

IMDRF International Medical
Device Regulators Forum

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International Medical Device Regulators Forum

Title: Principles of Labeling for Medical Devices and IVD
Medical Devices

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15 **Preface**

16

17 The document herein was produced by the International Medical Device Regulators Forum
18 (IMDRF), a voluntary group of medical device regulators from around the world. The document
19 has been subject to consultation throughout its development.

20

21 There are no restrictions on the reproduction, distribution or use of this document; however,
22 incorporation of this document, in part or in whole, into any other document, or its translation
23 into languages other than English, does not convey or represent an endorsement of any kind by
24 the International Medical Device Regulators Forum.

25

26 Introduction

27

28 The purpose of this IMDRF guidance is to provide globally harmonized labeling principles for
29 medical devices and IVD medical devices and support the IMDRF Essential Principles of Safety
30 and Performance. Specifically, this document provides guidance on the content of the label and
31 instructions for use in order to support the correct, safe, and effective use of medical devices and
32 IVD medical devices by their users.

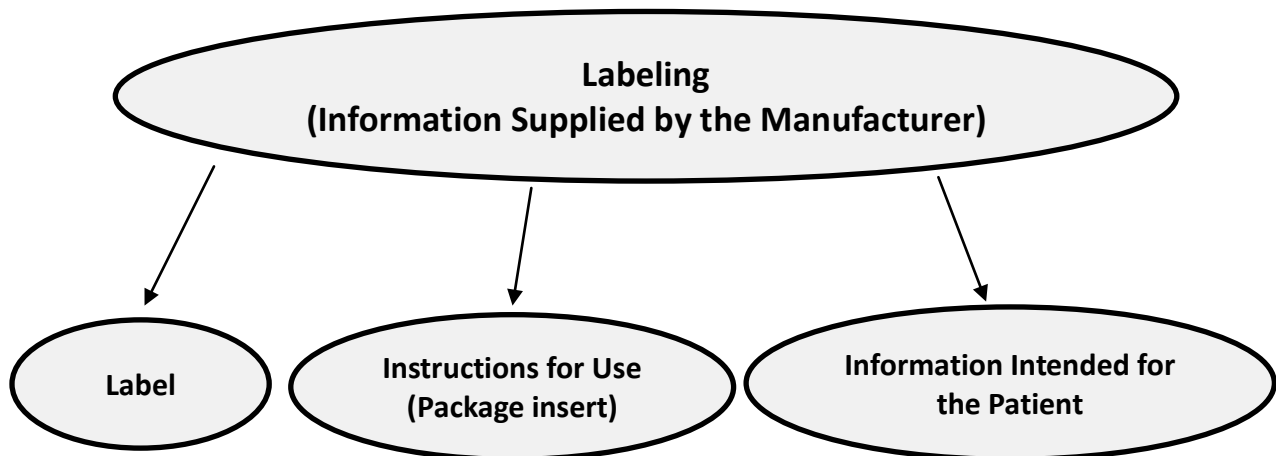
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34 This document has been developed to encourage and support global convergence of regulatory
35 systems. It is intended for use by Regulatory Authorities (RAs), Conformity Assessment Bodies
36 (CABs), industry, and others, and will provide benefits in establishing consistent labeling
37 requirements in various jurisdictions.

38

39 Labeling¹ serves to identify a device and its manufacturer, and to communicate information on
40 safety, use and performance. In some jurisdictions, Labeling is referred to as ‘Information
41 Supplied by the Manufacturer’. Labeling includes the label, instructions for use, and information
42 related to the identification, technical description, intended purpose and proper use of the
43 medical device and IVD medical device, as applicable (Figure 1). It is intended for users of
44 medical devices, including IVD medical devices, both professional and lay persons, as
45 appropriate, and for relevant third parties.

46



47

48

49 **Figure 1. Components of Medical Device and IVD Medical Device Labeling**

50

51 RAs require and specify information that manufacturers are expected to incorporate in the
52 labeling when the device is placed onto the market, to ensure the correct, safe, and effective use
53 of their product. This guidance provides some of those basic expectations, although RAs may
54 have additional labeling requirements beyond the scope of this guidance.

55

¹ Some regional and national regulations use the term ‘information supplied by the manufacturer’ rather than ‘labeling’. This document uses the term ‘labeling’.

56 This guidance document describes the general labeling principles for medical devices and IVD
57 medical devices and supersedes an earlier version produced under the Global Harmonization
58 Task Force (GHTF) entitled “Label and Instructions for Use” dated September 16, 2011
59 (GHTF/SG1/N70:2011). The intent of this document is to outline the foundational labeling
60 principles that are globally harmonized. It is important to note that many jurisdictions have
61 additional specific labeling requirements which sometimes also depend on the particular medical
62 device or IVD medical device.
63

64 **1.0 Scope**

65 This document applies to all medical devices and IVD medical devices and is intended to specify
66 the general content and format of medical device and IVD medical device labeling. This
67 document specifies the general labeling principles, including specific sections on the label,
68 instructions for us, and information intended for the patient. The requirements of any relevant
69 medical device or IVD medical device-specific standards should also be considered.
70

71 While this document includes general labeling principles, it does not include sections that
72 address other possible components of labeling. Individual jurisdictions may have their own
73 regulations or requirements regarding other labeling components.
74

75 Advertising and promotional materials are outside the scope of this document.

76 **2.0 References**

- 77 • GHTF/SG1/N78:2012 *Principles of Conformity Assessment for Medical Devices*
- 78 • GHTF/SG1/N055:2009 *Definitions of the Terms Manufacturer, Authorised*
79 *Representative, Distributor and Importer*
- 80 • GHTF/SG1/N046:2008 *Principles of Conformity Assessment for In Vitro Diagnostic*
81 *(IVD) Medical Devices*
- 82 • GHTF/SG1/N071:2012 *Definition of the Terms ‘Medical Device’ and ‘In Vitro*
83 *Diagnostic (IVD) Medical Device’*
- 84 • IMDRF/UDI WG/N7:2013 *UDI Guidance Unique Device Identification (UDI) of*
85 *Medical Devices*
- 86 • IMDRF/GRRP WG/N47:2018 *Essential Principles of Safety and Performance of*
87 *Medical Devices and IVD Medical Devices*
- 88 • IMDRF/UDI WG/N7:2013 *UDI Guidance: Unique Device Identification (UDI) of*
89 *Medical Devices*
- 90 • IMDRF/RPS WG/N19:2016 *Common Data Elements for Medical Device Identification*
- 91 • GS1 General Specification:
92 http://www.gs1.org/docs/gsmf/barcodes/GS1_General_Specifications.pdf
- 93 • Health Industry Business Communications Council (HIBCC)UDI and Labeling
94 Resource Center: <http://www.hibcc.org/udi-resources/>
- 95 • International Council for Commonality in Blood Banking Automation (ICCBBA) -
96 Technical Specification

97 <https://www.iccbba.org/tech-library/iccbba-documents/technical-specification>

