC), the Committee for Medicinal Products for
- 686 Human Use (CHMP) or the Coordination Group for Mutual recognition and Decentralised Procedures –
- 687 Human (CMDh) may make recommendations for specific activities related to the collection, collation,
- assessment and reporting of spontaneous reports of adverse reactions which differ from the normal
- 689 requirements for routine pharmacovigilance (see GVP Module I). If these recommendations include
- 690 recording of tests (including in a structured format) that would form part of normal clinical practice for 691 a patient experiencing the adverse reaction, then this requirement would still be considered routine.
- 692 The routine pharmacovigilance section of the pharmacovigilance plan should be used in these
- 693 circumstances to explain how the applicant will modify its routine pharmacovigilance activities to fulfil
- any special PRAC, CHMP or CMDh recommendations on routine pharmacovigilance.

- 695 However, if the recommendation includes the submission of tissue or blood samples to a specific
- 696 laboratory (e.g. for antibody testing) that is outside "normal" clinical practice, then this would
- 697 constitute an additional pharmacovigilance activity.
- 698 This RMP section should describe only the routine pharmacovigilance activities beyond adverse reaction 699 reporting and signal detection.

700 V.B.5.1.1. Specific adverse reaction follow-up questionnaires

- 701 Where an applicant/marketing authorisation holder is requested, or plans, to use specific
- 702 questionnaires to obtain structured information on reported suspected adverse reactions of special 703 interest, the use of these materials should be described in the routine pharmacovigilance activities
- 704 section and copies of these forms should be provided in RMP annex 4.
- 705 Without prejudice to the originality of the format of the questionnaire(s), it is in the interest of public
- 706 health that questionnaire(s) used by different applicants/marketing authorisation holders for the same
- 707 adverse event should be kept as similar as possible, in order to deliver a consistent message and
- 708 decrease the burden on healthcare professionals. Therefore, marketing authorisation holders are
- 709 strongly encouraged to share the content of their questionnaire(s) upon request from other marketing 710 authorisation holders.

711 V.B.5.1.2. Other forms of routine pharmacovigilance activities

- 712 Other forms of routine pharmacovigilance activities to be described in this section include e.g.
- 713 enhanced passive surveillance, requested observed versus expected analyses in the PSUR, requested
- 714 re-evaluation of risks in the PSURs, cumulative reviews of adverse events of interest.

V.B.5.2. RMP part III section "Additional pharmacovigilance activities" 715

- 716 For each safety concern, the applicant/marketing authorisation holder should list in this RMP section 717 their planned additional pharmacovigilance activities for that concern, detailing what information is
- 718
- expected to be collected that can lead to a more informed consideration of the benefit-risk balance.
- 719 Additional pharmacovigilance activities are pharmacovigilance activities that are not considered 720 routine. They may be non-clinical studies, clinical trials or non-interventional studies. Examples include 721 long-term follow-up of patients from the clinical trial population or a cohort study to provide additional 722 characterisation of the long-term safety of the medicinal product. When any doubt exists about the 723 need for additional pharmacovigilance activities, consultation with a competent authority should be 724 considered.
- 725 Studies in the pharmacovigilance plan aim to identify and characterise risks, to collect further data 726 where there are areas of missing information or to evaluate the effectiveness of additional risk 727 minimisation activities. They should relate to the safety concerns identified in the safety specification,
- 728 be feasible and not be promotional.
- 729 Pharmacoepidemiology studies included in the pharmacovigilance plan should be designed and
- 730 conducted according to the respective legislation in place, recommendations in the GVP Module VIII.
- 731 MAAs and MAHs may submit to EMA or national competent authorities PASS protocols for Scientific 732 Advice.
- - 733 Until completion of the study and submission to the competent authorities of the final study report,
 - 734 protocols for studies in the pharmacovigilance plan should be provided in RMP annex 3. RMP annex 3 –
 - 735 part A should contain protocols submitted for assessment, when the protocol submission has been

- requested by the competent authority; RMP annex 3 part B should contain protocols that have been
- agreed with competent authorities and are being submitted with the RMP for amendment, when the
- 738 protocol submission has been requested by the competent authority; RMP annex 3 part C should
- contain protocols already approved and other category 3 studies protocols, submitted for informationonly (see V.B.10.).
- 741 Milestones, including a time point for the final study report submission to the competent authority, 742 should be included.

V.B.5.3. RMP part III section "Summary table of additional pharmacovigilance activities"

- 745 This RMP section outlines the pharmacovigilance activities designed to identify and characterise risks 746 associated with the use of a medicinal product. Some may be imposed as conditions of the marketing 747 authorisation, either because they are key to the benefit-risk profile of the product (category 1 studies in the pharmacovigilance plan), or because they are specific obligations in the context of a conditional 748 749 marketing authorisation (MA) or a MA under exceptional circumstances (category 2 studies in the 750 pharmacovigilance plan). If the condition or the specific obligation is a non-interventional PASS, it will be subject to the supervision set out in Art 107 (m)-(q) of Directive 2001/83/EC and the format and 751 content of such non-interventional PASS as described in IR Annex III (see GVP Module VIII). 752
- Other studies required in the pharmacovigilance plan are legally enforceable (category 3 studies in the
 pharmacovigilance plan). The summary table of the pharmacovigilance plan should provide clarity to all
 stakeholders as to which category an activity in the pharmacovigilance plan falls under (see Table
 V.3.).
- 757 Studies required in jurisdictions outside the EU should not be included in the RMP unless they are also 758 imposed as a condition to the MA or as a specific obligation, or required by the Agency or a national 759 competent authority. Studies not required by the EU or national competent authority should not be 760 included in the pharmacovigilance plan in the RMP. This is without prejudice to safety concerns arising 761 from any such studies, which should be reported as per the applicable legislation.
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Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

775 **Table V.3.** Attributes of additional pharmacovigilance activities

	Type of activity	In annex II of MA	Study category	Status	Supervised under	
	51	(CAPs only)	(PhV Plan)		Article 107m	Article 107 n-q
Imposed PASS	"Interventional"*	\checkmark	1	Mandatory and subject to penalties		
	Non- interventional	\square			V	V
Specific obligation	"Interventional"*	\checkmark	2	Mandatory and subject to penalties		
	Non- interventional	$\mathbf{\overline{\mathbf{A}}}$			V	V
Required	"Interventional"*		3	Legally enforceable		
	Non- interventional				V	

*Clinical interventional studies are subject to the requirements of Directive 2001/20/EC. Non-clinical interventional

studies are subject to the legal and ethical requirements related to the protection of laboratory animals, and GoodLaboratory Practice as appropriate.

