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3 Guideline on good pharmacovigilance practices (GVP)

4 Module IX – Signal management (Rev 1)

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- 6 *Note: Revision 1 is a major revision with modifications throughout based on experience gained over
- 7 the past 4 years, and guidance on signals validated by marketing authorisation holders. It contains the
- 8 following:

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- 9 Revised definition and process for emerging safety issues, previously addressed in GVP Module VI
- 10 (IX.C.3.1.);
- 11 Streamlined information on scientific aspects of signal management (IX.B.2. to 4.), statistical aspects
- 12 now addressed in Addendum I;
- Clarifications on terminology (IX.A.1.), roles and responsibilities (IX.C.1.) and processes (IX.
- 14 Appendix 1);
- 15 Criteria for access by marketing authorisation holders to case narratives held in EudraVigilance, with
- reference to Revision 2 of the EudraVigilance Access Policy (IX.C.2.1.);
- 17 Updated guidance on the periodicity of monitoring of EudraVigilance data (IX.C.2.2.);
- 18 Procedural options for signals validated by marketing authorisation holders (IX.C.3.).

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- 21 Questions on which the Agency seeks specific feedback by means of the public consultation:
- 22 1. Are the proposed criteria for access to case narratives held in EudraVigilance by marketing
- authorisation holders acceptable (see IX.C.2.1.)?
- 24 These criteria have been developed to prevent unjustified download of case narratives, in relation to
- 25 Annex C (Confidentiality Undertaking for Marketing Authorisation Holders) of the EudraVigilance Access
- 26 Policy¹ which aims at ensuring the protection of personal data.
- 27 2. Are the recommendations regarding the frequency of monitoring of EudraVigilance data acceptable
- 28 (see IX.C.2.2.)?
- 29 3. Are the proposed timelines and modalities for communication of emerging safety issues and
- 30 validated signals by marketing authorisation holders clear and acceptable (see IX.C.3.)?

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

¹ See <u>www.ema.europa.eu</u>

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IX.A. Introduction

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- Regulation (EC) No 726/2004, Directive 2001/83/EC and Commission Implementing Regulation (EU)
- 74 No 520/2012 (hereinafter referred to as REG, DIR and IR, respectively) include provisions for signal
- 75 management in the European Union (EU) [DIR Art 107h, REG Art 28a, IR Chapter III].
- 76 In this Module, all applicable legal requirements are referenced as explained in the GVP Introductory
- 77 Cover Note and are usually identifiable by the modal verb "shall". Guidance for the implementation of
- 78 legal requirements is provided using the modal verb "should".
- 79 The objectives of this Module are:
- to provide general guidance and requirements on scientific and quality aspects of signal management (IX.B.);
- to describe roles, responsibilities and procedural aspects in the setting of the EU regulatory network (IX.C.).
- An addendum to this Module, the GVP Module IX Addendum I, describes methodological aspects of signal detection from spontaneous reports of suspected adverse reactions.
- 86 The following documents provide additional guidance relevant to signal management:
- Report of CIOMS Working Group VIII on Practical Aspects of Signal Detection in Pharmacovigilance²
- SCOPE Work Package 5 Signal Management Best Practice Guidance³
- EMA Questions & Answers on Signal Management⁴
- Screening for Adverse Drug Reactions in EudraVigilance⁵

92 IX.A.1. Terminology

- 93 Definitions relevant to signal management applicable to this Module are included in GVP Annex I.
- 94 Definitions specific to the EU signal management process are also presented below.
- 95 **Signal**
- 96 Information arising from one or multiple sources, including observations and experiments, which
- 97 suggests a new potentially causal association, or a new aspect of a known association between an
- 98 intervention and an event or set of related events, either adverse or beneficial, that is judged to be of
- 99 sufficient likelihood to justify verificatory action [IR Art 19(1)].
- 100 New aspects of a known association may include changes in the frequency, duration, severity or
- 101 outcome of the adverse event.
- For the purpose of monitoring data in the EudraVigilance database (also referred to as
- 103 'EudraVigilance'), only signals related to an adverse reaction shall be considered [IR Art 19(1)].
- A signal often relates to all medicinal products containing the same active substance, including
- 105 combination products. Certain signals may only be relevant for a particular medicinal product or in a

² Council for International Organizations of Medical Sciences (CIOMS). Report of CIOMS Working Group VIII on Practical Aspects of Signal Detection in Pharmacovigilance. Geneva: CIOMS; 2010.

³ See <u>www.scopejointaction.eu</u> (will be available)

EMA/261758/2013, available on EMA website http://www.ema.europa.eu.