98

99 **Standards**

- 100 • ISO 639-1:2002 *Codes for the Representation of Names of Languages – Part 1: Alpha-2*
- 101 *Code*
- 102 • ISO 3864-1:2011 *Graphical Symbols. Safety Colours and Safety Signs. Part 1: Design*
- 103 *Principles for Safety Signs and Safety Markings*
- 104 • ISO 15223-1:2016 *Medical Devices -- Symbols to be Used with Medical Device Labels,*
- 105 *Labeling and Information to be Supplied -- Part 1: General Requirements*
- 106 • ISO 14971:2007 *Medical Devices – Application of Risk Management to Medical Devices*
- 107 • IEC 62366-1:2015 *Medical Devices – Part 1: Application of the Usability Engineering*
- 108 *Process to Medical Devices*
- 109 • ISO/IEC 646:1991 *Information Technology - ISO 7-bit Coded Character Set for*
- 110 *Information Interchange*
- 111 • ISO/IEC 15415:2011 *Information Technology - Automatic Identification and Data*
- 112 *Capture Techniques. Bar Code Symbol Print Quality Test Specification - Two-*
- 113 *Dimensional Symbols*
- 114 • ISO/IEC 15416:2016 *Automatic Identification and Data Capture Techniques - Bar code*
- 115 *Print Quality Test Specification - Linear Symbols*
- 116 • ISO/IEC 15426-1:2006 *Information Technology- Automatic Identification and Data*
- 117 *Capture Techniques - Bar Code Verifier Conformance Specification — Part 1: Linear*
- 118 *Symbols*
- 119 • ISO/IEC 15426-2:2015 *Information Technology-Automatic Identification and Data*
- 120 *Capture Techniques - Bar code verifier conformance specification — Part 2: Two-*
- 121 *Dimensional Symbols*
- 122 • ISO/IEC 15459-2:2015 *Information technology - Automatic Identification and Data*
- 123 *Capture Techniques - Unique Identification, Part 2: Registration Procedures*
- 124 • ISO/IEC 15459-4:2014 *Information Technology - Automatic Identification and Data*
- 125 *Capture Techniques - Unique Identification, Part 4: Individual Products and Product*
- 126 *Packages*
- 127 • ISO/IEC 15459-6:2014 *Information Technology - Automatic Identification and Data*
- 128 *Capture Techniques - Unique Identification, Part 6: Groupings*
- 129 • ISO/IEC 16022:2006 *Information Technology- Automatic Identification and Data*
- 130 *Capture Techniques-Data Matrix Bar Code Symbolology Specification*
- 131 • ISO/IEC TR 29158:2011 *Information technology - Automatic identification and data*
- 132 *capture techniques - Direct Part Mark (DPM) Quality Guideline*
- 133 • ISO/IEC 18000-6:2013 *Information Technology -- Radio Frequency Identification for*
- 134 *Item Management -- Part 6: Parameters for Air Interface Communications at 860 MHz*
- 135 *to 960 MHz*
- 136 • ISO 18113:2009 *In vitro diagnostic medical devices -- Information supplied by the*
- 137 *manufacturer (labelling)*

138 3.0 Definitions

- 139 **3.1** *Accessory*: An article intended specifically by its manufacturer to be used together with a
 140 particular medical device or IVD medical device to enable or assist that medical device or
 141 IVD medical device to be used in accordance with its intended use. (GHTF/SG1/N71:
 142 2012)
- 143 **3.2** *Analytical Performance of an IVD Medical Device*: The ability of an IVD medical device
 144 to detect or measure a particular analyte. (GHTF/SG5/N6:2012)
- 145 **3.3** *Catalog number*: The value given by the manufacturer to identify the specific medical
 146 device as it relates to its form/fit, function and process (i.e., manufacturing processes
 147 requiring differentiation for the end user). (Adapted from IMDRF/RPS WG/N19:2016)
- 148 **3.4** *Conformity Assessment Body (CAB)*: A body other than a Regulatory Authority engaged in
 149 determining whether the relevant requirements in technical regulations or standards are
 150 fulfilled. (IMDRF/GRRP WG/N040:2017)
- 151 **3.5** *Contraindication*: Labeling elements that describe situations, such as patient populations,
 152 medical reasons, or clinical conditions, in which the device should not be used because the
 153 risk of use clearly outweighs any possible benefit.
- 154 **3.6** *Clinical Investigation*: Any systematic investigation or study in or on one or more human
 155 subjects, undertaken to assess the safety and/or performance of a medical device.
 156 Explanation: This term is synonymous with ‘clinical trial’ and ‘clinical study’. (GHTF/
 157 SG5/N1R8:2007)
- 158 **3.7** *Clinical Performance*: The ability of a medical device to achieve its intended purpose as
 159 claimed by the manufacturer. (GHTF/SG5/N1R8:2007)
- 160 **3.8** *Clinical Performance of an IVD Medical Device*: The ability of an IVD medical device to
 161 yield results that are correlated with a particular clinical condition/physiological state in
 162 accordance with target population and intended user. (Adapted from
 163 GHTF/SG5/N6:2012)
- 164 NOTE 1: Clinical performance can include diagnostic sensitivity and diagnostic
 165 specificity based on the known clinical/physiological state of the individual, and negative
 166 and positive predictive values based on the prevalence of the disease.
- 167 **3.9** *Device Identifier (UDI-DI)*: The UDI-DI is a unique numeric or alphanumeric code
 168 specific to a model of medical device and that is also used as the "access key" to
 169 information stored in a Unique Device Identification Database (UDID). Examples of the
 170 UDI-DI include GS1 GTIN (Global Trade Item Number), HIBCC-UPN (Universal
 171 Product Number), ISBT 128-PPIC (Processor Product Identification Code). (GHTF UDI
 172 WG/N7: 2013).
- 173 **3.10** *Electronic Labeling*: Any form of electronically accessible information supplied by the
 174 manufacturer related to a medical device or IVD medical device.

175 **3.11** *Expected Lifetime/Expected Service Life*: Time-period specified by the manufacturer
176 during which the medical device or IVD medical device is expected to maintain safe and
177 effective use.

178 NOTE 1: The expected lifetime can be determined by stability.

179
180 NOTE 2: Maintenance, repairs, or upgrades (e.g. safety or cybersecurity modifications)
181 can be necessary during the expected lifetime.

182 **3.12** *Expiry Date/Expiration Date*: Upper limit of the time interval during which the safety and
183 performance characteristics of a material stored under specified conditions can be assured.

184 NOTE 1: This also applies to medical devices whose physical, chemical or functional
185 properties are maintained during a specified and known period, such as for capital
186 equipment.

187
188 NOTE 2: Expiry dates are assigned to IVD reagents, calibrators, control materials and
189 other components by the manufacturer, based on experimentally determined stability
190 properties.

191
192 (Adapted from ISO 18113-1:2009)

193 **3.13** *Hazard*: Potential source of harm. (ISO/IEC Guide 51:2014)

194 **3.14** *Indications for Use*: A general description of the disease or condition the medical device or
195 IVD medical device will diagnose, treat, prevent, cure, or mitigate, including a description
196 of the patient population for which the medical device or IVD medical device is intended.

197 **3.15** *Information for Safety*: Information provided to the user or responsible organization that is
198 used as a risk control measure or disclosure of a residual risk.

