



# Lebanese Guideline on Good Pharmacovigilance Practices (LGVP)

## Module VII

### Periodic Safety Update Report (PSUR)

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## List of Abbreviations

<b>CCDS:</b>	Company Core Data Sheet
<b>CCSI:</b>	Company Core Safety Information
<b>DIBD:</b>	Development International Birth Date
<b>EMA:</b>	European Medicine Agency
<b>EU:</b>	European Union
<b>EURD:</b>	European Union Reference Dates
<b>MA:</b>	Marketing Authorization
<b>MAH:</b>	Marketing Authorization Holder
<b>PBRER:</b>	Periodic Benefit Risk Evaluation Report
<b>PSUR:</b>	Periodic Safety Update Report
<b>QPPV:</b>	Qualified Person for Pharmacovigilance
<b>RMP:</b>	Risk Management Plan
<b>SmPC:</b>	Summary of Product Characteristics

## 1 VII. A. Introduction

2  
3 Periodic Safety Update Reports (PSURs) are important pharmacovigilance documents that provide an  
4 evaluation of the risk-benefit balance of a medicinal product, to be submitted by Marketing Authorization  
5 Holders (MAHs) at defined time points during the post-authorization phase.

6 This Module provides guidance on the preparation, submission and assessment of PSURs.

7 MAHs should submit PSURs for their own medicinal products to the national competent authority in  
8 Lebanon, which in turn, should assess them to identify any new risk, changes in the risks, or changes in  
9 the risk-benefit balance of the product.

10 A PSUR assessment can determine if further investigations on a specific issue are needed, or if an action  
11 concerning the Marketing Authorization (MA) of products containing the same active substance or  
12 combination of active substances is necessary to protect public health (e.g. an update of the information  
13 provided to healthcare professionals and patients).

14 This Module outlines the scope, objectives, format and content of PSURs for medicinal products (described  
15 in section VII.B), and provides guidance on the purpose and requirements for the submission and  
16 assessment of PSURs for medicinal products by MAHs. PSURs for generic medicinal products are required  
17 to be submitted.

18 To note that the required format and content of PSURs in Lebanon presented in this Module are based on  
19 those described in the European Good Pharmacovigilance Practices, which in turn, are based on those for  
20 the Periodic Benefit Risk Evaluation Report (PBRER) described in the ICH-E2C(R2) guideline (*refer to*  
21 <https://www.ema.europa.eu/en/ich-e2c-r2-periodic-benefit-risk-evaluation-report-scientific-guideline>).

22 The PBRER format replaces the PSUR format previously described in the ICH-E2C(R1). In line with the  
23 European Union (EU) legislation, the report is described as PSUR in the Lebanese GVP Modules.

24 Further, as this guideline was based on the European Good Pharmacovigilance Practices; the "list of EU  
25 reference dates" is adopted in this guideline as well. Hence, the PSURs submitted in Lebanon should follow  
26 the dates & frequency stated in the most updated version of this list (see section VII.C).

27 However, this does not undermine the right of the national competent authority in Lebanon to have  
28 additional or altered requirements; and multinational MAHs should be attentive to these requirements  
29 and take the necessary measures to comply with them.

30

## 31 VII.B. Structures and processes

32

### 33 VII.B.1. Objectives of the PSUR

34 The objective of the PSUR is to present a comprehensive and critical analysis of the risk-benefit balance of  
35 the product, taking into account new or emerging safety information in the context of cumulative  
36 information on risk and benefits

37 The PSUR is a tool for post-authorization evaluation at defined time points in the lifecycle of a product.  
38 The primary aim of a PSUR is to present a comprehensive analysis of the risk-benefit balance of a medicinal  
39 product, after consideration of emerging safety data. This new data may arise from post-authorization  
40 investigations of the medicinal product's profile after evaluation of new populations and endpoints that  
41 could not have been investigated in the pre-authorization clinical trials. This structured evaluation should  
42 be undertaken in the context of ongoing pharmacovigilance and risk management to facilitate  
43 optimization of the risk-benefit balance through effective risk minimization.

44

### 45 VII.B.2. Principles for the evaluation of the risk-benefit balance within PSURs and 46 scope of the information to be included

47 Benefit-risk evaluation should be carried out throughout the lifecycle of the medicinal product to promote  
48 and protect public health and to enhance patient safety through effective risk minimization.

49 The **risk evaluation** should be based on all uses of the medicinal product. The scope includes evaluation  
50 of safety in real medical practice including use in unauthorized indications and use which is not in line with  
51 the product information. If use of the medicinal product is identified where there are critical gaps in  
52 knowledge for specific safety issues or populations, such use should be reported in the PSUR (e.g. use in  
53 pediatric population or in pregnant women). Sources of information on use outside authorization may  
54 include drug utilization data, information from spontaneous reports and publications in the literature.

55 The scope of the **benefit information** should include both clinical trial and real-world data in authorized  
56 indications.

57 The integrated benefit-risk evaluation should be performed for all authorized indications and should  
58 incorporate the evaluation of risks in all use of the medicinal product (including use in unauthorized  
59 indications).

