



REPUBLIC OF LEBANON  
MINISTRY OF PUBLIC HEALTH



# Lebanese Guideline on Good Pharmacovigilance

## Practices (LGP)

### Module IV

#### Pharmacovigilance Audits

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## IV.A. Introduction

For the purposes of this module, reference to pharmacovigilance audit(s) and pharmacovigilance audit activity(ies) are deemed to include pharmacovigilance system audits and audit(s) of the quality system for pharmacovigilance activities.

The overall description and objectives of pharmacovigilance systems and quality systems for pharmacovigilance activities are referred to in Module I, while the specific pharmacovigilance processes are described in each respective Module of the LGVP.

In this Module, all applicable legal requirements are referenced by the modal verb "shall". Guidance for the implementation of legal requirements is provided using the modal verb "should".

This Module provides guidance on planning and conducting the legally required audits, the role, context, and management of pharmacovigilance audit activity. This Module is intended to facilitate the performance of pharmacovigilance audits, especially to promote harmonization and encourage consistency and simplification of the audit process. The principles in this Module are aligned with internationally accepted auditing standards, issued by relevant international auditing standardization organizations<sup>1</sup> and support a risk-based approach to pharmacovigilance audits.

### IV.A.1. Terminology

Audit: A systematic, disciplined, independent, and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which the audit criteria are fulfilled (see ISO 19011 (3.1)<sup>1</sup>).

Auditee: [entity] being audited (ISO 19011 (3.7)<sup>1</sup>

Audit finding(s): Results of the evaluation of the collected audit evidence against audit criteria (see ISO19011 (3.4)<sup>2</sup>). Audit evidence is necessary to support the auditors' evaluation results, i.e., the auditor's

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<sup>1</sup> For more details regarding ; the International Organization for Standardization (ISO) see [www.iso.org](http://www.iso.org) ; Information Systems Audit and Control Association (ISACA) see [www.isaca.org](http://www.isaca.org) ; The International Auditing and Assurance Standards Board (IAASB) see [www.ifac.org](http://www.ifac.org) ; The International Organization of Supreme Audit Institutions (INTOSAI) see [www.issai.org](http://www.issai.org) .

<sup>2</sup> See International Organization for Standardization (ISO) see [www.iso.org](http://www.iso.org)

25 opinion and report. It is cumulative in nature and is primarily obtained from audit procedures performed  
26 during the course of the audit. See also Audit

27 Auditors' independence: The freedom from conditions that threaten objectivity or the appearance of  
28 objectivity. Such threats to objectivity must be managed at the individual auditor, engagement, functional,  
29 and organizational levels (IIA International Standards for the Professional Practice of Internal Auditing<sup>3</sup>).

30 Auditors' objectivity: An unbiased mental attitude that allows internal auditors to perform engagements  
31 in such a manner that they have an honest belief in their work product and that no significant quality  
32 compromises are made. Objectivity requires internal auditors not to subordinate their judgment on audit  
33 matters to that of others (IIA International Standards for the Professional Practice of Internal Auditing<sup>3</sup>).

34 Audit plan: Description of activities and arrangement for an individual audit (see ISO19011 (3.12)<sup>2</sup>). See  
35 also Audit

36 Audit program: Set of one or more audits planned for a specific timeframe and directed towards a specific  
37 purpose (see ISO 19011 (3.11)<sup>2</sup>). See also Audit

38 Audit recommendation: Describes the course of action management might consider to rectify conditions  
39 that have gone awry and to mitigate weaknesses in systems of management control (see Sawyer LB et al,  
40 2003)<sup>3</sup>). Audit recommendations should be positive and as specific as possible. They should also identify  
41 who is to act on them (Sawyer LB et al, (2003)<sup>4</sup>). See also Audit

42 Compliance: Conformity and adherence to policies, plans, procedures, laws, regulations, contracts, or  
43 other requirements (IIA International Standards for the Professional Practice of Internal Auditing<sup>3</sup>).

44 Control(s): Any action taken by management and other parties to manage risk and increase the likelihood  
45 that established objectives and goals will be achieved. Management plans, organizes, and directs the  
46 performance of sufficient actions to provide reasonable assurance that objectives and goals will be  
47 achieved (IIA International Standards for the Professional Practice of Internal Auditing<sup>3</sup>).

