

Best Tools & Tricks for Meeting IVDR Requirements to Obtain CE Marking

8 October 2020 | Free Live Webinar



MEDICAL DEVICE QUALITY IS ALL WE DO, AND WE'RE ALWAYS AHEAD OF THE GAME





Topics

- I. Understanding your existing gaps
- II. Change impact
- III. Planning the pathway forward
- IV. Evidence evaluation
- V. Planning ongoing compliance







Poll # 1

On a scale of 1 (not prepared) to 5 (well-prepared), how prepared is your organization for IVDR compliance?

| a. | 1 | | | |
|----|---|--|--|--|
| b. | 2 | | | |
| c. | 3 | | | |
| d. | 4 | | | |
| e. | 5 | | | |



Understanding your existing gaps





Shift in Notified Body Involvement

IVDD 98/79/EC

IVDR 2017/746





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Source: A. van Drongelen et al."The impact of the new European IVD-classification rules on the notified body involvement; a study on the IVDs registered in the Netherlands". RIVM Letter report 2018-0082. Commissioned by The Dutch Health and Youth Care Inspectorate

Issues with Self-Certified IVDs



Example of Issues with Self-Certified IVDs

ER B3.4

Devices must be designed and manufactured in such a way as to reduce as far as possible the risks of fire or explosion during normal use and in single fault condition. Particular attention must be paid to devices whose intended use includes exposure to or use in association with flammable substances or substances which could cause combustion.







The ER Checklist – An input/output traceability matrix





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Ensuring that Conformity Evidence is Linked







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□ Is the specific documented evidence described?

□ Is the ERC a 'controlled' document?







□ Transition to EN ISO 14971:2019?

- □ Has a device-specific, compliant RMP been established?
- □ Have all reasonably foreseeable hazards been identified?
- Have both 'normal' and 'in fault' condition hazards been considered?
- □ Have the severity of false positive, false negative and invalid test results been appropriately determined?
- Has an appropriate overall benefit-risk analysis been performed?



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□ Are all applicable analytical and clinical performance characteristics supported by the PESR?

□ Is there sufficient traceability to the original data (e.g. references to study protocol/report)?

Is there an appropriate rationale or justification for methodology, including sample sizes, used?

□ Are results appropriately described?

□ Where relevant, is applicability of clinical performance data to EU populations sufficiently described?





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- □ Is the intended purpose/use commensurate with the ERC, RMF and PESR?
- Are summaries of all analytical and clinical performance characteristics described?
- Are all contraindications, warnings, precautions and limitations described consistent with the ERC, RMF and PESR?
- Are there any deficiencies regarding grammar, spelling, translations?





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- □ Has a PMS process been established?
- Are PMS activities commensurate with the nature of the device?
- □ Has the RMF been updated to reflect real-world experience with the device?



Change impact

Changes in qualification/classification

Changes to qualification

- Clarification of certain purposes (e.g. impairments)
- Information concerning predisposition to a medical condition or disease
- To predict treatment response or reactions (CDx)
- IVD MDSW (MDCG 2019-11)

Changes to classification

• Classification changes to all devices

Increased Notified Body involvement means greater need to **justify** the level of evidence







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Poll # 2

Which of the following best describes your main IVD products that you intend to market in the under the IVDR?

- a. Established and standardized
- b. Established and non-standardized
- c. Novel
- d. I'm unsure

IVD Novelty

| Established and Standardized | An international standard or accepted reference materials (e.g. WHO) of the analyte exists, and More than one commercial test is available, and Test produces equivalent results for the analyte regardless of the method/manufacturer. Equivalence will depend on the device, intended purpose/use, risk class, and authority view. |
|--------------------------------------|--|
| Established and Non- Standardized | Tests have clinical guidelines and/or consensus for their use and/or medically accepted as gold standard More than one commercial test available While international reference materials may exist, results obtained from different IVDs might not be used interchangeably |
| Novel | A device which incorporates technology (the analyte, technology or test platform) not previously used in diagnostics and not continuously available on the European Community market during the previous three years, or; An existing device which is being used for a new intended purpose for the first time Not established or standardized |







