

Transition to the MDR/IVDR - Update

LSA – Lübeck Summer Academy on Medical Technology 2019
Lübeck, June 26th, 2019

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Centre for Regulatory Affairs in Biomedical Sciences - CRABS

Technische Hochschule Lübeck University of Applied Sciences

May 2020 MDR Deadline is 'Realistic and Achievable,' EU Health Commissioner Says

Posted 14 June 2019 | By [Zachary Brennan](#)

While acknowledging that the May 2020 deadline for the implementation of the new medical devices regulation (MDR) is a "significant challenge," the European Commissioner for Health and Food Safety said Friday that the industry and government "are on course to meet it."

Vytienis Andriuskaitis's comments at a meeting of EU Ministers for Employment, Social Policy, Health and Consumer Affairs (EPSCO) in Luxembourg followed [concerns raised](#) this week by German and Irish delegations to the Council of the EU over notified body (NB) capacity and the implementation of MDR.



As far the "crucial issue" of NBs, Andriuskaitis said 51 NB applications have been received by the EC as of Thursday, 29 joint assessments have been performed and the two biggest NBs have been designated (BSI and TÜV SÜD) and hold a significant share of the certificates.

Based on current information, the EC expects 20 NBs to be designated before the end of this year.

And although the number of NBs under the new regulations could be lower when compared to now (Lloyd's Register Quality Assurance (LRQA) [said Wednesday](#) that it will not apply to be an NB under MDR/IVDR), Andriuskaitis said: "This is not a surprise... Stricter requirements have been set to ensure that future notified bodies are fully fit for purpose. On the other hand, this will mean higher capacity in designated notified bodies."

As far as progress achieved so far, Andriuskaitis pointed to the preparation of the [Eudamed database](#) core modules, which will be functional in line with the deadlines, the establishment of the unique device identifier system and work on implementing acts, including one on expert panels, which he said is close to being finalized.

In terms of postponing the transition period, Andriuskaitis said that "any change of rules at this late stage would be unfair to serious operators that have carried efforts to ensure their timely compliance."

https://www.raps.org/news-and-articles/news-articles/2019/6/may-2020-mdr-deadline-is-realistic-and-achievable?utm_source=MagnetMail&utm_medium=Email%20&utm_campaign=RF%20Today%20|%2014%20June

<https://video.consilium.europa.eu/en/webcast/b35e4b01-00ea-48cc-8937-a93461278b60>

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Another Notified Body Bows Out Ahead of EU MDR: 'Investment Too High'

Posted 18 June 2019 | By [Zachary Brennan](#)

Swiss notified body (NB) QS Zürich AG has decided that it will not pursue designation under the new EU medical devices regulation (MDR), although EN ISO 13485 support will remain.

Ursula Roesler, head of medical devices at QS Zürich AG, told *Focus* that the medical device department will be closed by the end of October. As far as why the decision was made, Roesler said, "It was a business decision of the CEO—the investment was too high for a small NB like QS Zürich AG."

The company has worked as an accredited certification body for management systems and as an NB for medical devices in the EU since 1998.

The news from Switzerland follows a decision from London-based Lloyd's Register Quality Assurance (LRQA) last week [to withdraw its NB services](#) under the EU's current medical device and *in vitro* diagnostic directives and to not apply to be an NB under the new MDR or the *in vitro* diagnostic regulation (IVDR).

LRQA directed clients to choose an alternative NB and the firm established a team to help with transition activities, with the goal of minimizing the risk of disruption.

Similarly, the Spanish Agency of Medicines and Medical Products (AEMPS), the only Spanish NB, [said in late May](#) that it will no longer accept device applications from new clients for CE marking and cease to process new certificate applications from existing clients beginning 31 July 2019.



https://www.raps.org/news-and-articles/news-articles/2019/6/another-notified-body-bows-out-ahead-of-eu-mdr-i?utm_source=MagnetMail&utm_medium=Email%20&utm_campaign=RF%20Today%20|%2018%20June

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 - Scope
 - Classification and conformity assessment
 - Designation of Notified Bodies
 - Clinical evaluation
 - Transparency and traceability
 - Activities to prepare MDR/IVDR implementation: Legislation, Guidance, Standards
 - Future regulatory challenges and needs
- National implementation activities
- Conclusions

Regulatory Requirements for IVDMD





EU-Regulations

MDR

Regulation (EU) 2017/745
Medical Device Regulation

IVDR

Regulation (EU) 2017/746
IVD Medical Device Regulation

-  **Directive 90/385/EEC**
• COUNCIL DIRECTIVE of 20 June 1990 on the approximation of the laws of the Member States relating to **active implantable medical devices**
-  **Directive 93/42/EEC**
• COUNCIL DIRECTIVE 93/42/EEC of 14 June 1993 concerning medical devices
-  **Directive 98/79/EC**
• DIRECTIVE 98/79/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 October 1998 on **in vitro diagnostic medical devices**
-  **MPG – Medizinproduktegesetz**

Regulatory Requirements for IVDMD



Directive 90/385/EEC

• COUNCIL DIRECTIVE of 20 June 1990 on the approximation of the laws of the Member States relating to active implantable medical devices



The CE marking indicates the conformity of the product with the Union legislation applying to the product and providing for CE marking. — The CE marking is affixed on products that will be placed on the EEA and Turkish market.

EU-Regulations

MDR

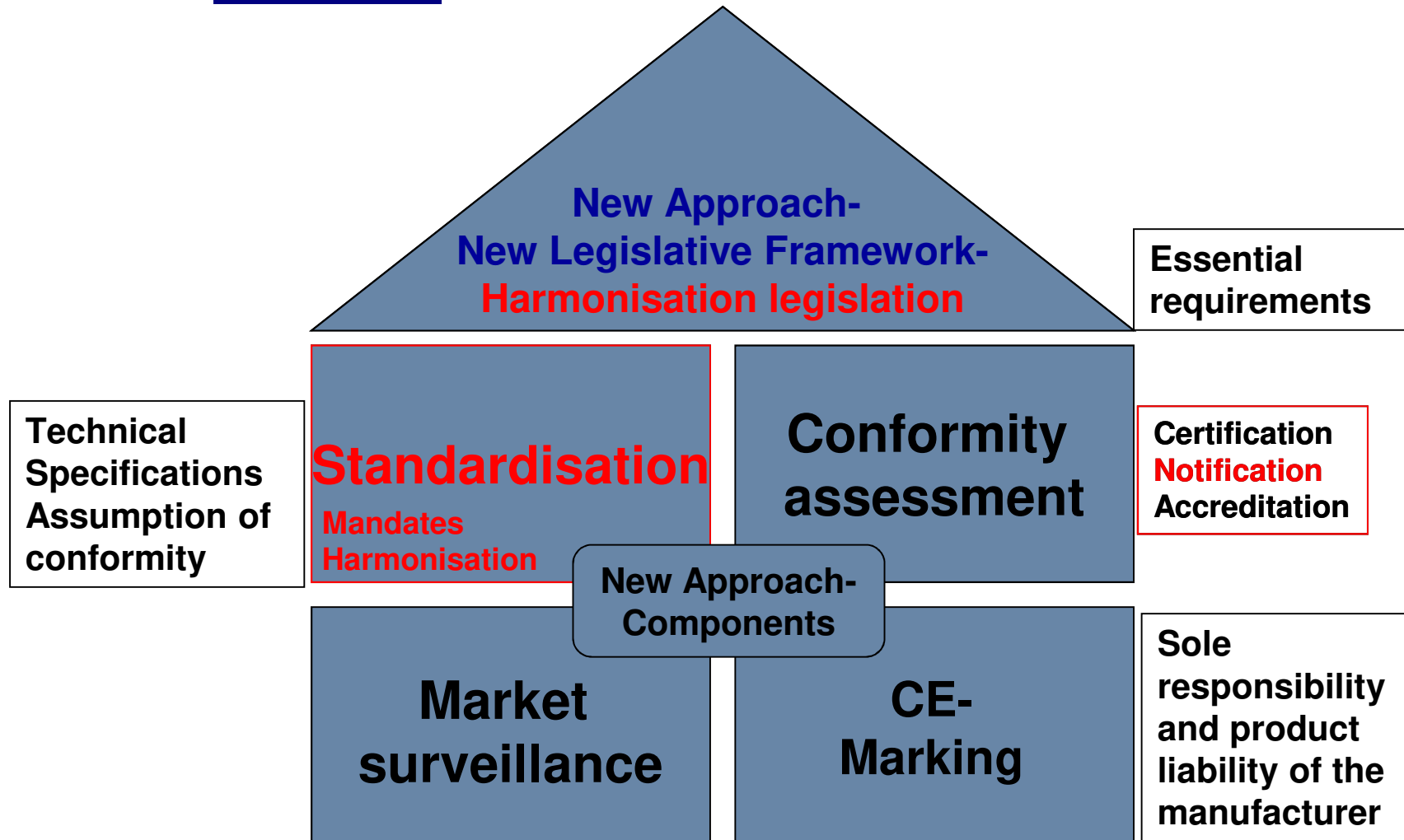
Regulation (EU) 2017/745
Medical Device Regulation