60 The evaluation should involve:

- 61 1. Critically examining the information which has emerged during the reporting interval to determine  
62 whether it has generated new signals, led to the identification of new potential or identified risks,  
63 or contributed to the knowledge of previously identified risks;
- 64 2. Critically summarizing relevant new safety, efficacy and effectiveness information that could have  
65 an impact on the risk-benefit balance of the medicinal product;
- 66 3. Conducting an integrated benefit-risk analysis for all authorized indications based on the  
67 cumulative information available since the Development International Birth Date (DIBD), the date  
68 of first authorization for the conduct of an interventional clinical trial in any country. For the cases  
69 where DIBD that date is unknown or the MAH does not have access to data from the clinical  
70 development period, the earliest possible applicable date should be used as a starting point for  
71 the inclusion and evaluation of the cumulative information;
- 72 4. Summarizing any risk minimization actions that may have been taken or implemented during the  
73 reporting interval, as well as risk minimization actions that are planned to be implemented;
- 74 5. Outlining plans for signal or risk evaluations including timelines and/or proposals for additional  
75 pharmacovigilance activities.

### 77 VII.B.3. Principles for the preparation of PSURs

78 Unless otherwise specified by the national competent authority, the MAH should prepare a single PSUR  
79 for all its medicinal products containing the same active substance with information covering all the  
80 authorized indications, route of administration, dosage forms and dosing regimens, irrespective of  
81 whether authorized under different names and through separate procedures. Where relevant, data  
82 relating to a particular indication, dosage form, route of administration or dosing regimen, should be  
83 presented in a separate section of the PSUR and any safety concerns should be addressed accordingly.

84 There might be exceptional scenarios where the preparation of separate PSURs might be appropriate, for  
85 instance, in the event of different formulations for entirely different indications. In this case, agreement

86 should be obtained from the national competent authority in Lebanon preferably at the time of  
87 authorization.

88 Case narratives should be provided in the relevant risk evaluation section of the PSUR where integral to  
89 the scientific analysis of a signal or safety concern. In this context, the term case narratives refers to clinical  
90 evaluations of individual cases.

91 When data received by the MAH from a partner might contribute meaningfully to the safety, benefit  
92 and/or benefit-risk analyses and influence the reporting MAH's product information, these data should be  
93 included and discussed in the PSUR.

94 Each PSUR should include interval as well as cumulative data. As the PSUR should be a single stand-alone  
95 document for the reporting interval, based on cumulative data, summary bridging reports and addendum  
96 reports, introduced in ICH-E2C(R1) guideline, will not be accepted.

#### 98 VII.B.4. Reference information

99 Risk minimization activities evaluated in the PSUR include updates to the product information.

100 The reference product information for the PSUR should include "core safety" and "authorized indications"  
101 components. In order to facilitate the assessment of benefit and risk-benefit balance by indication in the  
102 evaluation sections of the PSUR, the reference product information document should list all authorized  
103 indications in the country. The basis for the benefit evaluation should be the baseline important efficacy  
104 and effectiveness information summarized in the PSUR section VII.B.5.17.1 ("Important baseline efficacy  
105 and effectiveness information").

106 Information related to a specific indication, formulation or route of administration should be clearly  
107 identified in the reference product information.

108 MAHs can refer to the following options to select the most appropriate reference product information for  
109 a PSUR:

- 110 • Company Core Data Sheet (CCDS):
  - 111 - It is common practice for MAHs to prepare their own company core data sheet which covers
  - 112 data relating to safety, indications, dosing, pharmacology, and other information concerning
  - 113 the product. The **core safety information** contained within the CCDS is referred to as the



114 company core safety information (CCSI). A practical option for the purpose of the PSUR is for  
115 each MAH to use the CCDS in effect at the end of the reporting interval, as reference product  
116 information for both the risk sections of the PSUR as well as the main authorized indications  
117 for which benefit is evaluated;

118 - When the CCDS does not contain information on authorized indications, the MAH should  
119 clearly specify which document is used as reference information for the authorized indications  
120 in the PSUR.

121 • Other sources of information:

122 - In the absence of CCDS or CCSI for a given product (e.g. for generics, or when the product is  
123 authorized in only one country or region), the MAH should clearly specify the reference  
124 information being used. This may comprise national information. The document used as  
125 reference information should be included as an appendix to the PSUR;

126 - The reference product information should be dated and version controlled.

127 Whenever new safety information is obtained during the reporting interval, the MAH should continuously  
128 evaluate the need to revise the reference product information and ensure that significant changes are  
129 described in PSUR section VII.B.5.4 (“Changes to the reference safety information”) and discussed if  
130 applicable in PSUR section VII.B.5.16 (“Signal and risk evaluation”). These changes may include:

131 - Changes to the contraindications, warnings/precautions sections;

132 - Addition to adverse reactions and interactions;

133 - Addition of important new information on use in overdose;

134 - Removal of an indication or other restrictions for safety or lack of efficacy reasons.

135 When new information on safety that could warrant changes to the authorized product information has  
136 been added to the reference safety information during the period from the data lock point to the  
137 submission of the PSUR, this information should be included in the PSUR section VII.B.5.14 (“Late-breaking  
138 information”) if feasible.

