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3 **Guideline on good pharmacovigilance practices (GVP)**
4 **Module VII – Periodic safety update report**

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5 Comments should be provided using this [template](#). The completed comments form should be sent to
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126 VII.A. Introduction

127 Periodic safety update reports (PSURs) are pharmacovigilance documents intended to provide an
128 evaluation of the risk-benefit balance of a medicinal product for submission by marketing authorisation
129 holders at defined time points during the post-authorisation phase.

130 The legal requirements for submission of PSURs are established in Regulation (EC) No 726/2004,
131 Directive 2001/83/EC and in the Commission Implementing Regulation on the Performance of
132 Pharmacovigilance Activities Provided for in Regulation (EC) No 726/2004 and Directive 2001/83/EC in
133 respect of the format and content of electronic PSURs. All applicable legal requirements in this Module
134 are referenced in the way explained in the GVP Introductory Cover Note and are usually identifiable by
135 the modal verb “shall”. Guidance for the implementation of legal requirements is provided using the
136 modal verb “should”.

137 This Module contains guidance for the preparation, submission and assessment of PSURs. The scope,
138 objectives, format and content of the PSUR are described in VII.B., in accordance with the ICH-
139 E2C(R2) guideline (see Annex IV ICH-E2C(R2)).

140 Further details and guidance for the submission of PSURs in the EU, including the list of Union
141 references dates and frequency of submission are provided in VII.C., which also covers the single EU
142 assessment of PSURs in VII.C.4. Details related to the quality system are provided in VII.C.6. and the
143 publication of PSUR-related documents in VII.C.7. as transparency provisions.

144 Marketing authorisation holders should submit PSURs to the Agency according to the following
145 timelines:

- 146 • within 70 calendar days of the data lock point for PSURs covering intervals up to 12 months; and
- 147 • within 90 calendar days of the data lock point for PSURs covering intervals in excess of 12 months;
- 148 • the timeline for the submission of ad hoc PSURs requested by competent authorities will be
149 normally specified in the request, otherwise the ad hoc PSURs should be submitted within 90 days
150 of the data lock point.

151 As a result of the new legal requirements for the electronic submission of suspected adverse reactions
152 to the EudraVigilance database, it should be noted that detailed listings of individual cases should not
153 be included routinely [IM Annex III.1(5)]. The PSUR should focus on summary information, scientific
154 safety assessment and integrated benefit-risk evaluation.

155 Recital 23 of Directive 2010/84/EU newly establishes that the obligations imposed in respect of PSURs
156 should be proportionate to the risks posed by medicinal products. PSURs reporting should therefore be
157 linked to the risk management plans (RMPs) of a medicinal product (see Module V). The “modular
158 approach” of the PSUR described in VII.B.5. aims to minimise duplication and improve efficiency during
159 the preparation and review of PSURs along with other regulatory documents such as the development
160 safety update report (DSUR)¹ or the safety specification in the RMP, by enabling the common content
161 of particular sections to be utilised interchangeably across different PSURs, DSURs and RMPs.

162 The new legislation also waives the obligation to submit PSURs routinely for generic medicinal
163 products, well-established use medicinal products, homeopathic medicinal products and traditional
164 herbal medicinal products [DIR Art 107b(3)]. For such products, PSURs shall be submitted where there
165 is a condition in the marketing authorisation or when requested by a competent authority in a Member

¹ See Detailed Guidance on the Collection, Verification and Presentation of Adverse Event/Reaction Reports Arising from Clinical Trials on Medicinal Products for Human Use; available on <http://ec.europa.eu/health/documents/eudralex/vol-10/>

166 State on basis of concerns relating to pharmacovigilance data or due to the lack of PSURs for an active
167 substance after its authorisation [DIR Art 107b(3)(a) and (3)(b)].

168 Competent authorities in Member States shall assess PSURs to determine whether there are new risks
169 or whether risks have changed or whether there are changes to the risk-benefit balance of medicinal
170 products [DIR Art 107d].

171 In order to increase the shared use of resources between competent authorities in Member States, a
172 single assessment of PSURs shall be performed in the EU for different medicinal products containing
173 the same active substance or the same combination of active substances authorised in more than one
174 Member State for which a Union reference date and frequency of submission of PSURs has been
175 established [DIR Art 107e]. The EU single assessment can include joint assessment for medicinal
176 products authorised through either national or centralised procedures for marketing authorisation. The
177 Agency shall make available a list of Union reference dates and frequency of submission [REG Art
178 26(g)] which will be legally binding.

179 As part of the assessment, it should be considered whether further investigations need to be carried
180 out and whether any action concerning the marketing authorisations of products containing the same
181 active substance or the same combination of active substances, and their product information is
182 necessary.

183 The Agency shall make the PSURs available to the competent authorities in Member States, members
184 of the Pharmacovigilance Risk Assessment Committee (PRAC), of the Committee for Medicinal Products
185 for Human use (CHMP) and of the Coordination Group for Mutual Recognition and Decentralised
186 Procedures - Human (CMDh) and the European Commission by means of a PSUR repository [DIR Art
187 107b(2)].

188 **VII.B. Structures and processes**

189 ***VII.B.1. Objectives of the periodic update safety report (PSUR)***

190 The main objective of a PSUR is to present a comprehensive and critical analysis of the risk-benefit
191 balance of the medicinal product taking into account new or emerging information, in the context of
192 cumulative information, on risks and benefits. The PSUR is therefore a tool for post-authorisation
193 evaluation at defined time points in the lifecycle of the product.

194 For the purposes of lifecycle benefit-risk management, it is necessary to continue evaluating the risks
195 and benefits of a medicine in everyday medical practice and long term use in the post-authorisation
196 phase. This may extend to evaluation of populations and endpoints that could not be investigated in
197 the pre-authorisation clinical trials. A different benefit-risk profile may emerge as pharmacovigilance
198 reveals further information about safety. The marketing authorisation holder should therefore re-
199 evaluate the risk-benefit balance of its own medicinal products in populations exposed. This structured
200 evaluation should be undertaken in the context of ongoing pharmacovigilance (see **Module XII**) and
201 risk management (see **Module V**) to facilitate optimisation of the risk-benefit balance through effective
202 risk minimisation.

203 The PSUR should not be used to provide the initial notification of significant new safety information or,
204 as a general rule, provide the means by which new safety issues are detected, or new efficacy data are
205 submitted (see **Module IX** and **XII**).

206 **VII.B.2. Principles for the evaluation of the benefit-risk balance within**
207 **PSURs**

208 Benefit-risk evaluation should be carried out through the lifecycle of the medicinal product, to promote
209 and protect public health, and to enhance patient safety through effective risk minimisation.

210 After marketing authorisation, it is necessary to evaluate, on an ongoing basis, the benefits and risks
211 of medicinal products in actual use and/or long term use, to confirm that the benefit-risk profile
212 remains favourable. This assessment may include evaluation of populations and/or endpoints that were
213 not investigated in the registrational clinical trials.

214 The analysis of the risk-benefit balance should incorporate an evaluation of the available² safety,
215 efficacy and effectiveness information collected during the reporting interval for the medicinal product
216 in the context of what was known previously. This evaluation will include the following steps:

- 217 1. Critically examining the information which has emerged during the reporting interval to determine
218 whether it has generated new signals, led to the identification of new potential or identified risks or
219 contributed to knowledge of previously identified risks.
- 220 2. Critically summarising relevant new safety, efficacy and effectiveness information that could have
221 an impact on the risk-benefit balance of the medicinal product.
- 222 3. Conducting an integrated benefit-risk analysis for authorised indications based on the cumulative
223 information available since the international birth date (IBD), the date of the first marketing
224 authorisation in any country in the world / development international birth date (DIBD), the date of
225 first authorisation for the conduct of an interventional clinical trial in any country.
- 226 4. Summarising any risk minimisation actions that may have been taken or are planned.
- 227 5. Outlining plans for signal or risk evaluations including timelines and/or proposals for additional
228 pharmacovigilance activities.

229 Based on the evaluation of the cumulative safety data and the risk-benefit analysis, the marketing
230 authorisation holder should conclude the PSUR with considerations as to the need for changes and/or
231 actions, including implications for the approved summary of product characteristics for the product(s)
232 for which the PSUR is submitted [IM Annex III.1(6)].

233 **VII.B.3. Principles for the preparation of PSURs**

234 The marketing authorisation holder should prepare a single PSUR for all its medicinal products
235 containing the same active substance with information on all the authorised indications, route of
236 administration, dosage forms and dosing regimens, irrespective of whether authorised under different
237 names and through separate procedures. Where relevant, data relating to a particular indication,
238 dosage form, route of administration or dosing regimen, should be presented in a separate section
239 within the body of the PSUR and any safety concerns addressed accordingly, without preparing a
240 separate PSUR [IM Annex III.1(7)]. There might be exceptional scenarios where the preparation of
241 separate PSURs might be appropriate, for instance, in the event of different formulations for entirely
242 different indications. In these cases, agreement from the competent authorities, preferably at the time
243 of authorisation, should be obtained.

244 Case narratives must be provided where relevant to the scientific analysis of a signal or safety concern
245 in the relevant risk evaluation section of the PSUR [IM Annex III.1(5)].

² The ICH-E2C(R2) guideline should not serve to limit the scope of the information to be provided in the benefit-risk evaluation of a medicinal product. Please refer to the applicable laws and regulations in the countries and regions. For EU specific requirements, see [VII.C.5.](#)

246 Additional pharmacovigilance data, in particular, in relation to requests from competent authorities
247 should be included in the PSUR. This may include analysis of cases classified as non-serious.

248 **VII.B.4. Reference information**

249 Risk minimisation activities evaluated in the PSUR include updates to the product information.

250 It is common practice for marketing authorisation holders to prepare their own company core data
251 sheet (CCDS) which covers data relating to safety, indications, dosing, pharmacology, and other
252 information concerning the product. The latest CCDS in effect at the end of the reporting interval
253 should be used as the reference for both, the benefit and the risk sections of the PSUR. The core safety
254 information contained within the CCDS is referred to as company core safety information (CCSI). For
255 the definitions of CCDS and CCSI, see [Annex I](#).

256 The marketing authorisation holder should discuss whether any revision of the CCDS/CCSI was needed
257 during the reporting interval and ensure that all changes made over the interval are described in PSUR
258 section 4 “Changes to the reference safety information” and/or PSUR section 16 “Signal and risk
259 evaluation”. The marketing authorisation holder should provide a copy of all current versions of the
260 CCDS (e.g. different formulations included in the same PSUR) referred in the PSUR as an appendix to
261 the PSUR. The CCDS/CCSI should be dated, version controlled and it should state the version of the
262 coding dictionary used.

263 The marketing authorisation holder should clearly highlight meaningful differences between the CCSI
264 and their proposals for the local authorised product information. These meaningful differences should
265 be included in PSUR regional appendix (see [VII.B.5.20](#)).

266 **VII.B.5. Format and contents of the PSUR**

267 A PSURs shall contain cumulative data starting from the granting of the marketing authorisation,
268 though with the focus on new information emerging in the period since the data lock point of the last
269 PSUR [IM Annex III.1(2)]. Cumulative information should be taken into account when performing the
270 overall safety evaluation and integrated benefit-risk assessment.

271 Because clinical development of a medicinal product frequently continues following marketing
272 authorisation, relevant information from post-authorisation studies or clinical trials in non-authorised
273 indications or populations should also be included in the PSUR. Similarly, as knowledge of the safety of
274 a medicinal product may be derived from evaluation of other data associated with off-label use, such
275 knowledge should be reflected in the risk evaluation where relevant and appropriate.

276 The PSUR should provide summaries of significant safety and efficacy information from all data
277 sources, where relevant to the benefit-risk assessment and available to the marketing authorisation
278 holder. These should include:

- 279 • summaries of information from marketing experience:
 - 280 – spontaneous data sources;
 - 281 – literature sources;
 - 282 – findings from active surveillance methodologies (e.g. data-mining in internal or external
283 databases);
 - 284 – safety signals under evaluation by the marketing authorisation holders;
 - 285 – information from co-marketing or co-distribution partners, where relevant to the marketing
286 authorisation holder’s approved product;

- 287 • summaries of information from clinical trials and studies:
 - 288 – ongoing clinical trials and other studies that the marketing authorisation holder or its
 - 289 representative is conducting or has completed during the reporting period (Phases I - IV);
 - 290 – therapeutic use of an investigational medicinal product;
 - 291 – observational or epidemiological studies;
 - 292 – drug utilisation studies;
 - 293 – non-clinical studies (toxicological and in vitro studies);
 - 294 – clinical trials conducted by a co-development or co-marketing partner;
 - 295 – clinical trials with results indicating lack of efficacy that could have a direct impact on the
 - 296 benefit-risk assessment;
- 297 • summaries of data from other sources:
 - 298 – any other source of relevant efficacy or safety findings for products in the same therapeutic
 - 299 class;
 - 300 – other PSURs or DSURs (e.g. from contractual partners or investigator initiated trials);
 - 301 – late-breaking information.

302 The PSUR shall be prepared following the full modular structure set out in the Commission
 303 Implementing Regulation on the Performance of Pharmacovigilance Activities Provided for in Regulation
 304 (EC) No 726/2004 and Directive 2001/83/EC [IM Annex III.2(1)]. When preparing the PSUR, the ICH-
 305 E2C(R2) guideline (see Annex IV ICH-E2C(R2)) on Periodic Benefit-Risk Evaluation Report (PBRER)
 306 should also be applied. Guidance on the titles, order and content of the PSUR sections is provided in
 307 VII.B.5.1. to VII.B.5.20.. When no relevant information is available for any of the sections, this should
 308 be stated

- 309 • Title Page including signature
- 310 • Executive Summary
- 311 • Table of Contents
 - 312 1. Introduction
 - 313 2. Worldwide Marketing Approval Status
 - 314 3. Actions Taken in the Reporting Interval for Safety Reasons
 - 315 4. Changes to Reference Safety Information
 - 316 5. Estimated Exposure and Use Patterns
 - 317 5.1. Cumulative Subject Exposure in Clinical Trials
 - 318 5.2. Cumulative and Interval Patient Exposure from Marketing Experience
 - 319 6. Data in Summary Tabulations
 - 320 6.1. Reference Information
 - 321 6.2. Cumulative Summary Tabulations of Serious Adverse Events from Clinical Trials
 - 322 6.3. Cumulative and Interval Summary Tabulations from Post-marketing Data Sources

323	7. Summaries of Significant Findings from Clinical Trials in the Reporting Interval
324	7.1. Completed Clinical Trials
325	7.2. Ongoing Clinical Trials
326	7.3. Long-term Follow-up
327	7.4. Other Therapeutic Use of Medicinal Product
328	7.5. New Safety Data Related to Fixed Combination Therapies
329	8. Findings from Non-interventional Studies
330	9. Information from Other Clinical Trials and Sources
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332	11. Literature
333	12. Other Periodic Reports
334	13. Lack of Efficacy in Controlled Clinical Trials
335	14. Late-Breaking Information
336	15. Overview of Signals: New, Ongoing or Closed
337	16. Signal and Risk Evaluation
338	16.1. Summaries of Safety Concerns
339	16.2. Signal Evaluation
340	16.3. Evaluation of Risks and New Information
341	16.4. Characterisation of Risks
342	16.5. Effectiveness of Risk Minimisation (if applicable)
343	17. Benefit Evaluation
344	17.1. Important Baseline Efficacy and Effectiveness Information
345	17.2. Newly Identified information on Efficacy and Effectiveness
346	17.3. Characterisation of Benefits
347	18. Integrated Benefit-risk Analysis for Authorised Indications
348	18.1. Benefit-risk Context – Medical Need and Important Alternatives
349	18.2. Benefit-risk Analysis Evaluation
350	19. Conclusions and Actions
351	20. Appendices to the PSUR

352 **PSUR title page**

353 The title page should include the PSUR number (reports should be numbered sequentially), the name
354 of the medicinal product(s), international birth date, reporting interval, date of the report, marketing
355 authorisation holder details and statement of confidentiality of the information included in the PSUR.

356 The title page shall also contain the signature.

357 **PSUR executive summary**

358 An executive summary should be placed immediately after the title page and before the table of
359 contents. The purpose of the executive summary is to provide a concise summary of the content and
360 the most important information in the PSUR and should contain the following information:

- 361 • introduction, report number and reporting interval;
- 362 • medicinal product(s), therapeutic class(es), mechanism(s) of action, indication(s), pharmaceutical
363 formulation(s), dose(s) and route(s) of administration;
- 364 • estimated cumulative clinical trials exposure;
- 365 • estimated interval and cumulative post-authorisation exposure;
- 366 • number of countries in which the medicinal product is authorised;
- 367 • summary of the overall benefit-risk analysis evaluation (based on sub-section 18.2 “benefit-risk
368 analysis evaluation” of the PSUR);
- 369 • actions taken and proposed for safety reasons including significant changes to the investigator
370 brochure and post-authorisation product information or other risk minimisation activities;
- 371 • conclusions.