199 NOTE 1: Examples can include warnings or precautions, instructions in the use of a
200 medical device or IVD medical device to prevent use error or avoid a hazardous situation,
201 or explanation of a safety feature of a medical device or IVD medical device.

202 **3.16** *Intended Use / Intended Purpose*: The objective intent regarding the use of a product,
203 process or service as reflected in the specifications, instructions and information provided
204 by the manufacturer. (Adapted from GHTF/SG1/N77:2012)

205 NOTE: The intended use can include the indications for use.

206 **3.17** *Instructions for Use*: General and technical information provided by the manufacturer to
207 inform the device user of the medical device or IVD medical device’s intended purpose
208 and proper use and of any contraindications, warnings, or precautions to be taken. It is
209 provided by the manufacturer to support and assist the device users in its safe and
210 appropriate use. (GHTF/SG1/N70:2011)

211 NOTE 1: Instructions for use can also be referred to as “package insert.”

212 **3.18** *In Vitro Diagnostic (IVD) Medical Device*: ‘In Vitro Diagnostic (IVD) medical device’
213 means a medical device, whether used alone or in combination, intended by the
214 manufacturer for the in-vitro examination of specimens derived from the human body
215 solely or principally to provide information for diagnostic, monitoring or compatibility
216 purposes.

217 NOTE 1: IVD medical devices include reagents, calibrators, control materials, specimen
218 receptacles, software, and related instruments or apparatus or other articles and are used,
219 for example, for the following test purposes: diagnosis, aid to diagnosis, screening,
220 monitoring, predisposition, prognosis, prediction, determination of physiological status.

221 NOTE 2: In some jurisdictions, certain IVD medical devices may be covered by other
222 regulations.

223 (GHTF/SG1/N071:2012)

224 **3.19** *Label*: Written, printed, or graphic information either appearing on the medical device
225 itself, or on the packaging of each unit, or on the packaging of multiple devices.
226 (GHTF/SG1/N70:2011)

227 NOTE: The definition above refers to the human readable label.

228 **3.20** *Labeling*: The label, instructions for use, and any other information that is related to
229 identification, technical description, intended purpose and proper use of the medical
230 device, but excluding shipping documents. (GHTF/SG1/N70:2011)

231 NOTE 1: Labeling can also be referred to as “information supplied by the manufacturer.”

232

233 NOTE 2: Labeling can be in printed or electronic format and may either physically
234 accompany the medical device or direct the user to where the labeling information can be
235 accessed (such as through a website).

236 **3.21** *Lay User*: Individual who does not have formal training in a relevant field or discipline.
237 (Adapted from GHTF/SG1/N045:2008)

238 NOTE 1: Principles for lay person(s) may also apply to self-testing for a medical device or
239 IVD medical device.

240

241 NOTE 2: For an IVD medical device used outside of a laboratory setting, the user of the
242 IVD medical device will be considered a lay user.

243

244 NOTE 3: For an IVD medical device for self-collection/self-testing, a self-tester is
245 considered a lay user.

246 **3.22** *Lot number*: A distinctive set of numbers and/or letters that specifically identifies a
247 medical device or IVD medical device batch and permits its manufacturing, packaging,
248 labeling and distribution history to be traced. (Adapted from ISO 18113-1: 2011)

249 NOTE 1: This can also be referred to as the lot code, batch number, or batch code.

250 **3.23** *Manufacturer*: “Manufacturer” means any natural or legal person² with responsibility for
251 design and/or manufacture of a medical device with the intention of making the medical
252 device available for use, under their name; whether or not such a medical device is
253 designed and/or manufactured by that person themselves or on their behalf by another
254 person(s). (GHTF/SG1/N055:2009)

255 NOTE 1: This ‘natural or legal person’ has ultimate legal responsibility for ensuring
256 compliance with all applicable regulatory requirements for the medical device in the
257 countries or jurisdictions where it is intended to be made available or sold, unless this
258 responsibility is specifically imposed on another person by the Regulatory Authority
259 within that jurisdiction.

260 NOTE 2: The manufacturer’s responsibilities are described in other GHTF guidance
261 documents. These responsibilities include meeting both pre-market requirements and post-
262 market requirements, such as adverse event reporting and notification of corrective actions.

263 NOTE 3: ‘Design and/or manufacture’, as referred to in the above definition, may include
264 specification development, production, fabrication, assembly, processing, packaging,
265 repackaging, labeling, relabeling, sterilization, installation, or remanufacturing of a
266 medical device; or putting a collection of devices, and possibly other products, together for
267 a medical purpose.

268 NOTE 4: Any person who assembles or adapts a medical device that has already been
269 supplied by another person for an individual patient, in accordance with the instructions for
270 use, is not the manufacturer, provided the assembly or adaptation does not change the
271 intended use of the medical device.

272 NOTE 5: Any person who changes the intended use of, or modifies, a medical device
273 without acting on behalf of the original manufacturer and who makes it available for use
274 under his own name, should be considered the manufacturer of the modified medical
275 device.

276 NOTE 6: An authorised representative, distributor or importer who only adds its own
277 address and contact details to the medical device or the packaging, without covering or
278 changing the existing labeling, is not considered a manufacturer.

² The term “person” that appears here and in the other definitions of this document, includes legal entities such as a corporation, a partnership or an association.

279 NOTE 7: To the extent that an accessory is subject to the regulatory requirements of a
 280 medical device³, the person responsible for the design and/or manufacture of that accessory
 281 is considered to be a manufacturer.

282 **3.24 Medical Device:** Any instrument, apparatus, implement, machine, appliance, implant,
 283 reagent for in vitro use, software, material or other similar or related article, intended by
 284 the manufacturer to be used, alone or in combination, for human beings, for one or more of
 285 the specific medical purpose(s) of:

- 286 • diagnosis, prevention, monitoring, treatment or alleviation of disease,
- 287 • diagnosis, monitoring, treatment, alleviation of, or compensation for, an injury,
- 288 • investigation, replacement, modification, or support of the anatomy, or of a physiologi-
 289 cal process,
- 290 • supporting or sustaining life,
- 291 • control of conception,
- 292 • cleaning, disinfection or sterilization of medical devices,
- 293 • providing information by means of in vitro examination of specimens derived from
 294 the human body;

295 and does not achieve its primary intended action by pharmacological, immunological, or
 296 metabolic means, in or on the human body, but which may be assisted in its intended
 297 function by such means.

298 Note: Products which may be considered to be medical devices in some jurisdictions but
 299 not in others include:

- 300 • disinfection substances,
- 301 • aids for persons with disabilities,
- 302 • devices incorporating animal and/or human tissues,
- 303 • devices for in-vitro fertilization or assisted reproduction technologies.

304 (Adapted from GHTF/SG1/N071:2012)

305 NOTE 1: For clarification purposes, in certain regulatory jurisdictions, devices for
 306 cosmetic/aesthetic purposes are also considered medical devices.

307 NOTE 2: For clarification purposes, in certain regulatory jurisdictions, the commerce of
 308 devices incorporating human tissues is not allowed.