For generic products, the pharmacovigilance plan will reflect the outstanding needs for

pharmacovigilance investigations at the time of the approval. In some cases, ongoing or planned PASS
for the originator would also be required to be conducted for the generic products (e.g. registries may
need to be in place to include most/all patients treated with the medicine, be it generic or originator
products). Where applicable, the MAHs are encouraged to set up joint PASS, for instance in the case of
registries or when a referral has resulted in an imposed PASS for all authorised medicinal products

containing a named substance in a specified indication.

786 V.B.6. RMP part IV "Plans for post-authorisation efficacy studies"

This RMP part should include a list of post-authorisation efficacy studies (PAES) imposed as conditions
of the marketing authorisation or when included as specific obligations in the context of a conditional
MA or a MA under exceptional circumstances. If no such studies are required, RMP Part IV may be left
empty where not applicable.

For most medicines there will be no need for post-authorisation efficacy studies. However, there may be circumstances where efficacy data in the authorised indications need to be obtained in the postauthorisation phase, e.g. where there are concerns about efficacy that can only be resolved after the

- 793 automisation phase, e.g. where there are concerns about efficacy that can only be resolved after 794 product has been marketed, or when new knowledge about the disease or the clinical methodolog
- product has been marketed, or when new knowledge about the disease or the clinical methodology
 used to investigate efficacy indicate that previous efficacy evaluations may need significant revision.
- 796 PAES may be requested from marketing authorisation holders in accordance with REG Art 9(4)(cc) and
- 797 Art 10a(1)(b) and DIR Art 21a(f) and Art 22a(1), as well as Commission Delegated Regulation (EU) No
- 798 357/2014. Post-authorisation efficacy studies can also be imposed as specific obligations for a
- marketing authorisation in accordance with REG Art 14(7) or Art 14(8) or DIR Art 22.
- Regulation (EC) No 1901/2006 on medicinal products for paediatric use) and Regulation (EC) No
 1394/2007 on advanced therapy medicinal products specify the potential need for long-term follow-up
 of efficacy as part of post-authorisation surveillance for certain medicinal products, namely:
- applications for a marketing authorisation that include a paediatric indication;

- applications to add a paediatric indication to an existing marketing authorisation;
- application for a paediatric use marketing authorisation;
- advanced therapy medicinal products.
- The request for a PAES refers solely to the current indication(s) and not to studies investigating additional indications.

V.B.7. RMP part V "Risk minimisation measures (including evaluation of the effectiveness of risk minimisation activities)"

- This part V of the RMP should provide details of the risk minimisation measures which will be taken to reduce the risks associated with respective safety concerns. Consideration must be given to the risk proportionality of the risk minimisation activity proposed, the feasibility of implementing any additional risk minimisation activity in all Member States, whether the proposed measures are necessary for the safe and effective use of the product in all patients, and the possibility to adapt distribution modalities for such risk minimisation activities so as best to suit different healthcare settings.
- 817 For active substances where there are individual products with substantially different indications or
- 818 target populations, it may be appropriate to have a risk minimisation plan specific to each product, for
- 819 example for products with different legal status for the supply of medicinal products to patients (e.g.
- prescription-only) medicinal products where the indications lie in different medical specialities and have
- different safety concerns associated, or active substances where risks differ according to the targetpopulation.
- 823 The need for continuing risk minimisation measures should be reviewed at regular intervals and the
- 824 effectiveness of risk minimisation activities assessed (see V.B.7.). Guidance on additional risk
- 825 minimisation measures and the assessment of the effectiveness of risk minimisation measures is
- 826 provided in GVP Module XVI.

827 Routine risk minimisation activities

- 828 Routine risk minimisation activities are those which apply to every medicinal product. These relate to:
- the summary of product characteristics;
- the labelling (e.g. on inner and outer carton);
- the package leaflet;
- the pack size(s);
- the legal status of the product.
- 834 Even the formulation itself may play an important role in minimising the risk of the product.

835 Summary of product characteristics (SmPC) and package leaflet (PL)

- 836 The summary of product characteristics and the package leaflet are important tools for risk
- 837 minimisation as they constitute a controlled and standardised format for informing healthcare
- 838 practitioners and patients about the medicinal product. The Guideline on Summary of Product
- 839 Characteristics provides guidance on how information should be presented.
- 840 Both materials provide routine risk minimisation recommendations; however, there are two types of 841 messages the SmPC and PL can provide:

- routine risk communication messages: usually found in section 4.8 of the SmPC or section 4 of
 the PL; these messages communicate to healthcare professionals and patients the side effects of
 the medicinal product, so that an informed decision on the treatment can be made;
- routine risk minimisation activities beyond routine risk communication: usually found in sections 4.2 and 4.4 of the SmPC but can also be found in sections 4.6 and 4.5 and accordingly sections 2 and 3 of the PL; warning and precaution messages and recommendations in the SmPC will include information on minimising the risk of the product by e.g.:
- 849 performing a test before the start of treatment;
- 850 monitoring of laboratory parameters during treatment
- 851 monitoring for new signs and symptoms
- adjusting the dose or stopping the treatment when adverse events are observed or laboratory
 parameters change
- 854 performing a wash-out procedure after treatment interruption
- 855 providing contraception recommendations
- 856 prohibiting the use of other medicines while taking the product
- 857 treating or preventing the risk factors that may lead to an adverse event of the product
- 858 providing long-term clinical follow-up to identify in early stages delayed adverse events.

859 Pack size

Since every pack size is specifically authorised for a medicinal product, planning the number of "dosage units" within each pack and the range of pack sizes available can be considered a form of routine risk management activity. In theory, controlling the number of "dosage units" should mean that patients will need to see a healthcare professional at defined intervals, thus increasing the opportunity for testing and reducing the length of time a patient is without review. In extreme cases, making units available in only one pack size to try to link prescribing to the need for review may be considered.

A small pack size can also be useful, especially if overdose or diversion are thought to be major risks.