372 **PSUR table of contents**

373 The executive summary should be followed by the table of contents.

374 **VII.B.5.1. PSUR section “Introduction”**

375 The marketing authorisation holder should briefly introduce the product so that the PSUR “stands
376 alone” but it is also placed in perspective relative to previous PSURs and circumstances. The
377 introduction should contain the following information:

- 378 • IBD, reporting interval and sequential number of the report;
- 379 • medicinal product(s), therapeutic class(es), mechanism(s) of action, authorised indication(s),
380 pharmaceutical form(s), dose(s) and route(s) of administration;
- 381 • a brief description of the population(s) being treated and studied;
- 382 • a brief description and explanation of any information that has not been included in the PSUR.

383 **VII.B.5.2. PSUR section “Worldwide marketing approval status”**

384 This section of the PSUR provides cumulative information and should contain a brief narrative overview
385 including: date of the first authorisation worldwide, indications(s), authorised dose(s), and where
386 authorised if applicable.

387 **VII.B.5.3. PSUR section “Actions taken in the reporting interval for safety 388 reasons”**

389 This section of the PSUR should include a description of significant actions related to safety that have
390 been taken during the reporting interval, related to either investigational uses or marketing experience

391 by the marketing authorisation holder, sponsors of clinical trial(s), data monitoring committees, ethics
392 committees or competent authorities that had either:

- 393 • a significant influence on the risk-benefit balance of the authorised medicinal product; and/or
394 • an impact on the conduct of a specific clinical trial(s) or on the overall clinical development
395 programme.

396 The reason for each action should be provided, if known, and additional relevant information should be
397 provided when appropriate. Relevant updates to previous actions should also be summarised in this
398 section.

399 Examples of significant actions taken for safety reasons include:

400 Actions related to investigational drugs:

- 401 • refusal to authorise a clinical trial for ethical or safety reasons;
- 402 • partial³ or complete clinical trial suspension or early termination of an ongoing clinical trial because
403 of safety findings or lack of efficacy;
- 404 • recall of investigational drug or comparator;
- 405 • failure to obtain marketing authorisation for a tested indication including voluntary withdrawal of a
406 marketing authorisation application;
- 407 • risk management activities, including:
- 408 – protocol modifications due to safety or efficacy concerns (e.g. dosage changes, changes in
409 study inclusion/exclusion criteria, intensification of subject monitoring, limitation in trial
410 duration);
- 411 – restrictions in study population or indications;
- 412 – changes to the informed consent document relating to safety concerns;
- 413 – formulation changes;
- 414 – addition by regulators of a special safety-related reporting requirement;
- 415 – issuance of a communication to investigators or healthcare professionals; and
- 416 – plans for new studies to address safety concerns.

417 Actions related to marketed drugs:

- 418 • failure to obtain a marketing authorisation renewal;
- 419 • withdrawal or suspension of a marketing authorisation ;
- 420 • risk management activities including:
- 421 – significant restrictions on distribution or introduction of other risk minimisation measures;
- 422 – significant safety-related changes in labelling documents that could affect the development
423 programme, including restrictions on use or population treated;
- 424 – communications to health care professionals; and

³“Partial suspension” might include several actions (e.g. suspension of repeat dose studies, but continuation of single dose studies; suspension of trials in one indication, but continuation in another, and/or suspension of a particular dosing regimen in a trial but continuation of other doses). ICH-E2C(R2) guideline (see [Annex IV](#)).

425 – new post-marketing study requirement(s) imposed by competent authorities.

426 **VII.B.5.4. PSUR section “Changes to reference safety information”**

427 This PSUR section should list any significant changes made to the reference safety information within
428 the reporting interval. Such changes might include information relating to contraindications, warnings,
429 precautions, serious adverse drug reactions, adverse events of special interest, and interactions;
430 important findings from ongoing and completed clinical trials; and significant non-clinical findings (e.g.
431 carcinogenicity studies). Specific information relevant to these changes should be provided in the
432 appropriate sections of the PSUR. A tracked changes version of the reference document identifying the
433 changes made during the reporting interval should be included as an appendix.

434 The marketing authorisation holder should also provide information on any final and ongoing changes
435 to the national/local authorised product information based on the most recent version of the CCSI in
436 the regional appendix, see VII.B.5.20.

437 **VII.B.5.5. PSUR section “Estimated exposure and Use Patterns”**

438 PSURs shall provide an accurate estimation of the population exposed to the medicinal product
439 including all data relating to the volume of sales and volume of prescriptions. This estimation of
440 exposure should be accompanied by a qualitative and quantitative analysis of actual use including how
441 it may differ from indicated use based on all data available to the marketing authorisation holder
442 including the results of observational or drug utilisation studies [IM Annex III.1(3)].

443 This PSUR section should provide estimates of the size and nature of the population exposed to the
444 medicinal product including a brief description of the method(s) used to estimate the subject/patient
445 exposure and the limitations of that method.

446 Consistent methods for calculating subject/patient exposure should be used across PSURs for the same
447 medicinal product. If a change in the method is appropriate, both methods and calculations should be
448 provided in the PSUR introducing the change.

449 **VII.B.5.5.1. PSUR sub-section “Cumulative subject exposure in clinical trials”**

450 This section of the PSUR should contain the following information on the patients studied in clinical
451 trials, if applicable presented in tabular formats⁴:

- 452 • cumulative numbers of subjects from ongoing and completed clinical trials exposed to the
453 investigational medicinal product, placebo, and/or active comparator(s) since the DIBD. It is
454 recognised that for older products, detailed data might not be available;
- 455 • more detailed cumulative subject exposure in clinical trials should be presented if available (e.g.
456 sub-grouped by age, sex, and racial group for the entire development programme);
- 457 • important differences among trials in dose, routes of administration, or patient populations can be
458 noted in the tables, if applicable, or separate tables can be considered;
- 459 • if clinical trials have been or are being performed in special populations (e.g. pregnant women;
460 patients with renal, hepatic, or cardiac impairment; or patients with relevant genetic
461 polymorphisms), exposure data should be provided, as appropriate;
- 462 • when there are substantial differences in time of exposure between subjects randomised to the
463 investigational medicinal product or comparator(s), or disparities in length of exposure between

⁴ Examples of tables can be found in the ICH-E2C(R2) guideline, Appendix B, tables 1-3 (see Annex IV).

464 clinical trials, it can be useful to express exposure in subject-time (subject-days, -months, or -
465 years);

- 466 • investigational drug exposure in healthy volunteers might be less relevant to the overall safety
467 profile, depending on the type of adverse reaction, particularly when subjects are exposed to a
468 single dose. Such data can be presented separately with an explanation as appropriate;
- 469 • if the serious adverse events from clinical trials are presented by indication in the summary
470 tabulations, the patient exposure should also be presented by indication, where available;
- 471 • for individual trials of particular importance, demographic characteristics should be provided
472 separately.

473 **VII.B.5.5.2. PSUR sub-section “Cumulative and interval patient exposure from marketing**
474 **experience”**

475 When possible, separate estimations should be provided for cumulative exposure (since the IBD) and
476 interval exposure (since the data lock point of the previous PSUR)⁵. Although it is recognised that it is
477 often difficult to obtain and validate exposure data, the number of patients exposed should be provided
478 when possible, along with the method(s) used to determine the estimate. A justification should be
479 provided if an estimate of the number of patients exposed is impossible to obtain. If an estimate of the
480 number of patients is not available, alternative estimated measures of exposure, if available, should be
481 presented along with the method(s) used to derive them. Examples of alternative measures of
482 exposure include patient-days of exposure and number of prescriptions. Only if such measures are not
483 available, measures of drug sales, such as tonnage or dosage units, may be used. The concept of a
484 defined daily dose may also be used to arrive at patient exposure estimates.

485 The data should be presented according to the following categories:

486 1. Post-authorisation (non-clinical trial) exposure:

487 An overall estimation of patient exposure should be provided. In addition, the data should be
488 routinely presented by sex, age, indication, dose, formulation, and region where applicable.
489 Depending upon the product, other variables may be relevant, such as number of vaccination
490 courses, route(s) of administration, and duration of treatment.

491 When there are patterns of reports indicating a safety signal, exposure data within relevant
492 subgroups should be presented, if possible.

493 2. Post-authorisation use in special populations:

494 Where post-authorisation use has occurred in special populations, available information regarding
495 cumulative patient numbers exposed and the method of calculation should be provided. Sources of
496 such data would include non-interventional studies designed to obtain this information, including
497 registries. Populations to be considered for discussion include, but might not be limited to:

- 498 • paediatric population;
- 499 • elderly population;
- 500 • pregnant or lactating women;
- 501 • patients with hepatic and/or renal impairment;
- 502 • patients with other relevant co-morbidity;

⁵ Examples of tables can be found in the ICH-E2C(R2) guideline, Appendix B, tables 4-5 (see [Annex IV](#)).

- 503 • patients with disease severity different from that studied in clinical trials;
- 504 • sub-populations carrying relevant genetic polymorphism(s);
- 505 • patients of different racial and/or ethnic origins.

506 3. Pattern of use of the Medicinal Product

507 If the marketing authorisation holder becomes aware of a pattern of use of the medicinal product
508 considered relevant for the interpretation of safety data, provide a brief description thereof. Such
509 patterns may include, in particular, off-label use (e.g. an anti-epileptic drug used off-label for
510 neuropathic pain and/or prophylaxis of migraine headaches). If known, the marketing
511 authorisation holder may briefly comment on whether such use is supported by clinical guidelines,
512 clinical trial evidence, or an absence of authorised alternative treatments. If quantitative use
513 information is available, it should be provided. For purposes of identifying which patterns of use
514 are off-label, the marketing authorisation holder should reference the CCDS in the PSUR.

515 **VII.B.5.6. PSUR section “Data in summary tabulations”**

516 The objective of this PSUR section is to present clinical safety data through summary tabulations of
517 adverse events/reactions. At the discretion of the marketing authorisation holder graphical displays can
518 be used to illustrate specific aspects of the data when useful to enhance understanding.

519 When the Medical Dictionary for Regulatory Activities (MedDRA) terminology is used for coding the
520 adverse event/reaction terms, the preferred term (PT) level and system organ class (SOC) should be
521 presented in the summary tabulations.

522 The seriousness of the adverse events/reactions in the summary tabulations should correspond to the
523 seriousness assigned to the individual case safety reports (ICSRs) using the criteria established in ICH-
524 E2A⁶. Seriousness should not be changed specifically for the preparation of the PSURs.

525 **VII.B.5.6.1. PSUR sub-section “Reference information”**

526 This sub-section of the PSUR should specify the version(s) of the coding dictionary used for analysis of
527 adverse events/reactions.

528 **VII.B.5.6.2. PSUR sub-section “Cumulative summary tabulations of serious adverse events 529 from clinical trials”**

530 This PSUR sub-section should provide background for the appendix that provides a cumulative
531 summary tabulation of serious adverse events reported in the marketing authorisation holder’s clinical
532 trials, from the DIBD to the data lock point of the current PSUR. The marketing authorisation holder
533 should explain any omission of data (e.g. clinical trial data might not be available for products
534 marketed for many years). The tabulation(s) should be organised by MedDRA SOC, for the
535 investigational drug, as well as for the comparator arm(s) (active comparators, placebo) used in the
536 clinical development programme. When useful and feasible, data can be presented by trial, indication,
537 route of administration or other variables⁷.

538 This sub-section should not serve to provide analyses or conclusions based on the serious adverse
539 events.

540 The following points should be considered:

⁶ ICH Topic E2A. Clinical safety data management: Definitions and standards for expedited reporting.

⁷ An example of summary tabulation can be found in the ICH-E2C(R2) guideline, Appendix B, table 6 (see [Annex IV](#)).

- 541 • Causality assessment is generally useful for the evaluation of individual rare adverse drug
542 reactions. Individual case causality assessment has less value in the analysis of aggregate data,
543 where group comparisons of rates are possible. Therefore, the summary tabulations should include
544 all serious adverse events and not just serious adverse reactions for the investigational drug,
545 comparators and placebo. It may be useful to give rates by dose.
- 546 • In general, the tabulation(s) of serious adverse events from clinical trials should include only those
547 terms that were used in defining the case as serious; they should not include non-serious events.
- 548 • The tabulations should include blinded and unblinded clinical trial data. Unblinded serious adverse
549 events might originate from completed trials and individual cases that have been unblinded for
550 safety-related reasons (e.g. expedited reporting), if applicable. Sponsors of clinical trials and
551 marketing authorisation holders should not unblind data for the specific purpose of preparing the
552 PSUR.
- 553 • Certain adverse events can be excluded from the clinical trials summary tabulations, but such
554 exclusions should be explained in the report. For example, adverse events that have been defined
555 in the protocol as “exempt” from special collection and entry into the safety database because they
556 are anticipated in the patient population, and those that represent study endpoints, can be
557 excluded (e.g. deaths reported in a trial of a drug for congestive heart failure where all-cause
558 mortality is the primary efficacy endpoint, disease progression in cancer trials).

559 ***VII.B.5.6.3. PSUR sub-section “Cumulative and interval summary tabulations from post-***
560 ***marketing data sources”***

561 This sub-section of the PSUR should provide background for the appendix that provides cumulative and
562 interval summary tabulations of adverse reactions, from the IBD to the data lock point of the current
563 PSUR. These adverse reactions are derived from non-interventional studies, and spontaneous ICSRs,
564 including reports from healthcare professionals, consumers, scientific literature, and competent
565 authorities. Serious and non-serious reactions should be presented in a single table, with interval and
566 cumulative data presented side-by-side. The table should be organised by MedDRA SOC. For special
567 issues or concerns, additional tabulations of adverse reactions can be presented by indication, route of
568 administration, or other variables⁸.

569 As described in ICH-E2D⁹ guideline, for marketed medicinal products, spontaneously reported adverse
570 events usually imply at least a suspicion of causality by the reporter, although certain reports may
571 need further evaluation (e.g. reports of hepatotoxicity).

572 Analysis or conclusions based on the summary tabulations should not be provided in this PSUR sub-
573 section.

574 **VII.B.5.7. PSUR section “Summaries of significant findings from clinical**
575 **trials in the reporting interval”**

576 The marketing authorisation holder should include as an appendix a listing of the sponsored
577 interventional trials with the primary aim of identifying, characterising, or quantifying a safety hazard,
578 confirming the safety profile of the medicinal product, or measuring the effectiveness of risk
579 minimisation measures that were completed or ongoing during the reporting interval.

580 When possible and relevant, data categorized by sex and age (particularly children versus adult),
581 indication, dose, and region should be presented.

⁸ An example of summary tabulation can be found in the ICH-E2C (R2) guideline, Appendix B, table 7 (see Annex IV).

⁹ ICH-E2D Post-Approval Safety Data Management: Definitions and Standards for Expedited Reporting.

582 The signals arising from clinical trial sources should be tabulated in PSUR Section 15 (“Overview on
583 Signals: New, Ongoing or Close”). For those that are considered to be either a potential or identified
584 risk, the risk should be evaluated and characterised in PSUR Sections 16.3 (“Evaluation of risks and
585 new information”) and 16.4 (“Characterisation of risks”), respectively.

586 This PSUR section should provide a summary of the clinically important efficacy and safety findings
587 obtained from the following sources during the reporting interval:

588 ***VII.B.5.7.1. PSUR sub-section “Completed clinical trials”***

589 This sub-section of the PSUR should provide a brief summary of clinically important emerging efficacy
590 and safety findings obtained from clinical trials completed during the reporting interval. This
591 information can be presented in narrative format or as a synopsis. It could include information that
592 supports or refutes previously identified safety concerns, as well as evidence of new safety signals.

593 ***VII.B.5.7.2. PSUR sub-section “Ongoing clinical trials”***

594 If the marketing authorisation holder is aware of clinically important information that has arisen from
595 ongoing clinical trials (e.g. learned through interim safety analyses or as a result of unblinding of
596 subjects with adverse events), this sub-section should briefly summarise the concern(s). It could
597 include information that supports or refutes previously identified safety concerns, as well as evidence
598 of new safety signals.

599 ***VII.B.5.7.3. PSUR sub-section “Long term follow-up”***

600 Where applicable, this sub-section should provide information from long-term follow-up of subjects
601 from clinical trials of investigational drugs, particularly advanced therapy products (e.g. gene therapy,
602 cell therapy products and tissue engineered products).

603 ***VII.B.5.7.4. PSUR sub-section “Other therapeutic use of medicinal product”***

604 This sub-section of the PSUR should include clinically important safety information from other
605 programmes conducted by the marketing authorisation holder that follow a specific protocol, with
606 solicited reporting as per ICH-E2D¹⁰ (e.g. expanded access programmes, compassionate use
607 programmes, particular patient use and other organised data collection).

608 ***VII.B.5.7.5. PSUR sub-section “New safety data related to fixed combination therapies”***

609 Unless otherwise specified by national or regional regulatory requirements, the following options can
610 be used to present data from combination therapies:

- 611 • If the product that is the subject of the PSURs is also authorised or under development as a
612 component of a fixed combination product or a multi-drug regimen, this sub-section should
613 summarise important safety findings from use of the combination therapy.
- 614 • If the product itself is a fixed combination product, this PSUR sub-section should summarise
615 important safety information arising from the individual components whether authorised or under
616 development.

617 The information specific to the combination can be incorporated into a separate section(s) of the PSUR
618 for one or all of the individual components of the combination.

¹⁰ ICH-E2D Post-Approval Safety Data Management: Definitions and Standards for Expedited Reporting.