48 Evaluation (of audit activities): Professional auditing bodies promote compliance with standards, including  
49 quality assurance of their own activities, and codes of conduct, which can be used to address adequate

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<sup>3</sup> See The Institute of Internal Auditors (IIA), [www.theiia.org](http://www.theiia.org)

<sup>4</sup> Sawyer LB, Dittenhofer MA. Sawyer's Internal Auditing. 5th ed. Altamonte Springs, FL: The IIA Research Foundation; 2003.

50 fulfilment of the organization's basic expectations of Internal Audit activity and its conformity to  
51 internationally accepted auditing standards.

52 Head of the organization: see Upper management

53 Internal Control: Internal control is an integral process that is achieved by an entity's management and  
54 personnel and is designed to address risk and provide reasonable assurance that in pursuit of the entity's  
55 mission, the following general objectives are being achieved: executing orderly, ethical, economical,  
56 efficient and effective operations, fulfilling accountability obligations, complying with applicable laws and  
57 regulations and safeguarding resources against loss, misuse and damage (for further information refer to  
58 **Committee of Sponsoring Organizations (COSO) standards**<sup>5</sup>).

59 International Auditing Standards: issued by International Auditing Standardization Organizations.

60 International Auditing Standardization Organizations: More details regarding: **The Institute of Internal  
61 Auditors (IIA)** standards can be found at [http://www.theiia.org/guidance/standards-and-  
guidance/ippf/standards/full-standards](http://www.theiia.org/guidance/standards-and-<br/>62 guidance/ippf/standards/full-standards); The **International Organization for Standardization (ISO)**  
63 standard 19011 —Guidelines for quality and/or environmental management systems auditing.  
64 <http://www.iso.org/iso/home.html>; **Information Systems Audit and Control Association (ISACA)**  
65 standards can be found at <http://www.isaca.org/Standards>;

66 **The International Auditing and Assurance Standards Board (IAASB)** standards can be found at  
67 <http://www.ifac.org/auditing-assurance/clarity-center/clarified-standards>;

68 **The International Organization of Supreme Audit Institutions (INTOSAI)** can be found at  
69 <http://www.issai.org/composite-347.htm>.

70 Upper management: A group of persons in charge of the highest executive management of an  
71 organization. Membership of this group is determined by the governance structure of the organization.  
72 While it is envisaged that the upper management usually is a group, the head of the organization is the  
73 one person at the top of the organization with ultimate responsibility for ensuring that the organization  
74 complies with relevant legislation.

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<sup>5</sup> See **Committee of Sponsoring Organizations (COSO)**, [www.coso.org](http://www.coso.org)

## 76 **IV.B. Structures and processes**

77  
78 The structures and the processes of pharmacovigilance audits in Lebanon has to be implemented following  
79 the Good Pharmacovigilance Practice (GVP) for Lebanon. This module explains multiple items that shall  
80 be considered in audit implementation such as: PV audit and its objectives, the risk-based approach to PV  
81 audits, and quality system and record management practices.

82  
83 **IV.B.1. Pharmacovigilance audit and its objective**  
84 Pharmacovigilance audit activities should verify, by examination and evaluation of objective evidence, the  
85 appropriateness and effectiveness of the implementation and operation of a pharmacovigilance system,  
86 including its quality system for pharmacovigilance activities.

87 In general, an audit is a systematic, disciplined, independent, and documented process for obtaining  
88 evidence and evaluating the evidence objectively to determine the extent to which the audit criteria are  
89 fulfilled, contributing to the improvement of risk management, control, and governance processes<sup>6,7</sup>.  
90 Audit evidence consists of records, statements, or other information that are relevant to the audit criteria  
91 and are verifiable. Audit criteria are, for each audit objective, the standards of performance and control  
92 against which the auditee and its activities will be assessed. In the context of pharmacovigilance, audit  
93 criteria should reflect the requirements for the pharmacovigilance system, including its quality system for  
94 pharmacovigilance activities, as found in the legislation and guidance.