IVDR

Regulation (EU) 2017/746
IVD Medical Device Regulation



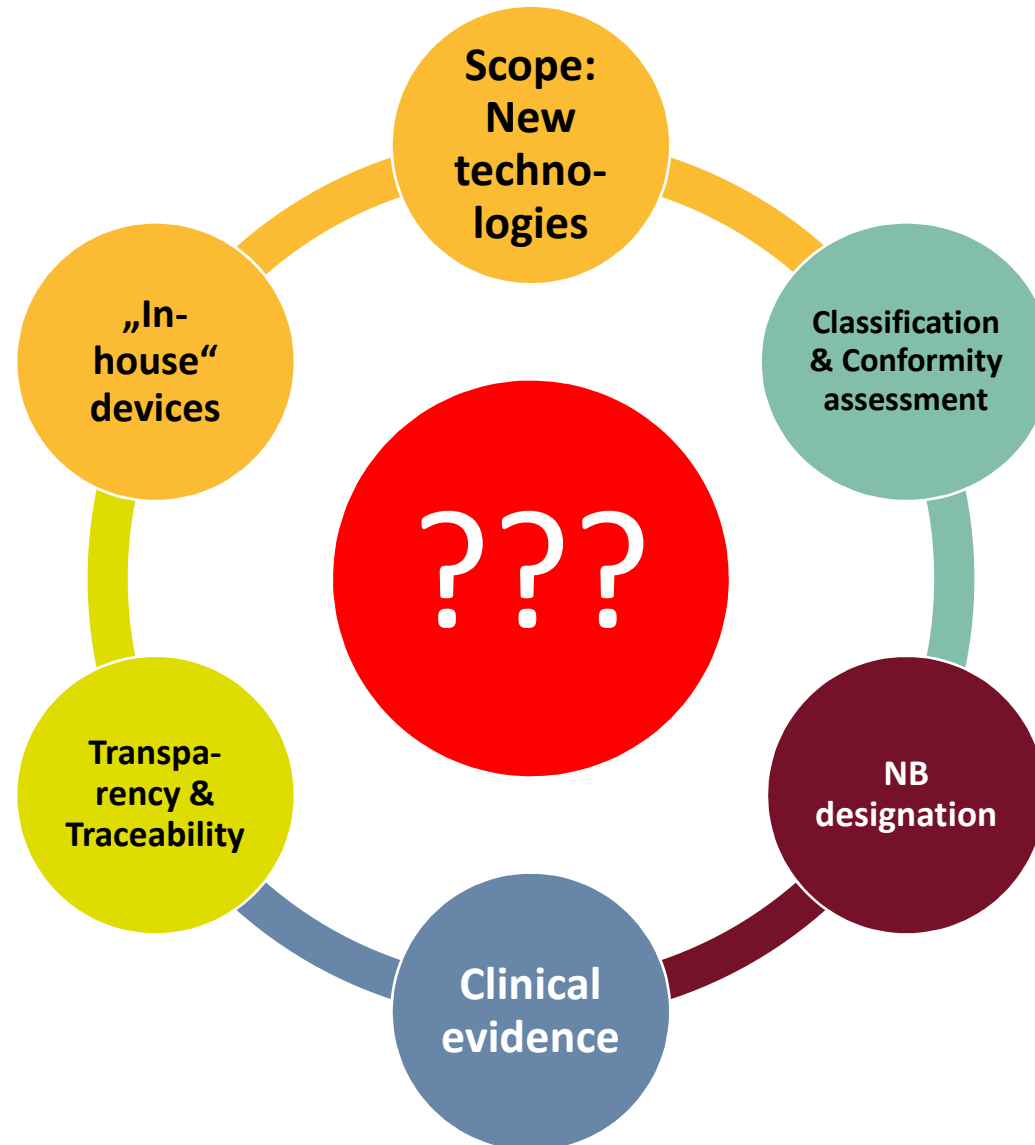
New Approach and Standardization in the EU



Compare: KAN-Report 47, 2011: „Accreditation of conformity assessment bodies“



MDR/IVDR: Major elements addressed





MDR – SCOPE

- ✓ **Nanomaterials:**
 - ✓ MDR Article 2 (18), Annex I (10.6), Annex VIII, Rule 19, Commission Recommendation 2011/696/EU
- ✓ **Substance-based medical devices:**
 - ✓ MDR Annex VIII, Rule 21, Annex I, 12.2
- ✓ **Software:**
 - ✓ MDR Annex VIII, Rule 11
- ✓ **Reusable surgical instruments (Class Ir)**
 - ✓ MDR Article 52 (7)
- ✓ ...





Article 17 Single-use devices and their reprocessing

“1. Reprocessing and further use of single-use devices may only take place where permitted by national law and only in accordance with this Article. ...”



Compliance with Common specifications (CS) for reprocessing of single-use devices to be adopted by the Commission until **May 26, 2020**

Definition: „single-use device” means a device that is intended to be used on one individual during a single procedure;

MDR, Article 2 (8)



IVDR – Scope

Extensions and clarifications of the scope of the IVDR concern:

- ✓ **Companion diagnostics**
- ✓ **Near patient testing (POCT)**
- ✓ **Genetic testing**
- ✓ **Medical Software**
- ✓ **In-house devices**
- ✓ **...**



Precision medicine becomes reality— tumor type-agnostic therapy

Li Yan^{1,2*} and Wei Zhang^{1,3}

Abstract

Precision medicine just witnessed two breakthroughs in oncology in 2017. Pembrolizumab (Keytruda), Merck's anti-programmed cell death-1 (PD-1) monoclonal antibody (mAb), received accelerated approval in May 2017 by the US Food and Drug Administration for the treatment of adult and pediatric patients with unresectable or metastatic solid tumors that have been identified as having microsatellite instability-high (MSI-H) or deficient DNA mismatch repair (dMMR). Shortly after, nivolumab (Opdivo), Bristol-Myers Squibb's anti-PD-1 mAb, gained an accelerated approval in August 2017 for adult and pediatric patients with MSI-H or dMMR metastatic colorectal cancer that has progressed after standard chemotherapy. These regulatory approvals marked an important milestone that a cancer treatment may be approved based on a common biomarker rather than the anatomic location in the body where the tumor originated, and therefore established a precedent for tumor type-agnostic therapy. In the 2017 American Society for Clinical Oncology annual meeting, larotrectinib (LOXO-101), Loxooncology's oral, potent, and selective inhibitor of tropomyosin receptor kinases (TRK), demonstrated unprecedented efficacy on unresectable or metastatic solid tumors with neurotrophic tropomyosin receptor kinase (NTRK)-fusion proteins in adult and pediatric patients. Both the anti-PD-1 mAbs and the TRK-targeting therapies share some basic features: (a) biomarker-based, well-defined rare patient population; (b) exceptionally high clinical efficacy, e.g., near 40% overall response rate (ORR) for pembrolizumab across 15 tumor types with MSI-H/dMMR and 75% ORR for larotrectinib across more than 12 tumor types with NTRK-fusion proteins; (c) durable responses lasting at least 6 months with complete responses observed; and (d) parallel development in adult and pediatric populations. With increasing accessibility to genetic analysis tools such as next-generation sequencing, tumor type-agnostic therapy has become a reality, both during clinical development and in clinical practice. Adjustments in our approaches to developing new anti-cancer drugs and to adopting these new cancer treatments in clinical practice need to occur in order to prepare ourselves for the new era of precision medicine.