619 **VII.B.5.8. PSUR section “Findings from non-interventional studies”**

620 This section should also summarise relevant safety information or information with potential impact in
621 the benefit-risk assessment from marketing authorisation holder-sponsored non-interventional studies
622 that became available during the reporting interval (e.g. observational studies, epidemiological studies,
623 registries, and active surveillance programmes). This should include relevant information from drug
624 utilisation studies when relevant to multiple regions.

625 The marketing authorisation holder should include as an appendix a listing of any marketing
626 authorisation holder-sponsored non-interventional study conducted with the aim of identifying,
627 characterising or quantifying a safety hazard, confirming the safety profile of the medicinal product, or
628 of measuring the effectiveness of risk management measures which was completed or ongoing during
629 the reporting interval (i.e. post-authorisation safety studies).

630 Progress or final study reports generated during the reporting interval for post-authorisation safety
631 studies should also be included in the regional appendix of the PSUR (see VII.B.5.20.).

632 **VII.B.5.9. PSUR section “Information for other clinical trials and Sources”**

633 This PSUR section should summarise information relevant to the benefit-risk assessment of the
634 medicinal product from other clinical trial/study sources that is accessible¹¹ by the marketing
635 authorisation holder during the reporting interval (e.g. results from pool analysis or meta-analysis of
636 randomised clinical trials, safety information provided by co-development partners or from
637 investigator-initiated trials).

638 **VII.B.5.10. PSUR section “Non-clinical data”**

639 This PSUR section should summarise major safety findings from non-clinical in vivo and in vitro studies
640 (e.g. carcinogenicity, reproduction or immunotoxicity studies) ongoing or completed during the
641 reporting interval. Implications of these findings should be discussed in the section 16 (“Signal and risk
642 evaluation”) and section 18 (“Integrated benefit-risk analysis for approved indications”) of the PSUR.

643 **VII.B.5.11. PSUR section “Literature”**

644 This PSUR section should include a summary of new and significant safety findings, either published in
645 the peer-reviewed scientific literature or made available as unpublished manuscripts, when relevant to
646 the medicinal product that the marketing authorisation holder became aware during the reporting
647 interval.

648 Literature searches for PSURs should be wider than those for individual adverse reaction cases as they
649 should also include studies reporting safety outcomes in groups of subjects.

650 The special types of safety information that should be included, but which may not be found by a
651 search constructed specifically to identify individual cases, include:

- 652 • pregnancy outcomes (including termination) with no adverse outcomes;
- 653 • use in paediatric populations;
- 654 • compassionate supply, named patient use;
- 655 • lack of efficacy;
- 656 • asymptomatic overdose, abuse or misuse;

¹¹ See footnote 2

- 657 • medication error where no adverse events occurred, or “near misses”;
- 658 • important non-clinical safety results.

659 If relevant and applicable, information on active substances of the same class should be considered.

660 The publication reference should be provided in the style of the Vancouver Convention^{12,13}.

661 **VII.B.5.12. PSUR section “Other periodic reports”**

662 This PSUR section will only apply in certain circumstances concerning fixed combination products or
663 products with multiple indications and/or formulations where multiple PSURs are prepared in
664 agreement with the competent authority. In general, the marketing authorisation holder should
665 prepare a single PSUR for a single active substance (unless otherwise specified by the competent
666 authority); however if multiple PSURs are prepared for a single medicinal product, this section should
667 also summarise significant findings from other PSURs if they are not presented elsewhere within the
668 PSUR.

669 When available, based on the contractual agreements, the marketing authorisation should summarise
670 significant findings from periodic reports provided during the reporting interval by other parties (e.g.
671 sponsors or other contractual partners).

672 **VII.B.5.13. PSUR section “Lack of efficacy in controlled clinical trials”**

673 Data from clinical trials indicating lack of efficacy, or lack of efficacy relative to established
674 therapy(ies), for products intended to treat or prevent serious or life threatening illnesses could reflect
675 a significant risk to the treated population and should be summarised in this PSUR section.

676 When relevant to the benefit-risk evaluation, clinical trials demonstrating lack of efficacy for products
677 not intended for treatment of life-threatening diseases in the approved indications should also be
678 summarised in this section.

679 **VII.B.5.14. PSUR section “Late-breaking information”**

680 The marketing authorisation holder should summarise in this PSUR section the potentially important
681 safety, efficacy and effectiveness findings that arise after the data lock point but during the period of
682 preparation of the PSUR. Examples include clinically significant new publications, important follow-up
683 data, clinically relevant toxicological findings and any action that the marketing authorisation holder, a
684 data monitoring committee, or a competent authority has taken for safety reasons. New individual case
685 reports should not be included unless they are considered to constitute an important index case (i.e.
686 the first instance of an important event) or an important safety signal.

687 These data should also be taken into account in the evaluation of risks and new information (see
688 VII.B.5.16.3.).

689 **VII.B.5.15. PSUR section “Overview of signals: new, ongoing, or closed”**

690 The purpose of this PSUR section is to provide a high level overview of signals detected, under review
691 and evaluated during the reporting interval.

¹² Uniform requirements for manuscripts submitted to biomedical journals. International Committee of Medical Journal Editors. N Engl J Med. 1997 Jan 23; 336(4):309-15. Available online: <http://www.nejm.org/doi/full/10.1056/NEJM199701233360422>

¹³ Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication [Updated April 2010] Publication Ethics: Sponsorship, Authorship, and Accountability, International Committee of Medical Journal Editors. http://www.icmje.org/urm_full.pdf

692 The marketing authorisation holder should also provide a brief description on the specific signal
693 detection methods used, as well as the sources screened for signals.

694 A newly identified signal refers to a signal that has been identified during the reporting interval. An
695 ongoing signal refers to a signal that was still under evaluation at the data lock point. A closed signal
696 refers to a signal for which an evaluation was completed during the reporting interval. Signals that are
697 both newly identified and closed during the reporting interval should be handled in this section as
698 closed signals (i.e., signals detected during the reporting period, with evaluation completed within the
699 reporting period).

700 This section should consist of a tabulation of signals ongoing and closed during the reporting interval.
701 The tabulation should be provided as an appendix to the PSUR and should conform to the template
702 included in the ICH-E2C(R2) guideline, Appendix C (see Annex IV). At the discretion of the marketing
703 authorisation holder, this tabulation may also provide cumulative signal data by including previously
704 closed signals, in which case the starting point (date) for the cumulative data should be specified.

705 Detailed signal evaluations will not be included in this section but will instead be presented in the PSUR
706 sections 16.2 ("Signal evaluation") and 16.3 ("Evaluation of risks and new information").

707 **VII.B.5.16. PSUR section "Signal and risk evaluation"**

708 ***VII.B.5.16.1. PSUR sub-section "Summary of safety concerns"***

709 The purpose of this PSUR sub-section is to provide a baseline summary of important safety concerns
710 against which new information and evaluations within the PSUR can be made. The following factors
711 should be considered when determining the importance of each risk:

- 712 • medical seriousness of the risk, including the impact on individual patients;
- 713 • its frequency, predictability, preventability, and reversibility;
- 714 • potential impact on public health (frequency; size of treated population); and
- 715 • public perception of risk where it may impact public health, (e.g. avoidance of vaccines).

716 The summaries should represent the best available knowledge of the product as of the beginning of the
717 reporting interval of the current PSUR and should address:

- 718 • important identified risks;
- 719 • important potential risks;
- 720 • important missing information.

721 For products with a safety specification (see Module V), the information included in this sub-section
722 should be equal to the summaries provided in the version of the safety specification current at the
723 beginning of the PSUR reporting interval.

724 For products without a safety specification, this sub-section should provide information on the
725 important identified, potential risks and missing information associated with use of the product, based
726 on pre- and post-authorisation experience. These may include for example:

- 727 • important adverse reactions;
- 728 • interactions with other medicinal products;
- 729 • identified medication error where no adverse events occurred, or near misses of medication errors;

- 730 • interactions with foods and other substances;
- 731 • occupational exposure;
- 732 • pharmacological class effects.

733 The summary on important missing information should take into account whether there are critical
734 gaps in knowledge for specific safety issues or populations that use the medicinal product.

735 **VII.B.5.16.2. PSUR sub-section “Signal evaluation”**

736 This PSUR sub-section should summarise the results of evaluations of safety signals that were closed
737 during the reporting interval; there will be two main categories:

- 738 1. Signals that following evaluation have been categorised as a potential or identified risk, including
739 lack of efficacy. These closed signals should be discussed in PSUR section 16.3 (“Evaluation of risks
740 and new information”).
- 741 2. Signals that following evaluation, have been rejected as false signals based on a scientific
742 evaluation of the currently available information. For this category of signals, a description of each
743 signal evaluation should be included in order to provide the basis upon which the signal was
744 rejected. This description can be included in the PSUR body, or as an annex.

745 For signals that have had a completed evaluation during the reporting interval, it is recommended that
746 the level of detail provided in the description of the signal evaluation be proportionate to the public
747 health importance of the concern and the extent of the available evidence and should include the
748 following information as appropriate:

- 749 • source or trigger of the signal;
- 750 • background relevant to the evaluation;
- 751 • methods of evaluation, including data sources, search criteria, and analytical approaches;
- 752 • results: a summary and critical analysis of the data considered in the signal evaluation;
- 753 • discussion;
- 754 • conclusion, including proposed actions.

755 **VII.B.5.16.3. PSUR sub-section “Evaluation of risks and new information”**

756 Marketing authorisation holders should provide a critical appraisal of new information from the
757 reporting interval on new or previously detected risks (important or other).

758 This PSUR sub-section should provide a description and evaluation of all risks detected during the
759 reporting period, as well as an evaluation of the impact of new data on previously identified risks. This
760 section should not summarise or repeat information presented in previous sections of the PSUR, but
761 should provide an interpretation of the new information, with a view towards characterising the risk
762 profile.

763 The new information can be organised as follows:

- 764 1. new potential risks;
- 765 2. new identified risks;
- 766 3. new information on previously detected risks (potential or identified);

767 4. update on important missing information.

768 Concise summaries of the evaluations of important risks should be provided. For “other” risks not
769 classified as “important,” for which new information has emerged during the reporting interval, the
770 level of detail should be proportional to the available evidence on the risk and its public health
771 relevance.

772 Any new information on populations exposed or data generated to address previously missing
773 information should be critically assessed in this sub-section. Unresolved concerns and uncertainties
774 should be acknowledged.

775 **VII.B.5.16.4. PSUR sub-section “Characterisation of risks”**

776 This sub-section will characterise important identified risks and important potential risks based on
777 cumulative data (i.e. not restricted to the reporting interval) and describe important missing
778 information.

779 Where applicable, taking into account the data source, risk data should include the following:

- 780 • frequency;
- 781 • numbers of cases (numerator); precision of estimate, taking into account the source of the data;
- 782 • extent of use (denominator) expressed as numbers of patients, patient-time, etc.; and precision of
783 estimate;
- 784 • estimate of relative risk and precision of estimate;
- 785 • estimate of absolute risk and precision of estimate;
- 786 • impact on the individual patient (effects on symptoms, quality of life);
- 787 • public health impact;
- 788 • risk factors (e.g. patient factors (consider age, pregnancy/lactation, hepatic/renal impairment,
789 relevant co-morbidity, disease severity, genetic polymorphism, racial and/or ethnic origin), dose);
- 790 • duration of treatment, risk period;
- 791 • preventability (considering predictability, ability to monitor for a “sentinel” adverse reaction or
792 laboratory marker);
- 793 • reversibility;
- 794 • potential mechanism;
- 795 • strength of evidence and its uncertainties, including analysis of conflicting evidence if applicable.

796 For PSURs for products with several indications, formulations or routes of administration, where there
797 may be significant differences in the identified and potential risks, it may be appropriate to present the
798 risks by indication, formulation or route of administration. Headings that could be considered include:

- 799 • risks relating to the active substance;
- 800 • risks related to a specific formulation or route of administration (including occupational exposure);
- 801 • risks relating to a specific population;
- 802 • risks associated with non-prescription use (for active substances that are available as both
803 prescription and non-prescription products);

- 804 • safety concerns regarding missing information.

805 **VII.B.5.16.5. PSUR sub-section: “Effectiveness of risk minimisation (if applicable)”**

806 Risk minimisation activities are public health interventions intended to prevent the occurrence of an
807 adverse drug reaction(s) associated with the exposure to a medicinal product or to reduce its severity
808 should it occur. The aim of a risk minimisation activity is to reduce the probability or severity of an
809 adverse drug reaction. Risk minimisation activities may consist of routine risk minimisation (e.g.
810 product labelling) or additional risk minimisation activities (e.g. Direct Healthcare Professional
811 Communication/educational materials).

812 Result of assessments of the effectiveness of risk minimisation activities relevant to the risk-benefit
813 assessment shall be included [IM Annex III.1(4)].

814 Relevant information on the effectiveness and/or limitations of specific risk minimisation activities for
815 important identified risks that has become available during the reporting interval should be
816 summarised in this sub-section of the PSUR.

817 Insights into the effectiveness of risk minimisation activities that may be applicable across multiple
818 regions are of particular interest. Information may be summarised by region, if applicable and
819 relevant.

820 Results of evaluations that became available during the reporting interval should be provided in the
821 regional appendix (see VII.B.5.20.), to comply with national or regional requirements.

822 **VII.B.5.17. PSUR section “Benefit evaluation”**

823 **VII.B.5.17.1. PSUR sub-section “Important baseline efficacy and effectiveness information”**

824 This sub-section of the PSUR summarises baseline information on both efficacy and effectiveness of the
825 medicinal product as of the beginning of the reporting interval. This information should relate to
826 authorised indication(s) of the medicinal product, listed in the CCDS.

827 For medicinal products with multiple indications, populations, and/or routes of administration, the
828 benefit should be characterised separately by these factors.

829 When there have been no significant changes in the benefit or risk profile of the medicinal product in
830 the reporting interval, the summary should be succinct, essentially the content of the CCDS.

831 For medicinal products where there have been significant changes in either the risk or benefit profile,
832 the sub-section should include sufficient information to support an updated characterisation of the
833 benefit of the medicinal product in PSUR sub-section 17.3 (“Characterisation of benefits”). The type
834 and extent of the information presented will vary by product, and may include the following, if
835 available and relevant:

- 836 • the epidemiology and natural history of the disease;
- 837 • nature of the benefit (e.g. diagnostic, preventive, symptomatic , or disease modifying treatment);
- 838 • important endpoints that support the benefit (e.g. effects on mortality, symptoms, patient reported
839 outcomes);
- 840 • evidence of efficacy and effectiveness by comparator (e.g. active-controlled trials, meta-analyses,
841 observational studies); and

- 842 • when relevant to the benefit-risk evaluation; trends, patterns and/or evidence of benefit in
843 important subgroups, (e.g. age, sex, ethnicity, disease severity, or genetic polymorphism).

844 **VII.B.5.17.2. PSUR sub-section “Newly identified information on efficacy and effectiveness”**

845 For some products, additional information on efficacy or effectiveness in authorised indications may
846 have become available during the reporting interval. Such information should be presented in this sub-
847 section of the PSUR. Substantive information on evidence supporting use in non-authorised indications
848 should not be included, unless relevant for the benefit-risk evaluation in the authorised indications.

849 In this sub-section, particular attention should be given to vaccines, anti-infective agents or other
850 medicinal products where changes in the therapeutic environment may impact on
851 efficacy/effectiveness over time.

852 The type and extent of the information presented in this sub-section will vary by product, and could
853 refer to PSUR sub-section 17.1 (“Important baseline efficacy and effectiveness information”) if no new
854 information became available.

855 **VII.B.5.17.3. PSUR sub-section “Characterisation of benefits”**

856 This sub-section provides an integration of the baseline benefit information and the new benefit
857 information that became available during the reporting interval for authorised indications.

858 When there are no new relevant benefit data provided, and no significant change in risk profile, this
859 sub-section should refer to PSUR sub-section 17.1 (“Important baseline efficacy and effectiveness
860 information”).

861 When there is new positive benefit information and no significant change in the risk profile in this
862 reporting interval, the integration of baseline and new information in this section should be succinct.

863 When there is significant change to the risk profile, or new evidence that suggests benefit is
864 significantly less than originally demonstrated, this section should provide a concise but critical
865 evaluation of the strengths and limitations of the evidence on efficacy and effectiveness, considering
866 the following, when applicable:

- 867 • a brief description of the strength of evidence of benefit; considering comparator(s), effect size,
868 statistical rigor, methodological strengths and deficiencies, and consistency of findings across
869 trials/studies;
- 870 • new information that challenges the validity of a surrogate endpoint, if used;
- 871 • clinical relevance of the effect size;
- 872 • generalisability of treatment response across the indicated patient population (e.g., information
873 that demonstrates lack of treatment effect in a sub-population);
- 874 • adequacy of characterization of dose-response;
- 875 • duration of effect;
- 876 • comparative efficacy; and
- 877 • a determination of the extent to which efficacy findings from clinical trials are generalisable to
878 patient populations treated in medical practice.