868 Legal status

869 Controlling the conditions under which a medicinal product may be made available can reduce the risks

- associated with its use or misuse. This can be achieved by controlling the conditions under which amedicinal product may be prescribed or administered.
- 872 The marketing authorisation must include details of any conditions or restrictions imposed on the
- supply or the use of the medicinal product, including the conditions under which a medicinal product
- may be made available to patients. This is commonly referred to as the "legal status" of a medicinal
- product. Typically it includes information on whether or not the medicinal product is subject to
- 876 medicinal prescription [DIR Art 71(1)]. It may also restrict where the medicinal product can be
- administered (e.g. in a hospital) or by whom it may be prescribed (e.g. specialist).
- 878 For medicinal products only available on prescription, additional conditions may be imposed by
- classifying them into those available only upon either a restricted medical prescription, or upon a
 special medical prescription.

881 <u>Restricted medical prescription</u>

- This may be used to control who may initiate treatment, prescribe the medicinal product and the setting in which the medicine can be given or used. According to EU legislation, when considering classification of a medicinal product as subject to restricted medical prescription, the following factors shall be taken into account [DIR Art 71(3)]:
- the medicinal product, because of its pharmaceutical characteristics or novelty or in the interests of
 public health, is reserved for treatments which can only be followed in a hospital environment;
- the medicinal product is used in the treatment of conditions which must be diagnosed in a hospital
 environment or in institutions with adequate diagnostic facilities, although administration and
 follow-up may be carried out elsewhere, or
- the medicinal product is intended for outpatients but its use may produce very serious adverse
 reactions requiring a prescription drawn up as required by a specialist and special supervision
 throughout the treatment.
- 894 <u>Special medical prescription</u>
- For classification as 'subject to special medical prescription', the following factors shall be taken into account [DIR Art 71(2)]:
- the medicinal product contains, in a non-exempt quantity, a substance classified as a narcotic or a
 psychotropic substance within the meaning of the international conventions in force, such as the
 United Nations Conventions of 1961 and 1971;
- the medicinal product is likely, if incorrectly used, to present a substantial risk of medicinal abuse,
 to lead to addiction or be misused for illegal purposes, or
- the medicinal product contains a substance which, by reason of its novelty or properties, could be
 considered as belonging to the group envisaged in the second indent as a precautionary measure.

904 Categorisation at Member State level

- There is the possibility of implementing sub-categories at Member State level, which permits the
- 906 Member States to tailor the above-mentioned classifications to their national situation. The definitions
- and therefore also the implementation vary in those Member States where the sub-categories exist.

908 Additional risk minimisation activities

- Additional risk minimisation activities should only be suggested when essential for the safe and
- 910 effective use of the medicinal product. If additional risk minimisation activities are proposed, these
- should be detailed and a justification of why they are needed provided. Any communication material
- should be clearly focused on the risk minimisation goals, and should not be combined with promotional
- material for marketing campaigns. The need for continuing with such measures should be periodicallyrevisited.
- 915 Marketing authorisation applicants/holders are encouraged to discuss risk minimisation plans with the
- 916 competent authorities as early as is feasible e.g. when it is likely that specific risk minimisation
- 917 activities will need to be adapted to the different healthcare systems in place in the different Member
- 918 States. When drafting the Risk Minimisation Plan, the applicants are advised to consult patients and
- 919 healthcare professionals and discuss the proposed risk minimisation activities, as appropriate and when
- 920 possible.

- 921 Where relevant, details of additional risk minimisation activities should be provided in RMP Annex 6 –
- Protocols for proposed and on-going studies in categories 1-3 of the section "Summary table of
- 923 additional pharmacovigilance activities" in RMP part III.
- 924 The final version of the risk minimisation materials (educational materials, patient alert cards etc.) and
- the distribution plan will need to be approved by the national competent authority for the territory in
- 926 which it will be used. Patient alert cards for centrally authorised products are part of the QRD and they
- 927 are therefore agreed and translated centrally.
- 928 Without prejudice to the originality of the format of the educational materials, it is in the interest of
- 929 public health that educational materials used by different applicants/marketing authorisation holders
- for the same active substance be kept as similar as possible, in order to deliver a consistent message
 and avoid confusion in the target audience (see GVP Module XVI Addendum I Educational materials).
- and avoid confusion in the target audience (see GVP Module XVI Addendum I Educational materials).
- For medicinal products approved non-centrally, in situations where the need for additional riskminimisation may vary across member states, the RMP can reflect that the need for (and content of)
- additional risk minimisation can be agreed at a national level.
- 935 Further guidance on additional risk minimisation measures is provided in GVP Module XVI.

936 Evaluation of the effectiveness of risk minimisation activities

- 937 The success of risk minimisation activities needs to be evaluated throughout the life cycle of a product938 to ensure that the burden of adverse reactions is minimised and hence the overall benefit-risk balance
- 939 is optimised.
- 940 When the RMP is updated, the risk minimisation plan should include a discussion of the impact of
- additional risk minimisation activities. Where relevant, such information may be presented by region. A
- discussion on the results of any formal assessment(s) of additional risk minimisation activities should
- be included when available. As part of this critical evaluation, the marketing authorisation holder
- should make observations on factors contributing to the success or weakness of risk minimisation
- activities. If a particular risk minimisation strategy proves ineffective, or to be causing an excessive or
- 946 undue burden on patients or the healthcare system then consideration should be given to alternative
- activities. The marketing authorisation holder should comment on whether additional or different risk
- 948 minimisation activities are needed for each safety concern or whether in their view the (additional) risk
- 949 minimisation measures may be removed (e.g. when risk minimisation measures have become part of 950 standard clinical practice).
 - 951 If a study to evaluate the effectiveness of risk minimisation activities is required or imposed by the952 competent authority, the study should be included in the pharmacovigilance plan, part III of the RMP.
 - Guidance on monitoring the effectiveness of risk minimisation activities is included in the GVP ModuleXVI.