Keywords: Precision medicine, Anti-programmed cell death-1, Microsatellite instability-high, Deficient DNA mismatch repair



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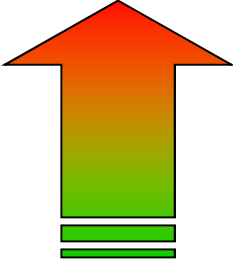


with NTRK-fusion proteins; (c) durable responses lasting at least 6 months with complete responses observed; and (d) parallel development of analysis tools such as next-generation sequencing (NGS) for clinical development and in clinical practice to adopting these new cancer treatments in the era of precision medicine.

Yan and Zhang *Cancer Commun* (2018) 38:6
<https://doi.org/10.1186/s40880-018-0274-3>

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Keywords: Precision medicine, Anti-programmed cell death-1, Microsatellite instability-high, Deficient DNA mismatch repair

IVDR – CLASSIFICATION & CONFORMITY ASSESSMENT

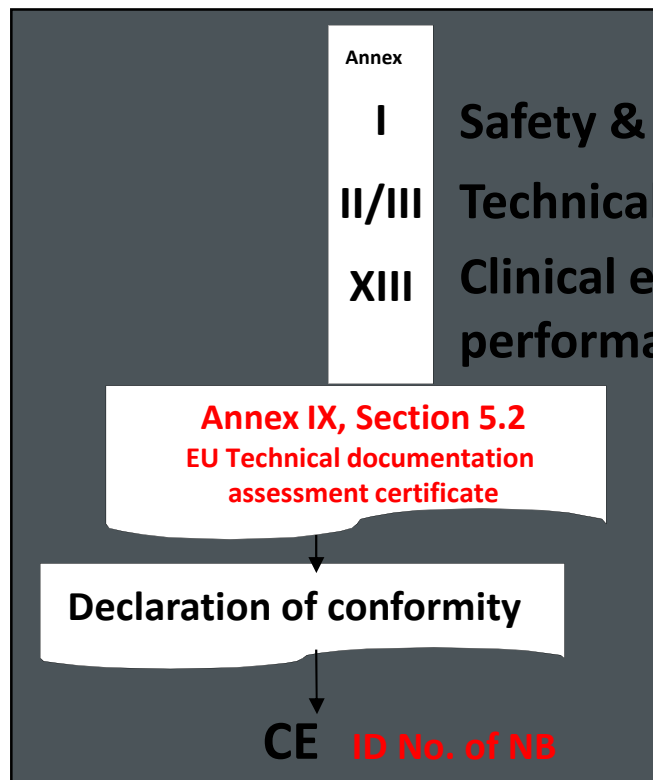
EU Categorisation (98/79/EC)	Devices for the detection/determina- tion/quantification of ...	Risk estimation	Degree of quality assurance	GHTF and NEW EU-IVDR, Annex VIII
Annex II, List A	ABO system, rhesus (C, c, D, E, e), anti-Kell, HIV infection (HIV 1 and 2), HTLV I and II, and Hepatitis B, C and D	High public health risk, high individual risk	Full quality assurance	Class D
Annex II, List B	blood groups: anti-Duffy and anti-Kidd, ... , rubella, toxoplasmosis, ... device for self-diagnosis: blood sugar	Moderate public health, high individual risk		Class C
Devices for self testing 	„ any device intended by the manufacturer to be able to be used by lay persons in a home environment.“	Moderate individual risk for users and/or patients		Class B, C 
Others	Any device.	Low individual risk, no or minimal public health risk	Basic principles and requirements of quality assurance	Class A, B, C

CAVE: There is no 100% comparability of device classes between the different regulation systems.

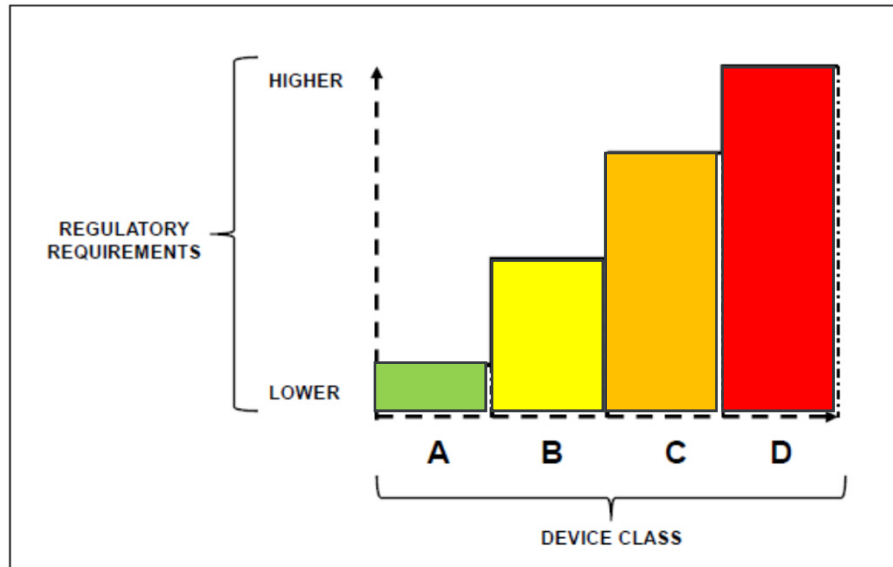


IVDR: Conformity assessment procedures for CDxs:

- Minimum requirements: Annex VIII, Rule 3: **CDxs** are classified as **Class C**

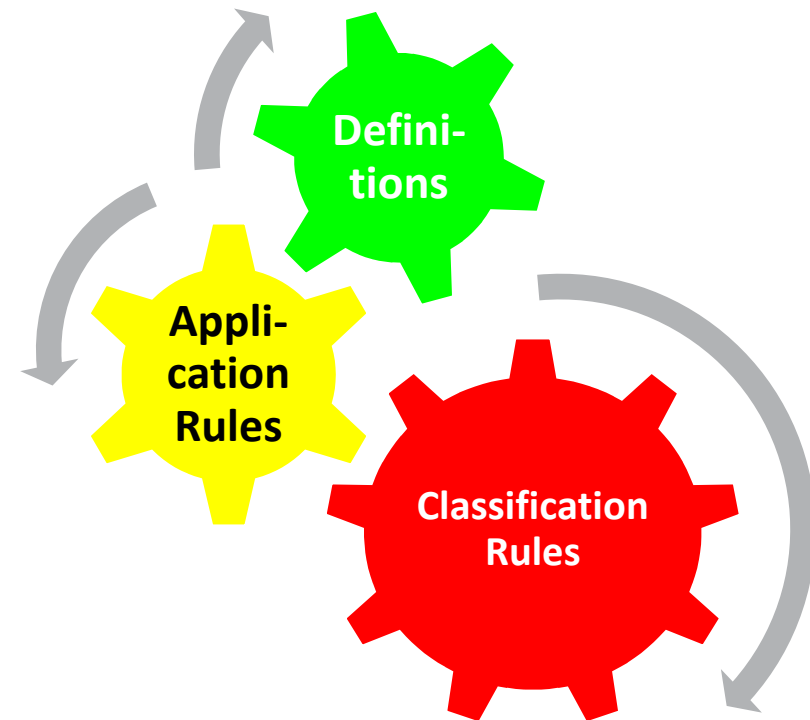


Scientific opinion by medicinal products' competent authority or by EMA
Technical documentation assessment by Notified Body = NB



From: WHO GLOBAL MODEL REGULATORY FRAMEWORK FOR MEDICAL DEVICES INCLUDING IVD MEDICAL DEVICES (May 2017)