879 **VII.B.5.18. PSUR section “Integrated benefit-risk analysis for authorised**
880 **indications”**

881 The marketing authorisation holder should provide in this PSUR section an overall appraisal of the
882 benefit and risk of the medicinal product as used in clinical practice. This section should provide a
883 critical analysis and integration of the information in the previous sections with respect to benefit and
884 risk, and should not duplicate the benefit and risk information presented in sections 16.3 (“Evaluation
885 of risks and new information”) and 17.3 (“Characterisation of benefits”).

886 **VII.B.5.18.1. PSUR sub-section “Benefit-risk context - medical need and important**
887 **alternatives”**

888 This sub-section of the PSUR should provide a brief description of the medical need for the medicinal
889 product in the authorised indications and summarised alternatives (medical, surgical or other;
890 including no treatment).

891 **VII.B.5.18.2. PSUR sub-section “Benefit-risk analysis evaluation”**

892 A benefit-risk profile is specific to an indication and population. Therefore, for products authorised for
893 more than one indication, benefit-risk profile should be evaluated and presented by each indication
894 individually. If there are important differences in the benefit-risk profile among populations within an
895 indication, benefit-risk evaluation should be presented by population, if possible.

896 The benefit-risk evaluation should be presented in a structured manner, as described below:

- 897 • General points regarding benefits and risks:
- 898 – Whereas previous sections will include all important benefit and risk information, not all
899 benefits and risks contribute importantly to the overall benefit-risk evaluation. Therefore, the
900 key benefits and risks considered in the evaluation should be specified. The key information
901 presented in the previous benefit and risk sections should be carried forward for integration in
902 the benefit-risk evaluation.
 - 903 – Consider the context of use of the medicinal product: the condition to be treated, prevented, or
904 diagnosed; its severity and seriousness; and the population to be treated (relatively healthy;
905 chronic illness).
 - 906 – With respect to benefit, consider its nature, clinical importance, duration, and generalisability,
907 as well as evidence of efficacy in non-responders to other therapies and alternative treatments.
908 Consider the effect size. If there are individual elements of benefit, consider all (e.g. for
909 therapies for arthritis: reduction of symptoms and inhibition of radiographic progression of joint
910 damage).
 - 911 – With respect to risk, consider its clinical importance, (e.g. nature of toxicity, seriousness,
912 frequency, predictability, preventability, reversibility, impact on patients), and whether it arose
913 from off-label use, a new use, or misuse.
 - 914 – The strengths, weaknesses, and uncertainties of the evidence should be considered when
915 formulating the benefit-risk evaluation. Describe how uncertainties in the benefits and risks
916 impact the evaluation. For example, uncertainty in important benefits and/or risks may reduce
917 their contribution(s) to the evaluation. Limitations of the assessment should be discussed.
- 918 • Provide a clear explanation of the methodology and reasoning used to develop the benefit-risk
919 evaluation:

- 920 – The assumptions, considerations, and judgement or weighting that support the conclusions of
921 the benefit-risk evaluation should be clear.
- 922 – Comment on the feasibility of expressing benefits and risks in such a way as to facilitate their
923 comparison.
- 924 – If a formal quantitative assessment of benefit-risk is provided, a summary of the methods
925 should be included.
- 926 – Economic considerations (e.g. cost-effectiveness) should not be considered in the benefit-risk
927 evaluation.

928 When there is important new information or an ad hoc PSUR has been requested, a detailed benefit-
929 risk analysis based on cumulative data would be appropriate. Conversely, where little new information
930 has become available during the reporting interval, the primary focus of the benefit-risk evaluation
931 might consist of an evaluation of updated interval safety data.

932 **VII.B.5.19. PSUR section “Conclusions and actions”**

933 The conclusion section of the PSUR should provide a conclusion about the implications of any new
934 information that arose during the reporting interval, in terms of the overall evaluation of benefit-risk
935 for each authorised indication, as well as for relevant subgroups, if appropriate.

936 Based on the evaluation of the cumulative safety data and the benefit-risk analysis, the marketing
937 authorisation holder should assess the need for changes to the CCDS/CCSI, and propose changes as
938 appropriate.

939 In addition, the conclusions should include preliminary proposal(s) to optimise or further evaluate the
940 benefit-risk balance, for further discussion with the relevant competent authority(ies). This may
941 include proposals for additional risk minimisation activities.

942 For products with pharmacovigilance or risk management plan, the proposals should be incorporated
943 into the pharmacovigilance plan and risk minimisation plan (see [Module V](#)).

944 **VII.B.5.20. Appendices to the PSUR**

945 The PSUR should contain the following appendices as appropriate:

- 946 1. Reference information
- 947 2. Cumulative summary tabulations of serious adverse events from clinical trials
- 948 3. Cumulative and interval summary tabulation of serious and non-serious adverse reactions from
949 post-marketing data sources
- 950 4. Signal tabulation
- 951 5. Signals evaluation, when applicable
- 952 6. Listing of all post-authorisation safety studies
- 953 7. Regional appendix:

954 The information included in this appendix should be used to comply with national or regional
955 requirements¹⁴.

¹⁴ For the EU-specific requirements, see [VII.C.5](#).

956 **VII.B.6. Quality systems for PSURs at the level of marketing authorisation**
957 **holders**

958 Marketing authorisation holders should have in place structures and processes for the preparation,
959 quality control, review and submission of PSURs including follow-up during and after their assessment.
960 These structures and processes should be described by means of written policies and procedures in the
961 marketing authorisation holder's quality system (see **Module I**).

962 There are a number of areas in the pharmacovigilance process that can directly impact the quality of
963 PSURs, some examples are case management of spontaneous and clinical study reports, literature
964 screening, signal detection, validation and evaluation, additional pharmacovigilance and post-
965 marketing research activities, procedures for integration of information on benefits and risks from
966 available data sources and maintenance of product information. The quality system should describe the
967 links within the processes, the communication channels and the responsibilities with the aim of
968 gathering all the relevant information for the production of PSURs. There will be documented
969 procedures including quality control checks in place to check the accuracy and completeness of the
970 data presented in the PSURs. In ensuring completeness of data, a documented template or plan for
971 drawing data from various data sources could be developed. The importance of an integrated approach
972 to benefit-risk evaluation should underpin processes and cross departmental input to PSUR
973 preparation.

974 As established in the content of the PSUR (see **VII.B.5.**), the PSUR should also contain the assessment
975 of specific safety concerns requested by competent authorities. The marketing authorisation holder
976 should have mechanisms in place to ensure that the requests made by the competent authority(ies)
977 during the time of their PSUR assessment are properly addressed.

978 The provision of the data included in the summary tabulations (see **VII.B.5.6.**) should undergo source
979 data verification against the marketing authorisation holder's safety database to ensure accuracy of the
980 number of events/reactions provided. The process for querying the safety database, the parameters
981 used for the retrieval of the data and the quality control performed should be properly documented.

982 An appropriate quality system should be in place in order to avoid failure to comply with PSUR
983 requirements such as:

- 984 • non-submission: complete non-submission of PSURs, submission outside the correct submission
985 schedule or outside the correct time frames (without previous agreement with the competent
986 authorities);
- 987 • unjustified omission of information required by **VII.B.5.**;
- 988 • poor quality reports: Poor documentation or insufficient information or evaluation provided to
989 perform a thorough assessment of the new safety information, safety signals, risk evaluation,
990 benefit evaluation and integrated benefit-risk analysis, misuse not highlighted, absence of use of
991 standardised medical terminology (e.g. MedDRA) and inappropriate dismissal of cases with no
992 reported risk factors in cumulative reviews;
- 993 • submission of a PSUR where previous requests from competent authorities have not been
994 addressed.

995 Any significant deviation from the procedures relating to the preparation or submission of PSURs
996 should be documented and the appropriate corrective and preventive action should be taken. This
997 documentation should be available at all times.

998 When the preparation of the PSUR is delegated to third parties, the marketing authorisation holder
999 should ensure that they are subject to a quality system compliant with the obligations provided by the

1000 legislation. Explicit procedures and detailed agreements should exist between the marketing
1001 authorisation holder and the third parties.

1002 ***VII.B.7. Training of staff members related to the PSUR process***

1003 It is the responsibility of the person responsible for the pharmacovigilance system to ensure that the
1004 personnel, including pharmacovigilance, medical and quality personnel involved in the preparation,
1005 review, quality control, submission and assessment of PSURs are adequately qualified, experienced
1006 and trained according to the applicable guidelines. When appropriate, specific training for the different
1007 processes, tasks and responsibilities relating to the PSUR should be in place.

1008 Training to update knowledge and skills should also take place as necessary.

1009 Training should cover legislation, guidelines, scientific evaluation and written procedures related to the
1010 PSUR process. The training records should demonstrate that the relevant training was delivered prior
1011 to performing PSUR-related activities.

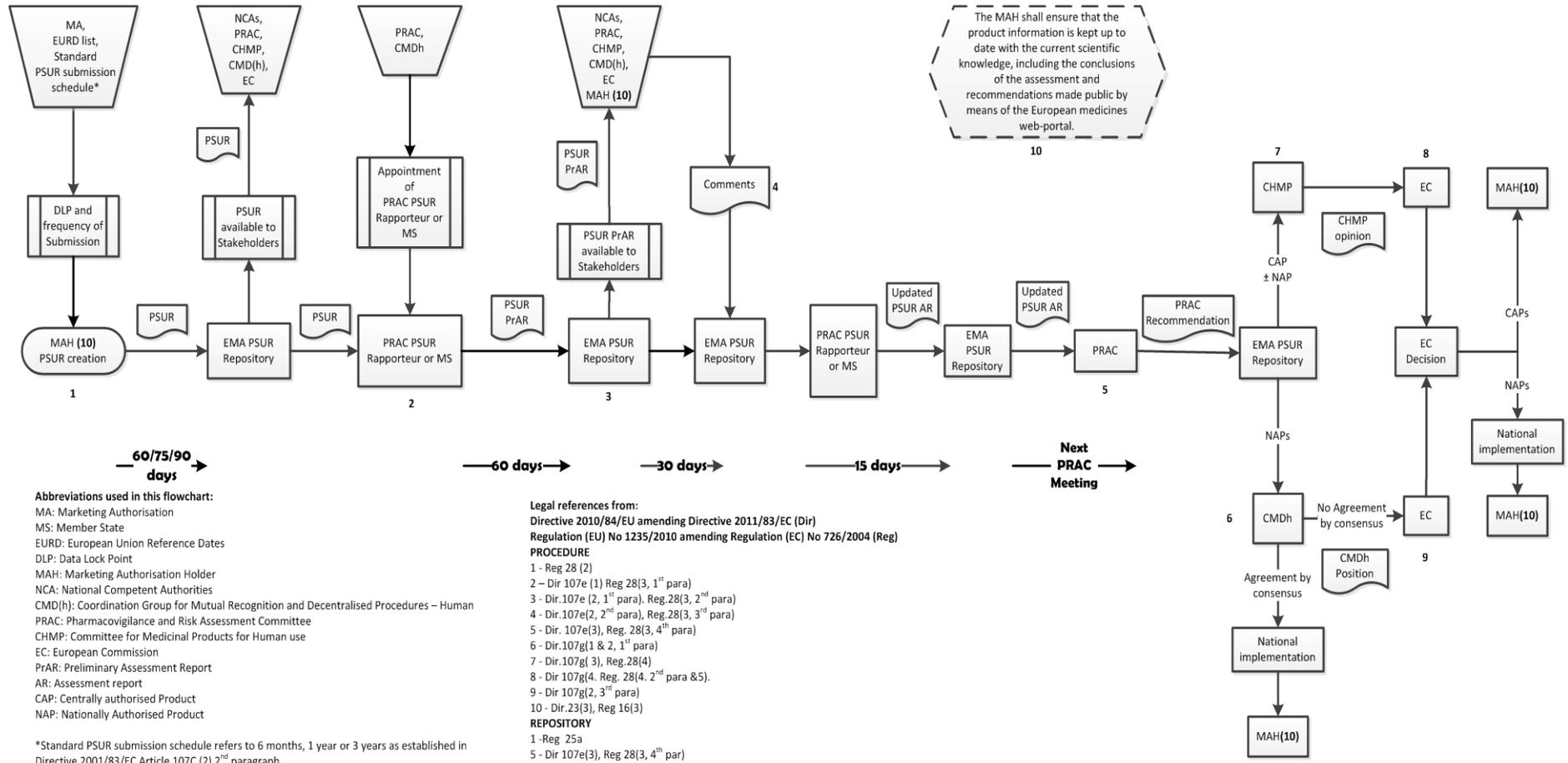
1012 **VII.C. Operation of the EU network**

1013 ***VII.C.1. The PSUR process in the EU - General process***

1014 The following flowchart (Figure VII.1.) reflects the general process cycle for the PSUR procedure at the
1015 EU level when recommendations by the PRAC are issued. This represents a high level cycle to outline
1016 the entire process, from the preparation of the report to the implementation of the European
1017 Commission decision/national actions when applicable. Different single steps in this flowchart are
1018 formed by intermediate steps further explained and developed in different sections in this Module.

1019 **Figure VII.1. PSUR procedure - general process**

1020



1021

1022 **VII.C.2. Standard submission schedule of PSURs**

1023 Marketing authorisation holders for products authorised before 02 July 2012 (centrally authorised
1024 products) and 21 July 2012 (nationally authorised products) and for which the frequency and dates of
1025 submission of PSURs are not laid down as a condition to the marketing authorisation or determined
1026 otherwise in the list of Union reference dates shall submit PSURs according to the following submission
1027 schedule (hereafter "standard" submission schedule) [REG 28(2), DIR Art 107c(2)]:

- 1028 • at 6 months intervals once the product is authorised, even if it is not marketed;
- 1029 • once the product is marketed, 6 monthly PSURs submission should be continued following initial
1030 placing on the market in the EU and until 2 years of marketing experience in the EU, then once a
1031 year for the following 2 years and thereafter at 3-yearly intervals.

1032 PSURs shall also be submitted at any time immediately upon request by the national competent
1033 authority(ies) or the Agency.

1034 **VII.C.3. List of European Union reference dates and frequency of** 1035 **submission of PSURs**

1036 **VII.C.3.1. Objectives of the EU reference dates list**

1037 The Agency shall make public a list of Union reference dates (hereinafter referred to as list of EU
1038 reference dates) and frequency of submission of PSURs by means of the European medicines web-
1039 portal [DIR Art 107c(7), REG Art 26(1)(g)].

1040 The objectives of the list of EU reference dates and frequency of submission of PSURs are:

- 1041 • Harmonisation of data lock point and frequency of submission of PSURs for the same active
1042 substance and combination of active substances:

1043 For medicinal products containing the same active substance or combination of active substances
1044 subject to different marketing authorisations, an EU reference date should be set up and the
1045 frequency and date of submission of PSURs harmonised in order to allow the preparation of a
1046 single assessment established in [DIR Art 107e(1)]. Such information will be included in the list
1047 published by the Agency.

- 1048 • Optimisation of the management of PSURs and PSURs assessments within the EU:

1049 The list overrules the submission schedule described in [DIR Art 107c(2)(b)].

1050 For active substances or combinations of active substances included in the list, marketing
1051 authorisation holders shall vary, if applicable, the condition laid down in their marketing
1052 authorisations in order to allow the submission of PSURs in accordance to the frequency and
1053 submission date as indicated in the list [DIR 107c(4) to (7)].

1054 The periodicity is defined on the basis of a risk-based approach in order to prioritise the periodic
1055 re-evaluation of the risk-benefit balance of active substances in a way that best protects public
1056 health. [Directive 2010/84/EU Preamble Recital 23].

- 1057 • Single EU assessment and reassessment of the risk-benefit balance of an active substance based
1058 on all available safety data:

1059 The list enables the harmonisation of PSUR submissions for medicinal products containing the
1060 same active substance or the same combination of active substances.

1061 A single EU PSUR assessment provides a mechanism for evaluating the totality of available data on
1062 the benefits and risks of an active substance or combination of active substances. The effective
1063 application of work sharing principles is important in avoiding duplication of efforts and in
1064 prioritising the use of limited resources in the best interests of European citizens.

1065 **VII.C.3.2. Description of the EU reference dates list**

1066 The Union reference date of medicinal products containing the same active substance or the same
1067 combination of active substances shall be [DIR Art 107c(5)]:

- 1068 • the date of the first marketing authorisation in the EU of a medicinal product containing that active
1069 substance or that combination of active substances; or
- 1070 • if the date of first marketing authorisation cannot be ascertained, the earliest of the known dates
1071 of the marketing authorisations for a medicinal product containing that active substance or that
1072 combination of active substances.

1073 The list of EU reference dates and frequency of submission of PSURs consists of a comprehensive list of
1074 substances and combinations of active substances sorted in alphabetical order, for which PSURs, where
1075 required, shall be submitted in accordance with the EU reference date and the frequency as
1076 determined by the Committee for Medicinal Products for Human Use (CHMP) and the Coordination
1077 Group for Mutual Recognition and Decentralised Procedures - Human (CMDh) following consultation
1078 with the Pharmacovigilance and Risk Assessment Committee (PRAC) [DIR Art 107c(4) and (6)].

1079 The EU list will contain the following information:

- 1080 • the EU reference dates;
- 1081 • the frequencies of submission of PSURs;
- 1082 • the data lock points of the next submissions of PSURs;
- 1083 • the date of publication (on the European Medicines web-portal) of the frequency for PSURs
1084 submission and data lock point for each active substance and combination of active substances.
1085 Any change to the dates of submission and frequency on PSURs specified in the marketing
1086 authorisation shall take effect 6 months after the date of such publication [DIR Art 107c(7)].

