



Global Harmonization Working Party

Towards Medical Device Harmonization

PROPOSED FINAL DOCUMENT

Title: Categorisation of Changes to a Registered Medical Device

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50 **Preface**

51 This document is produced by the Global Harmonization Working Party, based on
52 change management guidances worldwide. The document is intended to provide non-binding
53 guidance for use in the regulatory system of medical devices, including in vitro diagnostic (IVD)
54 medical devices and software as medical device, and has been subject to consultation
55 throughout its development.

56 There are no restrictions on the reproduction, distribution, translation or use of this
57 document. However, incorporation of this document, in part or in whole, into any other
58 document does not convey or represent an endorsement of any kind by the Global
59 Harmonization Working Party.

60

61 **1.0 Introduction**

62 The objective of the Global Harmonization Working Party (GHWP) is to encourage
63 convergence at the worldwide level in the evolution of regulatory systems of medical devices,
64 including in vitro diagnostic (IVD) medical devices and software as a medical device in order
65 to protect the public health by those regulatory means considered the most suitable.

66 This document has been developed to encourage and support global convergence of
67 regulatory systems. It is intended for use by Regulatory Authorities (RAs), Conformity
68 Assessment Bodies (CABs) and industry, and will provide benefits in establishing, in a
69 consistent way, an economic and effective approach to the control of medical devices in the
70 interest of public health. It seeks to strike a balance between the responsibilities of RAs to
71 safeguard the health of their citizens and their obligations to avoid placing unnecessary burdens
72 upon the industry.

73 During the life-cycle of a medical device, changes may take place from time to time.
74 Changes made to a registered medical device must be linked to the principles of safety and/or
75 performance (Essential Principles) and the ability of a risk based regulatory system to control
76 the risk of the medical device placed in the market.

77
78 To ensure continued safety and/or performance of the medical device, a manufacturer
79 must assess the effect of the change on the patient, practitioner and/or user of the medical
80 device, and decide whether the change is expected to affect the safety and/or performance of
81 the medical device.

82
83 According to the nature of the change, the RA will determine whether evidence of safety
84 and/or performance has been appropriately collected and reviewed by the manufacturer based
85 on the report made by the manufacturer.

86
87 Working Group 1, 2 and 3 of the GHWP have prepared this guidance document.
88 Comments or questions should be directed to the Chair of GHWP Work Group 2 whose contact
89 details may be found on the GHWP web page (<http://www.ghwp.info/>).

90

91 Note: The term “Registered medical device” refers to a medical device that can be
92 legally marketed in the relevant jurisdiction.

93

94 **2.0 Rationale, Purpose and Scope**

95 **2.1 Rationale**

96 Consistent worldwide requirements for on categorisation of changes to medical devices
97 would offer significant benefits to the manufacturer, user, patients and RAs. Eliminating or
98 reducing differences between jurisdictions decreases the cost of gaining regulatory compliance
99 and allows patients earlier access to new technologies and treatments.

100

101 **2.2 Purpose**

102 This document provides assistance to RAs and manufacturers in categorising and
103 managing changes during the life cycle of medical devices. The document provides guidance
104 on types of changes, principles of change categorisation, and what should be done by the
105 manufacturer in relation to each type of change to its registered medical device. For minor
106 changes, reference should be made into AHWP/WG1/F002:2016 Guidance for Minor Change
107 Reporting, whereby the reportability depends on the jurisdiction.

108

109 **2.3 Scope**

110 This document applies to all products that fall within the definitions of Medical Device,
111 In Vitro Diagnostic (IVD) Medical Device and software as Medical Device that appear within
112 the GHWP document *Definition of the Terms 'Medical Device' and 'In Vitro Diagnostic (IVD)*
113 *Medical Device'*.

114

115 **3.0 References**

116 AHWP/WG2-WG1/F001:2016 *Definition of the Terms 'Medical Device' and 'In Vitro*
117 *Diagnostic (IVD) Medical Device'*.

118 AHWP/WG1a/F002:2013 (now restructured to WG2) *Essential Principles of Safety and*
119 *Performance of IVD Medical Devices.*

120 AHWP/WG3/F001:2015 Guidance Document on Medical Device Software - Qualification
121 and Classification

122 Australia: Substantial changes affecting a TGA conformity assessment certificate and
123 Transfers of certificate: Guidelines for notifying the TGA, v1.0, Jun-2017

124 Canada: Guidance for the Interpretation of Significant Change of a Medical Device

125 Korea: Case examples of Medical Electrical Equipment with significant changes, 2018

126 Korea: Guideline for Change Management of IVD Medical Device (2019 Mar 5th version)

127 Malaysia: MDA/GD/0020 - Change Notification for Registered Medical Device

128 Singapore: GN-21 - Guidance on Change Notification on Registered Medical Devices

129 US: Deciding When to Submit a 510(k) for a Change to an Existing Device

130 US: Deciding When to Submit a 510(k) for a Software Change to an Existing Device

131 US: Guidance for Industry and FDA Staff – Modifications to Devices Subject to Premarket
132 Approval (PMA) – The PMA Supplement Decision-Making Process – December 11, 2008

133 WHO: Reportable Changes to a WHO Prequalified in vitro diagnostic Medical Device, 2016

134 WHO: Reportable Changes to a WHO Prequalified Male Circumcision Device, 2019

135 Japan: PMDA document (PSEHB/MDED Notification No. 1020-1) - Handling of procedures
136 for minor changes made in association with partial changes of medical device programs –
137 October 20, 2017

138 US: Guidance for Industry and FDA Staff – Deciding When to Submit a 510(k) for a
139 Software Change to an Existing Device – October 25, 2017

140 Korea: Guidance for Review and Approval of Artificial Intelligence-Enabled Medical
141 Devices, May-2022

142 **4.0 Definitions**

143 **Medical Device**

144 The term is as defined in AHWP/WG2-WG1/F001:2016 “Definition of the Terms ‘Medical
145 Device’ and ‘In Vitro Diagnostic (IVD) Medical Device’

146

147 **IVD Medical Device**

148 The term is as defined in AHWP/WG2-WG1/F001:2016 “Definition of the Terms ‘Medical
149 Device’ and ‘In Vitro Diagnostic (IVD) Medical Device’”

150

151 **Manufacturer**

152 Manufacturer: For the purpose of this document, the term "manufacturer" must be understood
153 to include the manufacturer, its authorized representative or any other person who is
154 responsible for placing the device on the market.

155

156 **Non-significant change¹**

157 A change that will not affect safety and/or performance of the medical device.

158

159 **Quality Control (QC)**

160 It is part of quality management focused on fulfilling quality requirements. (ISO 9000)

161

162 **Quality Management System (QMS)**

163 For the purpose of this guidance document, the term means the regulatory compliance and
164 certification to ISO 13485 or its equivalent.

165

166 **Regulatory Authority**

¹ The terms non-significant change and minor change are used in different jurisdictions but generally they can be used interchangeably.