Classification Rules – IVDR, Annex VIII





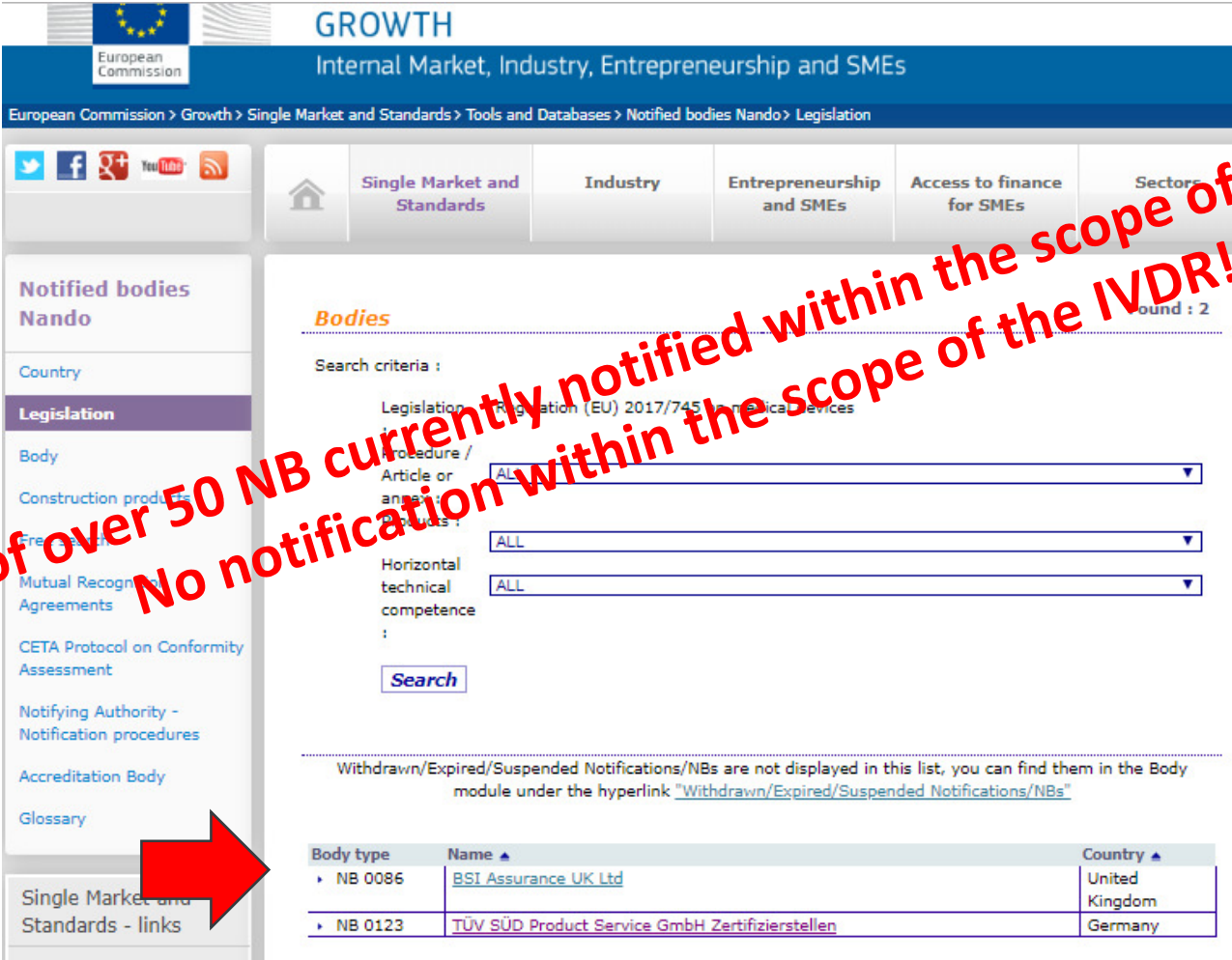
“... For IVDs, the biggest change concerns the new risk-based classification of *in vitro* diagnostic devices and the role of Notified Bodies. ...

As a result, around 85 % of all IVDs will need Notified Body oversight under the IVDR, compared to 20 % previously under the IVDD (IVDR Article 48). ...“

From: European Commission: Factsheet for healthcare professionals and health institutions. Medical Devices: Change of Legislation What you need to know! 05/06/2019

Urgent:

Designation, Capacities and Competence of Notified Bodies



European Commission
GROWTH
Internal Market, Industry, Entrepreneurship and SMEs

European Commission > Growth > Single Market and Standards > Tools and Databases > Notified bodies Nando > Legislation

Single Market and Standards | Industry | Entrepreneurship and SMEs | Access to finance for SMEs | Sectoral

Notified bodies Nando

Country
Legislation
Body
Construction products
Free trade
Mutual Recognition Agreements
CETA Protocol on Conformity Assessment
Notifying Authority - Notification procedures
Accreditation Body
Glossary

Single Market and Standards - links

Bodies Found : 2

Search criteria :

Legislation : Regulation (EU) 2017/745 on medical devices

Procedure / Article or annex : ALL

Products : ALL

Horizontal technical competence : ALL

[Search](#)

Withdrawn/Expired/Suspended Notifications/NBs are not displayed in this list, you can find them in the Body module under the hyperlink: ["Withdrawn/Expired/Suspended Notifications/NBs"](#)

Body type	Name	Country
▶ NB 0086	BSI Assurance UK Ltd	United Kingdom
▶ NB 0123	TÜV SÜD Product Service GmbH Zertifizierstellen	Germany



APPLICATIONS

- Sent to SANTE/F:
 - 38 – MDR
 - 9 – IVDR**47**
- Scope coverage: overall, the entirety of MD and IVD codes

Last update: April 2019



POST-ASSESSMENT ACTIVITIES

- **11** CAPA plans received by SANTE/F
 - **7** JAT opinions issued
 - **1** CAPA plans undergoing official translation
 - **3** JAT opinions under preparation
- **2** Designating authorities' final reports received
 - **2** JAT opinion issued
 - **1** MDCG recommendation

Health and
Food Safety

5

[Weblink: https://ec.europa.eu/docsroom/documents/35043](https://ec.europa.eu/docsroom/documents/35043)

Medical Devices

Medical Device Coordination Group Document

 Ref. Ares(2019)3649285 - 06/06/2019

MDCG 2019-6
(06/06/2019)



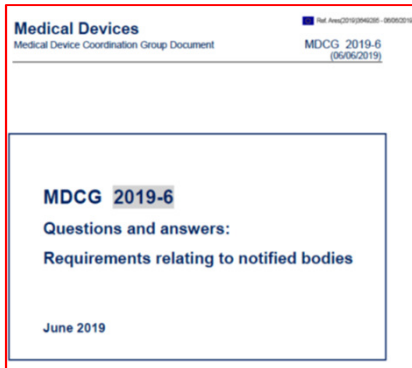
MDCG 2019-6

Questions and answers:

Requirements relating to notified bodies

June 2019

- **Organisation**
- **Independence**
- **QMS**
- **Staff availability and competence**
- **Certification process**
- **...**



I.7. Can the CAB accept applications prior to being notified?

No, applications under the MDR / IVDR cannot be accepted before the designation of the CAB became valid, i.e. the day after the notification is published in NANDO.

IV.1. Do devices certified under the Directives need to be subject to a full conformity assessment under the new Regulations if the manufacturer applies for certification under the MDR / IVDR?

The **conformity assessment activities** described under Article 52 / Article 48 **apply to any certificate issued under the new regulations**. As **no exceptions were established** under the regulations for the migration or transfer of MDD/AIMDD/IVDD certificates to the MDR / IVDR the general provisions should apply.



- To **limit the initial certification to the Quality Management System (QMS)** and a certain sampling of certain device classes **at initial MDR certification assessment**
- To **participate in the MDSAP program** and to accept MDSAP certificates in the EU in order to relieve Notified Body capacity
- To establish a **EU-wide contingency plan for manufacturers in need of a NB**
- To allow manufacturers of **MDD class I devices to make use of the “grace period”**
- To publish **guidance on (significant) changes** (Article 120 (3)) to clarify whether MDD certificates remain valid following changes that are unrelated to design or intended purpose of the device in question

Clinical Evaluation and the MDR



Factors relevant to clinical evaluation:

- **Justification and specification to the level of clinical evidence** taking into account the characteristics and the intended purpose of the device
- **Definition of equivalence and integration of the equivalence concept**
- **Incorporation of PMS data**
- **Acceptability of the benefit-risk ratio** must be based upon sufficient clinical data and linked to the post-market surveillance system
- **Consideration of available alternative treatment options**

Clinical evaluation and the IVDR

“clinical evidence means the clinical data and performance evaluation results, ... to allow a qualified assessment of whether the device achieves the intended clinical benefit(s) and safety, when used as intended by the manufacturer”

“analytical performance means the ability of a device to correctly detect or measure a particular analyte”

Analytical performance

Scientific validity

Clinical evidence

Clinical performance

“scientific validity of an analyte means the association of an analyte to a clinical condition or a physiological state”

“clinical performance means the ability of a device to yield results that are correlated with a particular clinical condition or a physiological or pathological process or state in accordance with the target population and intended user”

Compare IVDR, Article 56ff, Annex XIII



MDCG Subgroups



Name: Medical Device Coordination Group (X03565) Active		
Name	Duration	Status
03 - Clinical Investigation and Evaluation (CIE)	permanent	Active
11 - In vitro Diagnostic Medical Devices (IVD)	permanent	Active
04 - Post-Market Surveillance and Vigilance (PMSV)	permanent	Active
05 - Market Surveillance	permanent	Active
01 - Notified Bodies Oversight (NBO)	permanent	Active
06 - Borderline and Classification (B&C)	permanent	Active
02 - Standards	permanent	Active
07 - New Technologies	permanent	Active
12 - Annex XVI		Active
09 - Unique Device Identification (UDI)	permanent	Active
10 - International Matters	permanent	Active

<http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=3565>

CIE Working Group

Clinical Evaluation Work Package 1: Sufficient Clinical Data for the purpose of Article 61(6)(a)

.....