⁵ See <u>www.ema.europa.eu</u> (available as of Q4 2016)

- specific indication, strength, pharmaceutical form or route of administration whereas some signals may
- apply to a whole class of medicinal products.

108 Signal management process

- The set of activities performed to determine whether there are new risks associated with an active
- 110 substance or a medicinal product or whether known risks have changed, as well as any related
- 111 recommendations, decisions, communications and tracking.
- 112 The EU signal management process includes the following activities: signal detection, signal validation,
- 113 signal confirmation, signal analysis and prioritisation, signal assessment and recommendation for
- 114 action [IR Art 21(1)].

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Signal detection

116 The act of looking for and/or identifying signals using data from any source.⁶

117 Signal validation

- 118 The process of evaluating the data supporting a detected signal in order to verify that the available
- documentation contains sufficient evidence to justify further analysis of the signal [IR Art 21(1)].
- 120 This evaluation should take into account the strength of the evidence, the clinical relevance and the
- previous awareness of the association (see IX.B.3.).

122 Signal confirmation

- 123 The process during which the competent authority of a Member State (where the signal concerns a
- medicinal product authorised in accordance with DIR), or the Rapporteur appointed by the
- 125 Pharmacovigilance Risk Assessment Committee (PRAC) (where the signal concerns a product
- authorised in accordance with REG), decides whether or not a validated signal should be analysed and
- prioritised by the PRAC. This should be done within 30 days from receipt of the validated signal.
- 128 Signal confirmation is not intended to be a full assessment of the signal. The fact that a signal is
- 129 confirmed does not imply that a causal relationship has been established, but that the signal should be
- discussed at EU level and further investigated by PRAC (see IX.C.4.).

131 Signal analysis and prioritisation by the Pharmacovigilance Risk Assessment Committee

132 *(PRAC)*

- 133 The process by which the PRAC determines whether a confirmed signal requires further evaluation, and
- if required, to what timeframe and in which procedural framework. This is based on an initial analysis
- of the potential impact of the signal on patient and public health and the risk-benefit balance of the
- 136 concerned medicinal product(s) (see IX.C.5.).

137 Signal assessment by the Pharmacovigilance Risk Assessment Committee (PRAC)

- 138 Following PRAC initial analysis and prioritisation, the process of evaluating all available data relevant to
- a signal to determine the need for any regulatory action (see IX.C.5.).

140 Lead Member State for signal management

- 141 The Member State appointed to monitor the EudraVigilance database for an active substance contained
- in medicinal products authorised in accordance with DIR in more than one Member State through the
- 143 national, mutual recognition or decentralised procedures. The Lead Member State shall validate and
- 144 confirm signals on behalf of the other Member States.

⁶ Council for International Organizations of Medical Sciences (CIOMS). Report of CIOMS Working Group VIII on Practical Aspects of Signal Detection in Pharmacovigilance. Geneva: CIOMS; 2010.

- 145 If the active substance is authorised in only one Member State, that Member State automatically
- assumes the responsibilities of the Lead Member State.

147 Emerging safety issue

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- 148 A safety issue considered by a marketing authorisation holder in relation to an authorised medicinal
- 149 product under its responsibility to require urgent attention of the competent authority because of the
- potential major impact on the risk-benefit balance of the product and/or on patient or public health,
- 151 that could warrant prompt regulatory action and communication to patients and healthcare
- professionals (see also GVP Module VI and IX.C.3.1.).

IX.B. Structures and processes

IX.B.1. Sources of data and information

- 155 The data sources for identifying new signals are diverse. They potentially include all scientific
- 156 information concerning the use of medicinal products and the outcome of the use, i.e. quality, non-
- 157 clinical and clinical data (including pharmacovigilance and pharmacoepidemiological data). Common
- 158 sources for signals include spontaneous reporting systems (see GVP Module VI), active surveillance
- systems, studies (see The Rules Governing Medicinal Products in the European Union, Volume 10⁷, GVP
- Module VIII) and the scientific literature reporting such data.
- 161 Signals from spontaneous reports may be detected from monitoring of ICSRs, suspected adverse
- reaction databases, articles from the scientific literature or review of information provided by
- marketing authorisation holders in the context of regulatory procedures (e.g. risk management plan
- (RMP) updates (see GVP Module V), periodic safety update reports (PSURs) (see GVP Module VII),
- 165 post-authorisation commitments, variations, renewals, or from other activities related to the
- 166 continuous monitoring of the risk-benefit balance of medicinal products).
- 167 Suspected adverse reactions may be reported to and/or collected by other local, regional or national
- data collection systems allowing patients and healthcare professionals to report suspected adverse
- 169 reactions, e.g. pharmacovigilance centres, poison centres, teratology information services, vaccine
- 170 surveillance programmes and disease registries. Competent authorities and marketing authorisation
- holders should liaise, as appropriate, with other organisations managing such reporting systems so as
- to be informed of these suspected adverse reactions.
- 173 Signal detection is often based on the periodic monitoring of large databases such as EudraVigilance,
- 174 the US FDA Adverse Event Reporting System (FAERS) or the database of the WHO Programme for
- 175 International Drug Monitoring (VigiBase).