1087 Where specificity deemed necessary, the list should include the scope of the PSUR and related EU
1088 single assessment procedure (see VII.C.3.3.) such as:

- 1089 • whether or not it should cover all the indications of the substance or combination of active
1090 substances;
- 1091 • whether or not it should cover all the formulations/routes of administration of the products
1092 containing the substance or combination of active substance;
- 1093 • whether generic, well-established use, traditional herbal and homeopathic medicinal products shall
1094 submit a PSUR due to a request from a competent authority or due to concerns relating to
1095 pharmacovigilance data or due to the lack of PSURs relating to an active substance after the
1096 marketing authorisation has been granted [DIR Art 107c(2) second subparagraph] (see
1097 VII.C.3.3.2.).

1098 The list should be updated in line with the “list of all medicinal products for human use authorised in
1099 the Union” as referred to in [REG Art 57(b)].

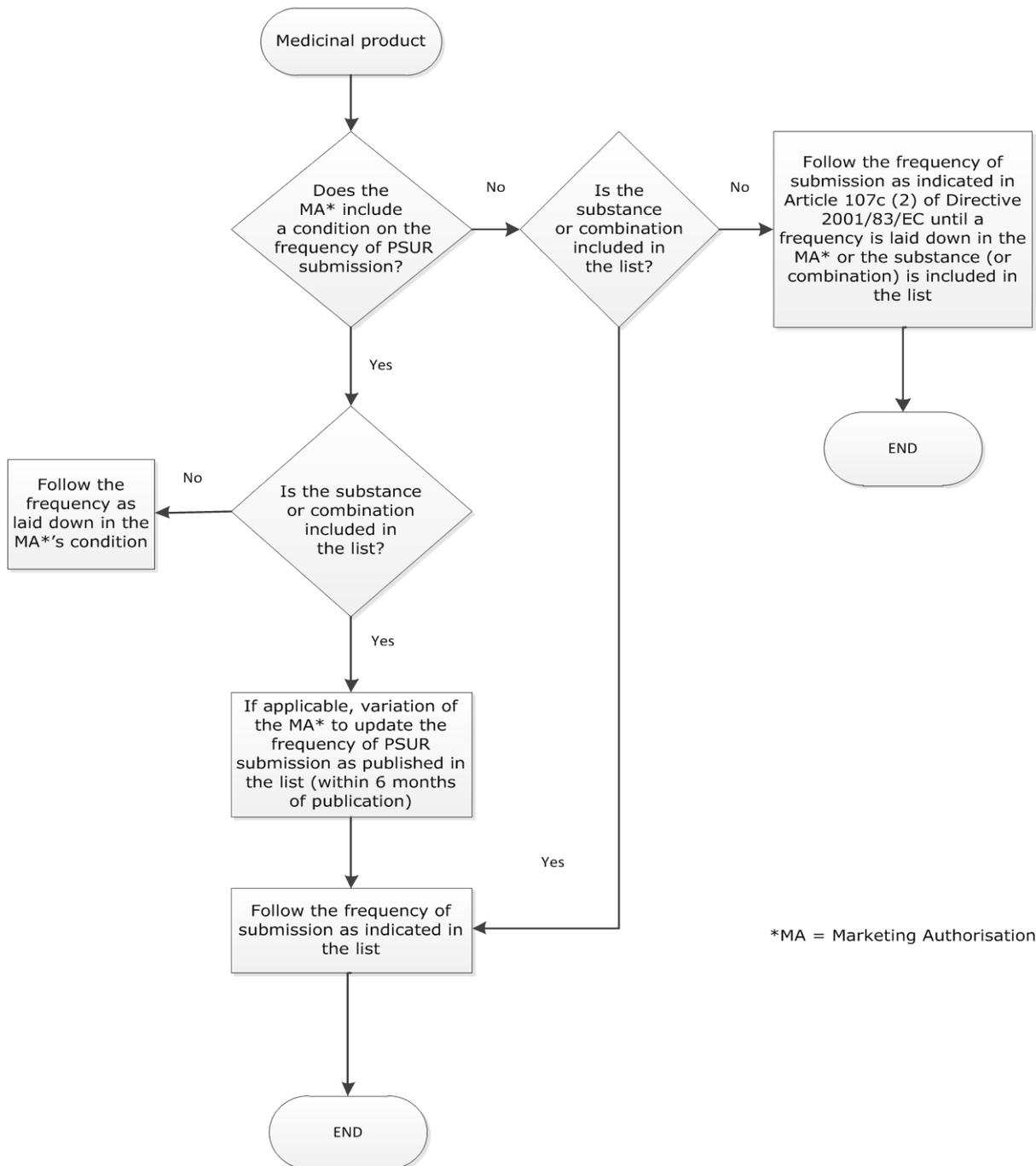
1100 **VII.C.3.3. Application of the list of EU reference dates to submission of**
1101 **PSURs**

1102 **VII.C.3.3.1. Submission of PSURs for medicinal products: general requirement**

1103 Figure VII.2. presents the various potential scenarios as regard the submission of a PSUR as a general
1104 requirement.

1105 **Figure VII.2.** Conditions for PSURs submission as general requirement

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1108

1109 Unless otherwise specified in the list of EU reference dates and frequency of submission, a single PSUR
1110 should be prepared for all medicinal products containing the same active substance and authorised for
1111 one marketing authorisation holder, including all indications, routes of administration, dosage forms
1112 and dosing regimens, irrespective of whether authorised under different names and through separate
1113 procedures [IM Annex III.1(7)].

1114 For medicinal products containing an active substance or a combination of active substances not
1115 included in the EU reference dates list, PSURs shall be submitted according to the PSUR frequency
1116 defined in the marketing authorisation or if not specified, in accordance with the submission schedule
1117 specified in [DIR Art 107c(2), REG Art 28(2)].

1118 ***VII.C.3.3.2. Submission of PSURs for generic, well-established use, traditional herbal and***
1119 ***homeopathic medicinal products***

1120 By way of derogation, generics (authorised under DIR Art 10(1)), well-established use (authorised
1121 under DIR Art 10a), homeopathic (authorised under DIR Art 14) and traditional herbal (authorised
1122 under DIR Art 16a) medicinal products are exempted from submitting PSURs except in the following
1123 circumstances [DIR Art 107b(3)]:

- 1124 • the marketing authorisation provides for the submission of PSURs as a condition;
- 1125 • PSURs is (are) requested by a competent authority in a Member State on the basis of concerns
1126 relating to pharmacovigilance data or due to the lack of PSURs relating to an active substance after
1127 the marketing authorisation has been granted. The assessment reports of the requested PSURs
1128 shall be communicated to the PRAC, which shall consider whether there is a need for a single
1129 assessment report for all marketing authorisations for medicinal products containing the same
1130 active substance and inform the CMDh or CHMP accordingly, in order to apply the procedures laid
1131 down in [DIR Art 107c(4) and 107e].

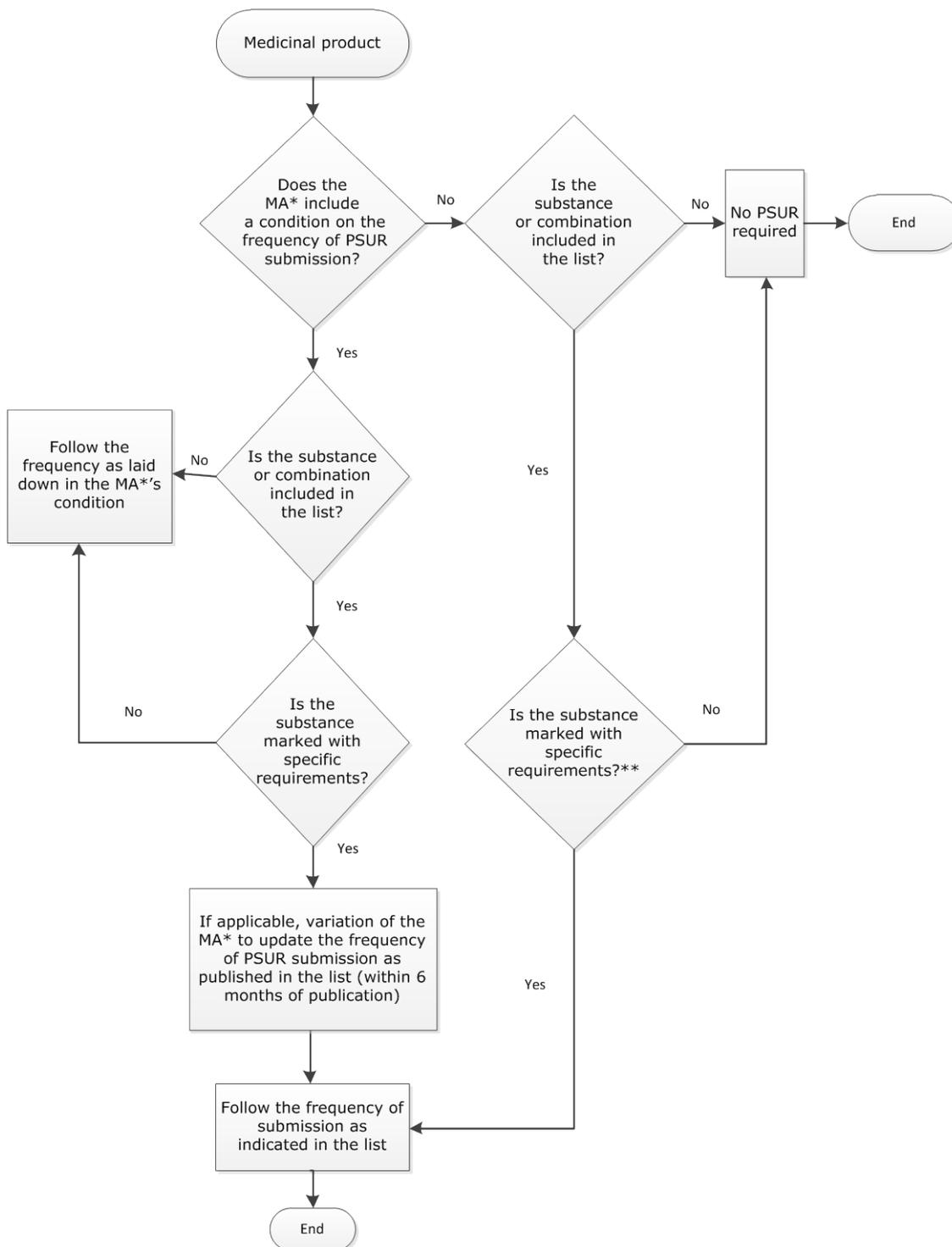
1132 In order to facilitate and optimise the PSUR EU single assessment process, to avoid duplications of
1133 requests for PSURs and to provide transparency and predictability for the marketing authorisation
1134 holders, the legislative provision laid down in [DIR 107b(3)(b)] will be applied by specifying in the list
1135 of EU reference dates, the substances for which PSURs for generic, well-established use, traditional
1136 herbal and homeopathic medicinal products are required. This specification is based on the request
1137 made by a competent authority in a Member State during the creation or maintenance of the list of EU
1138 reference dates and on the basis of concerns relating to pharmacovigilance data or due to the lack of
1139 PSURs relating to an active substance.

1140 The harmonised frequency for the submission of the reports and the Union reference dates are
1141 determined by the CHMP and/or CMDh after consultation of the PRAC.

1142 The application of the list of Union reference dates for the submission of PSURs for generic, well-
1143 established use, traditional herbal and homeopathic medicinal products does not undermine the right
1144 of a competent authority in a Member State to request the submission of PSURs at any time under the
1145 provision laid down in [DIR Art 107c(2) second subparagraph].

1146 The flowchart in Figure VII.3. presents the various potential scenarios as regard the submission of a
1147 PSUR for generic, well-established use, traditional herbal and homeopathic medicinal products:

1148 **Figure VII.3.** Conditions for PSURs submission for generic, well-established use, traditional herbal
 1149 and homeopathic medicinal products



*MA: Marketing Authorisation

**Specific requirements refer to:

- whether marketing authorisation holders for generic, well-established use, traditional herbal and homeopathic medicinal products are requested to submit PSURs following a request of a competent authority in a Member State due concerns relating to pharmacovigilance data or lack of PSUR submission and;
- whether or not the PSUR should cover all the indications, formulations, route of administrations.

1151 **VII.C.3.3.3. Submission of PSURs for fixed dose combination products**

1152 Unless otherwise specified in the list of EU reference dates and frequency of submission, there are two
1153 options for products containing the same combination of active substances. The marketing
1154 authorisation holder shall either submit a stand-alone PSUR for the combination of active substances
1155 authorised for the same marketing authorisation holder, with cross-references to the single-substance
1156 PSUR(s), or provide the combination data within one of the single substance PSURs. [IM Annex
1157 III.1(8)].

1158 As stated under VII.B.2., agreement with the competent authority(ies) in Member States or the Agency
1159 and the marketing authorisation holders should be reached as to the submission of a stand-alone PSUR
1160 for the combination of active substances, or to the possibility to analyse data on the combination
1161 within one of the single active substance's PSUR.

1162 **VII.C.3.3.4. Submission of PSURs on demand of a competent authority in a Member State**

1163 Marketing authorisation holders shall submit PSURs immediately upon request from a competent
1164 authority in a Member State [DIR Art 107c(2)]. To facilitate the EU assessment and avoid duplication
1165 requests, the competent authorities in the Member States may make use of the list of EU reference
1166 dates to request the submission of PSURs.

1167 **VII.C.3.4. Criteria used for defining the frequency of submission of PSURs**

1168 When deviating from the PSUR submission schedule defined in [DIR Art 107c(2)(b)], the frequencies of
1169 submission of PSURs and the corresponding data lock points should be defined on a risk-based
1170 approach by the CHMP where at least one of the marketing authorisations concerned has been granted
1171 in accordance with the centralised procedure or by the CMDh otherwise, after consultation with the
1172 PRAC.

1173 The following prioritisation criteria should be taken into account when defining the frequency of
1174 submission for a given active substance or combination of active substances:

- 1175 • information on risks or benefits that may have an impact on the public health;
- 1176 • new product for which there is limited safety information available to date (includes pre- and post-
1177 authorisation experiences);
- 1178 • significant changes to the product (e.g. new indication has been authorised, new pharmaceutical
1179 form or route of administration broadening the exposed patient population);
- 1180 • vulnerable patient populations/poorly studied patient populations, important missing information
1181 (e.g. children, pregnant women) while these populations are likely to be exposed in the post-
1182 authorisation setting;
- 1183 • signal of/potential for misuse, medication error, risk of overdose or dependency;
- 1184 • the size of the safety database and exposure to the medicinal product;
- 1185 • medicinal products subjected to additional monitoring.

1186 Any change in the criteria listed above for a given active substance or combination of active substances
1187 may lead to an amendment of the list (e.g. increase of the frequency for PSUR submission).

1188 **VII.C.3.5. Maintenance of the list of EU reference dates**

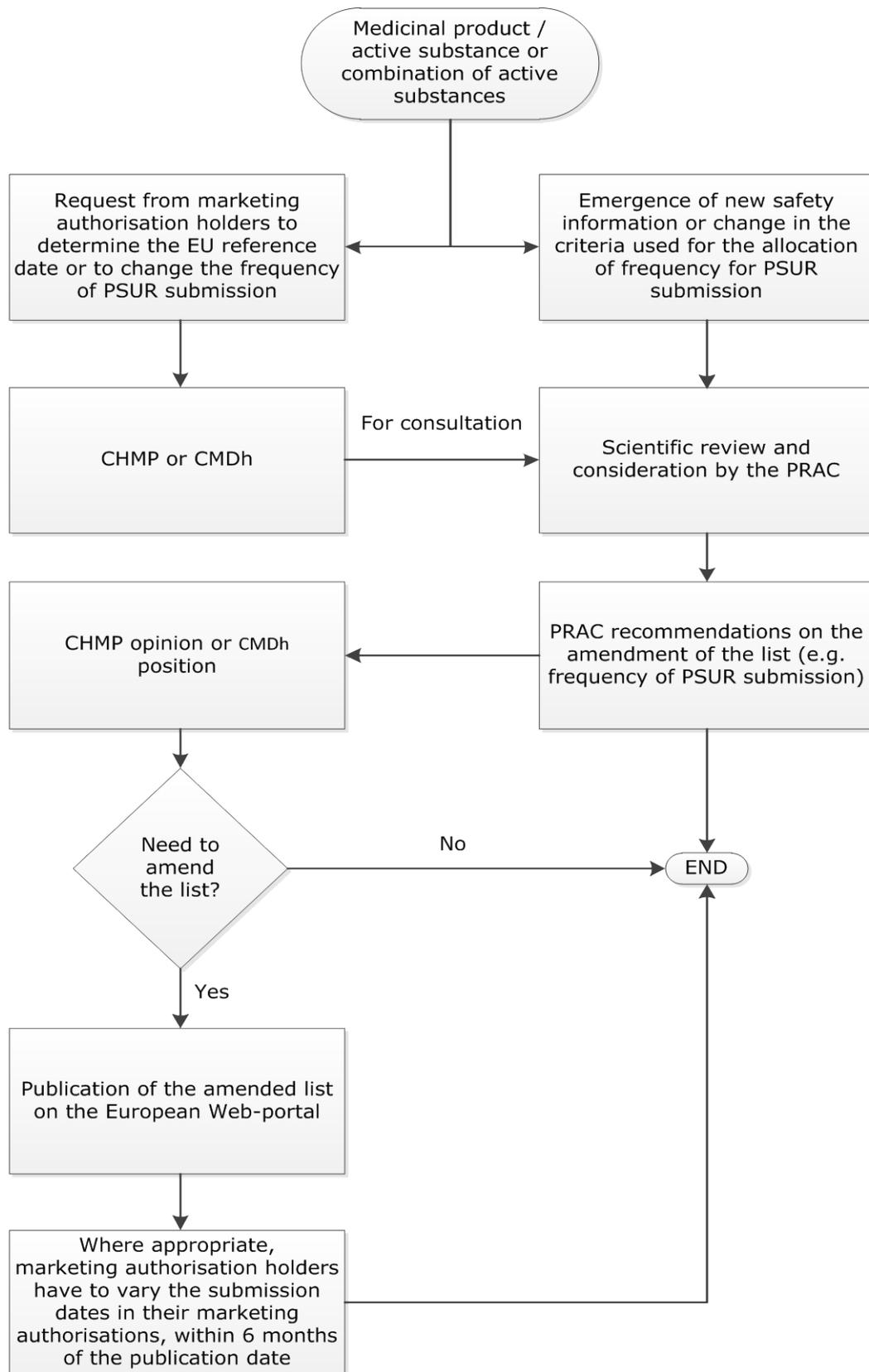
1189 ***VII.C.3.5.1. General principles***

1190 The maintenance of the list of EU reference dates should facilitate regulatory responsiveness to public
1191 health concerns identified within the EU and therefore the list will be subject to changes to reflect the
1192 decisions taken (e.g. by the Agency's committees following signal detection).

