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**E2D(R1) POST-APPROVAL SAFETY DATA:
DEFINITIONS AND STANDARDS FOR
MANAGEMENT AND REPORTING OF INDIVIDUAL
CASE SAFETY REPORTS
GUIDANCE FOR INDUSTRY**

**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

**March 2024
ICH**

Revision 1

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FOREWORD

The International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH) has the mission of achieving greater regulatory harmonization worldwide to ensure that safe, effective, and high-quality medicines are developed, registered, and maintained in the most resource-efficient manner. By harmonizing the regulatory expectations in regions around the world, ICH guidelines have substantially reduced duplicative clinical studies, prevented unnecessary animal studies, standardized safety reporting and marketing application submissions, and contributed to many other improvements in the quality of global drug development and manufacturing and the products available to patients.

ICH is a consensus-driven process that involves technical experts from regulatory authorities and industry parties in detailed technical and science-based harmonization work that results in the development of ICH guidelines. The commitment to consistent adoption of these consensus-based guidelines by regulators around the globe is critical to realizing the benefits of safe, effective, and high-quality medicines for patients as well as for industry. As a Founding Regulatory Member of ICH, the Food and Drug Administration (FDA) plays a major role in the development of each of the ICH guidelines, which FDA then adopts and issues as guidance to industry.

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1 **E2D(R1) POST-APPROVAL SAFETY DATA:**
2 **DEFINITIONS AND STANDARDS FOR**
3 **MANAGEMENT AND REPORTING OF INDIVIDUAL**
4 **CASE SAFETY REPORTS**
5 **GUIDANCE FOR INDUSTRY**
6

7 This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration
8 (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or
9 the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and
10 regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed
11 on the title page. The draft guidance has been left in the original International Council for Harmonisation
12 format. The final guidance will be reformatted and edited to conform with FDA’s good guidance practice
13 regulation and style.

14
15
16 **1. INTRODUCTION**

17 It is important to establish an internationally standardized procedure to ensure the quality of
18 post-approval safety information and to harmonise, where feasible, the way of gathering and
19 reporting information. The ICH E2D guideline provides guidance on definitions and standards
20 for post-approval individual case safety reporting, as well as good case management practices.
21 This guideline was originally based on the content of the ICH E2A guideline (which provides
22 guidance on pre-approval safety data management), with consideration as to how the terms and
23 definitions should be applied in the post-approval phase of the product life cycle. Detailed
24 guidance on the specific structure, format, standards, and data elements for transmitting
25 Individual Case Safety Reports (ICSRs) is provided in the ICH E2B guideline. Guidance on
26 periodic reporting of aggregated safety data is covered in the ICH E2C guideline.

27 This guideline provides recommendations that are harmonised to the extent possible given
28 differences in post-market safety reporting requirements among ICH regions. Where applicable,
29 this guideline notes where local and regional requirements may vary and, as such, marketing
30 authorization holders (MAHs) should refer to the relevant local or regional regulatory authority’s
31 requirements.

32 **2. DEFINITIONS AND TERMINOLOGY**

33 **2.1 Basic Terms**

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34 **2.1.1 Adverse Event (AE)**

35 An adverse event is any untoward medical occurrence in a patient administered a medicinal
36 product and which does not necessarily have to have a causal relationship with the medicinal
37 product. An adverse event can therefore be any unfavorable and unintended sign (for
38 example, an abnormal laboratory finding), symptom, or disease temporally associated with
39 the use of a medicinal product, whether or not considered related to this medicinal product.

40 **2.1.2 Adverse Drug Reaction (ADR)**

41 Adverse drug reactions, as defined by local and regional requirements, concern noxious and
42 unintended responses to a medicinal product.

43 The phrase “responses to a medicinal product” means that a causal relationship between a
44 medicinal product and an adverse event is at least a reasonable possibility (refer to the ICH
45 E2A guideline). A reaction, in contrast to an event, is characterized by the fact that a causal
46 relationship between the medicinal product and the occurrence is suspected. For regulatory
47 reporting purposes, if an event is spontaneously reported, even if the relationship is unknown
48 or unstated, it meets the definition of an adverse drug reaction (see Section 5.1.1,
49 AEs/ADRs).

50 **2.1.3 Serious AE/ADR**

51 In accordance with the ICH E2A guideline, a serious adverse event or reaction is any
52 untoward medical occurrence that at any dose:

- 53 • results in death;
- 54 • is life-threatening (NOTE: The term “life-threatening” in the definition of “serious”
55 refers to an event/reaction in which the patient was at risk of death at the time of the
56 event/reaction; it does not refer to an event/ reaction which hypothetically might have
57 caused death if it were more severe);
- 58 • requires inpatient hospitalization or results in prolongation of existing hospitalization;
- 59 • results in persistent or significant disability/incapacity;
- 60 • is a congenital anomaly/birth defect;
- 61 • is a medically important event or reaction.

62
63 Medical and scientific judgment should be exercised in deciding whether other situations

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64 should be considered serious such as important medical events that might not be immediately
65 life-threatening or result in death or hospitalization but might jeopardize the patient or might
66 require intervention to prevent one of the other outcomes listed in the definition above.
67 Examples of such events which may occur following the use of a medicinal product are
68 intensive treatment in an emergency room or at home for allergic bronchospasm, blood
69 dyscrasias or convulsions that do not result in hospitalization, or development of dependency
70 or substance use disorder.

2.1.4 Unexpected AE/ADR

71 MAHs should treat AEs/ADRs in ICSRs as unexpected if the reported AE/ADR is not
72 included in any section of the local/regional product labeling (e.g., Prescribing Information
73 or Summary of Product Characteristics). In addition, an AE/ADR in an ICSR whose nature,
74 severity, or specificity is not consistent with the term or description used in the local/regional
75 product labeling should be considered unexpected. When an MAH is uncertain whether an
76 AE/ADR in an ICSR for a country or region should be treated as expected or unexpected, the
77 AE/ADR should be treated as unexpected for that local country or region.
78

79 An ADR included in the local/regional product labeling should be considered unexpected
80 when it is reported with a fatal outcome in an ICSR unless the labeling specifically states that
81 the ADR might be associated with a fatal outcome.