167 It is a government agency or other entity that exercises a legal right to control the use or sale
168 of medical devices within its jurisdiction, and may take enforcement action to ensure that
169 medical products marketed within its jurisdiction comply with legal requirements.
170 (AHWP/WG1a-WG7/PD007)

171

172 **Risk Management** is a systematic application of management policies, procedures and
173 practices to the tasks of analysing, evaluating, controlling and monitoring risk (ISO
174 14971:2007 Medical devices -- Application of risk management to medical devices)

175

176 **Significant change**² means a change that could reasonably be expected to affect the safety
177 and/or performance of a medical device.

178

179 **5.0 General Principles**

180 To ensure continued safety and/or performance of the medical device, the manufacturer
181 has to assess the impact of the change on the patient, practitioner and/or user of the medical
182 device, and decide whether the change is expected to affect the safety and/or performance of
183 the medical device. The following sections give guidelines on change categorisation and
184 provide examples.

185

186 **5.1 Assessment of Changes: General Principles**

187 Changes to a registered medical device are categorised as significant (or major in some
188 jurisdictions) and non-significant (or minor) change according to the effect on the safety and/or
189 performance of the medical device.

190

191 A **significant change** (refer to definition of “significant change”) means a change that could
192 affect the safety and/or performance of a medical device.

193

194 A significant change typically may:

- 195 • Result in risks to the patient not previously identified
- 196 • Increase the probability of existing hazards occurring
- 197 • Alter the presentation of existing or new risks to the user (this can involve labelling
198 changes or new indications for use)

199

200 A **non-significant change** is any modification that does not affect safety and/or performance
201 of a medical device, which obtained a marketing authorization.

202

203 **5.2 Reporting of Changes**

204 According to the nature of the change, it is the RA that determines whether evidence of safety
205 and/or performance has been appropriately collected and reviewed based on the reporting
206 procedure made by the manufacturer³.

2 The terms significant change and major change are used in different jurisdictions but generally they can be used interchangeably

3 In some jurisdictions, all changes whether significant or non-significant may need to be reported. In this case refer to the Guidance for Minor Change Reporting AHWP/WG1/F002:2016

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Changes could be categorised either as significant or non-significant.

“Significant changes” are normally reported to the RA with supporting documentation to show the device is still safe and performing as intended.

“Non-Significant changes” are not normally reported to the RA, however the assessment and supporting documentation to show the device is still safe and performing as intended has to be reflected in the QMS system.

217 **5.3 Tools to assess changes and the way of reporting**

218 The following section presents flowcharts to assist manufacturers when assessing whether a
219 change is considered to be a “significant change” which may need to be reported to the RA.

220
221 The **main flowchart** is a generalized discussion of the broad principles that can be used to
222 determine if a change would affect the safety and/or performance of a medical device.

223
224 **Flowchart A to G** details specific questions and answers to assist in determining if a change
225 is considered to be significant or non-significant. The accompanying discussions and
226 flowcharts are intended to define the processes used to categorise the change.

227
228 The following flowcharts are given.

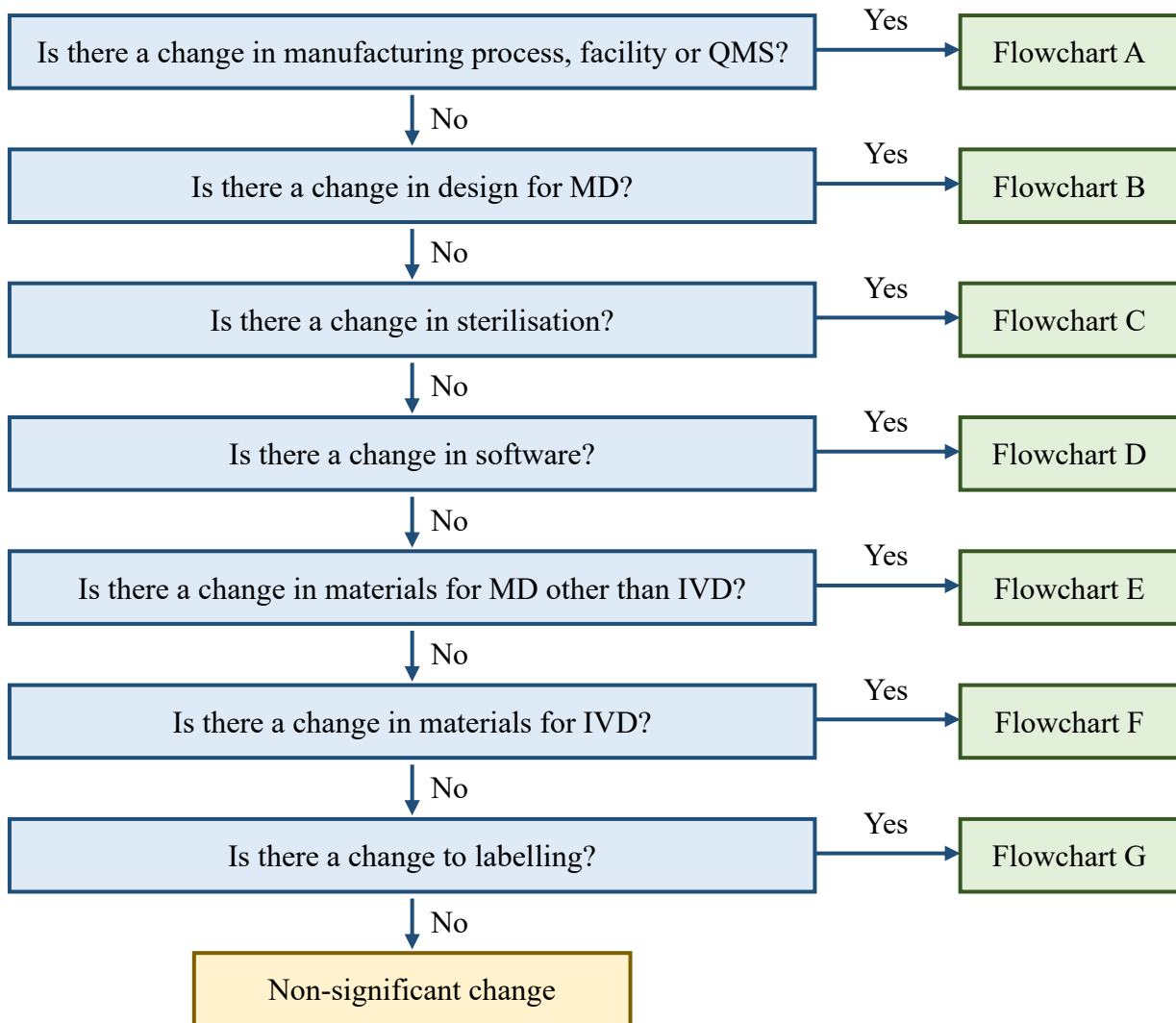
- 229 • **Main Flowchart:** General Changes made to Medical Devices
- 230 • **Flowchart A:** Changes in Manufacturing Processes, Facility and/or Quality
231 Management System (including QC)
- 232 • **Flowchart B:** Changes in Design for Medical Device
- 233 • **Flowchart C:** Changes to Sterilisation Facility and its Process and/or Quality
234 Management System
- 235 • **Flowchart D:** Changes to Software
- 236 • **Flowchart E:** Changes in Materials for Medical Devices other than IVD
- 237 • **Flowchart F:** Changes in materials for IVD Medical Devices
- 238 • **Flowchart G:** Changes to Labelling