1193 The information included in the list such as the active substances and combinations of active
1194 substances, the frequencies of submission of PSURs and data lock points may need to be updated
1195 when considered necessary by the CHMP or CMDh after consultation with the PRAC. Changes to the list
1196 may be applied on one of the following grounds:

- 1197 • emergence of new information that might have an impact on the risk-benefit balance of the active
1198 substances or combinations of active substances, and potentially on public health;
- 1199 • any change in the criteria used for the allocation of frequency for PSUR submission and defined
1200 under VII.C.3.4.;
- 1201 • a request from the marketing authorisation holders as defined under [DIR Art 107c(6)];
- 1202 • active substance newly authorised.

1203 Figure VII.4. provides a general overview of the maintenance of the list of EU reference dates and
1204 frequency of submission of PSURs.



1207 **VII.C.3.5.2. Requests from marketing authorisation holders to amend the list of EU**
1208 **reference dates**

1209 The marketing authorisation holders shall be allowed to submit request to the CHMP or the CMDh, as
1210 appropriate, to determine the Union reference dates or to change the frequency of submission of PSUR
1211 on one of the following grounds [DIR Art 107c(6)]:

- 1212 • for reasons relating to public health;
- 1213 • in order to avoid a duplication of the assessment;
- 1214 • in order to achieve international harmonisation.

1215 The request and its grounds should be sent via email <address> before it can be considered by the
1216 PRAC and the CHMP if it concerns at least one marketing authorisation granted in accordance with the
1217 centralised procedure or the CMDh otherwise, which will either approve or deny the request.

1218 The list will then be amended accordingly when appropriate and published on the European medicines
1219 web-portal (see section VII.C.3.6.).

1220 **VII.C.3.6. Publication of the list**

1221 Upon its establishment and adoption by the CHMP and CMDh following PRAC consultation, the list of EU
1222 reference dates and frequency of submission of PSURs is published on the European medicines web-
1223 portal.

1224 In case of amendments, the updated list should be published the week following its adoption by the
1225 CHMP or the CMDh. It is expected to be updated monthly.

1226 Marketing authorisation holders shall continuously check the European medicines web-portal for any
1227 relevant updates, including consultations and notifications of procedures [IM Art 14(e)].

1228 **VII.C.3.7. Amendment of the marketing authorisation according to the list**
1229 **of EU reference dates**

1230 Any changes to the dates and frequencies of submission of PSUR specified in the list take effect six
1231 months after the date of the publication on the European medicines web-portal.

1232 Where appropriate, marketing authorisation holders shall submit the relevant variation within these six
1233 months in order to reflect the new information in their marketing authorisations [DIR 107c(6)].

1234 **VII.C.4. Processes for PSUR Assessment in the EU network**

1235 The competent authorities in the Member States shall assess PSURs to determine whether there are
1236 new risks or whether risks have changed or whether there are changes to the risk-benefit balance of
1237 the medicinal product [DIR Art 107d].

1238 For purely nationally authorised medicinal products authorised in one Member State and containing an
1239 active substance or combination of active substances for which an EU reference date and harmonised
1240 frequency has not been established, the assessment of PSUR is conducted by the competent authority
1241 in the Member State where the product is authorised (see VII.C.4.1.).

1242 For medicinal products authorised in more than one Member State (i.e. centrally authorised products,
1243 products authorised through the mutual recognition and decentralised procedures) and for medicinal
1244 products subject to different national marketing authorisations containing the same active substance or
1245 the same combination of active substances whether or not held by the same marketing authorisation

1246 holders and for which the frequency and dates of submission of PSURs have been harmonised in the
1247 list of EU reference dates, a EU single assessment of all PSURs is conducted with recommendation from
1248 the PRAC, in accordance with the procedure described in VII.C.4.2.1. and VII.C.4.2.2.

1249 Further to assessment of the PSUR and opinion from CHMP or position from the CMDh, as applicable,
1250 following the recommendation from the PRAC, the competent authorities in Member States, or the
1251 European Commission for centrally authorised products, shall take the necessary measures to
1252 maintain, vary, suspend or revoke the marketing authorisation(s), in accordance with outcome of the
1253 assessment [DIR Art 107g(2)] [REG Art 28(4) and (5)] (see VII.C.4.2.3. and VII.C.4.2.4.).

1254 The outcome of the PSUR assessment is legally binding and can result in the marketing authorisations
1255 of the concerned medicinal products being varied, suspended or revoked on the basis of the position of
1256 the CMDh or the opinion of the CHMP following the recommendations from the PRAC. The
1257 recommendations are therefore implemented in a harmonised and timely manner for all products
1258 within the scope of the procedure across the EU.

1259 **VII.C.4.1. PSURs for purely nationally authorised medicinal products not on** 1260 **the list of EU reference dates**

1261 It is the responsibility of the competent authority in the Member State to evaluate PSURs for these
1262 medicinal products.

1263 The assessment of the PSUR is conducted in accordance with the national legislation. Listings of
1264 individual case safety reports may be requested in the context of the PSUR assessment procedure for
1265 adverse reactions of special interest and should be provided by the marketing authorisation holder
1266 within an established timeframe to be included in the request. This may be accompanied by a request
1267 for an analysis of cases classified as non-serious.

1268 Following the assessment of PSURs, the competent authority in the Member State shall consider
1269 whether any action concerning the marketing authorisation for the medicinal product concerned is
1270 necessary. They shall maintain, vary, suspend or revoke the marketing authorisation as appropriate
1271 [DIR Art 107f] according to the appropriate procedure at national level.

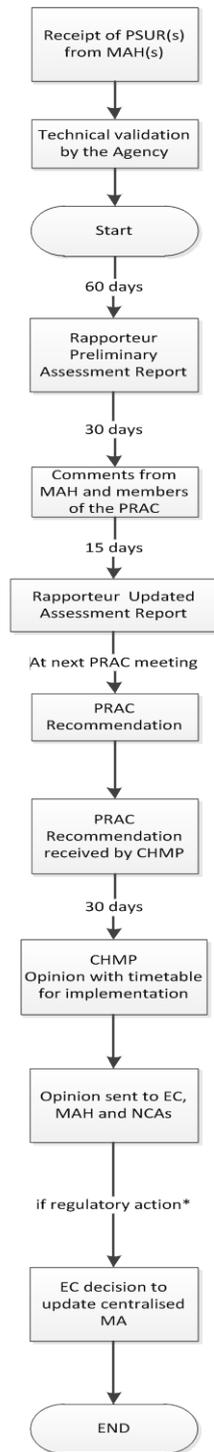
1272 The assessment report and conclusions of the competent authority in the Member State should be
1273 provided to the marketing authorisation holder.

1274 **VII.C.4.2. Medicinal products authorised in more than one Member State**

1275 ***VII.C.4.2.1. Assessment of PSURs for a single centrally authorised medicinal product***

1276 This section describes the assessment of PSURs where only one centrally authorised medicinal product
1277 is involved according to the procedure set up in Article 28 of Regulation (EC) No 726/2004 (see figure
1278 VII.5.).

1279 **Figure VII.5.** PSUR assessment procedure for a single centrally authorised medicinal product



* Regulatory action meaning CHMP opinion to vary, suspend or revoke marketing authorisation

Abbreviations used in this flowchart:
 MAH: Marketing Authorisation Holder
 PRAC: Pharmacovigilance and Risk Assessment Committee
 CHMP: Committee for Medicinal Products for Human Use
 EC: European Commission
 MA: Marketing Authorisation

1280

1281

1282 The assessment of PSURs for a single centrally authorised medicinal product is coordinated by the
1283 Agency and shall be conducted by a Rapporteur appointed by the PRAC [REG Art 28(3)] (hereinafter
1284 referred to as "PRAC Rapporteur").

1285 Upon receipt, the Agency should perform a technical validation of the report to ensure that the PSUR
1286 application is in a suitable format.

1287 Listings of individual cases* retrieved from EudraVigilance database, and other relevant data, are
1288 created by the Agency and made available to the PRAC Rapporteur.

1289 **Drafting note: this provision will be reviewed and implemented in light of the EudraVigilance*
1290 *implementation plan and reporting transitional arrangements.*

1291 Further to the above verifications and provision of EudraVigilance data, the Agency acknowledges
1292 receipt of the report and starts the procedure in accordance with the official starting dates published on
1293 the Agency's website. The submission deadlines and detailed procedural timetables are published as a
1294 generic calendar on the Agency's website.

1295 The published timetables identify the submission, start and finish dates of the procedures as well as
1296 other interim dates/milestones that occur during the procedure.

1297 During the assessment, additional listings of individual cases may be requested by the PRAC
1298 Rapporteur through the Agency for adverse drug reactions of special interest and should be provided
1299 by the marketing authorisation holder(s) within an established timeframe to be included in the request.
1300 This may be accompanied by a request for an analysis of cases classified as non-serious.

1301 During the drafting of the assessment report, the PRAC Rapporteur shall closely collaborate with the
1302 CHMP Rapporteur [REG Art 28(3)]. The PRAC Rapporteur's assessment of the PSUR should be
1303 performed using the assessment report template available in Annex III.

1304 The PRAC Rapporteur shall prepare an assessment report and send it to the Agency and to the
1305 members of the PRAC [REG Art 28(3)], within 60 days from the start of the procedure.

1306 The Agency shall send the PRAC Rapporteur's preliminary assessment report to the marketing
1307 authorisation holder [REG Art 28(3)].

1308 By Day 90, the marketing authorisation holder and members of the PRAC may send comments on the
1309 PRAC Rapporteur's preliminary assessment report to the Agency and the PRAC Rapporteur, using the
1310 template available in Annex III.

1311 Following receipt of comments, the PRAC Rapporteur shall prepare an updated assessment report [REG
1312 Art 28(3)] using the template available in Annex III, within 15 days (i.e. by Day 105). The updated
1313 assessment report is made available to the members of the PRAC.

1314 An oral explanation to the PRAC can be held at the request of the PRAC or the marketing authorisation
1315 holder in case of recommendation for a revocation or suspension of the marketing authorisation, a new
1316 contraindication, a restriction of the indication or a reduction of the recommended dose.

1317 The PRAC shall adopt the updated assessment report with or without further changes at its next
1318 meeting [REG Art 28(3)], together with a recommendation on the maintenance of the marketing
1319 authorisation or the need to vary, suspend or revoke the marketing authorisation. The PRAC
1320 recommendation may also request an update of the RMP, the need to conduct a post-authorisation
1321 safety study, review of safety issues and close monitoring of events of interest. Templates to be used
1322 by the PRAC are available in Annex III.

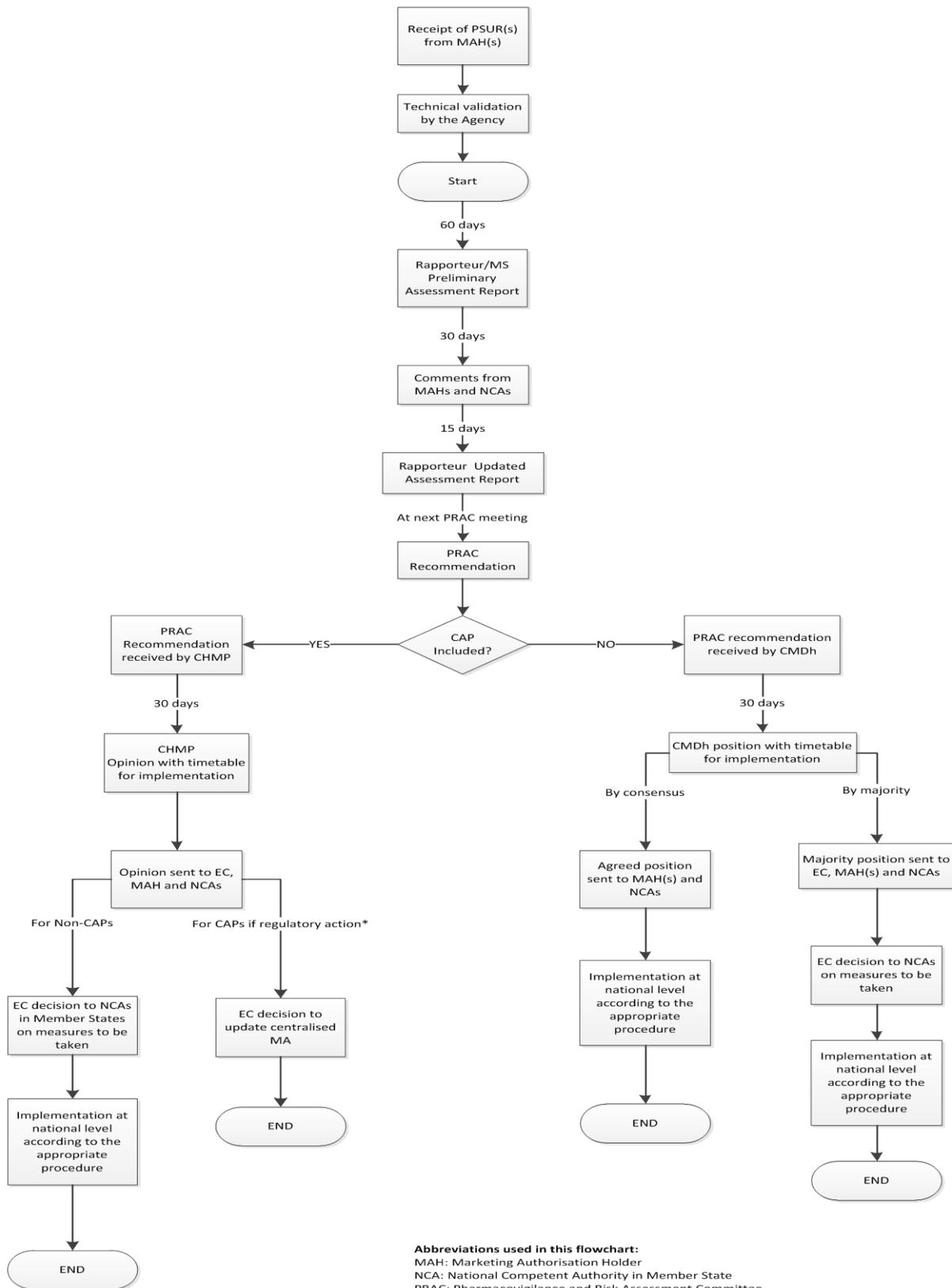
1323 Divergent positions of PRAC members and the grounds on which they are based shall be reflected in
1324 the recommendation issued by the PRAC [REG Art 28(3)].

1325 The Agency shall include the PRAC recommendation and adopted assessment report in the repository,
1326 and forward both to the marketing authorisation holder [REG Art 28(3)].

1327 Further to adoption at the PRAC meeting, the assessment report and PRAC recommendation are sent
1328 to the CHMP for adoption of an opinion for the centrally authorised product concerned as described in
1329 VII.C.4.2.3.

1330 **VII.C.4.2.2. Assessment of PSURs for medicinal products subject to different marketing**
1331 **authorisations containing the same active substance (EU single assessment)**

1332 This section describes the assessment of PSURs for medicinal products subject to different marketing
1333 authorisations containing the same active substance or the same combination of active substances
1334 whether or not hold by the same marketing authorisation holder and for which the frequency and dates
1335 of submission of PSUR have been harmonised in the list of EU reference dates. This could include a
1336 mixture of centrally authorised products, products authorised through the mutual recognition and
1337 decentralised procedures and purely nationally authorised products [DIR Art 107e to 107g] (so-called
1338 PSUR “EU single assessment” procedure).