Planning the pathway forward





Poll # 3

Under the IVDR, results of electric safety and EMC testing are included under the 'Product Verification & Validation' content?

a. True

b. False

Technical Documentation File Compilation (Annex II)



- Guides the user in the compilation of their IVDR TDF
- User directed to provide Appendices or QMS location references for supporting data
- Project management features
- Finished product is a hyperlinked, bookmarked PDF that can be maintained in RAMS SB ("living" document)

| < Projects | | | | | | | |
|---|-----------------------|----------|--------|--------|------------|---------------|-------------|
| Demo SB IV | VDR TDF | | | | IVD | R TDF Builder | User Manual |
| Nodes | Keywords | Comments | Search | App | endices | Activity | Exports |
| Node | | | | Due On | % Complete | Finalized? | Actions |
| 1 - Submission Cover | r Page | | | N/A | 0% | × | ی ک |
| 2 - Approvals and Re | vision Status | | | N/A | 0% | × | ی ک |
| 3 - Administrative Inf | ormation (Start Here) | | | N/A | 11% | × | •÷ |
| 4 - Device Description | n | | | N/A | 0% | × | ۵۵ |
| 5 - Information Supplied by Manufacturer | | | | N/A | 50% | × | ۵ 🖨 |
| 6 - Device Design & Manufacturing Information | | | | N/A | 0% | × | ڪ پ |
| 7 - GSPR | | | | N/A | 0% | × | ی ک |
| 8 - Benefit Risk Analysis | | | | N/A | 0% | × | ی ک |
| 9 - Verification and Validation | | | | N/A | 0% | × | ی ک |
| 10 - Postmarket Surveillance | | | | N/A | 0% | × | ی ک |
| 11 - Appendices | | | | N/A | 0% | × | |







- Extensive template text built into the project
- Minimizes user effort, reduces errors and standardizes content
- Some nodes require very little user input, e.g. Node 4 – Information Supplied by the Manufacturer
- User simply needs to review, confirm and accept auto-populated content

| < Demo SB IVDR TDF | | 75% | | |
|--|---|---|------------------|--|
| Information Supplied by Manufacturer | | Finalized? All sections must be finalized. View Activity | | |
| mormation supplied by Manufacturer | | Due Date: N/A - Edit | | |
| | | Preview: Quick · Download | | |
| In this node, you are prompted to specify the standar Information to be Supplied by the Manufacturer secti will be inserted to the appendices for the device label | Is to which the labeling and Instructions for Use comply. The on will be created automatically using template text; hyperlinks ing and Instructions for Use. | | | |
| In future revisions of this Technical Documentation Fi years/revisions, are still accurate. | e, be sure to confirm that the standards, particularly the | | | |
| | 70,00,00 | Finalized | | |
| Entry: Evangeline Lon on 02 October 2020 1:52 pm (0 | 10+00:00) | Note: Finalized answers can't be updated. | | |
| EN ISO 15223-12016 Medical devices – Symbol: EN ISO 18113-12011 In vitro diagnostic medical EN ISO 18113-22011 In vitro diagnostic medical EN ISO 18113-42011 In vitro diagnostic medical EN ISO 18113-42011 In vitro diagnostic medical EN ISO 18113-42011 In vitro diagnostic medical | 3. Information to be Supplied | by the Manufacturer | | |
| | A complete set of device labels, in the language(to be sold, including labels on the device, single case of specific management conditions) is cont | s) accepted in the Member States where the device is int unit packaging, sales packaging and transport packaging ained in Appendix C of this Technical Documentation ar | ended (in the | |
| | comply with the applicable sections of the IVDR, as well as conform with the following standards: | | | |
| | EN ISO 15223-1:2016 Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied Part 1: General requirements EN ISO 18113-1:2011 In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 1: Terms, definitions and general requirements EN ISO 18113-2:2011 In vitro diagnostic medical devices - Information supplied by the manufacturer | | | |
| | EN ISO 18113-1:2011 In vitro diagnostic medica (labelling) - Part 1: Terms, definitions and genera EN ISO 18113-2:2011 In vitro diagnostic medica | al devices - Information supplied by the manufacturer al requirements al devices - Information supplied by the manufacturer | | |