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5.3.1 Main Flowchart: General Changes made to Medical Devices

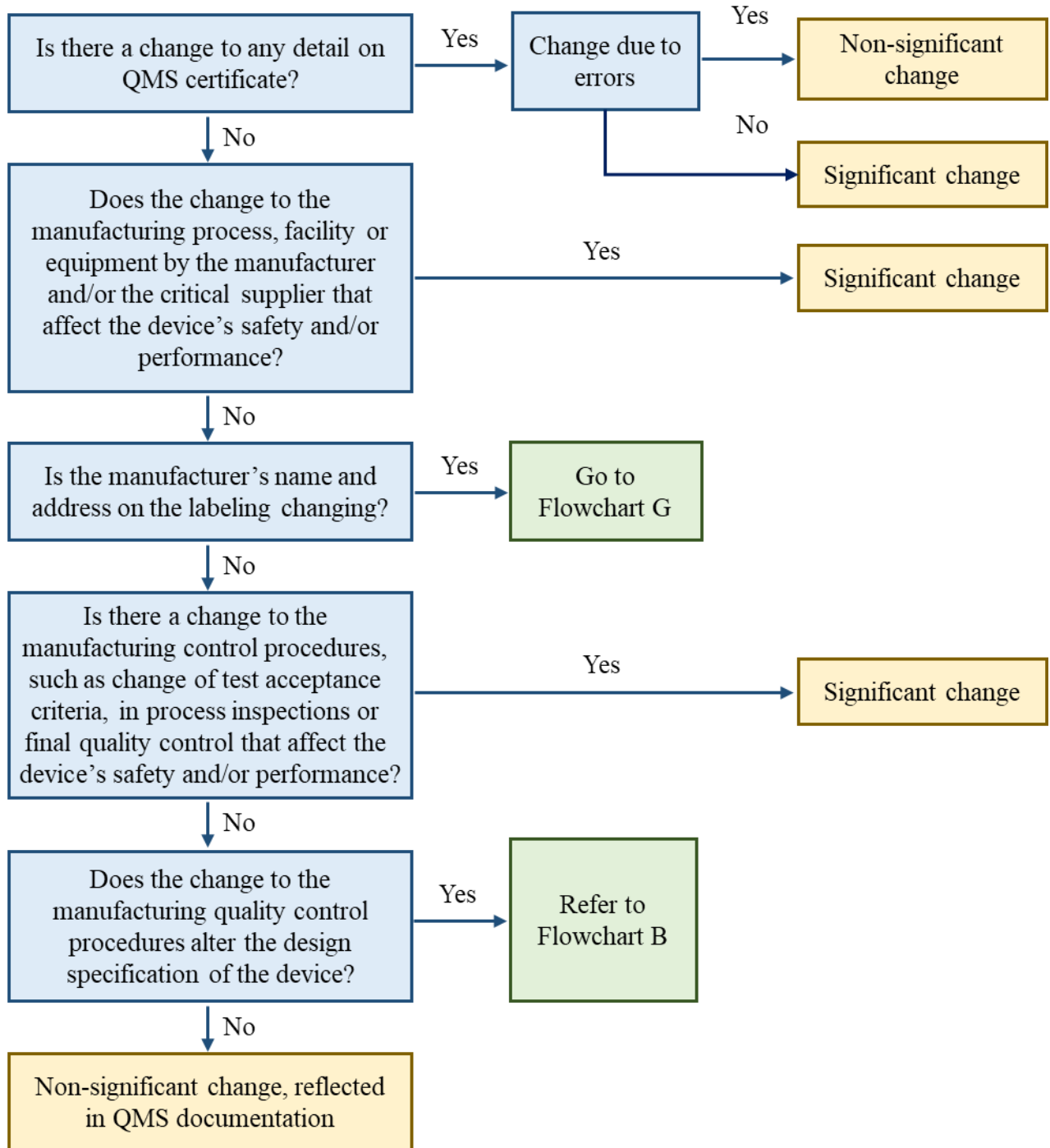
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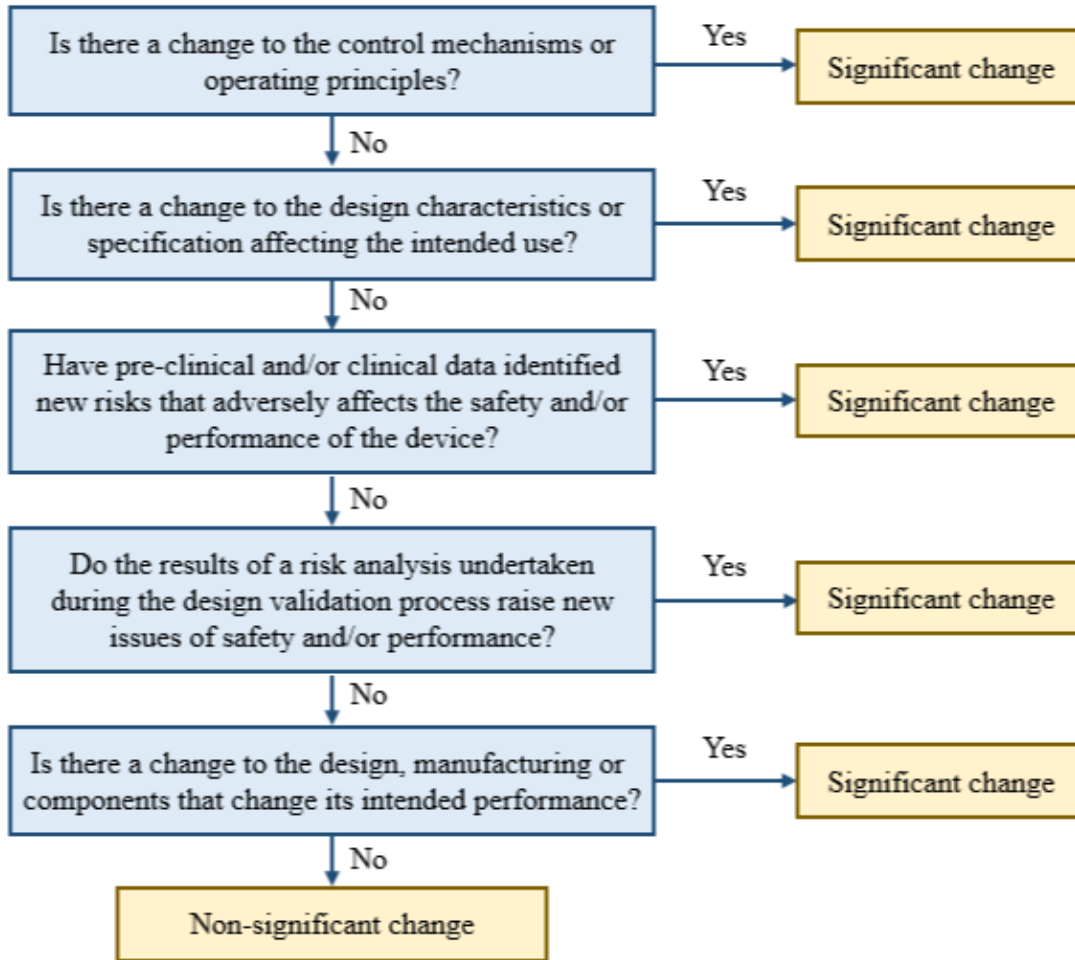
5.3.2 Flowchart A: Changes in Manufacturing Processes, Facility and/or Quality Management System (including QC)