IX.B.2. Signal detection

- 177 Signal detection shall be based on a multidisciplinary approach [IR Art 19(2)]. It should follow an
- appropriate methodology, which may vary depending on the nature of data and on the type of
- 179 medicinal product concerned (vaccines may for example require specific methodological strategies (see
- GVP P.I.)). Data from all appropriate sources should be considered (see IX.B.1.). Clinical judgement
- should always be applied.
- 182 Signal detection may involve a review of ICSRs, statistical analyses, or a combination of both,
- depending on the size of the data set. When it is not relevant or feasible to assess each individual case

⁷ See http://ec.europa.eu/health/documents/eudralex/vol-10/

- 184 (e.g. signals detected from published studies, healthcare record data), aggregated data should be
- 185 considered.

- 186 Guidance on statistical aspects of signal detection may be found in GVP Module IX Add I.
- 187 The signal detection process should be adequately documented (see IX.B.5.).

IX.B.3. Evaluation of the evidence supporting a signal

- The following elements should be considered when evaluating the evidence supporting a detected signal:
- Strength of the evidence from ICSRs, taking into account, for example:
- the total number of cases (after exclusion of duplicates), and amongst those, the number of supportive cases, e.g. cases showing a compatible temporal association, positive de- or rechallenge, lack of potential alternative causes, assessed as possibly related by the reporting healthcare professional, supportive results of relevant investigations;
- additional cases reported with related terms (e.g. other MedDRA terms indicating clinical
 complications or different stages of the same reaction);
- consistency of the evidence across cases (e.g. pattern with repeated observations of an association);
- 200 quality of the data and their documentation;
- cases matching internationally agreed case definitions if applicable (e.g. Brighton collaboration
 case definitions for vaccines (see GVP P.I.), RegiSCAR criteria for DRESS syndrome);
- 203 plausibility of a biological and pharmacological relationship / possible mechanism;
- number of cases in the context of patient exposure;
- measures of disproportionality, if applicable (see GVP Module IX Add I).
- Clinical relevance, for example:
- 207 seriousness and severity of the reaction;
- reactions occurring in the context of drug-drug interactions;
- reactions occurring in vulnerable populations (e.g. pregnant women (see GVP P.III.), children
 (see Guideline on Conduct of Pharmacovigilance for Medicines used by the Paediatric
 Population⁸) or the older population (see GVP P.IV.)) or in patients with pre-existing risk
 factors:
- reactions occurring in different patterns of use (e.g. overdose, misuse, off-label use,
 medication errors);
- whether the signal may provide additional insight on an expected reaction in terms of e.g. its
 severity, outcome, incidence or management;
- Previous awareness, for example:
- the extent to which information is already included in the product information (i.e. the
 summary of product characteristics (SmPC), the patient leaflet and the labelling);

⁸ See <u>www.ema.europa.eu</u> (revision will be available in 2016/2017)

- whether the reaction is already included in the SmPC for other products including the same substance, bearing in mind that some signals may only be relevant to a specific medicinal product (see IX.A);
- whether the association has already been assessed in the initial application for marketing
 authorisation, the RMP, the PSUR or any other regulatory procedure;
- 225 Additional sources of information may provide further evidence on the association, for example:
- 226 clinical trial data:
- findings regarding similar cases in the scientific literature, including information on substances of the same class of medicinal products;
- experimental or non-clinical findings;
- databases with larger datasets (see IX.B.1.), when the signal was detected from national or
 company-specific databases);
- healthcare databases that may provide information on characteristics of exposed patients and
 medicines utilisation patterns;
- information from other regulatory authorities worldwide.
- The evaluation of the evidence supporting a signal may involve several rounds of expert discussions and different levels of decision-making, within individual organisations. This may result in various
- 237 decisions, such as:
- closing the signal, when the available data do not support a causal relationship (the signal may be re-opened at a later stage if new evidence arises) or when there is sufficient information on the association in the product information;
- monitoring the signal by reviewing new information from ICSRs or the scientific literature at
 appropriate time intervals to determine whether the new data are supportive of a causal
 relationship;
- proposing actions such as changes to the product information by means of a variation, if there is sufficient evidence of a causal relationship.