95  
96 **IV.B.2. The risk-based approach to pharmacovigilance audits**  
97 A risk-based approach is one that uses techniques to determine the areas of risk, where risk is defined as  
98 the probability of an event occurring that will have an impact on the achievement of objectives, taking  
99 account of the severity of its outcome and/or likelihood of non-detection by other methods. The risk-

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<sup>6</sup> Benchmarking, reviews of qualifications, risk assessment questionnaires, surveys, or other activities in which evidence of fulfilment of pharmacovigilance requirements is not independently obtained and evaluated, would not be regarded as an audit

<sup>7</sup> EU GVP annex 1 definitions referencing the ISO 19011 for the definition: <https://www.iso.org/obp/ui/#iso:std:iso:19011:ed-3:v1:en>

100 based approach to audits focuses on the areas of highest risk to the organization's pharmacovigilance  
101 system, including its quality system for pharmacovigilance activities. In the context of pharmacovigilance,  
102 the risk to public health is of prime importance. Risk can be assessed at the following stages:

103     ● strategic level audit planning resulting in an audit strategy (long-term approach), which should be  
104         endorsed by upper management;

105     ● tactical level audit planning resulting in an audit program, setting audit objectives, and the extent  
106         and boundaries, often termed as scope, of the audits in that program; and

107     ● operational level audit planning resulting in an audit plan for individual audit engagements,  
108         prioritizing audit tasks based on risk and utilizing risk-based sampling and testing approaches, and  
109         reporting of audit findings in line with their relative risk level and audit recommendations in line with  
110         the suggested grading system [see IV.B.2.3.2.]

111 Risk assessment should be documented appropriately for the strategic, tactical, and operational planning  
112 of pharmacovigilance audit activity in the organization (see IV.B.2.1., IV.B.2.2. and IV.B.2.3. respectively).

113

#### 114 **IV.B.2.1. Strategic level audit planning**

115 The audit strategy is a high-level statement of how the audit activities will be delivered over a period of  
116 time, longer than the annual program, usually for a period of 2-5 years. The audit strategy includes a list  
117 of audits that could reasonably be performed. The audit strategy is used to outline the areas highlighted  
118 for audit, the audit topics as well as the methods and assumptions (including e.g. risk assessment) on  
119 which the audit program is based.

120 The audit strategy should cover the governance, risk management, and internal controls of all parts of the  
121 pharmacovigilance system including:

122     ● all pharmacovigilance processes and tasks;

123     ● the quality system for pharmacovigilance activities;

124     ● interactions and interfaces with other departments, as appropriate; and

125 • pharmacovigilance activities conducted by affiliated organizations or activities delegated to another  
126 organization (e.g. regional reporting centers, MAH affiliates, or service providers, such as contract  
127 organizations and other vendors).

128 This is a non-prioritized, non-exhaustive list of examples of risk factors that could be considered for a risk  
129 assessment:

- 130 • changes to legislation and guidance;
- 131 • major re-organization or other re-structuring of the pharmacovigilance system, mergers, acquisitions  
132 (specifically for marketing authorization holders, this may lead to a significant increase in the  
133 number of products for which the system is used);
- 134 • change in key managerial function(s);
- 135 • risk to the availability of adequately trained and experienced pharmacovigilance staff, e.g., due to  
136 significant turnover of staff, deficiencies in training processes, re-organization, and increase in  
137 volumes of work;
- 138 • significant changes to the system since the time of a previous audit, e.g., introduction of a new  
139 database(s) for pharmacovigilance activities or of a significant upgrade to the existing database(s),  
140 changes to processes and activities to address new or amended regulatory requirements;
- 141 • first medicinal product on the market (for a marketing authorization holder);
- 142 • medicinal product(s) on the market with specific risk minimization measures or other specific safety  
143 conditions, such as requirements for additional monitoring;
- 144 • criticality of the process, e.g.:
  - 145 ○ for national competent authorities: how critical is the area/process to the proper functioning of  
146 the pharmacovigilance system and the overall objective of safeguarding public health;
  - 147 ○ for marketing authorization holders: how critical is the area/process to the proper functioning of  
148 the pharmacovigilance system. When deciding when to audit an affiliate or service provider, the  
149 marketing authorization holder should consider the nature and criticality of the  
150 pharmacovigilance activities that are being performed by an affiliate or service provider on behalf  
151 of the marketing authorization holder, in addition to considering the other factors included in this  
152 list;
- 153 • outcome of previous audits, e.g., has the area/process ever been audited (if not, then this may need to  
154 be prioritized depending on criticality); if the area/process has previously been audited, the audit