³ See GHTF/SG1/N29 *Information Document Concerning the Definition of the Term “Medical Device”*

- 309 **3.25** *Packaging*: Product to be used for the containment, protection, handling, delivery, storage,
310 transport and presentation of goods, from raw materials to processed goods, from the
311 producer to the user or consumer, including processor, assembler or other intermediary.
312 (ISO 21067-1:2016)
- 313 **3.26** *Patient*: An individual under the care of a healthcare provider who may benefit from the
314 action of a medical device. A patient may also be a user of a medical device.
- 315 **3.27** *Performance*: The ability of a medical device to achieve its intended purpose as stated by
316 the manufacturer. Performance may include both clinical and technical aspects.
- 317 **3.28** *Performance of an IVD Medical Device*: The ability of an IVD medical device to achieve
318 its intended use/intended purpose as claimed by the manufacturer. The performance of an
319 IVD medical device consists of the analytical and, where applicable, the clinical
320 performance supporting the intended use of the IVD medical device.
321 (GHF/SG5/N6:2012)
- 322 **3.29** *Precaution*: Information regarding any special care users should exercise for the safe and
323 effective use of the device or IVD device, or to avoid damage to the device or IVD medical
324 device that could occur as a result of use, including misuse (Adapted from ISO 18113-1).
- 325 **3.30** *Production Identifier (UDI-PI)*: The Production Identifier is a numeric or alphanumeric
326 code that identifies the unit of device production. The different types of Production
327 Identifier(s) include serial number, lot/batch number, Software as a Medical Device
328 (SaMD) version and manufacturing and/or expiration date. (GHF UDI WG/N7: 2013)
- 329 **3.31** *Regulatory Authority (RA)*: A government body or other entity that exercises a legal right
330 to control the use or sale of medical devices within its jurisdiction, and that may take
331 enforcement action to ensure that medical products marketed within its jurisdiction comply
332 with legal requirements. (IMDRF/GRRP WG/N040:2017)
- 333 **3.32** *Risk*: Combination of the probability of occurrence of harm and the severity of that harm.
334 (ISO/IEC Guide 51:2014)
- 335 **3.33** *Safety*: Freedom from unacceptable risk. (ISO/IEC Guide 51:2014)
- 336 **3.34** *Self-Testing*: A medical device or IVD medical device used by a lay user who is
337 responsible for collecting the data or specimen, by themselves and on themselves, relying
338 solely on the instructions provided by the manufacturer. This use can also include
339 performing the test and interpreting the results by themselves and on themselves.
- 340 **3.35** *Shelf-Life*: Period of time until the expiry date during which a medical device in its original
341 packaging maintains its stability under the storage conditions specified by the
342 manufacturer.
- 343 NOTE: Stability (3.38) and expiry date (3.12) are related concepts
344
345 (Adapted from ISO 18113-1:2009)

346 **3.36** *Single Use Device*: A medical device or IVD medical device that is intended to be used on
 347 an individual patient during a single procedure and then disposed of. It is not intended to
 348 be reprocessed and used again.

349 **3.37** *Stability*: Ability of a medical device and IVD medical device to maintain its safety and
 350 performance characteristics within the manufacturer's specifications over a specified
 351 period of time.

352 NOTE 1: Stability applies to

- 353 - Sterile and non-sterile medical devices whose physical, chemical or functional
- 354 properties may be altered or compromised over a stated time interval;
- 355 - IVD reagents, calibrators and controls, when stored, transported and used in
- 356 the conditions specified by the manufacturer,
- 357 - Reconstituted lyophilized materials, working solutions and material removed
- 358 from sealed containers, when prepared, used and stored according to the
- 359 manufacturer's instructions for use,
- 360 - Measuring instruments or measuring systems after calibration.

361 NOTE 2 Stability of an IVD reagent or measuring system is normally quantified with
 362 respect to time and specified conditions

- 363 - In terms of the duration of a time interval over which a measured property
- 364 changes by a stated amount or
- 365 - In terms of the change of a property under specified conditions.

366

367 (Adapted from ISO 18113-1:2009)

368 **3.38** *Unique Device Identifier*: The UDI is a series of numeric or alphanumeric characters that is
 369 created through a globally accepted device identification and coding standard. It allows the
 370 unambiguous identification of a specific model or version of medical device on the market
 371 along with its associated production information. The UDI is comprised of the UDI-DI and
 372 UDI-PI. (Adapted from GHTF UDI WG/N7: 2013)

373 NOTE 1: The word "Unique" does not imply serialization of individual production units.

374 **3.39** *User*: The person, professional or lay, who uses a medical device. The patient may be that
 375 user. (GHTF/SG1/N070:2011)

376 **3.40** *Warning*: Information describing a situation for which there is a foreseeable serious hazard
 377 with the use of the device.

378

379 **4.0 Principles for Medical Device and IVD Medical Device Identification**

380 Medical devices and IVD medical devices may be identifiable in multiple ways, as described
 381 below. The ways in which identifier information should be included in the labeling are discussed
 382 in subsequent sections of this document.

383 **4.1** The medical device or IVD medical device should be identifiable via a method that allows
384 differentiation from other products of the same type, such as through the use of a brand or
385 trade name.

386 **4.2** A medical device or IVD medical device should be identified with a catalogue number. A
387 combination of medical devices or IVD medical devices or accessories may also be so
388 identified. Each catalogue number should only involve one defined product specification.

389 **4.3** If required by the relevant authority, a medical device or IVD medical device should be
390 identified with Unique Device Identifier (UDI) and the UDI-DI should be linked to a
391 catalogue number in the UDID. UDI should be issued under a system operated by an
392 accredited issuing agency/entity and conform to relevant international standards.

393 For guidance on the information to be incorporated within the label for UDI purposes, refer
394 to the IMDRF guidance document on this subject⁴.

395 **5.0 General Labeling Principles for Medical Devices and IVD Medical Devices**

396 This section describes the general principles that apply equally to all medical devices and IVD
397 medical devices. The primary purpose of labeling is to identify the medical device or IVD
398 medical device and its manufacturer, and provide essential information about its safety,
399 performance and appropriate use to the user, professional or lay, or other person, as appropriate.
400 Such information may appear on the device itself, on packaging or as instructions for use. These
401 documents should be developed and evaluated using risk management principles⁵ and usability
402 engineering processes⁶. Certain jurisdictions may require the inclusion of additional
403 information.

404
405 The following principles are recommended.

⁴ For additional guidance refer to IMDRF/UDI WG/N7 FINAL:2013 *Unique Device Identification (UDI) of Medical Devices*

⁵ For additional guidance refer to ISO 14971: 2007 *Medical Devices – Application of Risk Management to Medical Devices*

⁶ For additional guidance refer to IEC 62366-1:2015 *Medical Devices – Part 1: Application of the Usability Engineering Process to Medical Devices*

406 5.1 Labeling

407 **5.1.1** The medium, format, content, legibility, and location of the labeling should be
408 appropriate to the particular medical device or IVD medical device, its intended
409 purpose, and intended users to ensure safe and appropriate use, taking into
410 consideration the following:

- 411 • user education;
- 412 • user training;
- 413 • any special needs of the persons for whom the device is intended; and
- 414 • the location and environment in which the device can be used.

415
416 **5.1.2** Country-specific requirements for the content of the labeling should be kept to the
417 minimum and, where they currently exist, eliminated as the opportunity arises.