955 V.B.7.1. RMP part V section "Risk minimisation plan"

- 956 In the RMP section on the risk minimisation plan, for each safety concern in the safety specification,957 the following information should be provided:
- routine risk minimisation activities, including details of whether only inclusion in the SmPC and PL
 is foreseen or any other routine risk minimisation activities are proposed;

- additional risk minimisation activities (if any), individual objectives and justification of why needed;
 for each additional risk minimisation activity, the following information on measuring their
 effectiveness should be presented:
- 963 how the effectiveness of each (or all) of the risk minimisation activities will be evaluated in
 964 terms of attainment of their stated objectives;
- 965 what the target is for the additional risk minimisation measures, i.e. what are the criteria for
 966 judging success;
- 967 milestones for reporting on the effectiveness of the additional risk minimisation measures as
 968 well as milestones for evaluating the need to maintain the activities (e.g. at renewal and
 969 thereafter with the PSURs).

970 V.B.7.2. RMP part V section "Summary of risk minimisation measures"

A table listing the routine and additional risk minimisation activities by safety concern should be

provided in this RMP section (e.g. the SmPC section number where the risk appears in the SmPC, the

973 list of educational materials). A further summary of pharmacovigilance activities should be included, as

974 described in the EMA Guidance on Format of the Risk Management Plan in the EU⁸.

975 V.B.8. RMP part VI "Summary of the risk management plan"

A summary of the RMP for each authorised medicinal product shall be made publicly available and shall
include the key elements of the risk management plan [REG Art 23(3), Art 26(1)(c), DIR Art 106(c), IR
Art 31(2)].

Part VI of the RMP shall be provided by the marketing authorisation applicant/holder for medicinal
products which have an RMP, regardless of whether they are centrally or nationally authorised in the
EU. Based on the information contained in part VI of the RMP, for centrally authorised products, the
Agency should publish the RMP summary on the EMA website at the time of the European Commission
Decision together with the other documents of the European Public Assessment Report (EPAR) of that
medicine. For nationally authorised products, a summary of the RMPshould be published on the
national competent authorities' websites.

- 986 Where an RMP concerns more than one medicinal product, a separate public RMP summary shall be 987 provided for each medicinal product [IR Art 31(2)].
- The RMP summary should be updated when important changes are introduced into the full RMP.Changes should be considered important if they relate to the following:
- new important risks or important changes to an important risk (or removal of a safety concern that
 is no longer considered important);
- inclusion or removal of additional risk minimisation measures;
- major changes to the pharmacovigilance plan (e.g. addition of new studies or completion of ongoing studies).

⁸ EMA/465932/2013; available on EMA website http://www.ema.europa.eu

- 995 The audience of RMP summaries is very broad. To ensure that the summary can satisfy the different 996 needs, it should be written and presented clearly, using a plain-language approach⁹. However, this
- 997 does not mean that technical terms should be avoided. The document should clearly explain its 998 purpose and how it relates to other information, in particular the product information (i.e. the SmPC,
- 999 the PL and the labelling).
- 1000 The summary of the RMP part VI should be consistent with the information presented in RMP part II 1001 modules SVII, SVIII and RMP parts III, IV and V. It should contain the following information:
- 1002 the medicine and what it is used for;
- 1003 summary of safety concerns and missing information;
- 1004 routine and additional risk minimisation measures;
- 1005 additional pharmacovigilance activities.

1006 V.B.9. RMP part VII "Annexes to the risk management plan"

1007 The RMP should contain the annexes listed below (if applicable). If the RMP applies to more than one

1008 medicinal product, usually it would be expected that the annexes will be relevant for all products.

Particular aspects not applicable to all medicinal products in the RMP should be highlighted (e.g. a 1009

1010 follow-up form in annex 4 might only be applicable to the products containing the active substance that

1011 is causally linked to the event; educational material in annex 6 might only be applicable to the RMP.

V.B.9.1. RMP annex 1 1012

1013 Annex 1 of the RMP is the structured electronic representation of the EU Risk Management Plan. It is 1014 not required to be submitted in eCTD, the electronic file should be submitted in accordance to V.C.2. 1015 and the guidance on EudraVigilance website¹⁰.

V.B.9.2. RMP annex 2: Tabulated summary of on-going and completed 1016 1017 pharmacoepidemiological study programme

- 1018 This annex should include a tabulation of studies included in the pharmacovigilance plan (current or in 1019 previous RMP versions; category 1, 2 and 3 studies), as follows:
- ongoing studies, including objectives, safety concern addressed, and the planned dates of 1020 1021 submission of intermediate and final results:
- completed studies, including objectives, safety concern addressed, and the date of submission of 1022 1023 results to the competent authorities (effective, planned, or state the reason for not submitting the 1024 results).
- Studies conducted by the MAH but neither required nor imposed by the competent authority 1025
- 1026 (previously classified as category 4 studies) can also be included for information in annex 2.

http://www.plainenglish.co.uk/campaigning/past-campaigns/legal/drafting-in-plain-english.html

⁹ Plain-language approach includes organising information logically (and giving priority to action points), breaking information into digestible chunks, and using layout that improves readability of a document.

⁽Office of Disease Prevention and Health Promotion. Plain language: a promising strategy for clearly communicating health information and improving health literacy. US Department of Health and Human Services, Rockville,

http://health.gov/communication/literacy/plainlanguage/IssueBrief.pdf [Accessed 1 Sep 2015]) ¹⁰ See http://eudravigilance.ema.europa.eu/human/EURiskManagementPlans.asp

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

V.B.9.3. RMP annex 3: Protocols for proposed, on-going, and completed studies in the pharmacovigilance plan

Annex 3 should not include protocols of studies not imposed nor requested by the competent authority
 (previously classified as category 4 studies). This annex may include the links to other modules of the
 eCTD dossier where the protocols are included, instead of the full protocol documents.

1032 V.B.9.3.1. RMP annex 3 – part A: Protocols of proposed studies, submitted for regulatory 1033 review with this updated version of the RMP

This part A of RMP annex 3 should include the protocols that are proposed for assessment within the same procedure the RMP has been submitted in. This part should be completed only when the study protocol has been requested to be submitted within the RMP for review by the competent authority; alternatively the protocol might be reviewed in a stand-alone procedure before its integration in the RMP (annex 3 –part C) once agreed. The regulatory pathway is to be agreed with the competent authority.