82 Product labeling may include information related to ADRs for the pharmaceutical class to
83 which the medicinal product belongs. This situation is often referred to as “Class ADRs”,
84 and such class ADRs should not automatically be considered “expected” when reported in an
85 ICSR for one of the medicinal products. In this instance, MAHs should refer to the relevant
86 local or regional requirements.

87 NOTE: In contrast to the term “unexpected”, the term “unlisted” is not applicable to
88 individual case safety reporting but is used to characterize the ADR according to the
89 Company Core Safety Information (refer to the ICH E2C guideline for definitions).

2.1.5 Other Observations

90 “Other observations” refers to certain occurrences associated with use of a medicinal
91 product, including: use in pregnancy/lactation; lack of efficacy; overdose, abuse, misuse,
92 medication error, occupational exposure; and off-label use. In some cases, “other
93

94 observations” can occur without any associated AEs/ADRs, while in other cases “other
95 observations” can occur with an associated AE/ADR.

96 **2.1.6 Reporting Terminology**

97 Throughout this guideline, the term “reporting”, unless specifically indicated otherwise,
98 refers to MAHs submitting ICSRs to a regulatory authority (i.e., regulatory reporting), as
99 opposed to MAHs receiving or collecting information about a case from a primary source.

100 For the purpose of reporting, requirements in some regions refer only to ADRs, whereas
101 other regions refer to AEs. For simplicity, the term AE(s)/ADR(s) is used throughout this
102 guideline. Refer to local and regional requirements for specifications and requirements on the
103 reporting of AEs or ADRs to each Regulatory Authority. The term “AE(s)/ADR(s)” includes
104 AE(s)/ADR(s) or other observations, unless specifically stated otherwise.

105 **2.2 Individual Case Safety Report (ICSR) including Minimum Criteria for Reporting**

106 An ICSR is a description of an AE/ADR or other observation in an individual patient at a
107 specific point of time.

108 The minimum criteria for reporting ICSRs are:

- 109 • At least one AE/ADR – see Section 5.1.1, or other observation – see Section 5.1.3;
- 110 • At least one suspect or interacting¹ medicinal product;
- 111 • An identifiable patient – see Section 6.1;
- 112 • At least one identifiable reporter – see Section 6.1;

113 A case is the information received by an MAH or regulatory authority about an AE/ADR or
114 other observation. Cases missing any of the above criteria do not qualify for reporting; due
115 diligence should be exercised to collect the missing criteria.

116 While these criteria are the minimum needed for a case to be eligible for reporting, regulatory
117 authorities may have additional criteria, as specified by local and regional requirements, for
118 reporting of a case to be required. See Section 5, Standards for Reporting, for more information

¹ The term suspect medicinal product includes interacting medicinal products. “Interacting” medicinal products are products for which the reporter indicates a suspected interaction with other medicinal products. All interacting medicinal products are considered to be suspect medicinal products (See ICH E2B).

119 on what should be reported.

120 An ICSR can be a description of at least one AE/ADR, or other observation (see Section 5.1.3,
121 Other Observations), or both.

122 **2.3 Expedited Report**

123 An expedited report is an individual case safety report that meets the requirements for reporting
124 as soon as possible, but no later than 15 calendar days after day zero (see Section 5.2, Reporting
125 Timeframes).

126 **2.4 Primary Source**

127 A primary source(s) is a person who provides facts about a case. Primary sources, often referred
128 to as “reporters”, include healthcare professionals and consumers who provide facts about a case
129 to the MAH or regulatory authority. Primary sources should be distinguished from senders who
130 gather information on a case from primary sources and transmit it (e.g., MAH to regulatory
131 authority). Several sources, such as healthcare professionals and/or consumers, may provide
132 information on the same case. The ‘primary source’ for regulatory purposes is the person who
133 first provided facts on the case (see ICH E2B). In the case of a literature article, the author(s)
134 is/are a primary source.

135 **2.5 Healthcare Professional (HCP)**

136 Healthcare professional is defined as a primary source who is medically-qualified such as a
137 physician, dentist, pharmacist, nurse, coroner (if medically trained), or as otherwise specified by
138 local or regional requirements.

139 **2.6 Consumer**

140 Consumer is defined as a primary source who is not a healthcare professional. Examples include
141 a patient, patient representative (including a legal representative), caregiver, friend, or relative of
142 a patient.

143 **2.7 Digital Platform**

144 A digital platform is the software and technology used to enable transmission of information
145 between users (see Section 4.3, Digital Platforms).

146 **2.8 Organized Data Collection System (ODCS)**

147 An organized data collection system (ODCS) is an activity that gathers data in a planned manner,

148 thereby enabling review to be performed.

149 Local or regional regulatory authorities may require a protocol for certain types of ODCS (i.e.,
150 clinical trials and non-interventional studies). In this context a protocol means a document that
151 describes the objectives, design, methodology, statistical considerations and organization of a
152 clinical trial or study.

153 For MAH ODCS activities that are not conducted according to a protocol (e.g., a market research
154 program, a patient support program), the MAH should have documentation that describes the:

- 155 1. Objectives of the ODCS activity;
- 156 2. Source(s) of the data;
- 157 3. Dataset that the MAH will collect or receive and review in order to meet the objectives of
158 the activity detailed under item 1, including the time period that will be represented by the
159 data;
- 160 4. Method the MAH will use to review the dataset to meet the objective of the activity;
- 161 5. Process for collection and management of any AEs/ADRs that may be identified.

162 For the purposes of this Guideline, ODCS excludes the MAHs' standard procedures for the
163 surveillance, receipt, evaluation, and reporting of spontaneous postmarketing AEs/ADRs and
164 other postmarketing AEs/ADRs managed as spontaneous reports (i.e., the MAH's routine
165 pharmacovigilance operations for spontaneous reports), see Section 4.