246 IX.B.4. Signal prioritisation

- A key and continuous consideration of the signal management process is to promptly identify signals
- that may have an important impact on patient or public health and/or on the risk-benefit balance of
- the medicinal product.
- 250 The following should be considered when evaluating this impact:
- the severity, seriousness, outcome and reversibility of the adverse reaction and the potential for prevention;
- the patient exposure and the estimated frequency of the adverse reaction;
- the patient exposure in vulnerable populations and/or in populations with different patterns of use, where appropriate;
- the consequences of treatment discontinuation on the disease under treatment and the availability of other therapeutic options;

- the expected extent of the regulatory intervention (e.g. addition of adverse reactions, warnings, contraindications, additional risk minimisation measures, suspension, revocation);
- whether the signal is likely to apply to other substances of the same class of medicinal products.
- In some circumstances, special consideration may be given to signals that may cause media attention and/or public concerns (e.g. adverse events following mass immunisation).
- How the signal is further managed including timelines will depend on the prioritisation. Because
- 264 prioritisation is a continuous process, appropriate measures should be considered at any stage if the
- 265 information available supports the conclusion that there is a risk that requires prevention or
- 266 minimisation in a timely manner (see GVP Module XVI). Such measures may be required before a
- formal assessment of the signal is concluded. Professional judgement and flexibility should be applied
- 268 throughout the process.

IX.B.5. Quality requirements

- 270 Signal management is considered a critical process (see GVP Module I). As such, any signal
- 271 management system should be clearly documented to ensure that the system functions properly and
- effectively, that the roles, responsibilities and required tasks are clear and standardised, that these
- 273 tasks are conducted by staff with appropriate qualifications and expertise and that there are provisions
- for appropriate control and, when needed, improvement of the system. This includes the rationale for
- the method and periodicity of signal detection activities. Therefore, a system of quality management
- 276 (see GVP Module I) should be applied to all signal management processes. Detailed procedures for this
- quality system should be developed, documented and implemented. The performance of the system
- 278 should be controlled and, when used, performance indicators should be presented in the
- pharmacovigilance system master file [IR Art 3, 9(1)] (see GVP Module I).
- 280 The organisational roles and responsibilities for the activities including maintenance of documentation,
- quality control and review, and for ensuring corrective and preventive action should be assigned and
- 282 recorded.
- 283 As a critical process, signal management activities should be audited at regular intervals, including
- tasks performed by any service providers and contractors. Data and document confidentiality (per the
- applicable laws and regulations), security and validity (including data integrity when transferred
- between organisations) should be guaranteed.
- 287 Through a tracking system, all parties should keep an audit trail of signal management activities,
- allowing traceability (i.e. recording of dates and confirmation of timeliness) and process control of the
- details of all steps of signal management, including analyses, decisions and rationale.
- 290 Documentation may be requested from marketing authorisation holders to demonstrate compliance
- 291 with these requirements at any time, including justification / evidence for the steps taken and
- 292 decisions made.
- 293 Staff members should be specifically trained in signal management activities in accordance with their
- roles and responsibilities (see GVP Module I).

IX.C. Operation of the EU network

1X.C.1. Roles and responsibilities of the marketing authorisation holder in the EU, the competent authorities of Member States, the Pharmacovigilance Risk Assessment Committee (PRAC) and the Agency

299 Marketing authorisation holders should continuously monitor the safety of their medicinal products and

- 300 inform the authorities of any new information that might have an impact on the marketing
- authorisation [DIR Art 23(2), REG Art 16(2)]. Marketing authorisation holders shall keep their product
- information up-to-date in the light of scientific knowledge, including the assessments and
- recommendations made public via the European medicines web-portal [IR Art 11(1)(f), DIR Art 23(3),
- 304 REG Art 16(3)] (see IX.C.8.).