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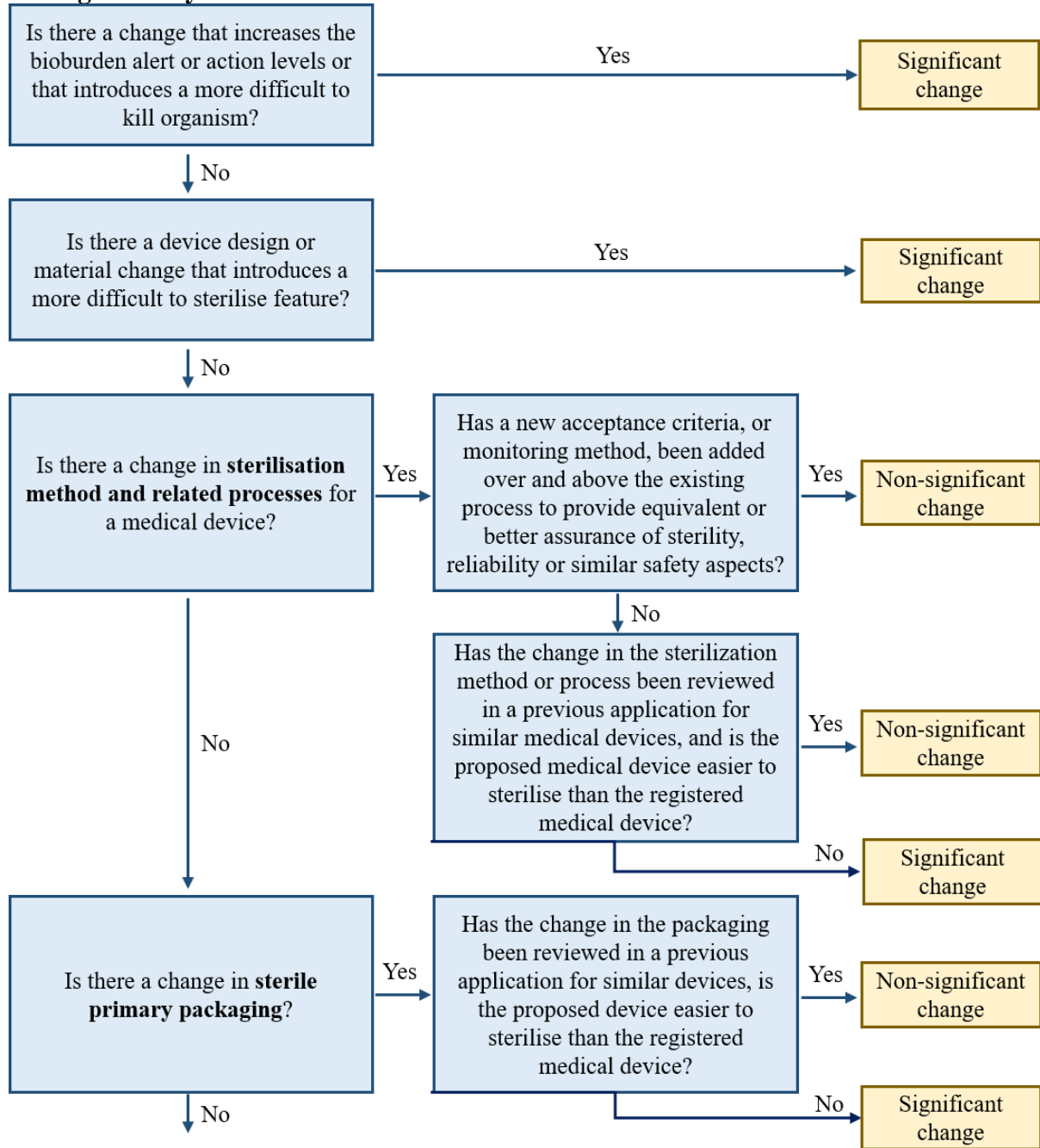
5.3.3 Flowchart B: Changes in Design for Medical Devices



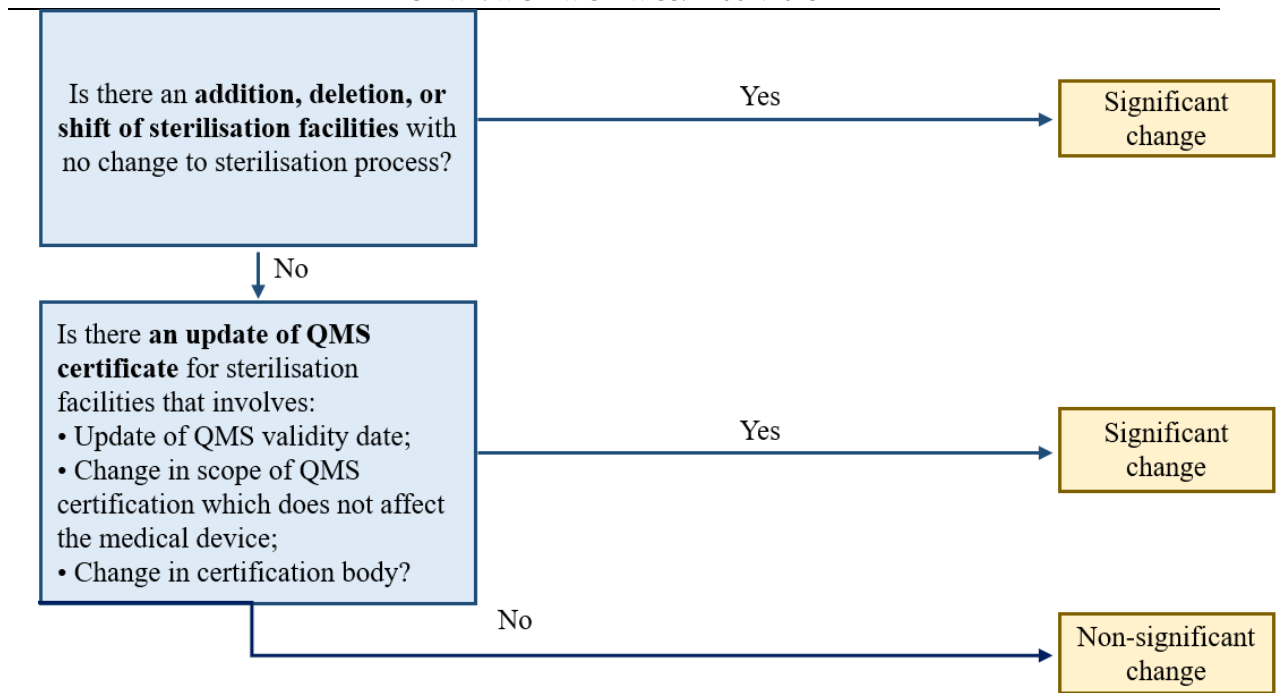
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5.3.4 Flowchart C: Change to Sterilisation Facility and its Process and/or Quality Management System