166 Specific examples of ODCS in the context of this Guideline include clinical trials, non-
167 interventional studies (e.g., pharmacoepidemiologic, drug utilization studies, registries), patient
168 support programs, and market research programs. Other examples include: an MAH activity
169 using a patient forum on a digital platform to assess patient perceptions of the safety of disease
170 treatments; and a product-specific analysis of consumer positivity or negativity about the product
171 (i.e., a sentiment analysis) conducted by an MAH using posts on social media networking sites.

172 **2.9 Patient Support Program (PSP)**

173 PSPs are ODCSs initiated by an MAH, in which patients enroll for the purpose of supporting
174 their use of the MAH's medicinal product, or the management of their medical condition, and
175 which include a mechanism for two-way communication between the MAH (or third party acting
176 on the MAH's behalf) and patients or healthcare professionals. Examples of PSPs include

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177 adherence support, disease management, and certain reimbursement, and educational programs.
178 See Section 4.4, Sources of ICSRs, PSPs, for further details.

179 Programs meet the definition of a PSP if 1) they solicit medical information about the patient's
180 use of a medicinal product and/or 2) the design of the program is such that the MAH (or a third
181 party acting on the MAH's behalf) would foreseeably receive medical information about the
182 patient's use of a medicinal product (e.g., when a program involves HCP interaction with a
183 patient to administer medication or provide medical advice).

184 MAH-initiated programs that do not meet the criteria above (e.g., delivery of a product to a
185 patient's home, provision of vouchers or coupons) are not considered to be PSPs, as long as the
186 MAH does not request medical information about the patient's use of a medicinal product. PSPs
187 exclude: clinical trials; non-interventional studies, such as post-authorization safety
188 studies which have a scientific intent or are testing a hypothesis; all forms of compassionate use;
189 and named patient supply.

190 **2.10 Market Research Program (MRP)**

191 MRPs are ODCSs which are used for planned collections of healthcare professional and/or
192 consumer insights by an MAH, on medicinal products and/or a disease area, for the purpose of
193 marketing and business development.

194 **3. TYPES OF INDIVIDUAL CASE SAFETY REPORTS**

195 **3.1 Spontaneous Reports**

196 A spontaneous report is a direct communication by an HCP or consumer to an MAH, regulatory
197 authority or other organization (e.g., World Health Organization Uppsala Monitoring Center,
198 Regional Pharmacovigilance Center) that describes one or more AEs/ADRs in a patient who was
199 exposed to one or more medicinal products and that was not gathered as part of an ODCS.

200 In certain situations, public communication about an AE/ADR (e.g., a "Dear Healthcare
201 Professional" communication, litigation, or publication or reporting in the media) results in
202 stimulated reporting (i.e., increased reporting by primary sources regarding the AE/ADR).
203 Stimulated reports should be considered spontaneous reports.

204 Local or regional requirements may require HCPs to report AEs/ADRs not gathered as part of an
205 ODCS to regulatory authorities; these reports should also be managed as spontaneous reports.

206 **3.2 Solicited Reports**

207 Solicited reports are those derived from ODCSs (see Section 2.8, ODCS). For the purposes of
208 reporting, solicited ICSRs should be classified as “report from study” in ICH E2B format and
209 should have a causality assessment (see Section 5.1.1, AEs/ADRs).

210 **4 SOURCES OF INDIVIDUAL CASE SAFETY REPORTS**

211 **4.1 Communications by HCPs and Consumers**

212 Communications by HCPs and consumers are reports from an HCP or consumer to an MAH,
213 regulatory authority, or other organization (e.g., World Health Organization Uppsala Monitoring
214 Center, Regional Pharmacovigilance Center) that describes one or more AEs/ADRs. These
215 reports may be spontaneous or they may have been gathered as part of an ODCS. For the
216 purposes of ICSR reporting, if spontaneous, then the “Type of Report” in ICH E2B format
217 should be classified as “spontaneous report”. If gathered as part of an ODCS (i.e., solicited), then
218 the “Type of Report” in ICH E2B format should be classified as “report from study”.

219 **4.2 Literature**

220 Each MAH is encouraged, and in some regions required, to regularly monitor the worldwide
221 scientific literature for safety information concerning their products by conducting a search and
222 literature review using large reference databases with broad coverage. MAHs should follow local
223 and regional requirements regarding their obligations to perform literature screening and the
224 frequency of such screening.

225 MAHs should assess whether AEs/ADRs from scientific literature, including relevant published
226 abstracts from meetings and draft manuscripts, qualify for reporting. Whether or not AEs/ADRs
227 from literature are required to be reported as ICSRs depends on local and regional requirements.
228 Once a determination is made to submit a literature ICSR, follow the ICH E2B Guideline for
229 instructions on designating the “Type of Report”: if a case in the literature arises from
230 spontaneous observations, “Type of Report” in ICH E2B format should be classified as
231 “spontaneous report” if a case in the literature arises from a study, “Type of Report” in ICH E2B
232 format should be classified as “report from study”. In this context, spontaneous observations are
233 descriptions of AEs/ADRs in a patient or group of patients (i.e., individual case report or case
234 series) which the author(s) identified in their clinical experience. In contrast, literature cases
235 arising from a study are AEs/ADRs identified from publications where the author(s) gathered the

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236 cases only as part of an ODCS (for example, an author who plans and conducts a search of a
237 dataset for cases meeting pre-specified criteria). See Section 2.8, ODCS. If it is unclear from the
238 literature report whether or not the case(s) cited are spontaneous observations or whether they
239 arise from a study, then this item should be classified as “other”.

240 When submitting ICSRs from literature, an ICSR with relevant medical information should be
241 provided for each identifiable patient (see Section 6.1, Assessing Patient and Reporter
242 Identifiability). The literature reference should be included in the ICSR², and the first listed
243 author (or the corresponding author, if one is specified) should be given as the primary source;
244 information about co-authors does not need to be documented. Additionally, regulatory
245 authorities may request, and in some regions require, a copy of the article to accompany the
246 ICSR. MAHs are encouraged, and in some regions required, to include in their literature
247 screening scientific journals or other publications available in their local region or language.