139 The data lock points included in the "list of EU references dates" enable the synchronization of PSURs  
140 submission and permit the single assessment on the national level. These data lock points are fixed on a  
141 certain date of the month, and should be used to determine the submission date of the PSUR.

142 The MAH should provide in the national appendix (see section VII.C.5), information on any final, ongoing  
143 and proposed changes to the national or local authorized product information.

## 144 VII.B.5. Format and contents of the PSUR

145 The PSUR should be based on all available data and should focus on new information which has emerged  
146 since the data lock point of the last PSUR. Cumulative information should be taken into account when  
147 performing the overall safety evaluation and integrated benefit-risk assessment. Because clinical  
148 development of a medicinal product frequently continues following MA, relevant information from post-  
149 authorization studies or clinical trials in unauthorized indications or populations should also be included  
150 in the PSUR. Similarly, as knowledge of the safety of a medicinal product may be derived from evaluation  
151 of other data associated with off-label use, such knowledge should be reflected in the risk evaluation  
152 where relevant and appropriate. The PSUR should provide summaries of data relevant to the benefits and  
153 risks of the medicinal product, including results of all studies with a consideration of their potential impact  
154 on the MA. Examples of sources of efficacy, effectiveness and safety information that may be used in the  
155 preparation of PSURs include the following:

- 156 • Non-clinical studies;
- 157 • Spontaneous reports (e.g. on the MAH's safety database);
- 158 • Active surveillance systems (e.g. sentinel sites) ;
- 159 • Investigations of product quality;
- 160 • Product usage data and drug utilization information;
- 161 • Clinical trials, including research in unauthorized indications or populations;
- 162 • Observational studies, including registries;
- 163 • Patient support programs;
- 164 • Systematic reviews and meta-analyses;
- 165 • MAHs sponsored websites;
- 166 • Published scientific literature or reports from abstracts, including information presented at  
167 scientific meetings;
- 168 • Unpublished manuscripts;
- 169 • Licensing partners, other sponsors or academic institutions and research networks;
- 170 • Medicines authorities (worldwide).

171 The above list is not intended to be all inclusive, and additional data sources may be used by the MAH to  
172 present safety, efficacy and effectiveness information in the PSUR and to evaluate the risk-benefit balance,  
173 as appropriate to the product and its known and emerging important benefits and risks. When desired by

174 the MAH, a list of the sources of information used to prepare the PSUR can be provided as an appendix to  
175 the PSUR.

176 A PSUR should be prepared following the full modular structure set out below in this GVP Module [Part I,  
177 Part II and Part III (section 1 to section 20)].

178 For the purposes of this Module, sources of information include data regarding the active substance(s)  
179 included in the medicinal product, or the medicinal product that the MAH may reasonably be expected to  
180 have access to and that are relevant to the evaluation of the safety, and/or risk-benefit balance. It is  
181 therefore recognized that while the same format (as defined in this GVP Module) should be followed for  
182 all products, the extent of the information provided may vary where justified according to what is  
183 accessible to the MAH. For example, for a MAH-sponsored clinical trial, there should be access to patient  
184 level data while for a clinical trial not sponsored by the MAH, only the published report may be accessible.

185 The level of detail provided in certain sections of the PSUR should depend on known or emerging  
186 important information on the medicinal product 's benefits and risks. This approach is applicable to those  
187 sections of the PSUR in which there is evaluation of information about safety, efficacy, effectiveness, safety  
188 signals and risk-benefit balance. When preparing the PSUR, the ICH-E2C(R2) guideline (see Annex IV ICH-  
189 E2C(R2)) on PBRER should also be applied. Guidance on the titles, order and content of the PSUR sections  
190 is provided in sections VII.B.5.1. to VII.B.5.20.

191 **When no relevant information is available for any of the sections, this should be stated under the**  
192 **section, but do NOT omit any section.** The PSUR should follow the below design:

- 193 • Part I: Title page including signature
- 194 • Part II: Executive Summary
- 195 • Part III: Table of Contents
  - 196 1. Introduction
  - 197 2. Worldwide marketing authorization status
  - 198 3. Actions taken in the reporting interval for safety reasons
    - 199 a. Actions related to investigational uses
    - 200 b. Actions related to marketing experience
  - 201 4. Changes to reference safety information
  - 202 5. Estimated exposure and use patterns
    - 203 5.1. Cumulative subject exposure in clinical trials

204	5.2. Cumulative and interval patient exposure from marketing experience
205	6. Data in summary tabulations
206	6.1. Reference information
207	6.2. Cumulative summary tabulations of serious adverse events from clinical trials
208	6.3. Cumulative and interval summary tabulations from post-marketing data sources
209	7. Summaries of significant findings from clinical trials during the reporting interval
210	7.1. Completed clinical trials
211	7.2. Ongoing clinical trials
212	7.3. Long-term follow-up
213	7.4. Other therapeutic use of medicinal product
214	7.5. New safety data related to fixed combination therapies
215	8. Findings from non-interventional studies
216	9. Information from other clinical trials and sources
217	9.1. Other clinical trials
218	9.2. Medication errors
219	10. Non-clinical Data
220	11. Literature
221	12. Other periodic reports
222	13. Lack of efficacy in controlled clinical trials
223	14. Late-breaking information
224	15. Overview of signals: new, ongoing or closed
225	16. Signal and risk evaluation
226	16.1. Summaries of safety concerns
227	16.2. Signal evaluation
228	16.3. Evaluation of risks and new information
229	16.4. Characterization of risks
230	16.5. Effectiveness of risk minimization (if applicable)
231	17. Benefit evaluation
232	17.1. Important baseline efficacy and effectiveness information
233	17.2. Newly identified information on efficacy and effectiveness
234	17.3. Characterization of benefits
235	18. Integrated benefit-risk analysis for authorized indications