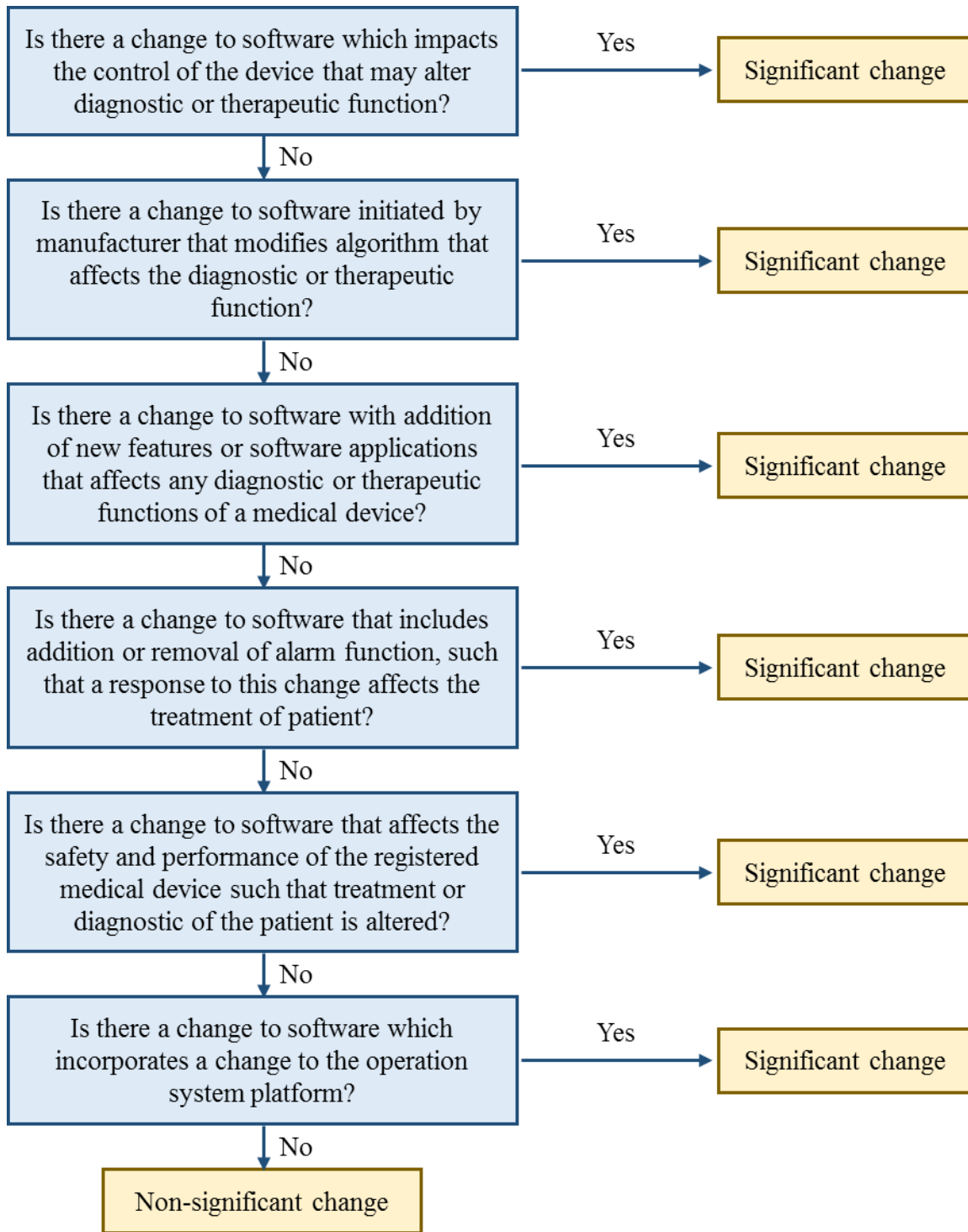
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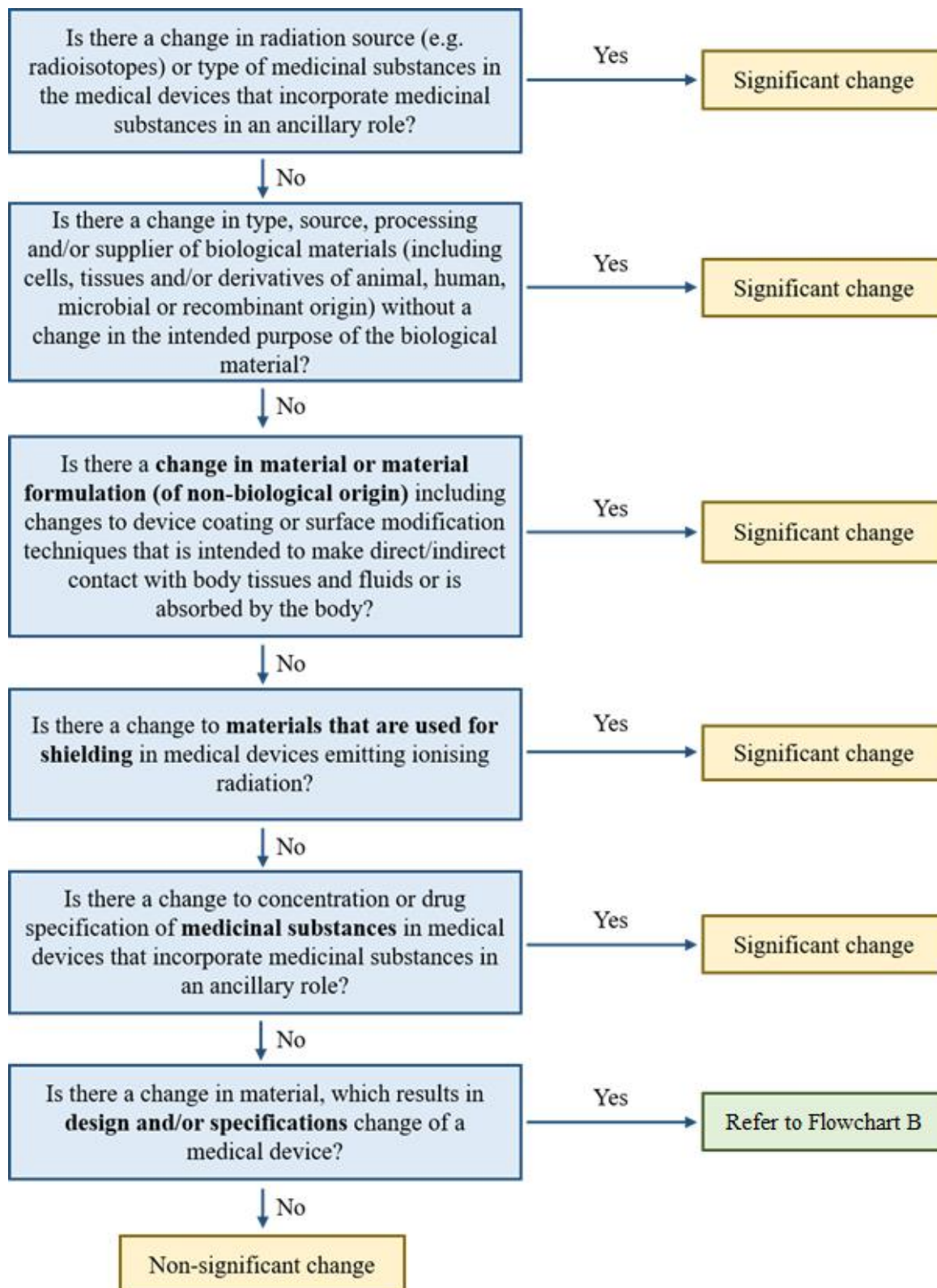
5.3.5 Flowchart D: Changes to Software