155 findings are a factor to consider when deciding when to re-audit the area/process, including the  
156 implementation of agreed actions;

157 • identified procedural gaps relating to specific areas/processes;

158 • other information relating to compliance with legislation and guidance, for example:

159 - for national competent authorities: information from compliance metrics of complaints, and from  
160 external sources (e.g., audits/assessments of the national competent authority that may be  
161 conducted by external bodies);

162 - for marketing authorization holders: information from compliance metrics of inspections (see  
163 Module III), from complaints, and from other external sources (e.g., audits);

164 • other organizational changes that could negatively impact on the area/process, e.g., if a change occurs  
165 to a support function (such as information technology support), this could negatively impact upon  
166 pharmacovigilance activities.

167

#### 168 **IV.B.2.2. Tactical level audit planning**

169 An audit program is a set of one or more audits planned for a specific timeframe, normally for a year. It  
170 should be prepared in line with the long-term audit strategy. The audit program should be approved by  
171 upper management with overall responsibility for the operational and governance structure.

172 The risk-based audit program should be based on an appropriate risk assessment and should focus on:

173 • the quality system for pharmacovigilance activities;

174 • critical pharmacovigilance processes (see, for example, Module I);

175 • key control systems relied on for pharmacovigilance activities;

176 • areas identified as high risk, after controls have been put in place or mitigating action taken.

177 The risk-based audit program should also take into account historical areas with insufficient past audit  
178 coverage and the high-risk regions identified by and/or specific requests from management and/or  
179 persons responsible for pharmacovigilance activities.

180 The audit program documentation should include a brief description of the plan for each audit to be  
181 delivered, including an outline of the scope and objectives.

182 The rationale for the timing, periodicity, and scope of the individual audits that form part of the audit  
183 program should be based on the documented risk assessment. However, risk-based pharmacovigilance  
184 audit(s) should be performed at regular intervals, which are in line with national legislative requirements.  
185 Changes to the audit program may happen and will require proper documentation.

186

#### 187 **IV.B.2.3. Operational level audit planning and reporting**

##### 188 *IV.B.2.3.1. Planning and fieldwork*

189 The organization should ensure that written procedures are in place regarding the planning and conduct  
190 of individual audits that will be delivered. Timeframes for all the steps required for the performance of an  
191 individual audit should be settled in the relevant audit-related procedures, and the organization should  
192 ensure that audits are conducted per the written procedures, in line with this GVP Module.

193 Individual pharmacovigilance audits should be undertaken in line with the approved risk-based audit  
194 program (see IV.B.2.2). When planning individual audits, the auditor identifies and assesses the risks  
195 relevant to the area under review and employs the most appropriate risk-based sampling and testing  
196 methods, documenting the audit approach in an audit plan.

197

##### 198 *IV.B.2.3.2. Reporting*

199 The findings of the auditors should be documented in an audit report and should be communicated to  
200 management in a timely manner. The audit process should include mechanisms for communicating the  
201 audit findings to the auditee and receiving feedback, and reporting the audit findings to management and  
202 relevant parties, including those responsible for pharmacovigilance systems, in accordance with legal  
203 requirements and guidance on pharmacovigilance audits. Audit findings should be reported in line with  
204 their relative risk level and should be graded to indicate their relative criticality to risks impacting the  
205 pharmacovigilance system, processes, and parts of processes. The grading system should be defined in  
206 the description of the quality system for pharmacovigilance, and should take into consideration the  
207 thresholds noted below, which would be used in further reporting under the legislation as set out in  
208 section IV.C.2:

209       • **critical** is a fundamental weakness in one or more pharmacovigilance processes or practices  
210            that adversely affects the whole pharmacovigilance system and/or the rights, safety, or well-

211 being of patients, or that poses a potential risk to public health and/or represents a serious  
212 violation of applicable regulatory requirements.