236 18.1. Benefit-risk context – Medical need and important alternatives

237 18.2. Benefit-risk analysis evaluation

238 19. Conclusions and actions

239 20. Appendices to the PSUR.

240

241 The MAH is required to make direct use of the EU Guideline on Good Pharmacovigilance Practices, Module  
242 VII on PSURs.

243 The structure and content for the PSUR should be formulated in accordance with the details provided in  
244 Module VIII of the European Medicines Agency (EMA)'s Guideline on good pharmacovigilance practices,  
245 accessed through the following link:

246 [https://www.ema.europa.eu/en/human-regulatory/post-authorisation/pharmacovigilance/good-](https://www.ema.europa.eu/en/human-regulatory/post-authorisation/pharmacovigilance/good-pharmacovigilance-practices#final-gvp-modules-section)  
247 [pharmacovigilance-practices#final-gvp-modules-section.](https://www.ema.europa.eu/en/human-regulatory/post-authorisation/pharmacovigilance/good-pharmacovigilance-practices#final-gvp-modules-section)

248

#### 249 VII.B.6. Training of staff members on the PSUR process

250 For all organizations, it is the responsibility of the person responsible for the pharmacovigilance system to  
251 ensure that the personnel, including pharmacovigilance, medical and quality personnel involved in the  
252 preparation, review, quality control, submission and assessment of PSURs are adequately qualified,  
253 experienced and trained according to the applicable guidelines (e.g. ICH E2C(R2) and this GVP Module VII.  
254 When appropriate, specific training for the different processes, tasks and responsibilities relating to the  
255 PSUR should be in place.

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

257 Training should cover legislation, guidelines, scientific evaluation and written procedures related to the  
258 PSUR process.

259 Training records should demonstrate that the relevant training was delivered prior to performing PSUR-  
260 related activities.

261

262

263

## 264 VII.C. Operations of PSURs in Lebanon

265

### 266 VII.C.1. Routine submission of PSURs in Lebanon

267 Since the main objective of a PSUR is to present a comprehensive analysis of the risk-benefit balance of  
268 the medicinal product taking into account all new or emerging information from all countries, the PSUR  
269 can be described as a global pharmacovigilance document. The required format and content of PSURs in  
270 Lebanon are based on those for the PBRER described in the ICH-E2C(R2) guideline.

271 Therefore, for the purpose of not reinventing the wheel and as this guideline was based on the European  
272 Good Pharmacovigilance Practice; the "list of EU reference dates" (EURD) is adopted in the context of this  
273 guideline. Hence the PSURs submitted in Lebanon should follow the dates & frequency stated in the most  
274 updated version of the list; this does not undermine the right of the competent authority in Lebanon to  
275 request the submission of PSURs at any time or to change as appropriate the submission frequency on the  
276 national level.

277

#### 278 VII.C.1.1. Summary of the list of European Union reference dates and frequency of submission 279 of PSURs

280 The EURD list is a comprehensive list of active substances and combinations of active substances contained  
281 in medicinal products subject to different MAs, together with the corresponding EU reference dates,  
282 frequencies for submission of periodic safety update reports and related data lock points (the date  
283 designated as the cut-off date for data to be included in a PSUR).

284 The EURD list aims to standardize the timing and frequency of PSUR submissions for the same active  
285 substances or combinations. It prioritizes submissions based on risk factors, new product information,  
286 significant product changes, vulnerable patient populations, and other safety considerations, with the list  
287 subject to updates based on emerging information and changes in criteria. This list will become effective  
288 through a regulation issued by the competent authority in Lebanon.

289

290 The EU reference dates list can be accessed through the following link:

291 [https://www.ema.europa.eu/documents/other/list-european-union-reference-dates-frequency-](https://www.ema.europa.eu/documents/other/list-european-union-reference-dates-frequency-submission-periodic-safety-update-reports-psurs_en-0.xlsx)  
292 [submission-periodic-safety-update-reports-psurs\\_en-0.xlsx](https://www.ema.europa.eu/documents/other/list-european-union-reference-dates-frequency-submission-periodic-safety-update-reports-psurs_en-0.xlsx)

293 VII.C.1.2. Application of the "EURD" to the routine submission of PSURs in Lebanon

294 *VII.C.1.2.1. Submission of PSURs for medicinal products: general requirement*

295 For products included in the EURD list, MAHs are expected to follow the dates and frequency stated in the  
296 most updated version of the list when submitting PSURs for the respective products containing those  
297 active substances or combinations.