248 MAHs may conduct literature searches themselves or use external services (i.e., third parties
249 acting on behalf of the MAH) to conduct literature searches. MAHs and/or the third parties
250 acting on their behalf should review the literature search results without undue delay to identify
251 AEs/ADRs. When required, follow-up activities should be initiated in a timely manner to collect
252 missing data on the minimum criteria for reporting and/or to obtain additional medically relevant
253 information (see Sections 2.2, ICSR, and 6.4, Follow-up Information). The regulatory time clock
254 for the reporting of ICSRs from the scientific literature starts (day zero) as soon as the MAH or
255 third party acting on their behalf identifies sufficient information to determine that the criteria for
256 ICSR reporting (i.e., the minimum criteria for reporting (refer to Section 2.2, ICSR, and 5.2,
257 Reporting Timeframes)) are met, and not necessarily on the date of the search. If follow-up is
258 required to determine that the criteria for ICSR reporting are met, then day zero is the date the
259 MAH receives sufficient follow-up information to determine that these criteria are met.

260 In some literature articles, a suspect product is identified by its active substance, and the product
261 source, brand, or trade name is not specified. Unless otherwise specified by regional
262 requirements, the MAH is not required to collect or submit ICSRs from literature if the MAH

² See ICH E2B for the standard format to be used for literature citations: citations should be provided in the style specified by the Vancouver Convention, known as “Vancouver style”, which has been developed by the International Committee of Medical Journal Editors. The conventional styles, including styles for special situations, can be found in the following reference: International Committee of Medical Journal Editors. Uniform requirements for manuscripts submitted to biomedical journals. N Engl J Med 1997; 336:309-15.

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263 can determine, based on the country, product name, active substance name, pharmaceutical form,
264 batch number, marketing status, or other characteristics, that the product is not the MAH's
265 product. If unable to make this determination, then the MAH should presume that the product is
266 the MAH's product and therefore should collect and report ICSRs as appropriate. The MAH
267 should indicate in their ICSRs that the specific brand was not identified.

268 Literature cases may differ from information from other sources, particularly concerning
269 causality, as authors may reference many events and many medicinal products, and the author
270 may not necessarily suspect the products to be causally related to the events described in the
271 article; MAHs should consider the relationship between products and events in this context. If an
272 author explicitly states in an article that an event is not associated with a medicinal product, or
273 the event occurred before the patient was exposed to the product, the MAHs should not submit it
274 as an ICSR.

275 If multiple products are mentioned in an article, an ICSR should be submitted by the MAH(s)
276 whose product(s) is/are suspected, by the article's author, to be associated with one or more
277 AEs/ADRs. (Note that more than one MAH may have suspect products, and thus each MAH
278 should submit ICSR(s), for a single article).

279 For regions where translations of a literature article are required to be submitted with the ICSR,
280 translation of the abstract or only pertinent sections of the article should be acceptable if it
281 captures all the relevant information for an ICSR, including at least the four minimum criteria for
282 reporting (see Section 2.2, ICSR), especially for long articles whose subject matter may be
283 largely outside the scope of the case(s) in question. The full translation of a publication should be
284 provided upon request by a regulatory authority. Unless specifically otherwise required,
285 translation into English is the accepted standard.

286 A publication may duplicate or provide follow-up to a report previously received by an MAH or
287 regulatory authority via other means (e.g., spontaneously). Duplicate detection and management
288 should be performed when articles are identified in scientific literature, to establish whether the
289 AE/ADR has previously been reported. The literature reference² should be adequately recorded in
290 the ICSR; this will help recipients of the ICSRs to detect possible duplicate reports when ICSRs
291 of the same case are reported by multiple MAHs (see Section 6.6, Duplicate Management). If the
292 article is referring to information that is in a pre-existing case, then the MAH should add the

293 publication's citation to the pre-existing case, along with additional relevant medical details, if
294 available, and report as a follow-up ICSR as appropriate. For reporting purposes, new information
295 from a literature source should be managed as with any other follow-up report.

296 See Section 4.6, Regulatory Authority Sources, regarding publications containing cases that the
297 authors obtained from a regulatory authority's publicly available National or Regional AE/ADR
298 database.

299 Literature which presents the results from non-interventional studies, meta-analyses, or
300 systematic literature reviews may be excluded from reporting as ICSRs depending on local and
301 regional requirements. For literature where the cases do not qualify for ICSR reporting, but
302 which represent new or significant safety findings, the MAH should consider including the
303 findings in the literature section of their next relevant periodic report, where applicable. MAHs
304 should also follow the advice in Section 5.1.2, Important Safety Findings, about communicating
305 safety findings to regulatory authorities.

306 **4.3 Digital Platforms**

307 A digital platform is the software and technology used to enable transmission of information
308 between users. Digital platforms include but are not limited to social media, websites, internet
309 forums, chat rooms, and software applications (apps).

310 A general distinction should be made between those digital platforms that are under the
311 responsibility of the MAH, and those that are not under the responsibility of the MAH.

312 ***4.3.1 Digital Platforms Under the Responsibility of the MAH***

313 The MAH is responsible for the content of, and communications made available via
314 digital platforms, that are owned, controlled, or operated by, or on behalf of, the MAH. A
315 donation (financial or other) by an MAH to an organization that owns the digital platform
316 does not necessarily mean that the MAH is responsible for the content of and
317 communications made available via that digital platform, provided that the MAH does
318 not control any content or communications made available via the digital platform.

319 MAHs should regularly screen digital platforms under their responsibility for AEs/ADRs.
320 The frequency of the screening should allow for the MAH to identify and report
321 AEs/ADRs within the required reporting timeline (see Section 5.2, Reporting

322 Timeframes). AEs/ADRs should be managed as spontaneous or solicited depending on
323 the context in which the MAH received the report: for example, AEs/ADRs
324 spontaneously reported by patients on any part of an MAH's product website should be
325 managed as spontaneous reports (see Section 3.1 Spontaneous Reports); and AEs/ADRs
326 identified from an ODCS conducted on a digital platform under the MAH's responsibility
327 should be considered solicited reports (see Section 3.2, Solicited Reports) and managed
328 according to the documentation describing the ODCS activity (see Section 2.8, ODCS).