1040 V.B.9.3.2. RMP annex 3 – part B: Updates of previously approved protocols, submitted for 1041 regulatory review with this updated version of the RMP

- 1042 This part B of RMP annex 3 should be completed only when the study protocol update has been
- requested to be submitted within the RMP for review by the competent authority, alternatively the
- 1044 protocol might be reviewed in a stand-alone procedure before its integration in the RMP once agreed.
- 1045 The regulatory pathway is to be agreed with the competent authority.
- 1046 Once approved, protocols from parts A or B should be moved to part C.

1047 V.B.9.3.3. RMP annex 3 – part C

- Previously agreed protocols for on-going studies and protocols not reviewed by the competent authority should be included in this part C of RMP annex 3, as follows:
- the full protocols that have been previously assessed by the competent authority and agreed (i.e. no protocol resubmission was requested). The protocols should be accompanied by the name of the procedure when the protocol was approved and date of the outcome. This may include the links to other modules of the eCTD dossier where the protocols have been previously submitted, instead of the full protocol documents.
- the protocols of other category 3 studies, protocols that were not requested to be reviewed by the
 competent authorities, and are submitted by the MAH for information only.
- Protocols of completed studies should be removed from this annex once the final study reports aresubmitted to the competent authority for assessment.

1059 V.B.9.4. RMP annex 4: Specific adverse event follow-up forms

- 1060 This annex should include all follow-up forms used by the MAH to collect additional data on specific 1061 safety concerns. The usage of follow-up forms included in this annex should be detailed in the
- 1062 pharmacovigilance plan in the RMP, as routine pharmacovigilance activities.
- 1063 The forms that should be included in this annex are sometimes known as "event follow-up
- 1064 questionnaire", "adverse event data capture/collection aid" or "adverse reaction follow-up form".

V.B.9.5. RMP annex 5: Protocols for proposed and on-going studies in RMP part IV

This annex should include links to other parts of the eCTD dossier, where the efficacy study protocolsare already included, if such studies were required.

1069 V.B.9.6. RMP annex 6: Details of proposed additional risk minimisation 1070 activities

1071 If applicable:

1072 V.B.9.6.1. RMP annex 6 – part A

1073 It should include the proposed draft (and approved, if applicable) key messages of the additional risk 1074 minimisation activities (e.g. key messages of the educational materials).

1075 V.B.9.6.2. RMP annex 6 – part B

1076 Should include, for information only, the additional risk minimisation materials as they were distributed

1077 in the Member States. Materials included in this annex are not assessed and are not considered

1078 endorsed as part of the RMP assessment. The content and distribution plan of the additional risk

1079 minimisation activities included in the RMP will only be assessed and agreed at national level (e.g.

1080 educational materials messages, brevity, target audience; paper brochure, electronic document;

distribution: by MAH representatives, on national competent authority website, with each pack of theproduct).

1083 V.B.9.7. RMP annex 7: Other supporting data (including referenced1084 material)

1085 When applicable, to avoid duplication of the materials presented as references, this annex should 1086 include eCTD links to other documents included in other modules of the dossier.

1087 V.B.10. The relationship between the risk management plan and the 1088 periodic safety update report

The primary post-authorisation pharmacovigilance documents for safety surveillance are the RMP and the periodic safety update report (PSUR). Although there is some overlap between the documents, the main objectives of the two are different and the situations when they are required are not always the same. Regarding objectives, the main purpose of the PSUR is retrospective, integrated, postauthorisation benefit-risk assessment whilst that of the RMP is prospective pre-and post-authorisation

- benefit-risk management and planning. As such, the two documents are complementary.
- 1095 When a PSUR and an RMP are submitted together, the RMP should reflect the conclusions of the 1096 accompanying PSUR. For example if a new signal is discussed in the PSUR and the PSUR concludes 1097 that this is an important identified or important potential risk to be added in the RMP, the important 1098 risk can be added in the updated RMP submitted with the PSUR. The pharmacovigilance plan and the 1099 risk minimisation plan should be updated to reflect the marketing authorisation holder's proposals to
- 1100 further investigate the safety concern and minimise the risk.

1101 V.B.10.1. Common modules between periodic safety update report and risk1102 management plan

- 1103 The proposed PSUR and RMP modular format is intended to minimise duplication by enabling common
- 1104 (sections of) modules to be utilised interchangeably across both reports. Common (sections of)
- 1105 modules are identified in Table V.4..
- 1106 **Table V.4.** Common sections between RMP and PSUR (may not be in identical format)

RMP section	PSUR section
Part II, module SV – "Post-authorisation	Section 3 – "Actions taken in the reporting
experience"	interval for safety reasons"
Part V – "Risk minimisation measures", section	Sub-section 16.5 – "Effectiveness of risk
"Evaluation of the effectiveness of risk	minimisation (if applicable)"
minimisation activities"	

V.B.11. Principles for the assessment of risk management plans by competent authorities

1109 The principal points that need to be considered when reviewing an RMP for a medicinal product are:

1110 V.B.11.1. Safety specification

- Have all appropriate parts of the safety specification been included?
- Have all appropriate data been reviewed when compiling the safety specification, i.e. are there
 important (outstanding) issues which have not been discussed in the safety specification?
- If parts of the target population have not been studied, have appropriate safety concerns in
 relation to potential risks and missing information been included?
- What are the limitations of the safety database and what reassurance does it provide regarding the
 safety profile of the medicinal product?
- Are there specific risks in addition to those not addressed in the RMP, i.e. misuse and abuse?
- Does the safety specification provide a true reflection of the safety concerns (i.e. important identified risks, important potential risks and missing information) with the product?
- If a generic or hybrid application, have all safety concerns from the reference medicinal product
 been included in the safety specification or, if not, then has appropriate justification been
 provided?

1124 V.B.11.2. Pharmacovigilance plan

- Are all safety concerns from the safety specification covered in the pharmacovigilance plan?
- Are routine pharmacovigilance activities adequate or are additional pharmacovigilance activities
 necessary?
- Are the activities in the pharmacovigilance plan clearly defined and described and suitable for
 identifying or characterising risks or providing missing information?

- Are the safety studies that have been imposed by a competent authority as conditions clearly identified?
- If medication error can lead to a safety concern, does the RMP include appropriate proposals to
 monitor these?
- Are the proposed additional studies necessary and able to provide the required further
 characterisation of the risk(s)?
- When draft protocols are provided, are the proposed studies in the pharmacovigilance plan
 adequate to address the scientific questions and are they feasible and non-promotional?
- Are appropriate timelines and milestones defined for the proposed actions, the submission of their
 results?