298 Unless otherwise specified in the EURD list, or agreed with the competent authority, a single PSUR should  
299 be prepared for all medicinal products containing the same active substance and authorized for one MAH.

300

301 *VII.C.1.2.2. Submission of PSURs in case of active substances not included in the EURD list*

302 For medicinal products containing an active substance or a combination of active substances NOT included  
303 in the EU reference dates list, PSURs should be submitted (if there is no specific concern about the safety)  
304 based on the following standard submission schedule to define the frequency and date of PSURs  
305 submission for those substances:

- 306
- At 6 months' intervals once the product is authorized, even if it is not marketed;
  - Once a product is marketed, PSUR submission every 6 months should be continued following initial  
308 placing on the market for 2 years, then once a year for the following 2 years and thereafter at 3-  
309 yearly interval.

310 *VII.C.1.2.3. Medicinal products with conditioned PSURs submission frequency in the marketing*  
311 *authorization*

312 Currently, in Lebanon, when a Marketing Authorization (MA) is granted for a medicinal product, there is  
313 no requirement or condition imposed regarding the specific timing or frequency for submitting Periodic  
314 Safety Update Reports (PSURs).

315 *VII.C.1.2.4. Submission of PSURs for generic and well-established use of medicinal products*

316 As a general rule, PSURs for generic and well-established use medicinal products are required to be  
317 submitted in Lebanon.

318 The national competent authority will enact regulation governing the PSURs submission details of such  
319 products.

320

#### 321 VII.C.1.2.5. Submission of PSURs for fixed dose combination products

322 Unless otherwise specified in the "list of EU reference dates and frequency of submission", if the substance  
323 that is the subject of the PSUR is also authorized as a component of a fixed combination medicinal product,  
324 the marketing authorization holder should either submit a separate PSUR for the combination of active  
325 substances authorized for the same marketing authorization holder with cross-references to the single-  
326 substance PSUR(s), or provide the combination data within one of the single-substance PSURs.

327

#### 328 VII.C.1.2.6. Publication of the list

329 The list is expected to be published monthly by the European Medicines Agency (EMA). The list should  
330 also then be adopted and become effective through a regulation issued by the competent authority in  
331 Lebanon.

332 The EU reference dates list can be accessed through the following link:

333 [https://www.ema.europa.eu/en/human-regulatory/post-  
authorisation/pharmacovigilance/periodic-safety-update-reports-psurs#submission-  
requirements-and-eu-reference-dates-the-eurd-list-section](https://www.ema.europa.eu/en/human-regulatory/post-<br/>334 authorisation/pharmacovigilance/periodic-safety-update-reports-psurs#submission-<br/>335 requirements-and-eu-reference-dates-the-eurd-list-section).

336

#### 337 VII.C.2. Submission of PSURs on demand of the national competent authority (ad 338 hoc request)

339 In addition to the routine PSUR submission, MAHs should submit PSURs immediately upon ad hoc request  
340 from the competent authority in Lebanon. When the timeline for submission has not been specified in the  
341 request, to be submitted within 90 calendar days of the data lock point.

#### 342 VII.C.3. Timelines for PSUR submission

343 Each MAH should be responsible for submitting PSURs for its own products to the national competent  
344 authority according to the following timelines:

- 345 • Within 70 calendar days of the data lock point (day 0) for PSURs covering intervals up to 12 months  
346 (including intervals of exactly 12 months); and
- 347 • Within 90 calendar days of the data lock point (day 0) for PSURs covering intervals greater than 12  
348 months;



- 349       • The timeline for the submission of ad hoc PSURs requested by the national competent authority  
350           will normally be specified in the request, otherwise the ad hoc PSURs should be submitted within  
351           90 calendar days of the data lock point.

352

#### 353 VII.C.4. Relationship between PSUR and risk management plan

354 The general relationship between the Risk Management Plan (RMP) and the PSUR is described in Module  
355 V, while an overview of the common RMP/PSUR modules is provided in below.

356 During the preparation of a PSUR, the MAH should consider whether any identified or potential risks  
357 discussed within the PSUR is important and requires an update of the RMP.

358 In these circumstances, updated revised RMP including the new important safety concern should be  
359 submitted with the PSUR and assessed in parallel. If important safety concerns are identified by the  
360 national competent authority during the assessment of a PSUR and no updated RMP or no RMP has been  
361 submitted, recommendations should be made to submit an update or a new RMP within a defined  
362 timeline.

363

##### 364 VII.C.4.1. PSUR and risk management plan – common modules

365 The proposed modular formats for the PSUR and the RMP aim to address duplication and facilitate  
366 flexibility by enabling common PSUR/RMP sections to be utilized interchangeably across both reports.  
367 Common sections with the above-mentioned reports are identified in Module V, Table V.2.

368

#### 369 VII.C.5. National appendix requirements for PSURs

370 The scientific evaluation of the risk-benefit balance of the medicinal product included in the PSUR detailed  
371 in section VII.B.5. should be based on all available data, including data from clinical trials in unauthorized  
372 indications and populations.