9-April-2018
Version-4.0
x

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CAVE:
IVDMD NOT covered by the scope
of these draft guidelines!

CIE Working Group

Clinical Evaluation Work Package 1: Equivalence

.....

CIE Working Group

Clinical Evaluation Work Package 1: Sufficient Clinical Data for the purpose of Article 61(6)(a)

9-April-2018
Version-4.0

“This guidance **supplements Stage 3 of MEDDEV 2.7/1 Revision 4 – the analysis stage**. It is anticipated that **MEDDEV 2.7/1 Revision 4 may be revised** to take account of the MDR in future. This guidance is therefore interim, and intended to facilitate manufacturers and notified bodies who are preparing for MDR requirements.”

“... The **requirement to perform clinical investigations** pursuant to paragraph 4 **shall not apply to implantable devices and class III devices**:

- (a) which have been lawfully placed on the market or put into service in accordance with Directive 90/385/EEC or Directive 93/42/EEC and **for which the clinical evaluation:**
- **is based on sufficient clinical data, ...**”

from: CIE Working Group: „Equivalence“

Clinical equivalence

Regulation 2017/745	MEDDEV 2.7/1 rev 4
The device is used for the same clinical condition or purpose, including similar severity and stage of disease, at the same site in the body, in a similar population, including as regards age, anatomy and physiology; <u>has the same kind of user</u> ; has similar relevant critical performance in view of the expected clinical effect for a specific intended purpose.	<ul style="list-style-type: none"> - used for the same clinical condition (including when applicable similar severity and stage of disease, <u>same medical indication</u>), and - used for the same intended purpose, and - used at the same site in the body, and - used in a similar population (this may relate to age, <u>gender</u>, anatomy, physiology, possibly other aspects), and - not foreseen to deliver significantly different performances (in the relevant critical performances such as the expected clinical effect, the specific intended purpose, the duration of use, etc.)

Technical equivalence

Regulation 2017/745	MEDDEV 2.7/1 rev 4
The device is of similar design; <u>is used under similar conditions of use</u> ; has similar specifications and properties including physicochemical properties such as intensity of energy, tensile strength, viscosity, surface characteristics, wavelength and software algorithms; uses similar deployment methods, where relevant; has similar principles of operation and critical performance requirements.	<ul style="list-style-type: none"> - be of similar design, and - <u>used under the same conditions of use</u>, and - have similar specifications and properties (e.g. physicochemical properties such as type and intensity of energy, tensile strength, viscosity, surface characteristics, wavelength, surface texture, porosity, particle size, nanotechnology, specific mass, atomic inclusions such as nitrocarburising, oxidability), and - use similar deployment methods (if relevant), and - have similar principles of operation and critical performance requirements

Biological equivalence

Regulation 2017/745	MEDDEV 2.7/1 rev 4
The device uses the same materials or substances in contact with the same human tissues or body fluids <u>for a similar kind and duration of contact and similar release characteristics of substances, including degradation products and leachables</u>	Use the same materials or substances in contact with the same human tissues or body fluids.

CAVE:



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IMDRF: (Justifyable) Comparable device

MDR/MDCG: Equivalent device

MDD: Similar device

Transparency & Traceability: Nomenclature according to MDR/IVDR requirements

MDCG 2018-2 Future EU medical device nomenclature Description of requirements

Introduction

According to Article 26 of the Regulation 745/2017 on medical devices and Article 23 of Regulation 746/2017 on *in-vitro* diagnostic medical device, the Commission is required to make available a medical device nomenclature to support the functioning of the future EUDAMED.

This document intends to provide a detailed description of requirements and criteria that the future nomenclature is expected to fulfil. This is expected to serve as a reference basis throughout the decision process and will also ensure that all legal and technical issues associated with the future EU medical device nomenclature are properly mapped.

Medical Devices Nomenclature

According to Article 26 of Regulation 745/2017 on medical devices and Article 23 of Regulation 746/2017 on in-vitro diagnostic medical device, the Commission is required to make available a medical device nomenclature to support the functioning of the future EUDAMED.

The relevant Commission services, in order to exert its faculty with the maximum possible level of knowledge and information and having due regard to the role held by the Medical Device Coordination Group (MDCG) under the new Regulations on medical devices, have established, in cooperation with the MDCG, a process which included the

1. Establishment of a task-force of Member States, operating under the UDI Work Group, supporting the relevant Commission services in the information gathering process and evaluation of options;
2. Endorsement by the MDCG of a document ([MDCG 2018-2](#)), providing a description of the requirements and criteria for the new nomenclature arising from the new Regulations on medical devices;
3. Evaluation by the relevant Commission services, in cooperation with the task-force, of possible options;
4. Production by the task-force of a report for consideration and discussion by the MDCG;

This process has come to completion and relevant discussions took place at the MDCG meetings of 30 November 2018 and 14-15 February 2019.

In accordance with Articles 23 IVDR and 26 MDR, having due regard to the views provided by the MDCG, the **CND nomenclature**, to be mapped to the **GMDN nomenclature**, will be made available in the future Eudamed.

The correspondence between the nomenclatures will be visible to operators and incorporated in the future database. This will allow all operators registering their device to find **CND nomenclature** equivalent to a **GMDN code**. To the purpose of providing better regulatory oversight over the EU nomenclature system, a sub-group of the Medical Device Coordination Group (MDCG) will be soon established.

Ways will also be explored to support the work that the World Health Organisation (WHO) is carrying out in the field.

Any additional informational on the details related to the governance and operational functioning of the system will be provided in the course of the next few months.



“ ...In accordance with Articles 23 IVDR and 26 MDR, having due regard to the views provided by the MDCG, **the CND nomenclature, to be mapped to the GMDN nomenclature**, will be made available in the future Eudamed. ...”

<https://ec.europa.eu/docsroom/documents/34264?locale=en>

Traduzione in lingua inglese dei codici della Classificazione Nazionale Dispositivi Medici (come modificata dal DM 13.03.2018)

TRADUZIONE IN LINGUA INGLESE DEI CODICI DELLA CLASSIFICAZIONE NAZIONALE DISPOSITIVI MEDICI (come modificata dal DM 13.03.2018)	
Categoria: A	DISPOSITIVI DA SOMMINISTRAZIONE, PRELIEVO E RACCOLTA <i>DEVICES FOR ADMINISTRATION, COLLECTING AND PICKING</i>
A	DISPOSITIVI DA SOMMINISTRAZIONE, PRELIEVO E RACCOLTA <i>DEVICES FOR ADMINISTRATION, COLLECTING AND PICKING</i>
A01	AGHI <i>NEEDLES</i>
A0101	AGHI E KIT PER INFUSIONE E PRELIEVO <i>INFUSION AND COLLECTING NEEDLES</i>
A010101	AGHI IPODERMICI <i>HYPODERMIC NEEDLES</i>
A01010101	AGHI IPODERMICI PER SIRINGA <i>HYPODERMIC NEEDLES FOR SYRINGE</i>
A01010102	AGHI IPODERMICI PER PENNA <i>HYPODERMIC NEEDLES FOR PEN</i>
A01010199	AGHI IPODERMICI - ALTRI <i>HYPODERMIC NEEDLES - OTHERS</i>
A010102	AGHI A FARFALLA <i>BUTTERFLY NEEDLES</i>
A010103	AGHI E KIT PER SISTEMI IMPIANTABILI <i>NEEDLES AND KIT FOR IMPLANTABLE SYSTEMS</i>

Activities to prepare MDR/IVDR implementation: Legislation, Guidance, Standards

COMMISSION IMPLEMENTING DECISION (EU) 2019/939

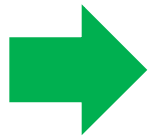
of 6 June 2019

designating issuing entities designated to operate a system for the assignment of Unique Device Identifiers (UDIs) in the field of medical devices

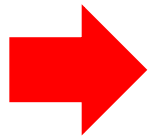
COMMISSION IMPLEMENTING REGULATION (EU) 2017/2185

of 23 November 2017

on the list of codes and corresponding types of devices for the purpose of specifying the scope of the designation as notified bodies in the field of medical devices under Regulation (EU) 2017/745 of the European Parliament and of the Council and in vitro diagnostic medical devices under Regulation (EU) 2017/746 of the European Parliament and of the Council




2 Implementing Acts published



At least 16 further Implementing Acts are required ...