1140 V.B.11.3. Plans for post-authorisation studies on efficacy

• Have all imposed PAES (as conditions of the MA or as specific obligations) been included?

1142 V.B.11.4. Risk minimisation measures

- 1143 Is there a need for additional risk minimisation activities for any of the identified or potential risks?
- Have additional risk minimisation activities been suggested and if so, are they risk proportionate, is implementation feasible in all Member States and are the proposed activities adequately justified?
- Are the methods for evaluating the effectiveness of risk minimisation activities well described and appropriate?
- Have criteria for evaluating the success of additional risk minimisation activities been defined a priori?
- Has the marketing authorisation holder considered ways to reduce the likelihood of medication
 errors, when they can result in an important risk or lack of effectiveness? Has this been translated
 into appropriate risk minimisation measures?

1153 V.B.11.5. Summary of the risk management plan

- Is it a true representation of the RMP?
- 1155 Have the facts been presented appropriately without promotional aspects?
- 1156 Are the content, format and language suitable for the intended audience?

1157 V.B.11.6. When an RMP update is being assessed

- Have new data been discussed in the safety specification (e.g. removal of a safety concern following the submission of the final study results)?
- Have appropriate changes been made to the pharmacovigilance plan (if necessary in the light of new data)?
- Is there an evaluation of the effectiveness of risk minimisation measures?

- Have appropriate changes to risk minimisation measures been proposed if necessary?
- 1164 Is the summary of the RMP still appropriate?

1165 V.B.12. Quality systems and record management

1166 Although many experts may be involved in writing the RMP, the final responsibility for its quality, accuracy and scientific integrity lies with the marketing authorisation applicant/holder. As such the 1167 qualified person responsible for pharmacovigilance in the EU (QPPV) should be aware of, and have 1168 1169 sufficient authority over the content. The marketing authorisation holder is responsible for updating the 1170 RMP when new information becomes available and should apply the quality principles detailed in GVP 1171 Module I. The marketing authorisation holder should maintain records of when RMPs were submitted to 1172 competent authorities and the significant changes between RMP versions. These records, the RMPs and 1173 any documents relating to information within the RMP may be subject to audit and inspection by 1174 pharmacovigilance inspectors.

1175 V.C. Operation of the EU network

1176 V.C.1. Requirements for the applicant/marketing authorisation holder in 1177 the EU

- For all new marketing applications, the applicant shall submit the risk management plan describing the risk management system, together with a summary thereof [DIR Art 8(3)(iaa)].
- 1180 In the post-authorisation phase, an RMP update or a new RMP may need to be submitted at any time:
- at the request of the Agency or a competent authority in a Member State when there is a concern
 about a risk affecting the benefit-risk balance.
- with an application involving a change to an existing marketing authorisation when the data
- 1184 included leads to a change in the list of the safety concerns, or when a new additional
- 1185 pharmacovigilance activity or a new risk minimisation activity is needed or is proposed to be
- 1186 removed. The RMP update may be warranted as a result of data submitted with applications
- 1187 involving e.g. a new or significant change to the indication, a new dosage form, a new route of
- administration, a new manufacturing process of a biotechnologically-derived product.
- 1189 The need for an RMP or an update to the RMP should be discussed with the Agency or a competent
- 1190 authority in a Member State, as appropriate, well in advance of the submission of an application
- 1191 involving a significant change to an existing marketing authorisation.

1192 V.C.1.1. Risk management plans with initial marketing authorisation1193 applications

For full initial marketing authorisation applications, all parts of an RMP should be submitted (see V.B.3.). For other types of initial marketing authorisation applications, the requirements for the RMP content follow the concept of proportionality to the identified risks and potential risks of the medicinal product, and the need for post-authorisation safety data; therefore certain parts or modules may have reduced content requirements or may be left empty where not applicable.

1199 V.C.1.1.1. New applications under Article 10(1), i.e. "generic"

1200 The elements for new applications under DIR Art 10(1) are as follows:

- RMP part I: The elements are the same as for initial MAA for a full application;
- 1202 RMP part II: there are 3 situations possible:

The originator product has an RMP: RMP modules S1-SVII may not be applicable. Module 1203 1. 1204 SVIII should include the summary of the safety concerns, in line with the originator product. 1205 If the applicant considers that the available evidence justifies the removal or the change of a safety concern, then data in module SVII should also be included to address the safety 1206 1207 concern and detailing the applicant's arguments. Similarly, if the applicant has identified a 1208 new safety concern specific to the generic product (e.g. risks associated with a new 1209 formulation, route of administration or due to a new excipient, or a new safety concern raised from any clinical data generated), this should be discussed and the new safety concern 1210 1211 detailed in module SVII.

- Originator does not have an RMP but the safety profile of the originator product is published
 on the CMDh website¹¹. The elements under point 1 above should be followed.
- 12143.Originator does not have an RMP and the safety profile of the originator product is not1215published on the CMDh website: Full modules SVII and SVIII should be included in the RMP.1216Module SVII should critically analyse available relevant information (e.g. own pre-clinical and1217clinical data, scientific literature, originator's product information) and propose a list of1218important identified and potential risks as well as missing information.
- RMP part III: This should include a description of the routine pharmacovigilance activities, as
 detailed in V.B.5.1.
- 1221 The applicant is strongly encouraged to contribute to and participate in the planned or ongoing 1222 studies performed by the MAH of the originator product, when it is important that all available 1223 (prospective) data is collected in one study. This may be the case for instance when data from 1224 patients using the new product is important to further characterise the safety profile of the 1225 substance and enrolling patients in separate studies with the same or similar objectives creates 1226 an unnecessary burden on patients, clinicians or investigators (e.g. pregnancy registries, disease 1227 registries, any PASS evaluating long-term use).
- 1228 The competent authority may also consider imposing studies to be conducted for generics as 1229 applicable (e.g. within the context of referrals when generics are involved or as consequence of 1230 the outcome of a referral imposing a study to the originator).
- RMP part IV: This part of the RMP may be left empty unless a PAES has been imposed to be
 conducted for the generic product (e.g. following a referral).
- RMP part V: When the originator product does not have additional risk minimisation activities, a
 statement that the safety information in the product information of the generic is aligned with the
 originator product is sufficient for RMP part V. Where new risks have been identified for the generic
 product, the risk minimisation activities for such safety concerns should be presented in part V,
 following the same elements as for a full MA application.
- 1238 If the originator product does have additional risk minimisation activities, a full Part V is required 1239 for the generic product.
- RMP part VI: The elements are the same as for a full initial MAA.