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- The competent authority of each Member State shall be responsible for monitoring the data originating in the territory of that Member State [IR Art 18(4)].
- Within the EU regulatory network, the Agency takes the lead for EudraVigilance monitoring of active
- 308 substances contained in at least one centrally authorised product (CAP). For active substances only
- 309 contained in nationally authorised products (NAPs), including those authorised through the mutual
- 310 recognition and decentralised procedures, Member States take the lead for EudraVigilance monitoring.
- 311 For these substances, a worksharing is foreseen whereby Member States may agree within the
- 312 Coordination Group for Mutual recognition and Decentralised procedures human (CMDh) to appoint a
- 313 lead Member State to monitor EudraVigilance data on behalf of the other Member States [IR Art
- 314 22(1)]. A co-leader may also be appointed to assist the lead Member State in the fulfilment of its tasks
- 315 [IR Art 22(1)]. All Member States shall remain responsible for monitoring the data in the
- EudraVigilance database in accordance with DIR Art 107h(1)(c) and Art 107h(3) [IR Art 22(4)].
- Each organisation should validate and prioritise signals they have detected (or that have been brought
- to their attention) from any source, including EudraVigilance (see IX.B.3. and IX.B.4.).
- 319 For active substances contained in NAPs authorised in more than one Member State and for which no
- 320 lead Member State has been appointed, the national competent authority should validate and confirm
- 321 as a single step the signals it has detected.
- 322 The overall roles and responsibilities of the marketing authorisation holder in the EU (MAH), the
- 323 competent authorities of Member States (MS) and the Pharmacovigilance Risk Assessment Committee
- 324 (PRAC) and the Agency for each step of the EU signal management process are summarised in Table
- 325 IX.1..

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Table IX.1. Roles and responsibilities within the EU signal management process

	MAH (their products)	Agency (for CAPs)	Lead MS State (allocated NAPs)	PRAC rapporteur of CAP	Member States (unallocated NAPs)	PRAC and rapporteur appointed to assess the signal (for CAPs and NAPs)
EudraVigilance monitoring, signal detection, validation	✓	√	✓		✓	

	MAH (their products)	Agency (for CAPs)	Lead MS State (allocated NAPs)	PRAC rapporteur of CAP	Member States (unallocated NAPs)	PRAC and rapporteur appointed to assess the signal (for CAPs and NAPs)
Signal confirmation			✓	✓	✓	
Signal analysis and prioritisation, assessment, recommendation						✓

IX.C.2. Monitoring of EudraVigilance data

- National competent authorities and the Agency shall cooperate in the monitoring of the data available 328
- 329 in the EudraVigilance database [IR Art 18(1)]. Marketing authorisation holders shall monitor the data
- 330 available in the EudraVigilance database to the extent that they have access to the database [IR Art 18
- 331 (2)]. Such monitoring should be performed to determine whether there are new risks or whether risks
- 332 have changed and whether those risks have an adverse impact on the risk-benefit balance of the
- 333 medicinal product(s).

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IX.C.2.1. Principles for access

- 335 The principles for providing access to ICSR data held in EudraVigilance for each stakeholder group are
- 336 described in the European Medicines Agency Policy on Access to EudraVigilance data for Medicinal
- Products for Human Use⁹. 337
- 338 For marketing authorisation holders, the policy provides the option to request access to case narratives
- 339 held in EudraVigilance ('ICSR data set level 2B'). Prior to requesting access to case narratives, the
- 340 following criteria should be met:
- 341 The review of the electronic reaction monitoring report suggests a signal (see IX.A.);
- To the best of the marketing authorisation holder's knowledge, the signal is not addressed in the 342 product information of any medicinal product authorised in the EU with the concerned active 343 substance (see also IX.C.3.4.); 344
 - Based on the information published on the European medicines web-portal (see IX.C.8.), the signal was not recently addressed by (a) competent authority(ies) of (a) Member State(s) or by PRAC.
- When a signal originates from EudraVigilance data, marketing authorisation holders should review the 347 348 corresponding case narratives as part of the signal validation.
- 349 Guidance related to EudraVigilance outputs and the EudraVigilance Data Analysis System (EVDAS) is 350 provided in the EVDAS Report Manual and in MAH's level 1 access via EVDAS 10.
- 351 Relevant staff members within national competent authorities and marketing authorisation holders 352 should familiarise themselves with the training materials made available online by the Agency on

⁹ See <u>www.ema.europa.eu</u>

¹⁰ Documents under development; references will be provided in the final GVP M IX Rev 1

- 353 EVDAS and the training should be documented in line with the organisation's internal procedures (see
- 354 IX.B.5.).

IX.C.2.2. Periodicity of monitoring

- 356 Marketing authorisation holders, the national competent authorities and the Agency shall ensure the
- 357 continuous monitoring of the EudraVigilance database with a frequency proportionate to the identified
- 358 risk, the potential risks and the need for additional information on medicinal products or active
- 359 substances [IR Art 18(3)].
- The appropriate frequency of monitoring of EudraVigilance data may vary with the accumulation of
- knowledge on the risk profile of a given active substance or medicinal product, taking into account, for
- 362 example:
- time since first authorisation;
- patient exposure;
- potential risks and missing information documented in the RMP;
- PSUR submission frequency;
- any safety concern of interest in specific situations (e.g. vaccination campaigns).
- 368 A two weeks' interval between reviews of EudraVigilance data is recommended for active substances
- 369 contained in medicinal products included in the additional monitoring list in accordance with REG Art 23
- 370 (see GVP Module X), unless the sole reason for inclusion on the list is the request of a post-
- authorisation safety study (PASS). A monthly monitoring of EudraVigilance data is routinely applied by
- 372 the Agency for other active substances. It is recommended that the interval between reviews of
- EudraVigilance data should not exceed 6 months.
- Each organisation should document the frequency of their monitoring of EudraVigilance data (see also
- 375 IX.B.5.).