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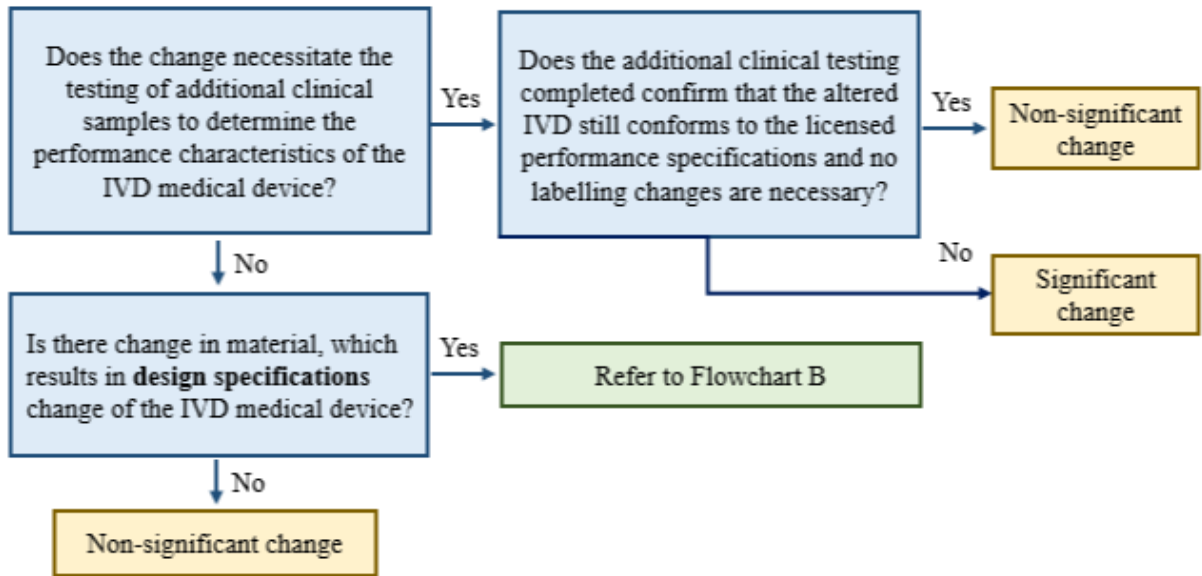
5.3.6 Flowchart E: Changes in Materials for Medical Devices other than IVDs



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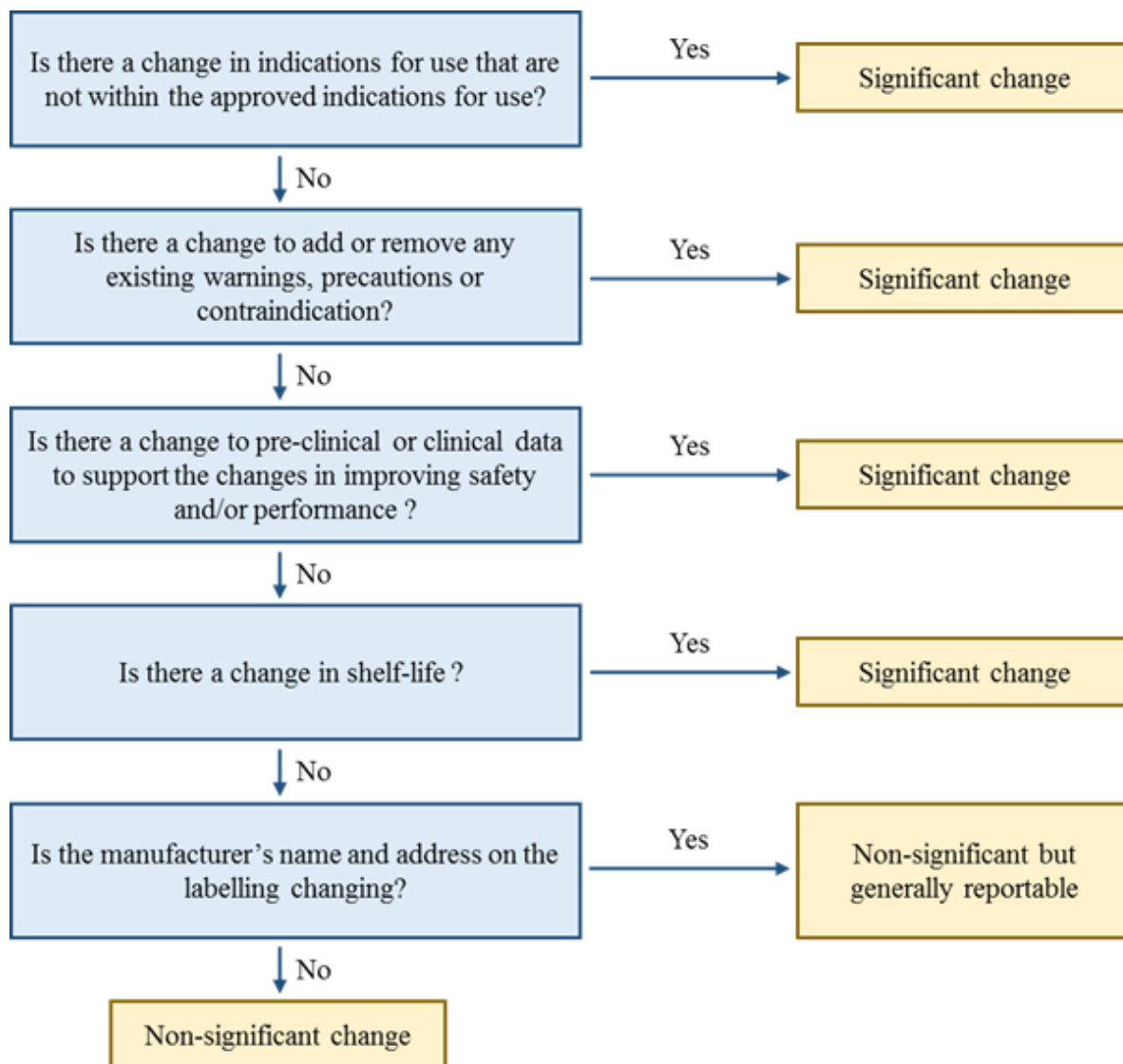
5.3.7 Flowchart F: Changes in materials for IVD medical devices