¹¹ See http://www.hma.eu/464.html

Guideline on good pharmacovigilance practices (GVP) – Module V (Rev 2) EMA/838713/2011 Rev 2 Draft for public consultation

RMP part VII: The elements are the same for a full initial MAA. For RMP annexes 4 and 5, the
 applicant is strongly encouraged to use materials as similar, in content, as possible to the
 originator product.

1244 V.C.1.1.2. New applications under Article 10c, i.e. "informed consent"

For new applications under DIR Art 10c, the RMP should be the same as the RMP of the cross-referred medicinal product. An RMP will still be required even if the cross-referred product does not have an RMP. If the MAH is the same as for the authorised product, the MAH is encouraged to put in place only one RMP document for their products with the same active substance.

1249 V.C.1.1.3. New applications under Article 10(3), i.e. "hybrid"

For new applications under DIR Art 10(3), the RMP elements are the same as for a generic product. In case of changes in the active substance(s), therapeutic indications, strength, pharmaceutical form or route of administration, the applicant should discuss in RMP module SVII whether this results in the addition or deletion of a safety concern. Clinical trial data generated to support the application should be discussed in the RMP, as appropriate (e.g. RMP part II, modules SI, SIII). Other parts of the RMP should also be aligned (e.g. parts V and VI).

1256 V.C.1.1.4. New applications involving fixed combination medicinal products

- 1257 For new applications for fixed dose combinations, there are two situations:
- 1258 1. The combination contains a new active substance: A full RMP, following the elements as for full initial MAA, should be submitted. RMP modules SI-SVI should focus on the new active substance.
- The combination does not contain a new active substance: The RMP should follow the elements for a generic product. For the purpose of establishing the elements of RMP part II, "the originator" should be read as "any/all authorised products containing the same active substances included in the new product".
- 1264 In addition, data on the fixed combination should be provided in modules SII and SIII.

1265 V.C.1.1.5. New applications under Article 10a, i.e. "well established medicinal use"

- 1266 For new applications under DIR Art 10a, RMP elements are as follows:
- 1267 RMP part I: The elements are the same as for a full initial MAA.
- RMP part II: Only RMP modules SVII and SVIII are required. The applicant is required to justify the proposed safety concerns, or the lack of any thereof, using available evidence from published scientific literature (information available in the public domain).
- 1271 RMP parts III-VII: The elements are the same as for a full initial MAA.

1272 V.C.1.2. Risk management plans first submitted not as part of an initial 1273 marketing authorisation application

1274 V.C.1.2.1. New risk management plans at the request of a competent authority to address 1275 one or more safety concerns

1276 The elements are the same as those applicable to a generic product where the originator product does 1277 not have an RMP (see V.C.1.1.1.). 1278 Two possible scenarios are envisaged:

- 1279 1. MAHs may be requested to submit an RMP with a RMP module SVII focused on the safety 1280 concern(s) evaluated in the procedure. Other safety concerns should be included as needed.
- MAHs may be requested to submit an RMP based on a comprehensive identification of safety
 concerns.
- 1283 It is left to the discretion of the competent authority, which is the most appropriate in given 1284 circumstances.

1285 V.C.1.2.2. Unsolicited risk management plan submission in post-authorisation phase

This RMP follows the elements of the type of MA under which this product was initially submitted (i.e.
full marketing authorisation application, generic medicinal products, "informed consent" applications,
etc., see V.C.1.1.).

V.C.2. Submission of a risk management plan to competent authorities in the EU

- 1291 For centrally authorised products, the RMP should be submitted as PDF files within the eCTD
- 1292 submission. Following a Commission Decision where the procedure has involved the submission of an
- 1293 RMP, marketing authorisation holders should submit the RMP annex 1 in XML format within a specified
- 1294 timescale. RMP annex 1 provides the key information regarding the RMP in a structured electronic
- 1295 format which, following validation at the Agency, is uploaded into an Agency database that is
- accessible and searchable by the Agency and competent authorities in Member States. The system fornationally authorised products varies by Member State and their requirements should be followed.
- Details of new submission requirements and the electronic format will be provided on the Agency and
 Member State websites as appropriate and may in future replace the requirements in the paragraph
 above.
- 1301The initial RMP should be submitted as part of the initial marketing authorisation, or if required, for1302those products that do not have an RMP, through the appropriate post-authorisation procedure.

1303 V.C.2.1. Risk management plans updates

As stated in V.C.1.2. an RMP update is expected to be submitted at any time when there is a change in the list of the safety concerns, or when there is a new or a significant change in the existing additional pharmacovigilance or additional risk minimisation activities. The significant changes of the existing additional pharmacovigilance and risk minimisation activities may include removing such activities from the RMP. For example, a change in study objectives, population or due date of final results, or addition of a new safety concern in the key messages of the educational materials would be expected to be reflected in an updated RMP with the procedure triggering those changes.

- An update of the RMP might be considered when data submitted in the procedure results in changes of
 routine pharmacovigilance activities beyond adverse reaction reporting and signal detection activities,
 or of routine risk minimisation activities beyond routine communication. For example, an RMP might
- also be warranted with a significant change of the plans for annual enhanced safety surveillance
- 1315 (routine pharmacovigilance activity), or when monitoring of renal function is added as a
- recommendation in the *Special warnings and precautions for use* section 4.4 of the SmPC (routine risk

- minimisation activity). The need to update the plans to evaluate the effectiveness of risk minimisationactivities should also be considered with such updates.
- 1319 When an emerging safety issue is still under assessment, in particular in the context of a signal, an
- 1320 RMP update may be required upon confirmation that this impacts the safety specification and should be1321 updated as appropriate.
- 1322 Unless requested otherwise, a track-changes RMP document should be included with every RMP
- update, showing changes introduced in the latest update (as applicable), as well as compared with the"current" approved version of the RMP.
- 1325 A medicinal product can only have one "current" approved version of an RMP. If several updates to the 1326 RMP are submitted during the course of a procedure, the version considered as the "current" approved
- 1327 RMP for future updates and track-changes purposes shall be the one submitted with the closing
- 1328 sequence of the procedure.
- 1329 When an RMP update is submitted with a procedure, the RMP is considered approved at the end of the 1330 procedure, when all changes are considered acceptable.
- 1331 In the post-authorisation phase, submission of a new or updated RMP outside of another regulatory
- 1332 procedure constitutes a variation in accordance with the Guidelines on Variations¹². For detailed
- 1333 guidance on relevant variation categories and their classification, please also refer to the Agency's
- 1334 Practical Questions and Answers to Support the Implementation of the Variations Guidelines in the
- 1335 Centralised Procedure¹³.