329 **4.3.2 Digital Platforms Not Under the Responsibility of the MAH**

330 MAHs are not expected to screen or review digital platforms not under their
331 responsibility for AE(s)/ADR(s).

332 However, if an MAH screens or accesses data from a digital platform not under its
333 responsibility, and the MAH's activity is conducted in a planned manner consistent with
334 an organized data collection, the MAH should consider the activity to be an ODCS (see
335 Section 2.8, ODCS).

336 If accessing data on a digital platform in the context of an ODCS, the MAH should have
337 documentation in place as detailed in Section 2.8, ODCS. The source of the data
338 described in the ODCS documentation should specify the digital platform(s) being
339 accessed. The timeframe that the MAH will conduct the activity (including review of the
340 dataset) should also be specified in the documentation.

341 When accessing data from a digital platform not under its responsibility in the context of
342 an ODCS, an MAH is not expected to search for AEs/ADRs beyond conducting its
343 planned review of the dataset collected for the activity as detailed in its documentation. If
344 the MAH identifies AEs/ADRs during the course of the review, the AEs/ADRs should be
345 recorded, managed, assessed for causality and reported in accordance with the
346 requirements applicable for solicited reports (see Section 5.1.1, AEs/ADRs), or as
347 otherwise required by local or regional requirements.

348 The regulatory time clock for reporting starts (day zero) as soon as the MAH (or third
349 party acting on their behalf), when reviewing the accessed data, identifies an AE/ADR
350 and has sufficient information to determine that the criteria for reporting (i.e., the

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351 minimum criteria as defined in Section 2.2, ICSR) are met; day zero is not necessarily the
352 date the digital platform data was accessed. If follow-up is conducted, then day zero is
353 the date of receipt of follow-up information sufficient to determine that criteria for ICSR
354 reporting are met. See Section 5.2, Reporting Timeframes, for additional guidance on the
355 time clock for reporting.

356 If an AE/ADR collected from a digital platform in the context of an ODCS meets
357 reporting requirements to a regulatory authority, the “Study Type” data element in ICH
358 E2B should be used to reflect the origin of the report as “Digital Platform”. This
359 designation enables these ICSRs to be distinguished from ICSRs originating from studies
360 and other ODCS. Note: if the AE/ADR was collected in the context of a PSP or MRP,
361 then the “Study Type” data element in ICH E2B should be used to reflect the origin of
362 the report as PSP or MRP, as appropriate, instead of digital platform (see Sections 4.4,
363 PSP, and 4.5, MRP).

364 If an MAH becomes aware of AEs/ADRs on a digital platform not under the MAH’s
365 responsibility, and the MAH received the information outside of the context of an ODCS
366 (e.g., an MAH employee is viewing a website to identify possible answers/solutions to a
367 business question and sees an AE/ADR mentioned), the MAH is expected to review the
368 safety information and collect AEs/ADRs; although these cases are not direct
369 communications to the MAH, they should be managed as spontaneous reports unless
370 local or regional requirements indicate otherwise (see Section 5, Standards for Reporting,
371 for information on standards and timeline for reporting).

372
373 Note: see Section 4.6, Regulatory Authority Sources, regarding cases from regulatory
374 authorities’ National or Regional AE/ADR databases available to MAHs via the regulatory
375 authorities’ digital platforms.

376 4.4 Patient Support Programs (PSPs)

377 MAHs should review all information received in a PSP for AEs/ADRs. AEs/ADRs that the
378 MAH becomes aware of in the context of a PSP should be managed as solicited reports which
379 includes an appropriate causality assessment (see Section 5.1.1, AEs/ADRs), or as otherwise
380 required by local or regional requirements.

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381 For the setup and conduct of PSPs, MAHs should have documentation in place as detailed in
382 Section 2.8, ODCS.

383 PSPs vary in their nature and design. A single PSP may include a combination of activities such
384 as nurse support, chatrooms, and delivery services. Each of the individual activities in the
385 combined program may or may not meet the criteria of a PSP (see Section 2.9, PSP) on its own.
386 For example, a stand-alone service delivering product to a patient’s home would not meet the
387 criteria for a PSP (see Section 2.9, PSP). However, if a program includes delivery service
388 combined with another activity that does meet criteria of a PSP (such as a nurse helping to
389 administer a drug), then the combined program is considered a PSP. If any one or more of the
390 individual activities in the combined program do meet the PSP criteria, then AEs/ADRs received
391 from any part of the program should be managed as coming from a PSP (i.e., as solicited
392 reports).

393 If an AE/ADR from a PSP meets reporting requirements, the “Study Type” data element in ICH
394 E2B should be used to reflect the origin of the report as “PSP”. This enables ICSRs from PSPs to
395 be distinguished from those originating from studies and other ODCS. MAHs may conduct a
396 PSP using a digital platform; in this situation the ICH E2B data element value for “PSP” should
397 be selected.

398 AEs/ADRs arising from MAH activities that only allow one-way interactions (e.g., delivery
399 services, provision of vouchers or coupons) which are not part of an ODCS should be managed
400 as spontaneous reports. Such standalone activities, which are not part of a combined multi-
401 activity PSP, do not meet criteria for a PSP (i.e., do not have a mechanism for two-way
402 interactions). When MAHs use third-party service providers to conduct part of or all of a PSP,
403 the MAH should have contractual arrangements in place to ensure that those third-party service
404 providers report AEs/ADRs to the MAH.

405 **4.5 Market Research Programs (MRPs)**

406 MAHs should review all information received in an MRP for AEs/ADRs. Any AEs/ADRs that
407 the MAH becomes aware of in the context of an MRP should be managed as solicited reports,
408 which includes an appropriate causality assessment (see Section 5.1.1, AEs/ADRs), or as
409 otherwise required by local or regional requirements.

410 For the setup and conduct of MRPs, MAHs should have documentation in place as detailed in
411 Section 2.8, ODCS.

412 If an AE/ADR meets reporting requirements, the “Study Type” data element in ICH E2B should
413 be used to reflect the origin of the report as “MRP”. This enables ICSRs from MRPs to be
414 distinguished from those originating from studies and other ODCS. MAHs may conduct an
415 MRP using a digital platform; in this situation the ICH E2B data element value for “MRP”
416 should be selected.