* Regulatory action meaning CHMP opinion to vary, suspend or revoke marketing authorisation

Abbreviations used in this flowchart:
 MAH: Marketing Authorisation Holder
 NCA: National Competent Authority in Member State
 PRAC: Pharmacovigilance and Risk Assessment Committee
 CAP: Centrally Authorised Product
 CHMP: Committee for Medicinal Products for Human Use
 EC: European Commission
 CMDh: Coordination group for Mutual Recognition and Decentralised Procedures – Human
 MA: Marketing Authorisation

1341 The assessment of the PSURs for medicinal products, also called “EU single assessment”, shall be
1342 conducted by [DIR Art 107e(1)]:

- 1343 • a “Member State” appointed by the CMDh where none of the marketing authorisations concerned
1344 has been granted in accordance with the centralised procedure;
- 1345 • a “Rapporteur” appointed by the PRAC, where at least one of the marketing authorisations
1346 concerned has been granted in accordance with the centralised procedure (hereinafter referred to
1347 as “PRAC Rapporteur”).

1348 The PSUR EU single assessment procedure is coordinated by the Agency. Upon receipt, the Agency
1349 should perform a technical validation of the reports to ensure that the PSURs applications are in a
1350 suitable format.

1351 Upon establishment of the list of all medicinal products for human use authorised in the EU referred to
1352 in [REG Art 57], the Agency also will ensure that all marketing authorisation holder(s) of the given
1353 substance have submitted PSUR(s), as required. In the event where a PSUR has not been submitted,
1354 the Agency will contact the concerned marketing authorisation holder(s). However, this will not
1355 preclude the start of the single assessment procedure for other PSUR(s) of the same active substance.

1356 Listings of individual cases, summary tabulations and other relevant data are created and retrieved
1357 from the EudraVigilance database by the Agency* and made available to the PRAC Rapporteur or
1358 Member State.

1359 **Drafting note: this provision will be reviewed and implemented in light of the EudraVigilance
1360 implementation plan, reporting transitional arrangements and staff allocation.*

1361 Further to the above verifications and provision of EudraVigilance data, the Agency acknowledges
1362 receipt of the report(s) and starts the procedure in accordance with the official starting dates published
1363 on the Agency's website. The submission deadlines and full procedural detailed timetables are
1364 published as a generic calendar on the Agency's website.

1365 The published timetables identify the submission, start and finish dates of the procedures as well as
1366 other interim dates/milestones that occur during the procedure.

1367 Further to the start of procedure, the PRAC Rapporteur or Member State conducts the single
1368 assessment of all PSURs submitted for the given active substance. The PSUR assessment should be
1369 prepared using the assessment report template available in [Annex III](#).

1370 During the assessment, additional listings of individual cases may be requested by the PRAC
1371 Rapporteur or Member State through the Agency for adverse drug reactions of special interest and
1372 should be provided by the marketing authorisation holder(s) within an established timeframe to be
1373 included in the request. This may be accompanied by a request for an analysis of cases classified as
1374 non-serious.

1375 The PRAC Rapporteur or Member State shall prepare an assessment report and send it to the Agency
1376 and to the Member States concerned [DIR Art 107e(2)], within 60 days from the start of the
1377 procedure. This preliminary assessment report should be circulated to the members of the PRAC.

1378 The Agency shall send the PRAC Rapporteur's/Member State preliminary assessment report to the
1379 concerned marketing authorisation holder(s) [DIR Art 107e(2)].

1380 By Day 90, the marketing authorisation holder(s), Member States and members of the PRAC as
1381 applicable may send comments on the PRAC Rapporteur's/Member State's preliminary assessment
1382 report to the Agency and the PRAC Rapporteur/Member State, as applicable, using the template
1383 available in [Annex III](#).

1384 Following receipt of comments, the PRAC Rapporteur/Member State shall prepare an updated
1385 assessment report [DIR Art 107e (3)] using the template available in Annex III, within 15 days (i.e. by
1386 Day 105). The updated assessment report is forwarded to the members of the PRAC.

1387 An oral explanation to the PRAC can be held at the request of the PRAC or the marketing authorisation
1388 holder in case of recommendation for a revocation or suspension of the marketing authorisation, a new
1389 contraindication, a restriction of the indication or a reduction of the recommended dose.

1390 The PRAC shall adopt the updated assessment report with or without further changes at its next
1391 meeting [DIR Art 107e(3)], together with a recommendation on maintenance of the marketing
1392 authorisation or the need to vary, suspend or revoke the marketing authorisation. The PRAC
1393 recommendation may also request an update of the RMP, the need to conduct a post-authorisation
1394 safety study, review of safety issue and close monitoring of events of interest. Templates to be used by
1395 the PRAC are available in Annex III.

1396 Divergent positions of PRAC members and the grounds on which they are based shall be reflected in
1397 the recommendation issued by the PRAC [DIR Art 107e(3)].

1398 The Agency shall include the PRAC recommendation and adopted assessment report in the repository,
1399 and forward both to the marketing authorisation holder(s) [DIR Art 107e(3)].

1400 Further to adoption at the PRAC meeting, the assessment report and PRAC recommendation are sent
1401 to:

- 1402 • the CHMP where at least one centrally authorised product is included in the single assessment, for
1403 adoption of an opinion as described in VII.C.4.2.3.;
- 1404 • the CMDh where no centrally authorised product is included in the single assessment, for
1405 agreement of a position as described in VII.C.4.2.4..

1406 ***VII.C.4.2.3. Single assessment including at least one centrally authorised product leading to***
1407 ***a CHMP opinion***

1408 The CHMP acknowledges receipt of the PRAC recommendation and assessment report at their next
1409 meeting following the PRAC adoption. Within 30 days from receipt, the CHMP shall consider the PRAC
1410 assessment report and recommendation and adopt an opinion on the maintenance, variation,
1411 suspension, revocation of the marketing authorisation(s) concerned [DIR 107g(3)].

1412 An oral explanation to the CHMP can be held at the request of the CHMP or the marketing authorisation
1413 holder(s) only in case of differences with the PRAC recommendation where CHMP considers the
1414 possibility of adopting an opinion on the suspension or revocation of the marketing authorisation(s), a
1415 new contraindication, a restriction of the indication or a reduction of the recommended dose.

1416 The opinion will contain the following:

- 1417 • the final assessment report and recommendation adopted by the PRAC;
- 1418 • detailed explanation of the scientific grounds for differences with the PRAC recommendation, if
1419 applicable [DIR Art 107g(3)];
- 1420 • in the case of a CHMP opinion to vary the marketing authorisation(s):
 - 1421 – for centrally authorised products, revised product information and if applicable, the conditions
1422 or restrictions imposed to the Member States for the safe and effective used of the medicinal
1423 product, in accordance with the provision provided in [DIR Art 127a];

1424 – for nationally authorised products, including those authorised through the mutual recognition
1425 and decentralised procedures, an annex indicating the new safety warnings and key risk
1426 minimisation recommendations to be included in the relevant sections of the product
1427 information as applicable. This annex should also include timelines for implementation by the
1428 competent authorities in Member States;

1429 • in the case of a CHMP opinion to suspend the marketing authorisation(s), the scientific conclusions
1430 together with the grounds for suspension and conditions for lifting the suspension. This annex
1431 should also include timelines for implementation by the competent authorities in Member States;

1432 • in the case of a CHMP opinion to revoke the marketing authorisation(s), the scientific conclusions
1433 together with the grounds for revocation. This annex should also include timelines for
1434 implementation by the competent authorities in Member States;

1435 • divergent positions of CHMP members, where applicable.

1436 Further to adoption, the Agency should send the CHMP opinion together with its annexes and
1437 appendices to the European Commission, marketing authorisation holder(s) and competent authorities
1438 in Member States.

1439 The final assessment conclusions and recommendations are published in the European medicines web-
1440 portal (VII.C.7.).

1441 ***a. Post CHMP opinion - Centrally authorised products***

1442 Where the CHMP opinion states that the terms of the marketing authorisation(s) needs to be varied,
1443 the marketing authorisation holder(s) of centrally authorised products should provide the translations
1444 of the product information in all EU official languages, in accordance with the translation timetable
1445 adopted by the CHMP.

1446 Further to receipt of a CHMP opinion stating that regulatory action to the concerned marketing
1447 authorisation is necessary, the European Commission shall adopt a decision addressed to marketing
1448 authorisation holders to vary, suspend or revoke the marketing authorisation(s) of centrally authorised
1449 product(s) [DIR Art 107g(4b)].

1450 Further to adoption, the European Commission should notify the decisions amending the terms of the
1451 marketing authorisation of centrally authorised products to the marketing authorisation holder(s). The
1452 Agency and the competent authorities in Member States will also receive the decision in electronic
1453 form.

1454 ***b. Post CHMP opinion - Nationally authorised products, including those authorised through 1455 the mutual recognition and decentralised procedures***

1456 Further to receipt of a CHMP opinion stating that regulatory action to the concerned marketing
1457 authorisations is necessary and further to consultation of the Standing Committee, the European
1458 Commission shall adopt a decision addressed to the competent authorities in Member States
1459 concerning the measures to be taken [DIR Art 107g(a)] in respect of nationally authorised products,
1460 including those authorised through the mutual recognition and decentralised procedures.

1461 Further to the receipt of the decision from the European Commission, the competent authorities in
1462 Member States shall take the necessary measures to maintain, vary, suspend or revoke the marketing
1463 authorisation(s), within 30 days unless otherwise specified in the timetable for implementation as
1464 appended to the decision [DIR Art 107g(4)].

1465 **VII.C.4.2.4. Single assessment not including centrally authorised product leading to a CMDh**
1466 **position**

1467 The CMDh acknowledges receipt of the PRAC recommendation and assessment report at their next
1468 meeting following the PRAC adoption.

1469 Within 30 days from receipt, the CMDh shall consider the PRAC assessment report and
1470 recommendation and reach a position on the maintenance, variation, suspension, revocation of the
1471 marketing authorisation(s) concerned [DIR Art 107g(1)].

1472 An oral explanation to the CMDh can be held at the request of the CMDh or the marketing
1473 authorisation holder(s), only in case of differences with the PRAC recommendation where the CMDh
1474 considers the possibility to reach a position on the suspension or revocation of the marketing
1475 authorisation(s), a new contraindication, a restriction of the indication or a reduction of the
1476 recommended dose.

1477 The position will contain the following:

- 1478 • the final assessment report and recommendation adopted by the PRAC;
- 1479 • detailed explanation of the scientific grounds for differences with the PRAC recommendation, if
1480 applicable [DIR Art 107g(2)];
- 1481 • in the case of a CMDh position to vary the marketing authorisation(s), an annex indicating the new
1482 safety warnings and key risk minimisation recommendations to be included in the relevant sections
1483 of the product information, as applicable. This annex should also include timelines for
1484 implementation by the marketing authorisation holder to submit a variation;
- 1485 • in the case of a CMDh position to suspend the marketing authorisation(s), the scientific conclusions
1486 together with the grounds for suspension and conditions for lifting the suspension. This annex
1487 should also include timelines for implementation by the competent authorities in Member States;
- 1488 • in the case of a CMDh position to revoke the marketing authorisation(s), the scientific conclusions
1489 together with the grounds for revocation This annex should also include timelines for
1490 implementation by the competent authorities in Member States;
- 1491 • divergent position(s) for the CMDh members, where applicable.

1492 The final assessment conclusions and recommendations are published in the European medicines web-
1493 portal (VII.C.7.).

1494 If the CMDh position is reached by consensus:

1495 The position agreed including the action to be taken is recorded by the chairperson in the minutes of
1496 the CMDh meeting where agreed.

1497 The chairman shall send the agreed CMDh position [DIR Art 107g(2)] and its appendices to the
1498 marketing authorisation holder(s) and competent authorities in Member States.

1499 Further to receipt of the CMDh position stating that regulatory action to the concerned marketing
1500 authorisation is necessary, the competent authorities in Member States shall adopt necessary
1501 measures to maintain, vary, suspend or revoke the marketing authorisation(s) concerned in
1502 accordance with the timetable for implementation determined in the agreed position [DIR Art
1503 107g(2)].

1504 In case the position of the CMDh agreed that variation to the terms of marketing authorisation is
1505 required, the marketing authorisation holder(s) shall submit the relevant variation to that effect within
1506 the timetable for implementation [DIR Art 107g(2)] as appended to the agreed position.

1507 If the CMDh position is reached by majority vote:

1508 The majority position on the action to be taken is recorded by the chairman in the minutes of the
1509 CMDh meeting where agreed.

1510 The majority position of the CMDh together with its annexes and its appendices shall be forwarded to
1511 the European Commission [DIR Art 107g(2)]. The position of the CMDh should also be forwarded to
1512 the competent authorities in Member States.

1513 Further to receipt of a CMDh position stating that regulatory action to the concerned marketing
1514 authorisation is necessary and further to consultation of the Standing Committee, the European
1515 Commission shall adopt decision(s) [DIR Art 107g(2)] addressed to the competent authorities in
1516 Member States in order for them to maintain, vary, suspend or revoke the marketing authorisation(s)
1517 of nationally authorised product(s) which is addressed to marketing authorisation holders.

1518 Further to receipt of the decision from the European Commission, the competent authorities in Member
1519 States shall take the necessary measures to maintain, vary, suspend or revoke the marketing
1520 authorisation(s) within 30 days unless otherwise specified in the timetable for implementation as
1521 appended to the agreed position [DIR Art 107g(2)].

1522 **VII.C.4.3. Relationship between PSUR and risk management plan**

1523 The general relationship between the risk management plan (RMP) and the PSUR is described in
1524 **Module V**, while an overview of the common RMP/PSUR modules is provided in **VII.C.4.3.1.**

1525 During the preparation of a PSUR, the marketing authorisation holder should consider whether any
1526 identified or potential risks discussed within the PSUR is important and requires an update of the RMP.
1527 In these circumstances, an updated RMP including the new important safety concern should be
1528 submitted with the PSUR and assessed in parallel, following the timetable for the assessment of PSUR
1529 as described above.

1530 If important safety concerns are identified during the assessment of a PSUR and no updated RMP or no
1531 RMP has been submitted, recommendations should be made to submit an update or a new RMP within
1532 a defined timeline.

1533 ***VII.C.4.3.1. PSUR and risk management plan – common modules***

1534 The proposed modular formats for the PSUR and the RMP aim to address duplication and facilitate
1535 flexibility by enabling common PSUR/RMP sections to be utilised interchangeably across both reports.
1536 Common sections with the above mentioned reports are identified in Table VII.1.:

1537

1538 **Table VII.1.** Common sections between PSUR and RMP

PSUR section	RMP section
Section 2 – “Worldwide marketing approval status” and EU marketing approval status included in the EU Regional Appendix	Sub-section of part I – “Product overview”
Section 3 – “Actions taken in the reporting interval for safety reasons”	Part II, module SV – “Post-authorisation experience”, section “Regulatory and marketing authorisation holder action for safety reason”
Sub-section 5.2 – “Cumulative and interval patient exposure from marketing experience”	Part II, module SV – “Post-authorisation experience”, section “Non-study post-authorisation exposure”
Sub-section 16.1 – “Summary of safety concerns”	Part II, module SVIII – “Summary of the safety concerns” (as included in the version of the RMP which was current at the beginning of the PSUR reporting interval)
Sub-section 16.4 – “Characterisation of risks”	Part II, Module SVII – “Identified and potential risks”
Sub-section 16.5 – “Effectiveness of risk minimisation (if applicable)”	Part V – “Risk minimisation measures”, section “Evaluation of the effectiveness of risk minimisation activities”

1539 **VII.C.5. EU-specific requirements for periodic safety update reports**

1540 The scientific evaluation of the risk-benefit balance of the medicinal product included in the PSUR
 1541 detailed in VII.B.5. shall be based on all available data, including data from clinical trials in
 1542 unauthorised indications and populations according to the provisions newly established by Article 107b
 1543 of Directive 2001/83/EC and by the Implementing Measure [IM Annex III.1(1)].

1544 The EU-specific requirements should be included in the PSUR EU regional appendix.

1545 **VII.C.5.1. PSUR EU regional appendix, sub-section “Additional**
 1546 **pharmacovigilance and risk minimisation activities”**

1547 For products without an RMP, the proposals for additional pharmacovigilance and additional risk
 1548 minimisation activities based on the conclusions and actions should be included in this PSUR section,
 1549 including the submission of an RMP when applicable.

1550 **VII.C.5.2. PSUR EU regional appendix, sub-section “EU marketing**
 1551 **authorisation status”**

1552 Marketing authorisation holders should provide a detailed description of the marketing status for all
 1553 Member States where marketing authorisation(s) have been granted. This information should contain
 1554 the following:

- 1555 • dates of marketing authorisation and subsequent renewal;
- 1556 • any qualifications surrounding the authorisation, such as restrictions of indications if relevant to
 1557 safety;
- 1558 • indications and special populations covered by the marketing authorisation;

- 1559 • lack of marketing authorisation, including explanation, by competent authorities in Member States;
- 1560 • withdrawal by the marketing authorisation holder of an application for authorisation submission if
1561 related to safety or efficacy;
- 1562 • dates of launch and cessation if any (where PSURs are common for identical products with different
1563 invented names or in the case of generics, the listing of the dates should cover separately all
1564 products);
- 1565 • dates when the marketing authorisation has been revoked/withdrawn or dates when the marketing
1566 or marketing authorisation has been suspended either by a competent authority or voluntarily by
1567 the marketing authorisation holder;
- 1568 • invented name(s).