418 **5.1.3** Depending on the requirements of the RA having jurisdiction, labeling may be
419 provided in one or more language(s). Languages may be identified using the plain
420 text name of the language or a language code⁷.

421 **5.1.4** The use of internationally recognised symbols⁸ in labeling should be encouraged
422 provided that device safety is not compromised by a lack of understanding on the
423 part of the user. Where the meaning of the symbol is not obvious to the device user,
424 e.g. for a newly introduced symbol, an explanation should be provided within the
425 instructions for use.

426 **5.1.5** Residual risks that are to be communicated to the user and/or other persons should
427 be included in the labeling.

428 **5.1.6** If required by the RA having jurisdiction, the labeling should include a summary of
429 the performance studies and clinical investigations used to demonstrate
430 conformance with regulatory review principles and that demonstrate the safety and
431 clinical performance of the medical device or IVD medical device for its intended
432 use. This summary should include but may not be limited to a summary of the
433 investigation, clinical performance and outcome data, clinical safety information,
434 and a summary of the clinical benefit. If not contained in the instructions for use, a
435 reference should be included as to where such information may be accessed.

436

⁷ For additional guidance refer to ISO 639-1:2002.

⁸ Such as those found in ISO 15223-1:2016 *Medical devices -- Symbols to be used with medical device labels, labeling and information to be supplied -- Part 1: General requirements*

437 **5.2 Label**

438 The label should contain the following, which may appear on the medical device or IVD
439 medical device itself, on the packaging of each unit, or on the packaging of multiple medical
440 devices or IVD medical devices. It is important to note that medical device and IVD medical
441 device kits may include individual reagents, articles, or medical devices that may be made
442 available as separate medical devices or IVD medical devices. In this situation, those individual
443 medical devices and IVD medical devices contained in the kit should comply with the label
444 content principles in this section.

- 445 **5.2.1** The information required on the label should be provided on the device itself. If
446 this is not practicable or appropriate (for example, contact lenses, bone cement,
447 software, etc.), some or all the information may appear on the packaging for each
448 unit, and/or on the packaging of multiple devices. If UDI is required by the RA
449 having jurisdiction, it should be on the label and on all device packages, and, for
450 reprocessed devices intended to be used more than once, it should be provided on
451 the device itself.
- 452 **5.2.2** The label on the outside packaging should include any special handling measures or
453 permissible environmental conditions for storage and transport of the medical
454 device or IVD medical device. Where premature unpacking of a medical device or
455 IVD medical device or its parts could result in an unacceptable risk, the packaging
456 should be marked appropriately. If UDI is required by the RA having jurisdiction,
457 the UDI-DI record should include the storage condition.
- 458 **5.2.3** Where relevant, the label on the packaging should include an indication of the net
459 quantity of contents, expressed in terms of weight or volume (including volume
460 after reconstitution), numerical count, or any combination of these or other terms
461 which accurately reflects the contents of the package. If UDI is required by the RA
462 having jurisdiction, the net quantity should be included in the UDID.
- 463 **5.2.4** The label should contain the brand or trade name of the medical device or IVD
464 medical device. If UDI is required by the RA having jurisdiction, the brand or trade
465 name should also appear in the UDID.
- 466 **5.2.5** The details strictly necessary for a user to identify the device and its use, e.g.
467 ‘cardiac ablation catheter 10 French / 20 cms’ or ‘paediatric thermometer’ or
468 ‘Blood Glucose Meter’ or ‘HIV-1/HIV-2 Antibody Test’. If UDI is required by the
469 RA having jurisdiction, this information should match and be stored in the
470 appropriate field(s) of the UDID.
- 471 **5.2.6** The label should be provided in a human-readable format but may be supplemented
472 by machine-readable forms, such as radio-frequency identification (RFID) or bar
473 codes⁹. If UDI is required by the RA having jurisdiction, please follow the
474 requirements of the appropriate UDI issuing agency/entity.
- 475 **5.2.7** In jurisdictions that have implemented a UDI system, the UDI of the medical device
476 or IVD medical device in human-readable format and machine readable form
477 should be on the label of the medical device or IVD medical device. There should
478 be only one machine readable format on the label; if there are multiple, there should
479 be a clear indication to anyone relying on capture/use of this format throughout
480 distribution and use, including the provider of care, which machine readable format
481 to scan when and for what purpose.

⁹ For additional guidance refer to IMDRF/UDI WG/N7 FINAL:2013 *Unique Device Identification (UDI) of Medical Devices*

- 482 **5.2.8** If a catalogue number is used to identify the medical device or IVD medical device,
483 the label should include this catalogue number. In jurisdictions that have
484 implemented a UDI system, a UDI should be used to identify the device and the
485 catalogue number should be linked in the UDID to a UDI.
- 486 **5.2.9** The label should contain the name and full address of the manufacturer or
487 authorized representative in a format that is recognizable and allows the location of
488 the manufacturer to be established. A full address should contain information
489 related to the physical location such as street/road, number/floor/house, city,
490 state/region, postal code, country, etc. An abbreviated version of the address may
491 be sufficient on the label if the device is accompanied by instructions for use that
492 provide a full address. If UDI is required by the RA having jurisdiction, the name of
493 the manufacturer should also appear in the UDID.
- 494 **5.2.10** For imported medical devices or IVD medical devices, the label should contain the
495 name and postal address of the authorised representative (such as the importer or
496 distributor) in the importing country/jurisdiction, if such information is required by
497 the RA having jurisdiction. This information may be added by the authorised
498 representative within the country of import, rather than be provided by the
499 manufacturer, in which case, the additional information should not obscure any of
500 the manufacturer's labels.
- 501 **5.2.11** If the label includes symbols and safety-related identification colors¹⁰, the marking
502 should be described and explained, where necessary.
- 503 **5.2.12** The label should include the batch code, batch number, lot code, lot number, serial
504 number, control number, or version number of the medical device or IVD medical
505 device, as appropriate. If UDI is required by the RA having jurisdiction, the UDI
506 would include the appropriate UDI-PI.
- 507 **5.2.13** The label should include an unambiguous indication of the date until when the
508 device may be used safely, expressed at least as the year and month (e.g. on
509 devices supplied sterile or single use disposable devices), where this is relevant.
510 Where there is no indication of the date until when it may be used safely, the year
511 of manufacture should be provided. This year of manufacture may be included as
512 part of the batch or serial number, provided the date is clearly identifiable. If UDI
513 is required by the RA having jurisdiction, the UDI would include the expiry date
514 and manufacturer date in the UDI-PI.
- 515 **5.2.14** If the medical device or IVD medical device is supplied sterile, the label should
516 include an indication of the device's sterile state and, where applicable, the
517 sterilization method. If UDI is required by the RA having jurisdiction, the
518 sterilization information on the label would be included in the UDI-DI record of the
519 UDID.