EN ISO 18113-5:2011 In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 5: In vitro diagnostic instruments for self-testing

3.2 Device Instructions for Use





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- In order to streamline the compilation process, there is logic built into many of the questions within the IVDR TDF Builder
- Responses will enable or disable related questions based on responses provided
- Reduces errors and standardizes approaches



| Entry: Evangeline Loh on 01 October 2020 11:35 am (UTC+00:00) | Ginalized S | | | | |
|---|-------------|--|--|--|--|
| Conformity Assessment Procedure | | | | | |
| \bigcirc Annex IX (Chapters I, III), including an assessment of technical documentation | | | | | |
| | | | | | |





- In order to streamline the compilation process, there is logic built into many of the questions within the IVDR TDF Builder
- Responses will enable or disable related questions based on responses provided
- Reduces errors and standardizes approaches

| Entry: Evangeline Loh on 02 October 2020 1:30 pm (UTC+00:00) | □ Finalized See revision history - | Q |
|---|------------------------------------|---|
| Is the IVD software only? | | |
| ⊖ Yes | | |
| No | | |
| Entry: Evangeline Loh on 01 October 2020 11:35 am (UTC+00:00) | Grinalized | Q |
| Is there software to be used with the IVD? | | |
| Yes | | |
| ⊖ No | | |
| | | |





Technical Documentation File Compilation (Annex II)



Evidence evaluation



Clinical Evidence

- Specify and justify the level of clinical evidence to demonstrate GSPR conformity
- Appropriate in view of the characteristics of the device and its intended purpose







Clinical Evidence



Clinical Evidence

Scientific Validity

 Devices measuring the same analyte or marker

Scientific literature

- Consensus expert opinions/positions
- Proof of concept studies
- Clinical performance studies

Analytical Performance

Analytical performance studies

Clinical Performance

Clinical performance studies

Scientific literature

Published experience

Section 4.5.4, Annex VII

The Notified Body's assessment of the performance evaluation as referred to in Annex XIII shall cover:

...

- Validity of equivalence claimed in relation to other devices, the demonstration of equivalence; the suitability and conclusions data from equivalent and similar devices



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Clinical Evidence – Literature Searches

| Scientific Va | lidity | al Performance | State of the Art | |
|--------------------|---|---|---|--|
| PICO Term | Scientific Validity | Clinical Performance | State of the Art | |
| Patient | Patients suffering from [Clinical condition or disease] | Patients suffering from [Clinical condition or disease] | Patients suffering from [Clinical condition or disease] | |
| Intervention | [Detection of specific analyte] | [Diagnosis with the subject device or equivalent or similar device] | [Diagnostic purpose] | |
| Control/Comparator | N/A | N/A | [Control/Comparator technologies] | |
| Outcome | Correlation | [Device-specific outcomes] | Benefit, Clinical Risks, Alternatives, History | |





Clinical Evidence – Equivalency/Similarity



- e.g. Similar principles of operation
- Biological

e.g. Uses the same materials or substances in contact with same human tissue or body fluids for a similar kind of duration or contact

IVDR

- Clinical
- Technology / Methodology
- Design
- Operating conditions
- Performance characteristics
- Composition



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Planning ongoing compliance



Post-Market Surveillance (PMS)

- PMS system should be planned, established, documented, implemented, maintained and updated in a manner that is proportionate to the risk class and appropriate for the type of device
- Update design and manufacturing PMS is a part of a manufacturer's QMS ٠ information, IFU & labeling Update performance evaluation Quality data Update SSP **PMS** Identification of needs for CAPA or FSCA Performance data Identification of options to improve device usability, performance & safety Safety data Contribute to PMS of other devices Detect and report trends



Update benefit-risk determination and

improve risk management

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PMS / PMPF



PMPF Triggers – Trend Reporting

• Establishing thresholds for statistically significant changes in trends (frequency and severity) and benefit-risk analysis



Probability of occurrence of harm







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