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376 IX.C.3. Notifications and procedural options for signals validated by the

377 marketing authorisation holder in the EU

- 378 This section outlines the options marketing authorisation holders have to inform competent authorities
- of signals they have validated. These options are also illustrated in Figure IX.1. in IX. Appendix 1.
- 380 These options are without prejudice to the obligation of the marketing authorisation holder to update
- their marketing authorisation throughout the lifecycle of the product by variation applications.

IX.C.3.1. Emerging safety issue

- 383 When a marketing authorisation holder becomes aware of an emerging safety issue (see IX.A.), they
- 384 should notify it in writing to the relevant competent authority (ies) of Member State(s) and to the
- Agency to the mailbox "P-PV-emerging-safety-issue@ema.europa.eu". This should be done within 2
- working days of becoming aware of the issue.
- 387 When notifying an emerging safety issue, the marketing authorisation holder should describe the
- safety concern, the source(s) of information, any planned or taken actions, and should provide any
- relevant documentation. In such instances, a standalone signal notification (see IX.C.3.4.) is not
- 390 required.

- 391 Upon being notified of an emerging safety issue, national competent authorities and/or the Agency as
- appropriate should promptly assess the urgency and potential impact of the issue and agree on
- 393 appropriate next steps and the potential regulatory procedure to address the matter raised (see
- 394 European Union Regulatory Incident Management Plan for Medicines for Human Use 11).
- In order to ensure its effectiveness, the system should not be saturated by the transmission of less
- 396 urgent information. Marketing authorisation holders should only communicate as emerging safety
- issues those safety concerns which meet the definition provided in IX.A, i.e. whose urgency and
- 398 seriousness cannot permit any delay in handling, for instance validated signals that cannot wait up to
- 399 30 days for confirmation by Member States.

IX.C.3.2. Variation of the terms of marketing authorisation

- When, as a result of signal validation, a marketing authorisation holder considers the evidence
- 402 sufficient to propose changes to the product information and/or the RMP, they should submit an
- 403 appropriate variation application to the relevant competent authorities (if urgent attention is required,
- see IX.C.3.1.). This should be done as soon as possible and no later than 3 months after the signal is
- 405 validated.

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- 406 In such instances, a standalone signal notification (see IX.C.3.4.) is not required, as the proposed
- 407 changes and supportive evidence will be assessed by the relevant competent authorities within the
- 408 variation procedure.
- When the application refers to the introduction of a change not reflected in the innovator product
- 410 information, marketing authorisation holders for generic products should liaise with the relevant
- 411 competent authorities prior to the submission of such variation application to agree on the appropriate
- way to handle the potential amendment of the product information.
- 413 Marketing authorisation holders should follow the relevant guidance on variations when preparing their
- 414 variation application¹².

IX.C.3.3. Periodic safety update report

- 416 For active substances included in the List of Union reference dates and frequency of submission of
- 417 periodic safety update reports (PSURs)¹³, if by the time a marketing authorisation holder concludes
- 418 that a signal is validated, a PSUR is due to be submitted in the following 3 months, the signal, together
- with any potentially related amendment to the product information, may be reported in the PSUR,
- 420 unless the marketing authorisation holder considers that a variation application with supportive data
- 421 should be submitted. In such cases, a standalone signal notification (see IX.C.3.4.) is not required as
- 422 the signal will be assessed by the PRAC / Member State(s) within the PSUR procedure (see GVP Module
- 423 VII).

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- 424 For active substances not included in the List of Union reference dates and frequency of submission of
- periodic safety update reports (PSURs)¹⁴, validated signals should be reported via one of the options
- 426 described in IX.C.3.2. and IX.C.3.4.
- 427 Validated signals requiring urgent attention should be reported as emerging safety issues regardless of
- 428 the submission date of the PSUR (see IX.C.3.1.).

¹⁴ See www.ema.europa.eu

¹¹ See <u>www.ema.europa.eu</u>

¹² Guidance on variations is available on the websites of the EMA (<u>www.ema.europa.eu</u>), Heads of Medicines Agencies (<u>www.hma.eu</u>) and national competent authorities of Member States.