417 **4.6 Regulatory Authority Sources**

418 Cases originating from a regulatory authority are subject to reporting to other regulatory
419 authorities (according to local and regional requirements) by each MAH.

420 Cases from available National or Regional AE/ADR databases owned or operated by a regulator
421 may be obtained by the MAH (either directly or via literature articles). MAHs should cross-
422 reference to the source reports by including the regulator’s case ID number, if available to the
423 MAH, in the appropriate ICH E2B data element.

424 Re-submission of ICSRs to the originating regulatory authority is not required unless otherwise
425 specified by local or regional requirements, or unless the MAH has obtained or received new
426 information about the case from a primary source.

427 **4.7 Other Sources**

428 If an MAH becomes aware of an AE/ADR from non-medical sources, e.g., the lay press or other
429 media, although not a direct communication to the MAH, it should be managed as a spontaneous
430 report unless local or regional requirements indicate otherwise. Reports received by the MAH as
431 a result of litigation should also be managed as spontaneous reports.

432 **5 STANDARDS FOR REPORTING**

433 **5.1 What Should Be Reported?**

434 **5.1.1 AEs/ADRs**

435 Cases of AEs/ADRs that are both serious and unexpected are subject to expedited reporting.
436 The reporting of serious expected AEs/ADRs in an expedited manner varies according to
437 local or regional requirements. Non-serious AEs/ADRs, whether expected or not, would
438 normally not be subject to *expedited* reporting but may be reportable as ICSRs per local or

439 regional requirements and timelines.

440 For purposes of reporting, spontaneous reports imply a suspected causal relationship (see
441 Section 2.1.2, ADR).

442 For purposes of reporting, solicited reports are classified as “report from study” in ICH E2B
443 and should have a causality assessment; solicited reports should only be submitted if a
444 causal relationship between a medicinal product and an adverse event is at least a reasonable
445 possibility, as assessed by either the reporter or the MAH.

446 Cases that contain only an outcome (e.g., death/hospitalization) may be subject to reporting
447 per local or regional requirements.

448 ***5.1.2 Important Safety Findings***

449 Safety findings which do not qualify for ICSR reporting and which may lead to changes in
450 the known risk-benefit balance of a medicinal product and/or impact on public health should
451 be communicated as soon as possible to the regulatory authorities in accordance with local
452 or regional requirements. Examples include any significant unanticipated safety findings
453 from an in vitro, animal, epidemiological, or clinical study that suggest a significant human
454 risk, such as evidence of mutagenicity, teratogenicity, carcinogenicity, or immunogenicity
455 or increased mortality.

456 ***5.1.3 Other Observations***

457 It is recognized that an MAH may become aware of certain observations as detailed below
458 related to the use of a product that may or may not be associated with an AE/ADR. These
459 cases should be recorded by the MAH and followed up to obtain information needed for
460 evaluation of the case.

461 Such observations in the absence of an AE/ADR should only be reported as an ICSR if
462 required by local or regional regulations, guidelines, or other regulatory authority conditions
463 and should be discussed in the periodic report according to the ICH E2C guidelines where
464 applicable.

465 ***5.1.3.1 Lack of Efficacy***

466 Reports of lack of efficacy occurring independently (i.e., with no associated AE/ADR)
467 should only be reported as ICSRs if required by local or regional regulations, guidelines, or

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468 other regulatory authority conditions. Note that in some countries lack of efficacy may be
469 considered an AE/ADR itself, depending on local or regional requirements. Products used in
470 critical conditions or for the treatment of life-threatening diseases, vaccines, and
471 contraceptives are examples of classes of medicinal products where lack of efficacy with no
472 AE/ADR may be subject to ICSR reporting according to local or regional requirements.
473 MAHs should apply judgment when determining if a case report represents a lack of
474 efficacy with consideration of the local product labeling. Reports associated with AEs/ADRs
475 are subject to ICSR reporting requirements.

5.1.3.2 Overdose, Abuse, Misuse, Medication Error, and Occupational Exposure

477 Reports associated with overdose, abuse, misuse, medication error, or occupational
478 exposure, with no associated AE/ADR should only be reported as ICSRs if required by local
479 or regional regulations, guidelines, or other regulatory authority conditions. MAHs should
480 apply judgment when determining if a case represents overdose, abuse, misuse, medication
481 error or occupational exposure with consideration of the local product labeling and
482 indication. Reports associated with AEs/ADRs *are* subject to ICSR reporting requirements.

5.1.3.3 Use of Medicinal Products in Pregnancy/Lactation

484 Reports of exposure through a parent, such as the use of medicinal products in pregnancy or
485 breastfeeding, with no associated AE/ADR in either the parent or the child should only be
486 reported as ICSRs if required by local or regional regulations, guidelines, or other regulatory
487 authority conditions. AEs/ADRs, such as abnormal outcome following parental exposure,
488 including congenital anomalies, potential epigenetic responses, developmental disorders in
489 the fetus or child, fetal death/spontaneous abortion, or AEs/ADRs in the mother or new-
490 born, are subject to ICSR reporting requirements.

5.1.3.4 Off-label Use

492 Reports of intentional use of a product not in accordance with the terms of the marketing
493 authorization with no associated AE/ADR should only be reported as ICSRs if required by local
494 or regional regulations, guidelines, or other regulatory authority conditions. MAH should apply
495 judgment when determining if a case report represents off-label use with consideration of the
496 local product labeling. Reports associated with AEs/ADRs are subject to ICSR reporting
497 requirements.

498 **5.2 Reporting Timeframes**

499 In general, ICSRs that fulfill local or regional criteria for expedited reporting (see Section 5.1,
500 What Should Be Reported?) should be submitted as soon as possible, but not later than 15
501 calendar days after day zero (see below). Timeframes for reporting AEs/ADRs that are
502 reportable as ICSRs, but which do not meet local criteria for expedited reporting, including non-
503 serious AEs/ADRs, may vary according to local or regional requirements and may be subject to
504 non-expedited (greater than 15 calendar days) timelines.