Activities to prepare MDR/IVDR implementation: Legislation, Guidance, Standards

MDR/IVDR Corrigenda



Council of the
European Union

Brussels, 13 March 2019


Interinstitutional File:
2012/0266 (COD)

15409/1/18
REV 1

JUR 598
PHARM 68
SAN 460
MI 978
COMPET 864
CODEC 2288

LEGISLATIVE ACTS AND OTHER INSTRUMENTS: CORRIGENDUM/RECTIFICATIF

Subject: Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC
(Official Journal of the European Union L 117 of 5 May 2017)



Council of the
European Union

Brussels, 13 March 2019

Interinstitutional File:
2012/0267 (COD)

15418/1/18
REV 1

JUR 599
PHARM 69
SAN 461
MI 979
COMPET 865
CODEC 2290

LEGISLATIVE ACTS AND OTHER INSTRUMENTS: CORRIGENDUM/RECTIFICATIF

Subject: Regulation (EU) 2017/746 of the European Parliament and of the Council of 5 April 2017 on in vitro diagnostic medical devices and repealing Directive 98/79/EC and Commission Decision 2010/227/EU
(Official Journal of the European Union L 117 of 5 May 2017)



Conclusions:

Total of 10 – 15 corrections (dependent of the language) per Regulation



Mostly editorial corrections

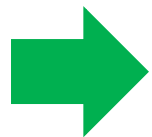


**Few technical changes
(Integration of NB staff, ISO 20916, ...)**

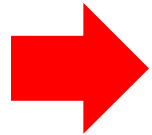


Many more unresolved issues, mostly editorial ...

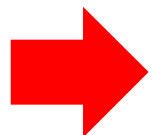
Activities to prepare MDR/IVDR implementation: Legislation, Guidance, Standards



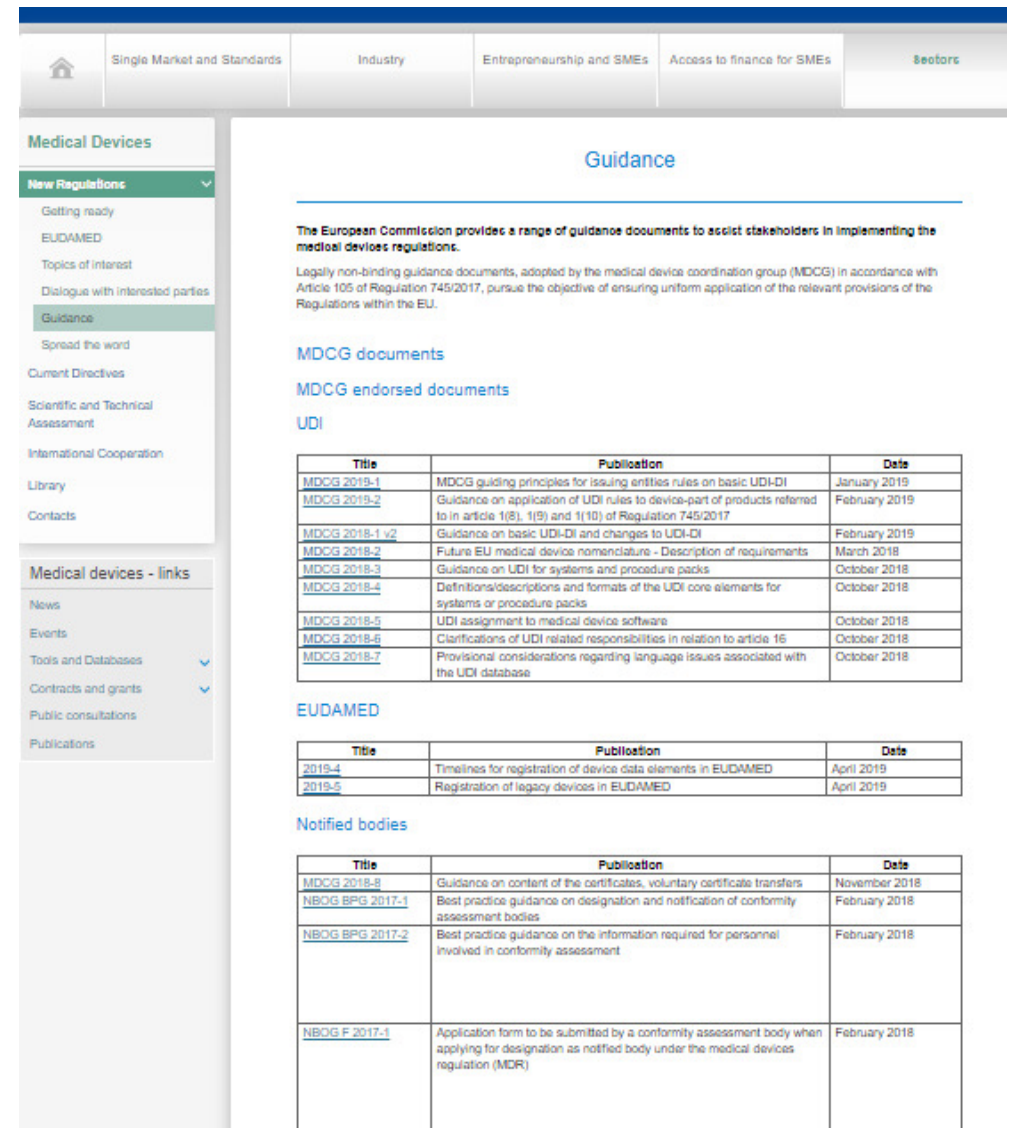
Some guidance done



Many topics not yet covered such as critical classification issues, specific conformity assessment requirements (software, reprocessing of single-use devices, nanomaterials, etc.), ...



No CS published



The screenshot shows the 'Medical Devices' section of the European Commission website. The 'Guidance' sub-section is active, displaying a list of MDCG documents, MDCG endorsed documents, and UDI-related documents. Below these are tables for EUDAMED and Notified bodies.

Guidance

The European Commission provides a range of guidance documents to assist stakeholders in implementing the medical devices regulations.

Legally non-binding guidance documents, adopted by the medical device coordination group (MDCG) in accordance with Article 105 of Regulation 745/2017, pursue the objective of ensuring uniform application of the relevant provisions of the Regulations within the EU.

MDCG documents

MDCG endorsed documents

UDI

Title	Publication	Date
MDCG 2019-1	MDCG guiding principles for issuing entities rules on basic UDI-DI	January 2019
MDCG 2019-2	Guidance on application of UDI rules to device-part of products referred to in article 1(8), 1(9) and 1(10) of Regulation 745/2017	February 2019
MDCG 2018-1 v2	Guidance on basic UDI-DI and changes to UDI-DI	February 2019
MDCG 2018-2	Future EU medical device nomenclature - Description of requirements	March 2018
MDCG 2018-3	Guidance on UDI for systems and procedure packs	October 2018
MDCG 2018-4	Definitions/descriptions and formats of the UDI core elements for systems or procedure packs	October 2018
MDCG 2018-5	UDI assignment to medical device software	October 2018
MDCG 2018-6	Clarifications of UDI related responsibilities in relation to article 16	October 2018
MDCG 2018-7	Provisional considerations regarding language issues associated with the UDI database	October 2018

EUDAMED

Title	Publication	Date
2019-4	Timelines for registration of device data elements in EUDAMED	April 2019
2019-5	Registration of legacy devices in EUDAMED	April 2019

Notified bodies

Title	Publication	Date
MDCG 2018-8	Guidance on content of the certificates, voluntary certificate transfers	November 2018
NBOG BPG 2017-1	Best practice guidance on designation and notification of conformity assessment bodies	February 2018
NBOG BPG 2017-2	Best practice guidance on the information required for personnel involved in conformity assessment	February 2018
NBOG F 2017-1	Application form to be submitted by a conformity assessment body when applying for designation as notified body under the medical devices regulation (MDR)	February 2018

Activities to prepare MDR/IVDR implementation: Legislation, Guidance, Standards

ISO TR 20416
ISO 20916

...