¹³ See www.ema.europa.eu

- 429 Regardless of whether they have been reported in accordance with the processes described in sections
- 430 IX.C.3.1., IX.C.3.2. and IX.C.3.4., all validated signals and emerging safety issues for which the
- evaluation was concluded during the reporting interval of a PSUR, or are under evaluation at the time
- 432 of a PSUR data lock point, should be reported in that PSUR (PSUR sections 15 and 16) (see GVP
- 433 Module VII).

IX.C.3.4. Standalone signal notification

- When a validated signal does not meet any of the conditions outlined in IX.C.3.1., IX.C.3.2. or
- 436 IX.C.3.3., the marketing authorisation holder should complete the signal validation form ¹⁵ available on
- 437 the European medicines web-portal and send it via [functional e-mail address tbc]¹⁶ to the Agency and
- 438 national competent authorities.
- This should be done as soon as possible and no later than 30 days after the signal is validated.
- In line with the definition of a signal (see IX.A.), information that does not relate to a new association,
- or a new aspect of a known association, should not be sent as a standalone signal notification. This
- may include, for example, risks that are adequately addressed in the product information of other
- 443 medicinal products in the EU containing the same active substance (except for product-specific issues),
- in which case the product information should be aligned as appropriate through a variation application,
- or signals already considered by PRAC (see IX.C.8.), in which case, the PRAC recommendation should
- be followed or awaited, as appropriate.

1X.C.4. Signal confirmation by Member States

- 448 Within 30 days of receipt of a validated signal, the PRAC rapporteur or (lead) Member State, as
- applicable, should confirm or not the signal, i.e. decide whether or not it should undergo PRAC analysis
- and prioritisation at the subsequent meeting (see IX.A.).
- 451 A Member State may decide not to bring a validated signal for discussion at PRAC if, for example:
- it is already handled through a different procedure (e.g. PSUR, variation) at the time confirmation is considered, including procedures for other medicinal products containing the same active substance (e.g. originator product);
- the adverse reaction is already included in the product information of other products authorised in the EU with the same active substance;
- the signal has recently been subject of review and the data that has arisen since this review does not provide substantial new evidence;
- the available data does not warrant further analysis.
- 460 The Member State confirming a signal should make a proposal for further investigation and
- 461 management of the signal in preparation for the first discussion at PRAC, based on the information
- provided by whoever validated the signal.
- More details on the confirmation process are provided in Figures IX.2. and IX.3. in IX. Appendix 1.

¹⁵ See <u>www.ema.europa.eu</u> (will be made available later)

¹⁶ E-mail address to be confirmed later

1X.C.5. Signal analysis, prioritisation and assessment by the

Pharmacovigilance Risk Assessment Committee (PRAC)

- When the Agency or the national competent authority validating or confirming a signal considers that
- 467 urgent action is required before the subsequent PRAC meeting, it should use the rapid alert system to
- inform the EU regulatory network about the issue and request discussion on any potential action (see
- European Union Regulatory Incident Management Plan for Medicines for Human Use 17).
- The PRAC prioritises signals taking into account the information provided by the Member State that
- confirmed the signal (see IX.B.4. and IX.C.4.). The PRAC may further amend the scope of the signal
- 472 management by extending it to other active substances of the same class of medicinal products or to
- 473 other related adverse reactions.

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- When further assessment is considered needed within the signal procedure, the PRAC appoints a
- 475 rapporteur and defines a timeframe taking into account the prioritisation of the signal. The appointed
- 476 rapporteur should transmit to the PRAC an assessment report which should include a proposed
- 477 recommendation. Marketing authorisation holders should collaborate with the PRAC for the assessment
- of the signals by providing the additional information requested [DIR Art 23(4) and REG Art 16(3a)].
- 479 The timeframe is agreed on a case-by-case basis. A typical timeframe is two months for submission of
- 480 data and a further two months for assessment by PRAC. Timetables for signal assessment are
- 481 published on the Agency's website. The detailed process for PRAC assessment of confirmed signals is
- shown in Figure IX.4. in IX. Appendix 1.
- When the PRAC recommends assessment of the signal within another procedure (e.g. PSUR, referral,
- variation), the process and timelines for that procedure will apply.