¹⁰ For additional guidance see ISO 3864-1:2011 *Graphical Symbols. Safety Colours and Safety Signs. Part 1: Design Principles for Safety Signs and Safety Markings*

- 520 **5.2.15** Where appropriate, the label should state that the medical device or IVD medical
521 device contains or incorporates a medicinal or biological substance, e.g. heparin-
522 coated catheter or drug-coated stent.
- 523 **5.2.16** The label should include any warnings or precautions to be taken that need to be
524 brought to the immediate attention of the user of the medical device or IVD medical
525 device as relevant, and to any other person where appropriate (e.g. ‘CAUTION –
526 HOT SURFACE’ or ‘THIS PRODUCT CONTAINS LATEX’ or ‘CONTAINS
527 POTENTIALLY INFECTIOUS MATERIAL’). This information may be kept to a
528 minimum, in which case more detailed information should appear in the
529 instructions for use.
- 530 **5.2.17** If the medical device or IVD medical device is intended by the manufacturer for
531 single-use only, reuse on a single patient, and/or reuse on more than one patient, the
532 label should indicate this.¹¹ If UDI is required by the RA having jurisdiction, the
533 UDI-DI record should indicate the sterility information in the UDID.
- 534 **5.2.18** If the medical device or IVD medical device is intended only for premarket clinical
535 investigational, premarket performance evaluation, non-clinical research, or
536 presentation or demonstration purposes, the label should indicate this specific use.
537 In these situations, some of the principles listed in this document may not apply.
- 538 **5.3 Instructions for Use**
- 539 **5.3.1** Instructions for use should be written in terms readily understood by the intended
540 user and, where appropriate, supplemented with drawings and diagrams near the
541 corresponding text. Some medical devices or IVD medical devices may include
542 separate information for the professional user and the lay person.
- 543 **5.3.2** Where the manufacturer supplies multiple medical devices or IVD medical devices
544 to a single user and/or location, it may be sufficient to provide only a single copy of
545 the instructions for use. In these circumstances, the manufacturer should provide
546 further copies upon request or make the electronic format available.
- 547 **5.3.3** Instructions for use may not be needed or may be abbreviated for certain medical
548 devices or IVD medical devices if they can be used safely and as intended by the
549 manufacturer without any such instructions for use. Justification for any omission
550 should be described in the manufacturer’s risk analysis for the medical device or
551 IVD medical device.
- 552 **5.3.4** Instructions for use may be provided to the user either in paper or non-paper format
553 (e.g. electronic). They may be supplied by various means either with the medical

¹¹ According to Note 5 of GHTF/SG1/N055:2009 *Definitions of the Terms Manufacturer, Authorised Representative, Distributor and Importer*, any person who changes the intended use of, or modifies, a medical device without acting on behalf of the original manufacturer and who makes it available for use under his own name, should be considered the manufacturer of the modified medical device. As a consequence, a reprocessor of a single use device would be subject to the same requirements as those applicable to a manufacturer.

554 device or IVD medical device or separate from it. Examples of other means are
555 information displayed on a screen incorporated into the medical device or IVD
556 medical device, information downloaded from the manufacturer's web site using
557 the internet, and machine-readable sources. The means chosen should be
558 appropriate for, and accessible to, the anticipated user population. Any updates to
559 the IFU need to be consistent across paper and electronic formats whether they are
560 retrospective or batch specific.

561 **5.3.5** If the manufacturer has a website, the instructions for use may also be made
562 available on that website. In this situation, the medical device or IVD medical
563 device packaging should include a means for the user to easily access the electronic
564 instructions for use via inclusion of a web address or other information. For
565 jurisdictions that have a UDID and capture the link, the link should be recorded in
566 the UDID.

567 **5.3.6** Where instructions for use are provided on a medium other than paper, the
568 manufacturer should ensure the user has information on how to:

- 569 • view the instructions for use;
- 570 • access the correct version of the instructions for use; and
- 571 • obtain a paper version of the instructions for use.

572 NOTE: The RA having jurisdiction may set the conditions under which such non-
573 paper format should be provided to guarantee a high level of protection of health.
574 Those conditions may specify the types of medical devices or IVD medical devices
575 that can use a non-paper format and the requirements the manufacturer needs to
576 respect, such as, that the manufacturer should upon request provide a paper version
577 of the instructions for use free of charge.

578 **5.3.7** The instructions for use should contain the name or trade name of the medical
579 device or IVD medical device.

580 **5.3.8** The instructions for use should include a description of the medical device or IVD
581 medical device. This description should include but may not be limited to a
582 summary of the design of the medical device or IVD medical device and how it is
583 intended to be used.

584 **5.3.9** The instructions for use should contain the name and address of the manufacturer in
585 a format that is recognizable and allows the location of the manufacturer to be
586 established (e.g., street/road, number/floor/house, city, state/region, postal code,
587 country, etc.), together with contact information (e.g., a telephone number and/or
588 fax number and/or website address) to obtain technical assistance.

- 589 **5.3.10** The instructions for use should state the medical device's or IVD medical device's
590 intended use/purpose, including the intended user (e.g. professional or lay person),
591 as appropriate.
- 592 **5.3.11** The instructions for use should state the performance of the medical device or
593 analytical performance of the IVD medical device claimed by the manufacturer.
- 594 **5.3.12** The instructions for use should include any specifications the user requires to use,
595 process, and maintain the device appropriately. For example, if the medical device
596 or IVD medical device performs any measurements, the instructions for use should
597 include the claimed limits of accuracy.
- 598 **5.3.13** The instructions for use should include information that allows the user and/or
599 patient to be sufficiently informed of any warnings, precautions, measures to be
600 taken and limitations of use regarding the medical device or IVD medical device.
601 This information should cover, where appropriate:
- 602 a) warnings, precautions and/or measures to be taken in the event of malfunction of
603 the medical device or IVD medical device or changes in its performance that
604 may affect safety;
- 605 b) warnings, precautions and/or measures to be taken in regards to the exposure to
606 reasonably foreseeable external influences or environmental conditions, such as
607 magnetic fields, external electrical and electromagnetic effects, electrostatic
608 discharge, radiation associated with diagnostic or therapeutic procedures,
609 pressure, humidity, or temperature;
- 610 c) warnings, precautions and/or measures to be taken in regards to the risks of
611 interference posed by the reasonably foreseeable presence of the medical device
612 or IVD medical device during specific diagnostic investigations, evaluations,
613 therapeutic treatment or use (e.g. electromagnetic interference emitted by the
614 device affecting other equipment);
- 615 d) precautions related to materials incorporated into the device that are
616 carcinogenic, mutagenic or toxic, or could result in sensitisation or allergic
617 reaction of the patient or user.
- 618 e) precautions related to potentially infectious material that is included in a medical
619 device or IVD medical device.
- 620 f) warnings, precautions and/or limitations related to the medicinal substance or
621 biological material that is incorporated into or included with the medical device
622 or IVD medical device.
- 623 **5.3.14** The instructions for use should include any recommended quality control
624 procedures to be taken to verify that the medical device or IVD medical device
625 performs as intended, including the following if applicable:

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- 626 a) the procedure for using the available controls;
- 627 b) instructions recommending the frequency of use;
- 628 c) the limitations of the quality control procedure, clearly delineated;
- 629 d) how the user should interpret the quality control procedure results, including a
- 630 description of whether test results can or cannot be accepted when a quality
- 631 control procedure fails; and
- 632 e) the actions to be taken if there is a failure of any of the controls.