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ISO TR 20416-#:####(X)
ISO TC 210/SC ##/WG 6
Secretariat: AAMI

Title (Medical devices — Post-market surveillance for manufacturers)

WD S

Warning for WI
This document is not an ISO International Standard. It is
change without notice and may not be referred to as an Inte
Recipients of this draft are invited to submit, with their co
which they are aware and to provide supporting document.

FINAL
DRAFT

INTERNATIONAL
STANDARD

ISO/FDIS
20916

ISO/TC 212
Secretariat: ANSI
Voting begins on:
2019-02-11
Voting terminates on:
2019-04-08

**In vitro diagnostic medical devices —
Clinical performance studies using
specimens from human subjects —
Good study practice**

*Dispositifs médicaux de diagnostic in vitro — Études des
performances cliniques utilisant des prélèvements de sujets humains
— Bonnes pratiques d'étude*

Annex: COCIR updated assessment of the MDR's implementation status

1. GENERAL FRAMEWORK	<p>UNIQUE DEVICE IDENTIFICATION (UDI)</p>	<ul style="list-style-type: none"> • Eight guidance documents published to date • Striving for convergence with global efforts at IMDRF level as far as the Regulation permits • Decision on nomenclature has been taken
	<p>EUROPEAN DATABASE FOR MEDICAL DEVICES</p>	<ul style="list-style-type: none"> • Implementation plan published on time • Data dictionary for UDI & Devices module published • Several modules so far delayed that they will not be part of first release in March 2020 • Timing for validation of actor registration remains a concern
	<p>HARMONISED STANDARDS</p>	<ul style="list-style-type: none"> • Standardisation request not yet adopted • List of candidate standards unclear and insufficient • Worsening administrative processes for harmonisation of standards
	<p>TRANSITIONAL PROVISIONS</p>	<ul style="list-style-type: none"> • No clarity on interpretation of significant change according to Article 120.3 (expect development of NBOG guidance) • Guidance for legacy devices (UDI obligation, sufficient clinical evidence etc.) delayed or requires more clarity
2. PRE-MARKET OBLIGATIONS	<p>CLINICAL EVALUATION AND INVESTIGATIONS</p>	<ul style="list-style-type: none"> • Lack of stakeholder consultation • Guidance on sufficient clinical evidence and equivalence for higher-risk legacy devices severely delayed • No plans as yet for guidance for lower-risk devices
	<p>MEDICAL SOFTWARE</p>	<ul style="list-style-type: none"> • Guidance on qualification and classification delayed (publication of classification guidance expected in June 2019) • Guidance on clinical evaluation of software progressing well
3. PMS	<p>POST MARKET SURVEILLANCE AND VIGILANCE</p>	<ul style="list-style-type: none"> • Field Safety Notice and MIR form published⁴ • Development of several guidance documents and templates (e.g. PSUR) delayed • No clarity on possible delegation of activities between Economic Operators (e.g. pre-evaluation of incidents by distributors)
4. RELEVANT ACTORS	<p>ECONOMIC OPERATORS</p>	<ul style="list-style-type: none"> • Uncertainty on sub-contracting of verification activities between different economic operators • No clarity on use of sampling methods by importers • Original Equipment Manufacturer/Own Brand Labeller obligations under discussion
	<p>NOTIFIED BODIES</p>	<ul style="list-style-type: none"> • Only 2 Notified Bodies designated by May 2019 • Significant increase in demand expected for Notified Bodies, particularly for software and apps, due to changes to classification rules • Uncertainty on MDR interpretation among Notified Bodies

From: COCIR Recommendations, Medical Device Regulation – One Year to Go, June 6th, 2019

MDR/IVDR-Implementation: Rolling plan



MDR / IVDR - IMPLEMENTATION ROLLING PLAN

This Rolling Plan contains the list of identified essential implementing acts, actions and guidance to be put in place by the Commission and/or the MDCG during the transitional period together with relevant information on expected timelines and state-of-play. The information is organised into two main sections (implementing acts; other actions/initiatives). The document will be subject to quarterly review in order to provide the authorities and stakeholders with the most updated information. This document shall be read in conjunction with the "MDR/IVDR roadmap", produced by the Competent Authorities for Medical Devices project (CAMD) in cooperation with the Commission (and available at <https://www.camd-europe.eu/regulatory/medical-devices-regulation-vitro-diagnostics-regulation-mdr-ivdr-roadmap>), which contains a much more comprehensive overview of all the initiatives (including guidance) expected to be undertaken during the transitional period by the Commission and the National Competent Authorities

Latest update: April 2019

No.	Subject	Legal basis	Description	Expected timelines (expected date of final adoption/date of accomplishment)	State-of-play/Next step
IMPLEMENTING REGULATIONS/ACTS					
1	Notified bodies scope of designation	Article 42(13) MDR Article 38(13) IVDR	Implementing Act Definition of the list of codes and corresponding types of devices for the purpose of specifying the scope of the designation of notified bodies. This action is an essential pre-condition for the launch of the designation procedure for Notified Bodies	26 November 2017 (Legal deadline)	Adopted and published on 24 November 2017 COMPLETED
2	Reprocessing of single-use medical devices	Article 17(5) MDR	Implementing Act Common specifications laying down requirements related to reprocessing of single-use devices concerning: — risk management, including the analysis of the construction and material, related properties of the device (reverse engineering) and procedures to detect changes in the design of the original device as well as of its planned application after reprocessing, — the validation of procedures for the entire process, including cleaning steps, — the product release and performance testing, — the quality management system, — the reporting of incidents involving devices that have been reprocessed, and — the traceability of reprocessed devices.	November 2019 It shall be noted that, in the event that those CS are not adopted by 26 May 2020, reprocessing shall be performed in accordance with any relevant harmonised standards and national provisions	Formal public consultation (Q2 2019)

Future regulatory challenges and needs

? Personalised medical devices

? Medical devices for children, elderly and rare diseases

? Artificial Intelligence Products

IMDRF – Consultation Documents

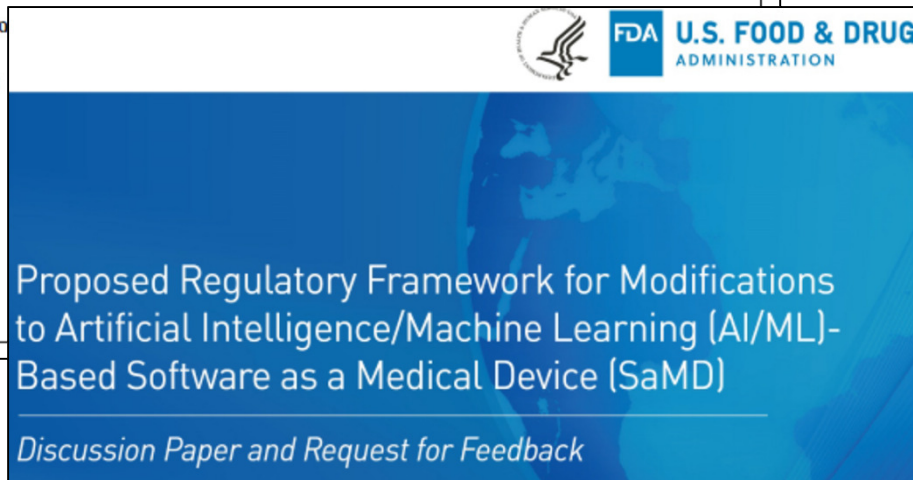


1. Custom-made medical device
2. Patient-matched medical device
3. Adaptable medical device



Considerations on

- 3 D printed medical devices,
- Point-of-care production of medical devices,
- ...