505 The regulatory reporting time clock is considered to start on the date when any personnel of the
506 MAH (including third parties, such as service providers and contractual partners, acting on
507 behalf of the MAH) obtains sufficient information to determine that a case report fulfills the
508 minimum criteria for reporting (see Section 2.2, ICSR). This date should be considered day zero
509 unless otherwise specified by local or regional requirements. Refer to Sections 4.2 and 4.3 for
510 specific information regarding day zero for case reports from literature and digital platforms.

511 When additional medically relevant information is received for a previously reported case, the
512 reporting time clock is considered to begin again for submission of the follow-up report, as such
513 day zero for follow-up information is the date the MAH receives the additional information. In
514 addition, a case initially classified as a non-expedited report, would qualify for expedited
515 reporting upon receipt of follow-up information that indicates the case should be re-classified
516 (e.g., from non-serious to serious), and day zero is the date of receipt of the follow-up
517 information.

518 When submitting an amendment to a previously submitted report (i.e., a correction based on
519 MAH internal quality review) with no receipt of additional information, a new clock start date
520 (day zero) should not be assigned.

521 **6 GOOD CASE MANAGEMENT PRACTICES**

522 Accurate, complete, and authentic information is important for MAHs and regulatory agencies
523 identifying and assessing AE/ADR reports. Both are faced with the task of acquiring sufficient
524 information to help ensure that the reports are authentic, accurate, as complete as possible, and
525 non-duplicative.

526 MAHs should follow local and regional requirements for the protection of personal data privacy

527 including patients, reporters, HCPs, and others, when transmitting or re-transmitting information
528 in ICSRs.

529 The ICSR should include the verbatim terms as used by the reporter, or an accurate translation.
530 Any MAH personnel receiving information about a case should provide an unbiased and
531 unfiltered report of the information from the reporter. While the recipient of the information is
532 encouraged to actively query the reporter to elicit the most complete account possible, inferences
533 and imputations should be avoided in report submission. However, clearly identified evaluations
534 by the MAH are considered appropriate and are required by some regulatory authorities, and
535 they should be recorded in the relevant ICH E2B data elements.

536 When information is received from a consumer, their description of the event should be retained.
537 The MAH should request and include follow-up information from the consumer or relevant
538 HCPs as needed, seeking consent where necessary.

539 **6.1 Assessing Patient and Reporter Identifiability**

540 Patient and reporter identifiability is important to avoid case duplication, ensure authenticity, and
541 facilitate follow-up of appropriate cases. The term identifiable in this context refers to the
542 verification of the existence of a patient and a reporter (i.e., a primary source; see Section 2.4,
543 Primary Source). Second-hand reports (i.e., situations where an individual notifies the MAH of
544 an AE/ADR but does not have first-hand knowledge about the event), are considered incomplete
545 and, where permissible and feasible, attempts should be made to verify the existence of an
546 identifiable patient and reporter.

547 One or more of the following should automatically qualify a patient as identifiable: age (or age
548 category, e.g., adolescent, adult, elderly), gestational age, sex, initials, date of birth, name, or
549 patient identification number.

550 Examples of characteristics that qualify a reporter as identifiable include but are not limited to:
551 name, initials, or address (e.g., reporter's organization, department, street, city, state or province,
552 postcode, country, email, phone number), qualification (e.g., healthcare professional, lawyer,
553 consumer or other non-healthcare professional). For cases where the reporter wishes to remain
554 anonymous, the ICSR should still be reported, as long as the existence of an individual as the
555 reporter is known.

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556 In the absence of qualifying descriptors, a report referring to a definite number of patients should
557 not be regarded as a case until the four minimum criteria for reporting are met. For example,
558 “Twenty patients experienced...” or “a few patients experienced” should be followed up for
559 patient-identifiable information before creating an ICSR. To qualify for ICSR reporting it should
560 be possible to associate an AE/ADR or AEs/ADRs with a specific identifiable patient.

561 In relation to cases from digital platforms, the identifiability of the reporter/patient refers to the
562 existence of a real person (i.e., where permissible and feasible, attempts can be made to verify
563 that the patient and the reporter exist). The presence of a digital platform username or identifier
564 (i.e., “handle”) in the absence of qualifying identifiers is insufficient to confirm that there is a
565 real patient and/or reporter. In addition, MAHs should only consider the person providing the
566 information to qualify as a reporter if the person experienced the event or has first-hand
567 information about it. Where follow-up is feasible, MAHs should attempt to obtain evidence of
568 the existence of a real patient and reporter (e.g., via requesting at least one identifiable
569 characteristic such as sex, age, or age category).

570 **6.2 The Role of Narratives**

571 The objective of the narrative is to summarize all relevant clinical and related information,
572 including patient characteristics, therapy details, medical history, concurrent conditions, clinical
573 course of the event(s), AE(s)/ADR(s) including the outcome, diagnosis, laboratory evidence
574 (including normal ranges), and any other information that supports or refutes an AE/ADR. The
575 narrative should serve as a comprehensive, stand-alone “medical story”. The information should
576 be presented in a logical time sequence; ideally this should be presented in the chronology of the
577 patient’s experience, rather than in the chronology in which the information was received. In
578 follow-up reports, new information should be clearly identified.

579 Abbreviations and acronyms should be avoided, with the possible exception of laboratory
580 parameters and units. Key information from supplementary records should be included in the
581 report, and its availability should be mentioned in the narrative and appropriate ICH E2B data
582 element and supplied on request. Any relevant autopsy or pathologic findings should also be
583 summarized in the narrative and related documents should be provided according to local or
584 regional requirements and where permitted by local data privacy laws.

585 Terms (e.g., AEs/ADRs, indication, and medical conditions) in the narrative should be accurately

586 reflected in appropriate ICH E2B data elements.