633 **5.3.15** If the medical device or IVD medical device incorporates or includes a medicinal

634 substance and/or material of biological origin, the instructions for use should

635 identify that substance or material, and list any warnings, precautions and/or

636 limitations related to this substance.

637 **5.3.16** The instructions for use should include any relevant residual risks,

638 contraindications, and any expected and foreseeable side effects, including

639 information to be conveyed to the patient in this regard.

640 **5.3.17** The instructions for use should include the details of any preparatory treatment or

641 handling of the medical device or IVD medical device before it is ready for use

642 (e.g., sterilization, identification of other necessary equipment not provided with the

643 medical device or IVD medical device, final assembly, reconstitution, calibration,

644 etc).

645 **5.3.18** The instructions for use should include any requirements for special facilities (e.g.

646 clean room environment), or special training, or particular qualifications of the user

647 and/or third parties.

648 **5.3.19** The instructions for use should include any information needed to verify whether

649 the medical device or IVD medical device is properly installed and is ready to

650 perform safely and as intended by the manufacturer, including (where relevant)

651 details of the nature, and frequency, of preventative and regular maintenance, and of

652 any preparatory cleaning or disinfection; identification of any consumable

653 components and how to replace them; information on any necessary calibration to

654 ensure that the device operates properly and safely during its intended life span; and

655 methods of mitigating the risks encountered by persons involved in installing,

656 calibrating or servicing medical devices or IVD medical devices.

657 **5.3.20** The instructions for use should include an indication of any special storage (e.g.

658 temperature, light, humidity, etc.) and/or handling conditions that apply.

659 **5.3.21** The instructions for use should include any warnings or precautions to be taken

660 related to the disposal of the medical device or IVD medical device, its accessories

661 and the consumables used with it, if any. This information should cover, where

662 appropriate:

-
- 663 a) infection or microbial hazards (e.g. explants, needles or surgical equipment
664 contaminated with potentially infectious substances of human origin);
- 665 b) environmental hazards (e.g. batteries or materials that emit potentially
666 hazardous levels of radiation);
- 667 c) physical hazards (e.g. from sharps).
- 668 **5.3.22** If the medical device or IVD medical device is supplied sterile, the instructions for
669 use should include instructions to be followed in the event of the sterile packaging
670 being damaged or unintentionally opened before use.
- 671 **5.3.23** If the medical device or IVD medical device is supplied non-sterile with the
672 intention that it is sterilized before use, the instructions for use should include
673 appropriate instructions for sterilization and should also include instructions for
674 cleaning the device prior to sterilization, if cleaning is required.
- 675 **5.3.24** If the medical device or IVD medical device is reusable, the instructions for use
676 should include information on the appropriate processes to allow reuse, including
677 cleaning, disinfection, packaging and, where appropriate, the method of re-
678 sterilization. Information should be provided to identify when the device should no
679 longer be reused, e.g. signs of material degradation or the maximum number of
680 allowable reuses.
- 681 **5.3.25** For medical devices or IVD medical devices intended for use together with other
682 medical devices, IVD medical devices, and/or general purpose equipment, the
683 instructions for use should include information sufficient to identify such devices or
684 equipment, in order to obtain a safe combination, and/or information on any known
685 restrictions to combinations of medical devices or IVD medical devices and
686 equipment.
- 687 **5.3.26** If the medical device or IVD medical device emits hazardous, or potentially
688 hazardous levels of radiation for medical purposes, the instructions for use should
689 include detailed information as to the nature, type and where appropriate, the
690 intensity and distribution of the emitted radiation; and/or the means of protecting
691 the patient, user, or third party from unintended radiation during use of the device.
- 692 **5.3.27** The instructions for use should state the date of issue or latest revision of the
693 instructions for use and, where appropriate, an identification number.
- 694

695 **6.0 General Labeling Principles for Medical Devices other than IVD Medical** 696 **Devices**

697 **6.1 Label**

698 **6.1.1** If the medical device is for use by a single individual and has been manufactured
699 according to a written prescription or pattern (i.e. it is patient-specific), the label
700 should indicate this fact. For jurisdictions that have a UDID and capture whether a
701 medical device or IVD medical device is only available via prescription from a
702 medical professional, this designation should be indicated in the UDI-DI record of
703 the UDID.

704 **6.2 Instructions for Use**

705 **6.2.1** If the medical device administers medicinal or biological products, the instructions
706 for use should indicate any limitations or incompatibility in the choice of
707 substances to be delivered.

708

709 **7.0 General Labeling Principles for IVD Medical Devices**

710 **7.1 Label**

711 **7.1.1** The label should include an indication that the device is for in vitro diagnostic use.
712 If UDI is required by the RA having jurisdiction, the label should include the UDI.

713 **7.2 Instructions for Use**

714 **7.2.1** The description of the intended use should include the following, where
715 applicable:

- 716 • what the device measures or detects;
- 717 • its function (e.g. screening, monitoring, diagnosis or aid to diagnosis,
718 prognosis, prediction, companion diagnostics);
- 719 • the specific disorder, condition or risk factor of interest that it is intended to
720 detect, define or differentiate;
- 721 • whether it is automated or not;
- 722 • what the device reports (e.g., qualitative test, semi-quantitative, quantitative
723 test);
- 724 • the type of specimen(s) (e.g. serum, plasma, whole blood, tissue biopsy,
725 urine) required including the specimen source(s) (e.g. capillary whole blood
726 from arm), matrix (e.g. EDTA tube), time (e.g. 8 hours after injury) and
727 collection method (e.g. self-collected urine); and

728

- target population (on whom the IVD medical device is used).

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- 729 **7.2.2** The instructions for use should include a statement of the test principle(s), such as
730 the general biological, chemical, microbiological, immunochemical and other
731 principles on which the IVD medical device is based. Proprietary information need
732 not be disclosed, but provide enough detail to allow the user to understand how the
733 IVD medical device is able to carry out its function.
- 734 **7.2.3** The instructions for use should include a description of the reagent, calibrators and
735 controls and any limitation upon their use (e.g. suitable for a dedicated instrument
736 only).
- 737 NOTE: IVD medical device kits include individual reagents and articles that may
738 be made available as separate IVD medical devices. In this situation, where
739 appropriate, these IVD medical devices should comply with the instructions for
740 use content in this section.
- 741 **7.2.4** The instructions for use should include a list of materials provided and a list of
742 special materials required but not provided.
- 743 **7.2.5** The instructions for use should include a description of in-use stability. This may
744 include the storage conditions prior to opening and shelf-life following the first
745 opening of the primary container, together with the storage conditions and
746 stability of working solutions, where this is relevant.
- 747 **7.2.6** The instructions for use should list the conditions for collection, shipping,
748 handling, and preparation of the specimen.
- 749 **7.2.7** Where relevant, the instructions for use should include the metrological
750 traceability of values assigned to calibrators and trueness-control materials,
751 including identification of applicable reference materials and/or reference
752 measurement procedures of higher order.
- 753 **7.2.8** The instructions for use should describe the assay procedure including
754 calculations and interpretation of results, any additional software or reference
755 database required, and where relevant, if any confirmatory testing should be
756 considered.
- 757 **7.2.9** The instructions for use should list the analytical performance characteristics,
758 such as precision, sensitivity, specificity, and accuracy (which is a combination of
759 trueness and precision).
- 760 **7.2.10** Where relevant, the instructions for use should list the clinical performance
761 characteristics (e.g. diagnostic sensitivity, diagnostic specificity, positive
762 predictive value, negative predictive value, likelihood ratio, expected values in
763 normal and affected populations, etc.).
- 764 **7.2.11** Where relevant, the instructions for use should include the reference intervals in
765 normal and affected populations.