213 • **major** is a significant weakness in one or more pharmacovigilance processes or practices,  
214 or a fundamental weakness in part of one or more pharmacovigilance processes or practices  
215 that is detrimental to the whole process and/or could potentially adversely affect the rights,  
216 safety or well-being of patients and/or could potentially pose a risk to public health and/or  
217 represents a violation of applicable regulatory requirements which is however not  
218 considered serious.

219 • **minor** is a weakness in the part of one or more pharmacovigilance processes or practices  
220 that is not expected to adversely affect the whole pharmacovigilance system or process  
221 and/or the rights, safety or well-being of patients.

222 Issues that need to be urgently addressed should be communicated in an expedited manner to the auditee  
223 management and the upper management.

224

#### 225 **IV.B.2.4. Actions based on audit outcomes and follow-up of audits**

226 Actions referenced in this section of the guideline, i.e., immediate action, prompt action, action within a  
227 reasonable timeframe, issues that need to be urgently addressed, or communicated in an expedited  
228 manner, are intended to convey timelines that are appropriate, relevant, and in line with the relative risk  
229 to the pharmacovigilance system. Corrective and preventive actions to address critical and major issues  
230 should be prioritized. The precise timeframe for action(s) related to a given critical finding, for example,  
231 may differ depending on the nature of the findings and the planned action(s).

232 The management of the organization is responsible for ensuring that the organization has a mechanism in  
233 place to adequately address the issues arising from pharmacovigilance audits. Actions should include root  
234 cause analysis and impact analysis of identified audit findings and preparation of a corrective and  
235 preventive action plan, where appropriate.

236 Upper management and those charged with governance should ensure effective action is implemented to  
237 address the audit findings. The implementation of agreed actions should be monitored in a systematic  
238 way, and the progress of implementation should be communicated on a periodic basis, proportionate to  
239 the planned actions, to upper management.

240 Evidence of completion of actions should be recorded in order to document that issues raised during the  
241 audit have been addressed.

242 Capacity for follow-up audits should be foreseen in the audit program. They should be carried out as  
243 deemed necessary, in order to verify the completion of agreed actions.

244

#### 245 **IV.B.3. Quality system and record management practices**

246

247 **IV.B.3.1. Competence of auditors and quality management of audit activities**

##### 248 *IV.B.3.1.1. Independence and objectivity of audit work and auditors*

249 The organization should assign specific responsibilities for the pharmacovigilance audit activities.  
250 Pharmacovigilance audit activities should be independent. The organization's management should ensure  
251 this independence and objectivity in a structured manner and document this.

252 In line with EU implementing legislation, marketing authorization holders shall perform regular audits of  
253 the pharmacovigilance quality system at risk-based intervals to ensure compliance with requirements and  
254 to determine its effectiveness. Auditors should be free from interference in determining the scope of  
255 auditing, performing pharmacovigilance audits, and communicating audit results. The main reporting line  
256 should be to the upper management with overall responsibility for the operational and governance  
257 structure that allows the auditor(s) to fulfill their responsibilities and to provide an independent, objective  
258 audit opinion.

259 Audits shall cover all pharmacovigilance activities for a defined period and verify their conformity with  
260 established policies, processes, and procedures of the quality system.

261 Auditors can consult with technical experts, personnel involved in pharmacovigilance processes, and the  
262 person responsible for pharmacovigilance; however, auditors should maintain an unbiased attitude that  
263 allows them to perform audit work in such a manner that they have an honest belief in their work product  
264 and that no significant quality compromises are made.

265 Audits shall be conducted by individuals who have no direct involvement in, or responsibility for, the  
266 matters or processes being audited.

267 Objectivity requires auditors not to subordinate their judgment on audit matters to that of others.

268 *IV.B.3.1.2. Qualifications, skills, and experience of auditors and continuing professional development*

269 Auditors should demonstrate and maintain proficiency in terms of the knowledge, skills, and abilities  
270 required to effectively conduct and/or participate in pharmacovigilance audit activities. The proficiency of  
271 audit team members will have been gained through a combination of education, work experience, and  
272 training, and, as a team, should cover knowledge, skills, and abilities in:

273 • audit principles, procedures, and techniques;

274 • applicable laws, regulations, and other requirements relevant to pharmacovigilance;

275 • pharmacovigilance activities, processes and system(s);

276 • management system(s);

277 • organizational system(s).