1336 *RMP management with parallel procedures*

1337 If a medicinal product has more than one concurrently on-going procedure which requires submission 1338 of an RMP, ideally a combined RMP should be submitted with appropriate separation of data in RMP 1339 module SIII. The best regulatory path for the RMP update in case of multiple procedures potentially 1340 impacting on the RMP content should be discussed with the competent authority before submission.

1341 *RMP updates with the PSUR*

1342 If, when preparing a PSUR, there is a need for changes to the RMP as a result of new safety concerns, 1343 or other data presented in the PSUR, then an updated RMP should be submitted at the same time. In 1344 this case no stand-alone RMP variation is necessary. Should only the timing for submission of both 1345 documents coincide, but the changes are not related to each other, then the RMP submission should be 1346 handled as a stand-alone variation.

- However, in the context of a PSUR EU single assessment (PSUSA), submission of RMP updates cannot
 be accepted together with the PSURs of medicinal products (centrally and/or nationally authorised).
 Marketing authorisation holders should take the opportunity of another upcoming procedure to update
 their RMP. Alternatively marketing authorisation holders should submit a separate variation to update
- 1351 their RMP.
- 1352 For nationally authorised medicinal products, RMP updates should be submitted to the competent
- authorities in Member States for assessment.

¹² Guidelines on the details of the various categories of variations, on the operation of the procedures laid down in Chapters II, IIa, III and IV of Commission Regulation (EC) No 1234/2008 of 24 November 2008 concerning the examination of variations to the terms of marketing authorisations for medicinal products for human use and veterinary medicinal products and on the documentation to be submitted pursuant to those procedures.
¹³ See

http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document_listing/document_listing_000104.jsp&mid=WC 0b01ac0580025b88.

1354 V.C.3. Assessment of the risk management plan within the EU regulatory 1355 network

- Within the EU, the regulatory oversight of RMPs for products authorised centrally lies with the
 Pharmacovigilance Risk Assessment Committee (PRAC). For products authorised nationally, the
 national competent authorities are responsible of the assessment of the RMP. For the RMP assessment,
 the PRAC appoints a PRAC rapporteur who works closely with the (Co-)Rapporteur(s) appointed by the
 CHMP or with the Reference Member State as appropriate. The EMA may, on a case-by-case basis,
 consult healthcare professionals and patients during the assessment of RMPs to gather their input on
 proposed risk minimisation measures.
- The national competent authority may impose an obligation on a marketing authorisation holder to operate a risk management system, as referred to in DIR Art 104(3)(c), if there are concerns about the risks affecting the risk-benefit balance of an authorised medicinal product. In that context, the national competent authority shall also oblige the marketing authorisation holder to submit a detailed description of the risk-management system which he intends to introduce for the medicinal product concerned [DIR Art 104a(2)].
- 1369 For centrally authorised products, only additional risk minimisation measures recommended by the
- 1370 PRAC and subsequently agreed by the CHMP should be included in the risk minimisation plan.
- 1371 Additional risk minimisation measures are conditions of the marketing authorisation and in this
- 1372 respect, key elements are detailed in Annex II to the Commission Decision. In addition, exceptionally,
- 1373 certain conditions or restrictions with regard to the safe and effective use of the medicinal product may
- be imposed to the Member States through a Commission Decision in accordance with Article 127a for
- 1375 their implementation at national level.
- When necessary, the competent authorities should ensure that marketing authorisation holders of
 generic and/or similar biological medicinal products make similar changes to their risk minimisation
 measures when changes are made to those of the reference medicinal product.

1379 V.C.4. Implementation of additional risk minimisation activities

- For products with additional risk minimisation activities, it is the responsibility of the marketing
 authorisation holder and national competent authority to ensure that all conditions or restrictions with
 regard to the safe use of the product in a particular territory are complied with.
- Marketing authorisation holders are responsible for ensuring compliance with the conditions of the
 marketing authorisation for their product wherever it is used within the European Economic Area
 (EEA).
- National competent authorities should also ensure that any conditions or restrictions with regard to the
 safe and effective use of a centrally authorised product are applied within their territory regardless of
 the source of the product.
- However, individual Member States may have very different healthcare systems and medical practice 1389 1390 may differ between Member States and consequently some risk minimisation measures may need to 1391 be implemented in different ways depending upon national customs and requires additional agreement 1392 with the Member States for their implementation (e.g. pregnancy prevention programme, controlled 1393 distribution, etc.). Therefore, for centrally authorised products, the legislation foresees that in addition 1394 to the Commission decision to marketing authorisation holder, there can be a Commission Decision to 1395 the Member States giving the Member States the responsibility for ensuring that specific conditions 1396 and/or restrictions for which key elements are provided in the Commission decision are implemented

by the marketing authorisation holder in their territory. For these specific risk minimisation activities,
marketing authorisation holders are strongly encouraged to discuss the feasibility of how they might be
implemented with individual national competent authorities during the building of the risk minimisation
plan.

1401 V.C.5. Transparency

- The Agency and Member States shall make publically available, by means of the European medicines
 web-portal and the national medicines web-portals, public assessment reports and summaries of risk
 management plans [REG Art 26(1), DIR Art 106].
- 1405 For centrally authorised products the Agency:
- 1406 makes public a summary of the RMP;
- includes tables relating to the RMP in the European Public Assessment Report (EPAR) including the
 product information and any conditions of the marketing authorisation.
- 1409 The national competent authorities will provide details of how they intend to implement DIR Art 106.