766 **7.2.12** The instructions for use should include information on any interfering substances
767 or limitations (e.g. visual evidence of hyperlipidaemia or haemolysis, age of
768 specimen/sample) that may affect the performance of the assay.

769 **7.2.13** Where relevant, the instructions for use should include a bibliography.

770

771 **8.0 Labeling Principles for Software as a Medical Device**

772 **8.1** Software that is incorporated into a medical device or IVD medical device or that is
773 intended for use as software as a medical device (SaMD) should be identified with a
774 unique identifier, such as version, revision level or date of release/issue and should be
775 available to the intended user.

776 **8.2** For software embedded into a medical device or IVD medical device, the identification
777 need not be on the outside of the medical device or IVD medical device.

778 **8.3** For SaMD without a physical form or packaging, the label may be available electronically.
779 In this situation, the medical device should incorporate a means for the user to easily
780 access the electronic label via inclusion of a web address or other information.

781 **9.0 Labeling Principles for Medical Devices and IVD Medical Devices** 782 **Intended for Use by Lay Persons**

783 **9.1** The information and instructions provided by the manufacturer should be easy for the
784 intended lay user to understand and apply, in order to correctly interpret the result provided
785 by the device.

786 **9.2** Instructions for use intended to be used principally by lay users should be available in a
787 format appropriate and accessible to the lay user.

788 **9.3** Some devices may include separate information for the professional user and the lay
789 person, e.g. a simplified job aid for lay persons. This information should agree with the
790 instructions for use, and should state the clearly the version it relates to where applicable. It
791 should be written at a level consistent with the education, training and any special needs of
792 its intended readers

793 **9.4** The language of the intended use statement may be simplified in an instructions for use
794 used by lay persons (including self-testing), provided key messages remain. In addition,
795 instructions for use for home use medical devices or self-testing IVD medical devices may
796 omit some of the recommended elements, provided this does not affect safety or
797 performance. Justification for any omission should be described in the manufacturer's risk
798 analysis for the product.

799 **9.5** Interpretation of results should include pictorial representations of all possible test results
800 (including when a device has failed to provide a valid result) for medical devices or IVD
801 medical devices that give a visual readout, where possible.

802 **9.6** For medical devices or IVD medical devices intended for use by lay persons, the
803 instructions for use should clearly and concisely describe the circumstances when the user
804 should consult with a healthcare professional.

805 **9.7** For IVD medical devices intended for self-testing, the instructions for use should clearly
806 state this.

807 **10.0 Labeling Principles for Information Intended for the Patient**

808 The following principles describe general considerations for information intended to be provided
809 to the patient before or after use of the medical device. Note that the principles below may only
810 apply to certain types of products, and depend on the particular medical device and RA having
811 jurisdiction as to what principles may apply.

812 **10.1** Information that is specifically intended for the patient should be provided with the
813 medical device.

814 **10.2** If the information intended for the patient includes an implant card, the card should clearly
815 identify the medical device or, if UDI is required by the RA having jurisdiction, the UDI of
816 the implant should be identifiable prior to implantation, be available to be scanned, parsed
817 into DI + PI and the DI should be used to pull data from the relevant UDID into the
818 patient's health record. In addition, the data recorded on the implant card should include
819 the following:

820 a) The name or trade name of the medical device. If UDI is required by the RA having
821 jurisdiction, obtained from UDI-DI linked to UDID.

822 b) The details strictly necessary for a user to identify the medical device and its use, e.g.
823 'transcatheter heart valve' or 'synthetic hernia mesh'. If UDI is required by the RA
824 having jurisdiction, obtained from UDI-DI linked to UDID.

825 c) The information should be provided in a human-readable format but may be
826 supplemented by machine-readable forms, such as bar codes. If UDI is required by
827 the RA having jurisdiction, human readable and machine-readable format should
828 following requirements of accredited issuing agency/entity.

829 d) If a catalogue number is used to identify the medical device, the number should be
830 included. If UDI is required by the RA having jurisdiction, obtained from UDI-DI
831 linked to this field in UDID.

832 e) The card should contain the name and full address of the manufacturer or authorized
833 representative in a format that is recognizable and allows the location of the
834 manufacturer to be established. A full address should contain information related to
835 the physical location such as street/road, number/floor/house, city, state/region, postal
836 code, country, etc. An abbreviated version of the address may be sufficient if the
837 device information leaflet provides a full address. If UDI is required by the r RA
838 having jurisdiction, obtained from UDI-DI linked to this field in UDID.

839 f) The card and/or data recorded in the health record should include the batch code, batch
840 number, lot code, lot number, serial number, or control number of the medical device,
841 such that it is uniquely identified. If UDI is required by the RA having jurisdiction,
842 obtained from parsing the UDI into UDI-DI + relevant UDI-PI.

843 **10.3** If the information intended for the patient includes an information leaflet, the information
 844 in the leaflet should be written in a way that is readily understood by patients. In addition,
 845 the leaflet should include the information mentioned in the following table, as well as
 846 information established in specific standards, as applicable. Note that the following table
 847 is only a suggestion of the structure and content of the patient information leaflet.

848

Item	Information to be included
1	(a) the UDI-DI (b) the name of the medical device; and (c) the model of the medical device.
2	(a) the intended purpose; and (b) the kind of patient on whom the medical device is intended to be used.
3	Any special operating instructions for the use of the medical device.
4	(a) the intended performance of the medical device; and (b) any undesirable side effects that could be caused by use of the medical device.
5	Warnings about any residual risks that may remain due to any shortcomings of the protection measures adopted.
6	(a) warnings about risks that could arise from the interaction of the medical device with other equipment; and (b) precautions and other measures that, because of those risks, should be taken by the patient or a health professional. Example 1: The risk of electrical interference from electro-surgical medical devices. Example 2: The risk of magnetic field interference from magnetic resonance imaging medical devices.
7	(a) the nature and frequency of regular or preventative examination, monitoring or maintenance that should be undertaken; and (b) symptoms that could indicate that the medical device is malfunctioning; and (c) precautions and other measures that should be taken by the patient if the performance of the medical device changes or the patient experiences any of the symptoms mentioned in paragraph (b); and (d) the expected lifetime; and (e) anything that could shorten or lengthen the expected lifetime; and (f) precautions and other measures that should be taken at, or near, the end of the expected lifetime; and (g) other circumstances in which the patient should contact a health professional in relation to the operation of the medical device.

Item	Information to be included
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- | | |
|---|--|
| 8 | (a) the materials and substances included in the medical device; and
(b) any manufacturing residuals that could pose a risk to the patient. |
| 9 | (a) a notice that any serious incident that occurs in relation to the medical device should be reported to the manufacturer. |
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