373 The multinational MAHs should submit the PSUR with relevant national appendix as well as the EU-  
374 regional appendix of the PSUR submitted in EU as appropriate.

375 This national appendix should include the following:

376 VII.C.5.1. PSUR national appendix, sub-section "Current national product information"

- 377
- This section should contain a clean copy of the national product information approved in Lebanon
- 378 and which is in effect at the end of the reporting interval;
- A clean copy of all versions of the reference product information in effect at the end of the
- 379 reporting interval (e.g. different formulations included in the same PSUR) were provided in
- 380 appendix 1 of the PSUR (see section VII.B.5.20.).
- 381

382 When a meaningful difference exists between this reference safety information (e.g. CCDS or CCSI)

383 and the safety information in the national product information (national Summary of Product

384 Characteristics (SmPC) and package leaflet) approved in Lebanon, a brief comment should be

385 prepared by the company, describing these local differences with track change version;

- The reference product information document should list all authorized indications in ICH countries
- 386 or regions. When there are additional locally authorized indications in Lebanon, these indications
- 387 may be either added to the reference product information or handled in the national appendix as
- 388 considered most appropriate by the marketing authorization holder and the competent authority
- 389 in Lebanon.
- 390

391

392 VII.C.5.2. PSUR national appendix, sub-section "Proposed product information"

393 The assessment of the need for amendments to the product information is incorporated within the PSUR

394 assessment procedure. The regulatory opinion should include recommendations for updates to product

395 information where needed. MAHs should provide the necessary supportive documentation and references

396 within the PSUR or in this appendix to facilitate this.

397 Within the PSUR, the MAH is required to consider the impact of the data and evaluations presented within

398 the report, on the MA. Based on the evaluation of the cumulative safety data and the risk-benefit analysis,

399 the MAH should draw conclusions in the PSUR as to the need for changes and/or actions, including

400 implications for the approved SmPC(s) for the product(s) for which the PSUR is submitted.

401 In this sub-section, the MAH should provide the proposals for product information (SmPC and package

402 leaflet) based on the above-mentioned evaluation. These should be based on all authorized indications in

403 Lebanon.

404 A track change version of the proposed SmPCs and package leaflets based on the assessment and  
405 conclusions of the PSUR should be provided.

406 All the SmPCs and packages leaflets covered by the PSUR and in effect at the data lock point, should be  
407 reviewed to ensure that they reflect the appropriate information according to the cumulative data  
408 included and analyzed in the PSUR.

409 A brief description of ongoing procedures (e.g. variations) to update the product information should be  
410 provided in this section.

411

#### 412 VII.C.5.3. PSUR national appendix, sub-section "Proposed additional pharmacovigilance and risk 413 minimization activities"

414 This sub-section should include proposals for additional pharmacovigilance and additional risk  
415 minimization activities based on the conclusions and actions of the PSUR, including a statement of the  
416 intention to submit a RMP or an updated RMP when applicable.

417

#### 418 VII.C.5.4. PSUR national appendix, sub-section "Summary of ongoing safety concerns"

419 In order to support the information provided in the PSUR section 16.1 "Summary of safety concerns" (see  
420 section VII.B.5.16.1.), Table "Summary – Ongoing safety concerns" should be included in this PSUR sub-  
421 section. This table should be extracted from the version of RMP available at the beginning of the PSUR  
422 reporting interval (see Module V).

423

#### 424 VII.C.5.5. PSUR national appendix, sub-section "Worldwide marketing authorization status 425 table"

426 In addition to the PSUR section worldwide MA status (VII.B.5.2.), a cumulative table with the following  
427 information should be provided for any indication, for all countries where a regulatory decision about MA  
428 has been made.

429 Below is a cumulative table; accordingly, entries must not be removed from the table e.g. if the product is  
430 no more authorized; instead the MAH should change the relevant information in the table. Fictious  
431 examples for different cases are shown in the Table VII.1. below.

432 Typically, indications for use, populations treated (e.g. children vs. adults) and dosage forms will be the  
 433 same in many or even most countries where the product is authorized. However, when there are important  
 434 differences, which would reflect different types of patient exposure, such information should be noted.  
 435 This is especially true if there are meaningful differences in the newly reported safety information that are  
 436 related to such different exposures.

437 If more convenient and useful, separate regulatory status tables for different product uses or forms should  
 438 be utilized.

439

440 Table 1: Worldwide marketing authorization status table

First approval date/application date	Country	Local trade name	Dosage form	Indication	Current authorization status and date	Date	Current marketing status and date	Application refusal (if any)	Refusal date	Comments/explanation
2-3-1990	UK	<name>	Tablet	<indication>	authorized	2-3-1995 renewal	Marketed 7-9-1990			
9-1-1991	France	<name>	Tablet	<indication>	withdrawn	4-6-2000				<reason for withdrawal>
4-9-1991	KSA	<name>	Tablet	<indication>	suspended	5-8-1998				<reason for suspension>
4-5-2005	Japan	<name>	Capsule	<indication>				refused	9-11-2005	<reason for refusal>
3-1-2007	Egypt	<name>	Tablet	<indication>	authorized		Not marketed 4-8-2010			<reason for not marketing>
1-3-2009	Jordan	<name>	Tablet	<indication>	authorized		Never launched			<reason for not launching>

441

442 Patient exposure in the Lebanon: information about the cumulative and interval patient exposure from  
 443 marketing experience in Lebanon

444 National data in Summary tabulation: Cumulative and interval summary tabulations for ADRs (serious and  
 445 non-serious) received in Lebanon from different post-marketing data sources

446

## 447 VII.C.6. Quality and record management systems for PSURs at the level of MAHs

448 Specific quality system procedures and processes should be in place in order to ensure the update of  
449 product information by the MAH in the light of scientific knowledge, including the assessments and  
450 recommendations.