587 **6.3 Clinical Case Evaluation**

588 The purpose of careful medical review is to ensure correct interpretation of medical information.

589 If possible, information about the case should be collected from the HCPs who are directly

590 involved in the patient's care. Regardless of the source of an AE/ADR report, the initial recipient

591 should carefully review the report for the accuracy and completeness of the medical information.

592 The review should include, but is not limited to, the following considerations:

593 • Are the AE(s)/ADR(s) serious (according to the criteria in Section 2.1.3, Serious
594 AE/ADR)?

595 • Is a diagnosis possible from the AE(s)/ADR(s) and is it supported by evidence?

596 • Have the relevant diagnostic procedures been performed?

597 • Were alternative causes and/or confounding factors for the AE(s)/ADR(s) considered?

598 • Is there information regarding a temporal association between the medicinal product and
599 the AE(s)/ADR(s), and information on the outcome?

600 • What additional information is needed?

601 **6.1 Follow-up Information**

602 Initial AE/ADR reports may not have sufficient information for clinical case evaluation, and

603 efforts should be made to seek additional information on reports, including AE(s)/ADR(s) that

604 were reported second-hand (i.e., cases where the reporter is aware of an AE/ADR, but does not

605 have first-hand knowledge of relevant information about the event).

606 To optimize the value of follow-up, the first consideration should be prioritization of case reports

607 by importance. Highest priority for follow-up are cases which are both serious and unexpected.

608 At a slightly lower priority are serious, expected, and non-serious, unexpected cases. However,

609 in addition to seriousness and expectedness as criteria, cases "of special interest" (e.g.,

610 AEs/ADRs under enhanced monitoring at the request of regulatory authorities) also deserve

611 extra attention.

612 All requests/attempts for follow-up information should be documented. The MAH should

613 provide specific questions it would like to have answered. Follow-up methods should be tailored

614 towards optimizing the collection of missing information.

615 To facilitate the capture of clinically relevant and complete information, use of a targeted
616 questionnaire/specific form is encouraged, preferably at the time of the initial report. Individuals
617 with the appropriate level of pharmacovigilance training and therapeutic expertise should be
618 involved in the follow-up of received cases. For serious AEs/ADRs, it is important to continue
619 follow-up and report new information until the outcome has been established or the patient's
620 condition is stabilized.

621 It is important that at the time of the original report, sufficient details about the patient and
622 reporter be collected and retained to enable follow-up, within the constraints imposed by local
623 data privacy laws. In relation to cases from digital platform not under the responsibility of the
624 MAH, MAHs should exercise caution prior to conducting follow-up of any message marked as
625 private, as this may constitute a breach of consent depending on local and regional privacy
626 regulations.

627 **6.4.1 Other Observations**

628 As per Section 5.1.3, Other Observations, reports of other observations (without an AE),
629 should also be followed up to obtain complete information, and to ascertain if an AE/ADR
630 has occurred.

631 **6.4.1.1 Overdose, Abuse, Misuse, Medication Error and Occupational Exposure**

632 Reports should be followed up to ensure that the information is as complete as possible with
633 regard to suspected drug(s) and the context of occurrence.

634 **6.4.1.2 Use of Medicinal Products in Pregnancy/Lactation**

635 MAHs are expected to follow-up all pregnancy reports from HCPs or consumers where the
636 embryo/fetus could have been exposed (through maternal or paternal exposure) to one of its
637 medicinal products. When an active substance, or one of its metabolites, has a long half-life,
638 this should be taken into account when considering whether a fetus could have been exposed
639 (e.g., if medicinal products taken before the gestational period commenced should be
640 considered). MAHs should collect information on the outcome of the pregnancy, health of
641 the new-born, and, where appropriate (for example, per a regulatory authority condition),
642 development of the child. Consideration should be given as to whether the product is

643 specifically indicated for use during pregnancy.

644 **6.5 Contractual Agreements**

645 The marketing of many medicines takes place through contractual agreements between two or
646 more companies, which may market one or more products with the same active substance name
647 in the same or different countries/regions. Pharmacovigilance arrangements vary considerably
648 with respect to inter-company information exchange and regulatory responsibilities.

649 It is important that agreements specify the management and reporting of ICSRs (i.e., processes
650 for exchange of safety information, including timelines and regulatory reporting responsibilities)
651 in accordance with local and regional requirements. Processes should be in place to identify
652 responsibilities, as applicable, and avoid duplicate reporting to regulatory authorities (e.g.,
653 clearly assigning responsibility for literature monitoring and ICSR reporting (including from
654 regulatory authority sources)).

655 Whatever the nature of the arrangement, the MAH is ultimately responsible for reporting within
656 the required timelines; therefore the contractual partners should minimize the data exchange
657 period to enable compliance with MAH responsibilities (see Section 5.2, Reporting
658 Timeframes).

659 **6.6 Duplicate Management**

660 Detection and handling of duplicate reports is an important element of good case management.
661 Regulatory Authorities and MAHs should consider and manage duplicates when reviewing
662 pharmacovigilance data, as duplicates negatively impact signal detection.

663 Examples of common causes of duplicate reports are:

- 664 • A consumer and HCP reporting the same AE/ADR or other observation;
- 665 • Multiple HCPs treating the same patient reporting the same AE/ADR or other
666 observation;
- 667 • An AE/ADR or other observation being reported by the original reporter to both the
668 MAH and the regulator;
- 669 • Literature reporting of the same AE/ADR or other observations by multiple MAHs.

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671 MAHs may use duplicate management strategies that are most suitable for their individual
672 situation. ICH E2B supports specific actions to be taken upon detection of duplicates (i.e.,
673 population of ICH E2B data elements with other case identification numbers by which the case is
674 known and submission of nullification/amendment reports as applicable).

675 Duplicate detection relies on good quality data and is generally based on similarities but should
676 take into account that information in ICSRs may differ between reporters.

677 **6.7 How to Report**

678 ICSRs should be transmitted electronically using the ICH E2B format, according to the ICH E2B
679 guidelines. In countries/regions where ICH E2B has yet to be implemented, other formats (e.g.,
680 CIOMS I) may be used. ICH E2B uses the Medical Dictionary for Regulatory Activities
681 (MedDRA, ICH M1) for coding medical information.