IX.C.6. Recommendations on signals from the Pharmacovigilance Risk

486 Assessment Committee (PRAC)

- PRAC recommendations are adopted after prioritisation, assessment and any follow-up discussion on
- 488 the signal. The recommendations may include any or a combination of the following conclusions:
- no action is required at this point in time, other than routine pharmacovigilance;
- the marketing authorisation holder should review the signal in the following PSUR or submit an adhoc PSUR (see GVP Module VII);
- the marketing authorisation holder should provide additional data according to a defined timeline;
- the Agency or Member States should collect further information (e.g. via the 'non-urgent
- information system of the EU regulatory network for pharmacovigilance') or perform additional
- 495 analyses;
- other EMA scientific committees or EMA expert groups should be consulted;
- the marketing authorisation holder should be requested to submit an RMP or an updated RMP (see GVP Module V);
- the marketing authorisation should be varied;
 - additional risk minimisation measures should be put in place (see GVP Module XVI), e.g. the dissemination of a Direct Healthcare Professional Communication (DHPC) (see GVP Module XV);
- the marketing authorisation holder should sponsor a post-authorisation study according to an agreed protocol and submit the final results of that study (see GVP Module VIII);

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¹⁷ See <u>www.ema.europa.eu</u>

- an urgent safety restriction should be imposed in accordance with Article 22 of Regulation (EC) 1234/2008;
- the Member States or the European Commission should consider a referral procedure in accordance with DIR Art 31 or 107i, or REG Art 20, as appropriate 18;
- an inspection should take place in order to verify that the marketing authorisation holder for the medicinal product satisfies the pharmacovigilance requirements laid down in DIR Titles IX and XI;
- any other appropriate action that is not listed above.
- 511 PRAC recommendations to provide additional data are communicated directly to concerned marketing
- authorisation holders by the Agency. PRAC recommendations for regulatory action such as variation
- are submitted to the Committee for Medicinal Products for Human Use (CHMP) for endorsement when
- they concern centrally authorised medicinal products, and to the Coordination Group for Mutual
- recognition and Decentralised procedures human (CMDh) for information in the case of nationally
- authorised products. The national competent authorities of Member States should take the appropriate
- 517 measures at national level subsequently.

IX.C.7. Record management in the European Pharmacovigilance Issues Tracking Tool (EPITT)

- 520 The Agency should enter in the European Pharmacovigilance Issues Tracking Tool (EPITT) the signals it
- has validated and validated signals notified by marketing authorisation holders. Member States should
- 522 enter in EPITT signals they have validated. The following elements should be entered:
- a description of the validated signal;
- for non-confirmed signals: justification for not confirming;
- for confirmed signals: signal assessment report, timetables, PRAC recommendations.
- 526 The Agency also enters in EPITT relevant information on emerging safety issues (see IX.C.3.4.).

527 IX.C.8. Transparency

- In relation to the EU signal management process, the following information is published by the Agency
- on the European medicines web-portal:
- PRAC agendas;
- PRAC recommendations (for recommendations to update the product information, the agreed wording for the product information is published in all EU official languages, as well as Norwegian and Icelandic. Marketing authorisation holders can use these translations to update the product information of the medicinal products they are responsible for);
- cumulative list of all signals discussed by the PRAC with links to the relevant PRAC minutes;
- list of active substances subject to worksharing for signal management and the lead Member State appointed for monitoring those substances in the EudraVigilance database [IR Art 22(3)].
- Outcomes of safety referrals and single assessments of PSURs (see GVP Module VII), which may be relevant to signal management, are also published ¹⁹.

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¹⁸ See <u>www.ema.europa.eu</u> for EMA guidance on referral procedures

¹⁹ See www.ema.europa.eu

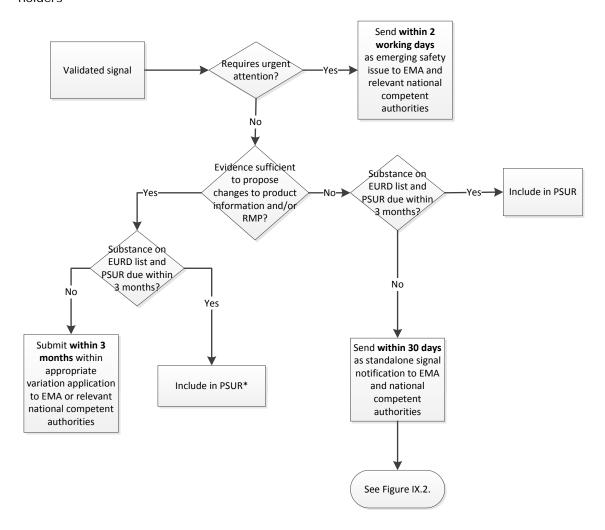
IX. Appendix 1. Figures on the EU signal management process

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Figure IX.1. Notifications and procedural options for signals validated by marketing authorisation holders



^{*} Unless the MAH considers that a variation application should be submitted.

Figure IX.2. Confirmation process for signals validated by marketing authorisation holders