451 It is the responsibility of the MAH to check regularly the list of EU reference dates and frequency of  
452 submission.

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

- 454 • The list of EU reference dates and frequency of PSURs submission; or
- 455 • The conditions laid down in the national MA; or
- 456 • As defined by the national competent authority as applicable (without any conditions in their MA  
457 or not included in the list of EU references dates and frequency of submission; or
- 458 • Ad hoc requests for PSURs by the national competent authority.

459 For those medicinal products where the submission of an RMP is not required, the MAH should maintain  
460 on file a specification of important identified risks, important potential risks and missing information in  
461 order to support the preparation of the PSURs.

462 The MAH should have procedures in place to follow the requirements established by the competent  
463 authority for the submission of PSURs.

464 The Qualified Person for Pharmacovigilance (QPPV) should be responsible for the establishment and  
465 maintenance of the pharmacovigilance system and therefore should ensure that the pharmacovigilance  
466 system in place enables the compliance with the requirements established for the production and  
467 submission of PSURs. In relation to the medicinal products covered by the pharmacovigilance system,  
468 specific additional responsibilities of the QPPV in relation to PSURs should include:

- 469 • Ensuring the necessary quality, including the correctness and completeness, of the data submitted  
470 in the PSURs;
- 471 • Ensuring full response according to the timelines and within the procedure agreed (e.g. next PSUR)  
472 to any request from the competent authority related to PSURs;
- 473 • Awareness of the PSUR and assessment report conclusions and the decisions of the competent  
474 authority in order to ensure that appropriate action takes place.

475 The record retention times for product-related documents in Module I, also apply to PSURs and source  
476 documents related to the creation of PSURs, including documents related to actions taken for safety

477 reasons, clinical trials and post-authorization studies, relevant benefit information and documents utilized  
478 for the calculation of patient exposure.

479 The responsibilities for preparation and submission of PSURs should be clearly specified in written  
480 agreements when MAHs are involved in contractual arrangements, and when the preparation is delegated  
481 to third parties, explicit procedures and detailed agreements should exist between the MAH and third  
482 parties.

483

## 484 VII.D. Appendices

### 485 Appendix 1. Examples of tabulations for estimated exposure and adverse 486 events/reactions data

487

488 Marketing authorization holders can modify these examples tabulations to suit specific situations, as  
489 appropriate.

490 **Table VII.2.** Estimated cumulative subject exposure from clinical trials

491 Estimates of cumulative subject exposure, based upon actual exposure data from completed clinical trials  
492 and the enrolment/randomization schemes for ongoing trials.

493

Treatment	Number of Subjects
Medicinal product	
Comparator	
Placebo	

494

495 **Table VII.3.** Cumulative subject exposure to investigational drug from completed clinical trials by age  
496 and sex

Number of subjects			
Age range	Male	Female	Total

497

498 Data from completed trials as of <insert date>

499

500

501 **Table VII.4.** Cumulative subject exposure to investigational drug from completed clinical trials by  
 502 racial/ethnic group

Racial/ethnic group	Number of subjects
Asian	
Black	
Caucasian	
Other	
Unknown	
Total	

503 Data from completed trials as of <insert date>

504

505 **Table VII.5.** Cumulative exposure from marketing experience

Indication	Sex		Age (years)			Dose			Formulation		Region								
	Male	Female	2 to ≤16	>16 to 65	>65	Unknown	<40	≥40	Unknown	Intravenous	Oral	concerned	Arab country	EU	Japan	Colombia	US/Canada	Other	
Overall																			
e.g. Depression																			
e.g. Migraine																			

506 Table VII.5 includes cumulative data obtained from day/month/year throughout day/month/year,  
 507 where available

508 **Table VII.6. Interval exposure from marketing experience**

Indication	Sex		Age (years)				Dose			Formulation		Region					
	Male	Female	2 to ≤16	>16 to 65	>65	Unknown	<40	≥40	Unknown	Intravenous	Oral	Arab country concerned	EU	Japan	Colombia	US/Canada	Other
e.g. Depression																	
e.g. Migraine																	

509 Table VII. 6 includes interval data obtained from day/month/year throughout day/month/year

510

511 **Table VII.7. Cumulative tabulation of serious adverse events from clinical trials**

<u>System Organ Class</u> Preferred Term	Investigational medicinal product	Blinded	Active comparator	Placebo
<u>Blood and lymphatic system disorders</u>				
Anemia				
Bone marrow necrosis				
<u>Cardiac disorders</u>				
Tachycardia				
Ischemic cardiomyopathy				
<SOC>				
<PT>				