National implementation activities



Medizinprodukte

Sie sind hier: [Themen](#) > [Gesundheitswesen](#) > [Medizinprodukte](#) > [NAKI](#)

Nationaler Arbeitskreis (NAKI)

Hier erfahren Sie mehr über NAKI - dem Nationalen Arbeitskreis zur Implementierung der neuen EU-Verordnungen über Medizinprodukte (MDR) und In-vitro-Diagnostika (IVDR).

▼ Untergruppe 1 (Übergangsbestimmungen)

▼ Untergruppe 2 (Benannte Stellen)

▼ Untergruppe 3 (Herstellerepflichten)

▼ Untergruppe 4 (Marktüberwachung)

▼ Untergruppe 5 (Klassifizierung/Abgrenzung und Vigilanzsystem)

▼ Untergruppe 6 (klinische Bewertung/klinische Prüfung)

▼ Untergruppe 7 (Aufbereitung)

- Hintergrund
- Arbeit in den Untergruppen (UG)
- Berichte und Diskussionsergebnisse

„... Im Rahmen der UG 1 wurden zweiumfangreiche „Fragen und Antworten - Kataloge“ zur MDR und IVDR erarbeitet, die nachfolgend veröffentlicht sind und **stetig aktualisiert werden sollen**. ...“

???

National implementation activities*



- Replacement of the current MPG by the „**Gesetz zur Durchführung unionsrechtlicher Vorschriften betreffend Medizinprodukte und In-vitro-Diagnostika (MIDG)**“ (Date of application: 26.05.2020)
- For IVD: MPG will remain valid for 2 more years (until 26.05.2022)
- MIDG will be introduced by a „Gesetz zur Anpassung des Medizinprodukterechts an die Verordnung (EU) 2017/745 (MDR) und die Verordnung (EU) 2017/746 (IVDR)“
- National regulations will be either partly deleted (MPV, MPSV, MPKPV) or changed (MPBetreibV) by a „Verordnung zur Anpassung des Medizinprodukterechts an die Verordnung (EU) 2017/745 (MDR) und die Verordnung (EU) 2017/746 (IVDR)“
- The drafts of the new national Act and the regulation are expected to be published at the end of July 2019.

*Information by BMG at the 14th BVMed Symposium, June 12th, 2019

BIOMEDTEC SCIENCE CAMPUS LÜBECK ...



Biomedical Engineering | M.Sc.

Internationaler Masterstudiengang in Kooperation von der Fachhochschule Lübeck und der Universität zu Lübeck.



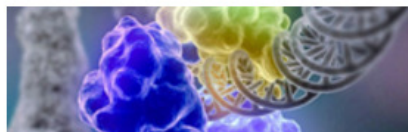
Biomedizintechnik | B.Sc.

Bachelorstudiengang der Fachhochschule Lübeck zur Kombination von ingenieurwissenschaftlichen Prinzipien mit medizinischen Fachwissen.



Hörakustik | B.Sc.

Bachelorstudiengang der Fachhochschule Lübeck für ausgebildete Hörakustiker/Hörakustikerinnen zur beruflichen Weiterentwicklung.



Medizinische Informatik | B.Sc., M.Sc.

Bachelor- / Masterstudium an der Universität mit Fokus auf moderne Techniken und Methoden zur computergestützten Informationsverarbeitung in der Medizin



Medizinische Ingenieurwissenschaft | B.Sc., M.Sc.

Bachelor- / Masterstudiengang der Universität zu Lübeck zum Verständnis von medizintechnischen Problemstellungen und deren Lösung.



BIOMEDTEC SCIENCE CAMPUS LÜBECK ...



Biomedical Engineering | M.Sc.

Internationaler Master
Lübeck und der Unive



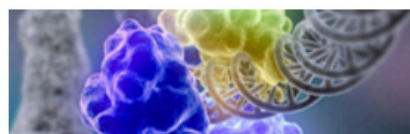
Biomedizintechnik

Bachelorstudiengang
von ingenieurwissens



Hörakustik | B.Sc.

Bachelorstudiengang
Hörakustiker/Hörakus



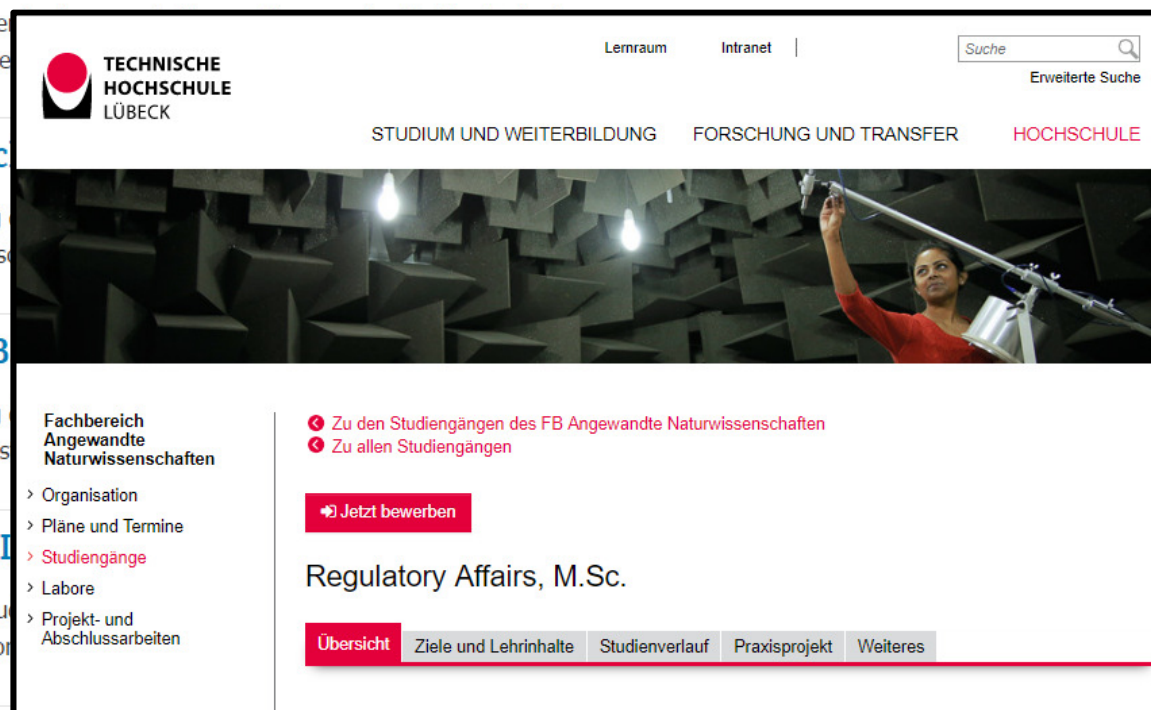
Medizinische Informatik

Bachelor- / Masterstu
und Methoden zur co



Medizinische Ingenieurwissenschaft | B.Sc., M.Sc.

Bachelor- / Masterstudiengang der Universität zu Lübeck zum Verständnis von
medizintechnischen Problemstellungen und deren Lösung.



The screenshot shows the website header with the logo, navigation links for 'Lernraum', 'Intranet', and a search bar. Below the header, there are three main menu items: 'STUDIUM UND WEITERBILDUNG', 'FORSCHUNG UND TRANSFER', and 'HOCHSCHULE'. A large banner image shows a person in a red shirt working with a microphone in an anechoic chamber. Below the banner, there is a sidebar menu for 'Fachbereich Angewandte Naturwissenschaften' with sub-items like 'Organisation', 'Pläne und Termine', 'Studiengänge', 'Labore', and 'Projekt- und Abschlussarbeiten'. The main content area features a 'Jetzt bewerben' button and a section for 'Regulatory Affairs, M.Sc.' with a sub-menu including 'Übersicht', 'Ziele und Lehrinhalte', 'Studienverlauf', 'Praxisprojekt', and 'Weiteres'.



Conclusions - **Benefit** and **Risks**

- ✓ Improved expected patient safety and user protection
- ✓ Increased transparency and harmonization for related stakeholders
- ✓ International comparability of the regulatory framework

- ⚠ **Availability and capacities of Notified Bodies**
- ⚠ **Lack of sufficient guidance and standards**
- ⚠ **Delay and complication of the marketing process for newly defined, up-classified, changed devices**

Many thanks for your attention.



Prof. Dr. Folker Spitzenberger

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