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5.3.8 Flowchart G: Changes to Labelling



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266 **5.4 Examples of changes and reporting requirements**

267 **5.4.1 Changes in manufacturing processes, facility and/or Quality Management**
268 **System**

Example	Category (Significant, non-significant)
<p>Changes to QMS Certificate, such as:</p> <p><i>Change/addition/removal of manufacturing site, Change of scope</i></p>	Significant
<p>Change to manufacturing processes (including changes made to outsourced processes) that may affect the safety and/or performance of the medical device, such as:</p> <p><i>Change in the equipment used for cutting, resulting in the change in length of sutures. Moulding or cutting manufacturing process Change of centrifugation to filtration process which results in better molecule separation. Change of implant manufacturing process from casting to 3D printing Change from manual operation to automatic operation, without changing the product specification</i></p>	Significant
<p>Change in specification of registered medical device due to change in critical supplier, such as:</p> <p><i>Change of the supplier of the Antibody with different manufacturing process. Change of supplier of plastic raw material of catheter.</i></p>	Significant
<p>Changes to Manufacturing QC process issues, such as:</p> <p><i>Removal of two test parameter and extend acceptance criteria</i></p>	Significant
<p><i>Change of zip code on the certificate, typo errors and correction</i></p>	Non-Significant
<p>Changes to Manufacturing QC process, such as:</p> <p><i>New QC specification with additional testing Change of measuring and/or monitoring equipment without changing test parameter</i></p>	Non-Significant
<p><i>Change in non-critical supplier that extrudes the polymer tubing with no change in finished product performance specifications.</i></p>	Non-significant

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5.4.2 Changes in design for medical devices other than IVDs

Example	Category (Significant, non-significant)
<p>All changes to the control mechanisms, operating principles and/or design characteristics of a medical device, such as:</p> <p><i>Change from a quantitative assay to a qualitative assay</i> <i>Addition of a footswitch to an X-ray system that previously do not operate via a footswitch mechanism.</i> <i>Change of an RIA test to an ELISA test.</i></p>	Significant
<p>Change in the design characteristics that allows for additional or broader intended use, such as:</p> <p><i>A smaller sized hip prosthesis or fracture fixation screw that are significantly different from their predicate designs.</i> <i>Addition of urine as specimen in the intended use for creatinine test</i></p>	Significant
<p>Change that have Pre-clinical and/or clinical data identified new risks that adversely affects the safety and/or performance of the device, such as:</p> <p><i>The original heat-sealing package barrier found risk of leakage and change to sterile packaging barrier</i></p>	Significant
<p>Change results of a risk analysis undertaken during the design validation process raise new issues of safety and/or performance, such as:</p> <p><i>Change from an internal direct current (DC) power source to an external alternating current (AC) source or vice versa</i> <i>During the clinical validation process, ceramic dental cap has found durability issues, other materials has to be considered Change to the cable design and grip of a steerable ablation catheter, which results in improved deliverability and improved procedural times.</i></p>	Significant
<p>Change to the design, manufacturing or components that change its intended performance, such as:</p> <p><i>All changes in specifications (including shelf life and stability) of an IVD medical device</i></p>	Significant
<p><i>Change of the secondary packaging</i></p>	Non-significant
<p><i>Change of colour of the cap of a reagent</i></p>	Non-significant
<p><i>Changes of smartphones and computers (including tablet PC) running medical software that does not accompany changes in the software</i></p>	Non-significant
<p><i>Changes of storage media (CD, USB, Web, etc.) of the standalone software that does not accompany changes in the software</i></p>	Non-significant

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5.4.3 Changes to sterilisation Facility and its Process and/or Quality Management System

Example	Category (Significant, non-significant)
Change of the sterilisation process, such as: <i>Change from ethylene oxide to gamma radiation sterilization</i>	Significant
Change that increases the bioburden alert or action levels or that introduces a more difficult to kill organism, such as a change that introduces additional pre-sterilisation transport steps.	Significant
Device design or material change that introduces a more difficult to sterilize feature, such as: <i>Change to the packaging where a single pouched sterile device is put into a double pouch.</i>	Significant
<i>Change from biological indicator to parametric release or change from batch release to parametric release</i>	Significant
<i>Change in moist heat sterilisation parameters</i>	Significant
<i>Change from a pre-blended sterilant (EtO and CHCs) to EtO post-blended with nitrogen. The ultimate concentration of EtO in the sterilant is the same in both cycles.</i>	Non-significant
<i>Change from using Air (mixture of 80% Nitrogen and 20% Oxygen) to pure Nitrogen in the aeration process to avoid explosive gas mixtures.</i>	Non-significant

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5.4.4 Changes to Software

Example	Category (Significant / Non-Significant)
<p>Change to software which impacts the control of the device that may be alter diagnostic or therapeutic function, such as: <i>Software change causing the change of critical steps for laser delivery on eye treatment</i></p>	Significant
<p>Change to software initiated by manufacturer that modifies the algorithm that affects the diagnostic or therapeutic function, such as: <i>An X-ray Lung Nodule Assessment Software is used along with a Digital Radiography System to support physicians in the visualization, identification, evaluation and reporting of pulmonary lesions/nodules in chest images. An algorithm change improves the detection rate for small nodules.</i></p>	Significant
<p>Change to software with addition of new features or software applications that affect any diagnostic or therapeutic functions of a medical device, such as: <i>Insulin Pump - Software changes that allow for wireless communication with compatible (continuous) blood glucose monitors.</i></p>	Significant
<p>Change to software that includes addition or removal of alarm function, such that a response to this change affect the treatment of patient, such as: <i>Electrocardiogram Addition to software of an early warning alarm to signal a potential cardiac event such as atrial fibrillation.</i></p>	Significant
<p>Change to software that affect the safety and performance of the registered medical device such that treatment or diagnostic of the patient is altered, such as:</p> <ol style="list-style-type: none"> <li data-bbox="193 1397 1137 1507">1. <i>Blood Oxygen Monitor - A software change that allows the monitor to report blood CO2 concentrations with higher accuracy up to 0.5% deviation.</i> <li data-bbox="193 1547 1137 1657">2. <i>Upgrade of software version changes the performance characteristics like specificity or sensitivity of the In-vitro diagnostic medical device.</i> 	Significant
<p><i>A simple bug fix to correct the display error on the data table from the software analysis result.</i></p>	Non-significant
<p><i>Change in software which only introduces non-therapeutic and non-diagnostic features such as printing, faxing, improved image clarity or reporting format</i></p>	Non-significant
<p><i>Change in software to disable certain functions that does not interact with other functions</i></p>	Non-significant