512

513

514



515 **Table VII.8.** Numbers of adverse reactions by preferred term from post-authorization sources\*

MedDRA SOC PT	Spontaneous, including medicines authorities(worldwide) and literature					Non-interventional post-marketing study and reports from other solicited sources **	
	Serious		Non-serious		Total Spontaneous	Serious	
	Interval	Cumulative	Interval	Cumulative	Cumulative	Interval	Cumulative
<SOC 1>							
<PT>							
<PT>							
<SOC 2>							
<PT>							
<PT>							

516 \* Non-interventional post-authorization studies, reports from other solicited sources and spontaneous  
 517 ICSRs (i.e., reports from healthcare professionals, consumers, medicines authorities (worldwide), and  
 518 scientific literature)

519 \*\* This does not include interventional clinical trials

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 522  
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 527  
 528  
 529

530 Appendix 2. Example of tabular summary of safety signals that were ongoing or  
 531 closed during the reporting interval

532

533 **Table VII.9.** The tabular summary below is a fictitious example of tabular summary of safety  
 534 signals ongoing or closed during the reporting interval.

535 Reporting interval: DD-MMM-YYYY to DD-MMM-YYYY

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Signal term	Date detected	Status (ongoing or closed)	Date closed (for closed signals)	Source of signal	Reason for evaluation and summary of key data	Method of signal evaluation	Action(s) taken or planned
Stroke	MMM/YYYY	Ongoing	MMM/YYYY	meta-analysis (published trials)	Statistically significant increase in frequency	Review meta-analysis and available data	Pending
SJS	MMM/YYYY	Closed	MMM/YYYY	Spontaneous case reports	Rash already an identified risk SJS not reported in pre authorisation CTs. 4 reports within 6 months of authorisation; plausible time to onset and no possible alternative causes.	Targeted follow up of reports with site visit to one hospital. Full review of cases by MAH dermatologists and literature searches	RSI updated with a warning and precaution DHPc sent Effectiveness survey planned 6 months post DHPc. RMP updated

559 **Explanatory notes:**

560 • **Signal term:**

561 A brief descriptive name of a medical concept for the signal. This may evolve and be refined as the signal  
562 is evaluated. The concept and scope may or may not be limited to specific MedDRA term(s), depending on  
563 the source of signal.

564 • **Date detected:**

565 Month and year the marketing authorization holder became aware of the signal.

566 • **Status:**

567 Ongoing: Signal under evaluation at the data lock point of the PSUR. Anticipated completion date, if  
568 known, should be provided.

569 Closed: Signal for which evaluation was completed before the data lock point of the PSUR.

570 Note: A new signal of which the marketing authorization holder became aware during the reporting interval  
571 may be classified as closed or ongoing, depending on the status of the signal evaluation at the end of the  
572 reporting interval of the PSUR.

573 • **Date closed:**

574 Month and year when the signal evaluation was completed.

575 • **Source of signal:**

576 Data or information source from which a signal arose. Examples include, but may not be limited to,  
577 spontaneous reports, clinical trial data, scientific literature, and non-clinical study results, or information  
578 request or inquiries from a medicines authority (worldwide).

579 • **Reason for evaluation and summary of key data:**

580 A brief summary of key data and rationale for further evaluation.

581 • **Action(s) taken or planned:**

582 State whether or not a specific action has been taken or is planned for all closed signals that have been  
583 classified as potential or identified risks. If any further actions are planned for newly or previously  
584 identified signals under evaluation at the data lock point, these should be listed, otherwise leave blank for  
585 ongoing signals.

586

587

588

589

590 Appendix 3. Template: Cover page of periodic safety update report(PSUR)

591

592

**PERIODIC SAFETY UPDATE REPORT**

593

for

594

ACTIVE SUBSTANCE(S): <INN>

595

**ATC CODE(S):** <Code(s)>

596

597

**MEDICINAL PRODUCTS COVERED:**

Invented name of the medicinal product(s)	Marketing authorization number(s)	Date(s) of authorization ( <i>Underline the International Birth Date</i> )	Marketing authorizationholder
<>	<>	<>	<>
<>	<>	<>	<>

598

599

INTERNATIONAL BIRTH DATE (IBD): <Date>

600

**EUROPEAN UNION REFERENCE DATE (EURD):** <Date>

<p>INTERVAL COVERED BY THIS REPORT: <b>From &lt;date&gt; to &lt;date (i.e. data lock point)&gt;</b> DATE OF THIS REPORT: <b>&lt;Date&gt;</b></p>
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601

602

603

**OTHER INFORMATION:**

604

<Other identifying or clarifying information if necessary>

605

606

**MARKETING AUTHORIZATION HOLDER'S NAME AND ADDRESS:**

607

<Name>

608

<Address>

609

<E-mail address> (**contact person for the PSUR procedure**)

610

611 **NAME AND CONTACT DETAILS OF THE QPPV:**

612 <Name>

613 <Address>

614 <Telephone number>

615 <Fax number>

616 <E-mail address>

617 **SIGNATURE (QPPV or designated person):** <Signature>

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