1569 Typically, indications, populations (e.g. children versus adults) and pharmaceutical forms will be the
1570 same in many or even most Member States where the product is authorised. However, when there are
1571 important differences, which would reflect different types of patient exposure, such information should
1572 be noted. This is especially true if there are meaningful differences in the new benefit and/or safety
1573 information that is related to such different exposures.

1574 If more convenient and useful, separate regulatory status tables for different product uses or forms
1575 should be utilised.

1576 Entries by Member States should be listed in chronological order of marketing authorisations.

1577 **VII.C.5.3. PSUR EU regional appendix, sub-section “Company core safety** 1578 **information and summary of product characteristics”**

1579 The marketing authorisation holder should include in this section the meaningful differences between
1580 the CCSI and their proposals for the summary of product characteristics (SmPC).

1581 When the marketing authorisation holder considers that changes to the SmPC are required in line with
1582 the provisions established in Article 16(2) of Regulation (EC) No 726/2004 and Article 23(2) of
1583 Directive 2001/83/EC, the proposed amendments to the SmPC should be submitted with the PSUR
1584 provided these changes are in relation to the new safety information regarding the new interval
1585 covered. If not directly related to the new safety information, the amendments should not be delayed.
1586 It is the obligation of the marketing authorisation holder to submit a variation in accordance with the
1587 Regulation (EC) No 1234/2008 on variations to the terms of a marketing authorisation.

1588 The proposed SmPC and package leaflet should be included as an appendix to the PSUR.

1589 **VII.C.5.4. PSUR EU regional appendix, sub-section “Summary of ongoing** 1590 **safety concerns”**

1591 In order to support the information provided in PSUR section “Summary of safety concerns” (see
1592 VII.B.5.16.1.), table 1.10 (according to the current RMP template) “Summary – Ongoing safety
1593 concerns” should be included in this PSUR section. This table will be extracted from the version of RMP
1594 available at the beginning of the PSUR reporting period (See Module V).

1595 **VII.C.5.5. PSUR EU regional appendix, sub-section “Reporting of results** 1596 **from post-authorisation safety studies”**

1597 Findings from both interventional and non interventional post-authorisation safety studies (PASS) (see
1598 Module VIII) should be reported in the PSUR. While the marketing authorisation holder should inform

1599 competent authorities in Member States and the Agency as applicable about any new information that
1600 may impact on the risk-benefit balance immediately, the PSUR should provide comprehensive
1601 information on the findings of all PASS, both interventional and non-interventional, in PSUR sections 7
1602 and 8 respectively.

1603 Progress reports and final study reports generated during the reporting interval should be also included
1604 as an annex to the PSUR.

1605 For studies ongoing during the reporting period, the content of the progress report should follow a
1606 logical sequence and should include all the available data which is judged relevant for the progress of
1607 the study, e.g. number of patients who have entered the study according to their status (e.g.
1608 exposure, outcome) and problems encountered and deviations from the expected plan. Any additional
1609 information requested by competent authorities in Member States should also be included in the
1610 progress report.

1611 For those non-interventional post-authorisation safety studies being a condition to the marketing
1612 authorisation and for those included in the RMP the format and content of the final study report should
1613 follow the provisions of the Commission Implementing Regulation on the Performance of
1614 Pharmacovigilance Activities Provided for in Regulation (EC) No 726/2004 and Directive 2001/83/EC on
1615 the format of protocols, abstracts and final study reports for the post-authorisation safety studies
1616 provided to in Article 87a(g) of Regulation (EC) No 726/2004 and Article 108(g) of Directive
1617 2001/83/EC. For studies discontinued during the reporting period, the reasons for stopping the study
1618 should also be explained.

1619 If an important safety concern has been identified in the course of a study, regardless of whether it
1620 has been detected through pre-specified methods and whether the study is considered a PASS, the
1621 marketing authorisation holder and specifically the qualified person responsible for pharmacovigilance
1622 (QPPV) will have informed the relevant competent authorities in Member States immediately. This
1623 information and the outcome of its evaluation should be discussed in the study progress report sent to
1624 the competent authorities in Member States which should be also included in the PSUR EU regional
1625 appendix.

1626 PSURs should not be used as the initial communication method either for the submission of progress
1627 and final study reports to the competent authorities in Member States or for the notification of any new
1628 information that might influence the evaluation of the risk-benefit balance.

1629 ***VII.C.6. Quality systems and record management systems for PSURs in the*** 1630 ***EU network***

1631 **VII.C.6.1. Quality systems and record management systems at the level of** 1632 **the marketing authorisation holder**

1633 It is the responsibility of the marketing authorisation holder to check regularly the list of EU reference
1634 dates and frequency of submission published in the European medicines web-portal to ensure
1635 compliance with the PSUR reporting requirements for their medicinal products (see VII.C.3.).

1636 Systems should be in place to schedule the production of PSURs according to:

- 1637 • the list of EU reference dates and frequency of PSURs submission; or
- 1638 • the conditions laid down in the marketing authorisation; or
- 1639 • standard PSUR submission schedule established according to [DIR Art 107C(2)] for products
1640 authorised before 2 July 2012 (for centrally authorised products) and 21 July 2012 (for nationally

1641 authorised products) as applicable (without any conditions in their marketing authorisation or not
1642 included in the list of EU references dates and frequency of submission); or

- 1643 • ad hoc requests for PSURs by a competent authority in a Member State or the Agency.

1644 For those medicinal products where the submission of a RMP is not required, the marketing
1645 authorisation holder should maintain on file a specification of important identified risk, important
1646 potential risks and important missing information in order to support the preparation of the PSURs.

1647 The marketing authorisation holder should have procedures in place to follow the requirements
1648 established by the Agency for the submission of PSURs.

1649 The QPPV shall be responsible for the establishment and maintenance of the pharmacovigilance system
1650 [DIR Art 104(e)] and therefore should ensure that the pharmacovigilance system in place enables the
1651 compliance with the requirements established for the production and submission of PSURs. In relation
1652 to the medicinal products covered by the pharmacovigilance system, specific additional responsibilities
1653 of the QPPV in relation to PSURs should include:

- 1654 • ensuring the necessary quality, including the correctness and completeness, of the data submitted
1655 in the PSURs;
- 1656 • ensuring full response according to the timelines and within the procedure agreed (e.g. next PSUR)
1657 to any request from the competent authorities in Member States and the Agency related to PSURs;
- 1658 • awareness of the PSUR and assessment report conclusions, PRAC recommendations, CHMP
1659 opinions, CMDh positions and European Commission decisions in order to ensure that appropriate
1660 action takes place.

1661 The record retention times for product-related documents in **Module I** also apply to PSURs and source
1662 documents related to the creation of PSURs, including documents related to actions taken for safety
1663 reasons, clinical trials and post-authorisation studies, relevant benefit information and documents
1664 utilised for the calculation of patient exposure.

1665 **VII.C.6.2. Quality systems and record management systems at the level of** 1666 **the European Medicines Agency**

1667 The application of the Agency's quality system (see **Module I**) should support compliance by the
1668 Agency when fulfilling its tasks and responsibilities for the management of PSUR procedures and EU
1669 single assessments.

1670 The Agency should have in place a process to technically validate the completeness of PSUR
1671 submissions.

1672 Line listings and summary tabulations from the EudraVigilance database utilised to support the PSUR
1673 assessment will be created using validated reports by means of the EudraVigilance data analysis
1674 system. The validation of the reports should be documented together with a detailed description of the
1675 scope, production, quality control and storage of the line listings and summary tabulations from
1676 EudraVigilance.

1677 Effective communication and circulation of PSURs and related documents will be crucial for the
1678 successful completeness of the procedure; therefore processes have to be in place for the circulation of
1679 documents between the Agency, marketing authorisation holders, the Commission and the competent
1680 authorities in Member States. Where applicable, the procedures will establish the necessity for quality
1681 checks with the aim to remove any information of a personal or commercially confidential nature.

1682 The list of EU references dates and frequency of submission of PSURs published by the Agency in the
1683 European medicines web-portal should undergo a quality control check during the update process in
1684 order to properly reflect the decisions regarding the frequency of PSURs submission. Written
1685 procedures should reflect the different steps to follow for the maintenance of the list and its version
1686 control (see VII.C.3.).

1687 Prior to the publication of summaries of PSUR assessment reports in the European medicines web-
1688 portal (see VII.C.7.) the appropriate personnel at the Agency should adhere to the procedures
1689 established for web publication of documents produced by the Agency or competent authorities in the
1690 Member States.

1691 All records related to PSURs created by the Agency's staff members, experts or consultants are the
1692 property of the Agency and all PSURs and related documents received are in the custody of the
1693 Agency. Both types of PSURs records (created or received by the Agency) are subject to the Agency's
1694 overall control via the PSUR repository set up according to the provisions laid down in [REG Art 25a].

1695 The Agency's policy on records management (EMA/590678/2007)¹⁵, provides the basis for a
1696 consistent, sustainable and efficient records management programs and it has been developed in
1697 accordance with the commonly recognised international standard for records management, "ISO
1698 15489-1:2001 Information and documentation – Records management"¹⁶. According to the records
1699 classification stated by the Agency's policy, PSURs would be considered business, legal, evidential and
1700 research/historical value records.

1701 The record retention times for product-related documents in Module I also apply to PSUR- system
1702 related documents (e.g. standard operating procedures) and product-related documents, i.e. the
1703 PSURs and related documents, including the assessment reports, the data retrieved from the
1704 EudraVigilance database or other data used to support the PSUR assessment.

1705 **VII.C.6.3. Quality systems and record management systems at the level of** 1706 **the competent authorities in Member States**

1707 Each competent authority in the Member States shall have in place a pharmacovigilance system [DIR
1708 Art 101] for the surveillance of medicinal products and for receipt and evaluation of all
1709 pharmacovigilance data including PSURs. For the purpose of operating its tasks relating to PSURs in
1710 addition to the pharmacovigilance system the national competent authorities in Member States should
1711 implement a quality system (see Module I).

1712 Competent authorities in the Member States should monitor marketing authorisation holders for
1713 compliance with regulatory obligations for PSURs. Furthermore competent authorities should exchange
1714 information in cases on non-compliance and take appropriate regulatory actions as required.

1715 No PSUR assessment at EU level is foreseen for purely nationally authorised products authorised in
1716 only one Member State and containing an active substance for which a EU reference date and
1717 harmonised frequency has not been established; therefore the national competent authority in the
1718 Member State where the medicinal product is authorised should have procedures in place for the
1719 assessment of PSURs related to those medicinal products.

1720 The procedures established by the national competent authorities in Member States for the
1721 performance of the EU single assessment of PSURs authorised in more than one Member State should
1722 be in line with the procedures established by the Agency for the coordination of PSUR assessment in
1723 the EU regulatory network (see VII.C.4.). These procedures should establish the effective

¹⁵ www.ema.europa.eu

¹⁶ www.iso.org

1724 communications across the EU regulatory network and the actions to be taken regarding the variation,
1725 suspension or revocation of the marketing authorisation following the PRAC recommendations, CHMP
1726 opinion, CMDh position and European Commission decision as applicable.

1727 The procedures established by the Agency for the use of the PSUR repository to support the single
1728 assessment, should be followed by the national competent authorities in Member States.

1729 Where tasks related to PSUR procedures are delegated to third parties, the national competent
1730 authorities in Member States shall ensure that they are subject to a quality system in compliance with
1731 the obligations provided by the European legislation.

1732 The record retention times for product-related documents in **Module I** also apply to PSUR- system
1733 related documents (e.g. standard operating procedures) and product-related documents, i.e. the
1734 PSURs and related documents, including the assessment reports, the data retrieved from the
1735 EudraVigilance database or other data used to support the PSUR assessment

1736 ***VII.C.7. Transparency***

1737 **VII.C.7.1. Publication of PSUR-related documents on the European** 1738 **medicines and national medicines web-portals**

1739 The following documents shall be made publicly available by means of the European medicines web-
1740 portal [DIR Art 107I, REG Art 26(g)]:

- 1741 • list of EU reference dates and frequency of submission of PSURs (see **VII C.3.**);
- 1742 • final assessment conclusions of the adopted assessment reports;
- 1743 • PRAC recommendations including relevant annexes;
- 1744 • CMDh position including relevant annexes and where applicable, detailed explanation on scientific
1745 grounds for any differences with the PRAC recommendations;
- 1746 • CHMP opinion including relevant annexes and where applicable, detailed explanation on scientific
1747 grounds for any differences with the PRAC recommendations;
- 1748 • European Commission decision.

1749 The documents listed in section **VII.C.7.1.** with the exception to the European Commission decision,
1750 should be made publicly available at the latest two weeks following the CMDh and the CHMP plenaries.

1751 The version and date of publication are reflected in each document as they define the issue of the
1752 PRAC recommendations, CHMP opinions, CMDh positions and European Commission decisions at a
1753 certain point of time. This information is moreover necessary as it constitutes the temporal basis for
1754 the implementation of the required regulatory actions.

1755 Links between the European medicines web-portal and the National medicines web-portals should be
1756 made whenever possible and relevant.

1757 Any personal or confidential data made public by the Agency or the competent authorities in Member
1758 States as referred to in paragraphs 2 and 3 of Article 106a of Directive 2001/83/EC shall be deleted
1759 unless considered necessary in terms of protection of the public health [DIR Art 106a(4)].

1760 **VII.C.8. Transition and interim arrangements**

1761 **VII.C.8.1. Submission and availability of documents before the Agency's** 1762 **repository is in place**

1763 The Agency shall, in collaboration with the competent authorities in Member States and the European
1764 Commission set up and maintain a repository for PSURs and the corresponding assessment reports, so
1765 that they are fully and permanently accessible to European Commission, the competent authorities in
1766 Member States, the PRAC, the CHMP and the CMDh [REG Art 25a].

1767 The repository shall undergo an independent audit before the functionalities are announced by the
1768 Agency's management board [REG Art 25a].

1769 Until the Agency can ensure the functionalities agreed for the repository, marketing authorisation
1770 holders under the obligation to submit PSURs irrespective of whether the medicinal product is
1771 authorised in one Member State only or more than one Member State and irrespective of whether the
1772 active substance or combination of active substances is on the EU reference date list shall submit the
1773 PSURs to all competent authorities in Member States in which the medicinal products are authorised
1774 [DIR Art 2(7)]. For the substances or combination of active substances subject to a single assessment
1775 or for which an EU reference date has been established, the PSURs should be also sent to the Agency.
1776 The specific addresses to comply with this requirement are provided in Annex <no>.

1777 From 12 months after the functionalities of the repository have been established and have been
1778 announced by the Agency, the marketing authorisation holders shall submit the PSURs electronically to
1779 the Agency regardless of the authorisation procedure of the medicinal product [DIR Art 107b(1), IM
1780 Annex III.2(1)]. The competent authorities in Member States shall ensure that this obligation applies
1781 as required [DIR Art 2(7)].

1782 Once the structured electronic format "ePSUR", based on content agreed in the ICH-E2C(R2), becomes
1783 available, the marketing authorisation holders will have the possibility to submit PSURs and related
1784 documents automatically via an electronic gateway.

1785 Until the repository is in place, the following documents should be circulated through a dedicated
1786 mailbox:

- 1787 • preliminary assessment report created by the Rapporteur within 60 days from the start of the
1788 procedure. The report will be circulated to the Agency and the members of the PRAC. The Agency
1789 will send the report to the concerned marketing authorisation holder(s);
- 1790 • comments submitted by the marketing authorisation holders(s) and members of the PRAC by Day
1791 90 on the Rapporteur's preliminary assessment report. The comments should be submitted using
1792 the template available in Annex III;
- 1793 • updated Rapporteur's assessment report created within 15 days (i.e. by Day 105) will be forwarded
1794 to the Agency and members of the PRAC.

1795 Further to adoption, the Agency should send the CHMP opinion together with its annexes and
1796 appendices to the European Commission, marketing authorisation holder(s) and competent authorities
1797 in Member States, through secure email until the repository is in place.

1798 **VII.C.8.2. Quality systems and record management systems at the level of** 1799 **the competent authorities in Member States**

1800 Special considerations should be taken for the management of the PSURs submitted to the concerned
1801 competent authorities in Member States until the Agency can ensure the functionalities agreed for the

1802 PSUR repository and 12 months after the establishment of the repository according to the transitional
1803 provisions.

1804 **VII.C.8.3. Publication of the EU list of union references dates and start of**
1805 **the EU- PSUR single assessment procedure.**

1806 As stated in VII.C.3.6., the list of EU reference dates and frequency of submission will be published in
1807 the European medicines web-portal, nevertheless, the EU single assessment procedure detailed in
1808 VII.C.4.2.2., VII.C.4.2.3. and VII.C.4.2.4. will be delayed until funds are available.