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Change to software incorporating a change to the operation system platform, such as: <i>A change in the software together with operating system change from Linux to another operating system platform.</i>	Significant
Addition, change, and deletion of OS version(s) (operating environment) within the same platform such as: <i>When Windows X is added for a product for which Windows 7 is specified as an OS</i>	Non-significant
Change in software to alter colors and location of menu on graphic user interface of medical devices that does not affect safety and performance of the device but results in version change	Non-significant
Change in software to add languages for users that does not accompany changes in the main features and misunderstanding in translation for intended use, principle of operation, and performance	Non-significant
Change in the distribution/storage method of software among physical media (USB, CD, DVD), digital means (download), etc.	Non-significant
Change in software to strengthen the cybersecurity such as: <i>1. Adding encryption to the configuration file of the device, 2. Adding passcode requirements for remote users, in addition to the password needed to access the device., and 3. Adding a timeout for remote user or changing the access of the restricted user/customer to appropriate levels.</i>	Non-significant
Change in software to disallow use of the specific characters that are invalid as defined in the instrument host interface specification for the prevention of Specimen Identification (ID) barcode information truncation.	Non-significant
Change in software to return the system into specification of the most recently cleared device regarding DICOM(Digital Imaging and Communications in Medicine standard; http://dicom.nema.org/) conformance allowing the automatic fetching of prior studies from radiology information system using PACS (Picture Archiving and Communication System).	Non-significant
Change in software to correct the bottle size parameter of the cleaning solution to prevent the fluid detection errors.	Non-significant
Change in IVD analyzer software to ensure new data of the administrative records for reagents is not merged with the existing data in the table within the software by correcting software code in the control unit of the analyzer to modify the table to add new columns.	Non-significant

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Change in IVD analyzer software to rewrite an incorrectly worded software requirement and to modify code in the control unit of the analyzer without modifying the core algorithm (such as detection or measurement module algorithm).	Non-significant
Changes in software including the addition of product indication for use or its operating principles including diagnostic algorithm such as machine learning that may alter diagnostic or therapeutic function.	Significant
Change in accuracy of Machine Learning Medical Device software via modification and expansion of the training dataset without any changes to labeled product design specification.	Non-Significant

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5.4.5 Changes in materials for medical devices, other than IVD medical devices

Example	Category (Significant, non-significant)
<p>Change in radiation source (e.g. radioisotopes) or type of medicinal substances in the medical devices that incorporate medicinal substances in an ancillary role, such as:</p> <p><i>Change in the drug of a drug eluting stent</i></p>	Significant
<p>Change in type, source, processing and/or supplier of biological materials (including cells, tissues and/or derivatives of animal, human, microbial or recombinant origin) without a change in the intended purpose of the biological material, such as:</p> <p><i>Change in source of hyaluronic acid from Streptococcus zooepidemicus to Streptococcus equi</i></p>	Significant
<p>change in material or material formulation (of non-biological origin) including changes to device coating or surface modification technique in a medical device that is intended to make direct/indirect contact with body tissues and fluids or is absorbed by the body, such as:</p> <p><i>Peripherally Inserted Central Catheter (PICC)</i> <i>Introduction of a colorant change into the insertion hub of a PICC that is part of the fluid path for fluid administration or withdrawal from a patient.</i> <i>Cardiovascular Catheter</i> <i>A change of material to a cardiovascular catheter that comes in contact with body tissue (e.g. change to/from polyether block amide (PEBA), Polyamide or polyether ether ketone (PEEK)).</i></p>	Significant
<p>Change to concentration or drug specification of medicinal substances in medical devices that incorporate medicinal substances in an ancillary role, such as:</p> <p><i>Change in the concentration of the drug in a drug eluting stent</i> <i>Change in the concentration of antibiotics or a change to a different antibiotic in a catheter coated with antibiotic Catheters that coated with antibiotics</i></p>	Significant
<p><i>Change in supplier or vendor of the material, but the material meets the manufacturer's previously reviewed specification.</i></p>	Non-significant
<p><i>Peripherally Inserted Central Catheter (PICC)</i> <i>Introduction of a colorant change into the flush port of a PICC. The flush port is an access port for flush syringes for IV line clearance or volume block and is not intended to be used for fluid administration or withdrawal from a patient.</i></p>	Non-significant

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5.4.6 Changes in materials for IVD medical devices

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Example	Category (Significant, non-significant)
<p>Changes which need testing of additional samples, such as:</p> <p><i>Change of sources or types of materials (conjugate, antibodies, antigens, primers or substrate)</i></p> <p><i>Change to the sample preparation, such as the inclusion of a stabilizer for an IVD that is intended to simplify preparation requirements or increase sample stability.</i></p>	Significant
<p>Change in material, which results in design specifications change, such as:</p> <p><i>Formulation change of reagents of test kits (buffer concentration, addition of preservatives)</i></p> <p><i>Change from a liquid to solid reagent and vice versa</i></p>	Significant
<p><i>A change in supplier or vendor of the material, but the material meets the manufacturer's previously reviewed specification.</i></p>	Non-significant
<p><i>Change of sources of non-critical materials, such as magnesium stearate from an animal to vegetable source in a reagent of an IVD kit with no change in performance specification.</i></p>	Non-significant

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5.4.7 Changes to Labelling

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Example	Category (Significant, no-significant)
<i>All changes to the labelling of medical devices that involve addition, removal and/or revision of warnings, precautions and/or contraindications not arising due to safety and/or performance concerns</i>	Significant
<i>Labelling changes that modify the approved method of use; or involve a change from 'professional use only' to 'home use'</i>	Significant
<i>Change involves a reduction of intended use/indication of use not arising due to medical device safety and/or performance concerns</i>	Non-significant, but generally reportable
<i>Changes to the label due to typo error</i>	Non-significant

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286 **6.0 Multiple Changes for one product**

287 If multiple changes are made on a device at the same time, the assessment of each change
288 should be made according to the flowcharts outlined in this guideline. If the changes are
289 significant, the manufacturer may summarize all changes in one report and describe how
290 the modified medical device differs from the previously registered device.

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292 **7.0 Reference to change approvals by other jurisdiction**

293 If the manufacturer can provide proof that the proposed change has been assessed and
294 accepted by another jurisdiction, the RA may make an informed decision of acceptance
295 or rejection of the change based on abbreviated review or waive the review.

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