278

279 *IV.B.3.1.3. Evaluation of the quality of audit activities*

280 Evaluation of audit work can be undertaken through ongoing and periodic assessment of all audit  
281 activities, auditee feedback, and self-assessment of audit activities (e.g., quality assurance of audit  
282 activities, compliance to code of conduct, audit program, and audit procedures).

283

284 **IV.B.3.2. Audits undertaken by outsourced audit service providers**

285 Ultimate responsibility for the operation and effectiveness of the pharmacovigilance system resides within  
286 the organization (i.e., within the national competent authority or marketing authorization holder). Where  
287 the organization decides to use an outsourced audit service provider to implement the pharmacovigilance  
288 audit requirements based on this GVP module and perform pharmacovigilance audits:

289 • the requirements and preparation of the audit risk assessment, the audit strategy, the audit program,  
290 and individual engagements should be specified to the outsourced service providers by the  
291 organization, in writing;

292 • the scope, objectives, and procedural requirements for the audit should be specified to the outsourced  
293 service provider by the organization, in writing;

294     ● the organization should obtain and document assurance of the independence and objectivity of  
295       outsourced service providers;  
296     ● the outsourced audit service provider should also follow the relevant parts of this GVP module.

297     **IV.B.3.3. Retention of audit reports**

298     Retention of the audit report and evidence of completion of action needs to be in line with the  
299       requirements stipulated in Module I.

300

301     **IV.C. Operation in Lebanon: Pharmacovigilance audit policy  
302       framework**

303

304     **IV.C.1. Requirement to perform an audit for Marketing authorization holders in  
305       Lebanon**

306     The marketing authorization holder in Lebanon is required to perform regular risk-based audit(s) of their  
307       pharmacovigilance system, including audit(s) of its quality system to ensure that the quality system  
308       complies with the quality system requirements. The dates and results of audits and follow-up audits shall  
309       be documented.

310     See IV.C.2 for further details of the requirements for audit reporting by the marketing authorization holder.

311

312     **IV.C.1.1. The national qualified person for pharmacovigilance (QPPV)/and the local safety  
313       responsible (LSR)**

314     The responsibilities of the National QPPV and LSR for audit are provided in Module I. Furthermore, the  
315       national QPPV and LSR should receive pharmacovigilance audit reports and provide information to the  
316       auditors relevant to the risk assessment, including knowledge of the status of corrective and preventive  
317       actions.

318 The national QPPV and LSR should be notified of any audit findings relevant to the pharmacovigilance  
319 system, irrespective of where the audit was conducted.

320 For multinational marketing authorization holders, international companies, and other companies, the  
321 Local Safety Responsible (LSR) should receive pharmacovigilance audit reports and provide information to  
322 the auditors relevant to the risk assessment, including knowledge of the status of corrective and  
323 preventive actions at the national level. Furthermore, the concerned LSR should be notified of any audit  
324 findings relevant to the pharmacovigilance system in Lebanon, where the audit was conducted.

325

#### **326 *IV.C.2. Requirements for audit reporting by the marketing authorization holder 327 in Lebanon***

328 The marketing authorization holder shall place a note concerning critical and major audit findings of any  
329 audit relating to the pharmacovigilance system in the pharmacovigilance system master file (PSMF) (see  
330 Module II). Based on the audit findings, the marketing authorization holder shall ensure that an  
331 appropriate plan detailing corrective and preventative action is prepared and implemented. Once the  
332 corrective and preventive actions have been fully implemented, the note may be removed. Objective  
333 evidence is required in order for any note of audit findings can be removed from the pharmacovigilance  
334 system master file (see Module II).

335 The marketing authorization holders should ensure that a list of all scheduled and completed audits is kept  
336 in the annex to the pharmacovigilance system master file and that they comply with reporting  
337 commitments in line with the legislation, GVP guidance and their internal reporting policies. The dates  
338 and results of audits and follow-up audits shall be documented.

339

#### **340 *IV.C.3. Confidentiality***

341 Documents and information collected by the internal auditor should be treated with appropriate  
342 confidentiality and discretion, and also respect national legislation on the protection of individuals  
343 concerning the processing of personal data and the free movement of such data.