Journée croisée des *GDR* <u>B2</u>I et *Réparer l'Humain*





13ème journée thématique 30 septembre 2024

Les dispositifs médicaux : de l'aspect réglementaire à la mise sur le marché

PARIS - Campus Pierre et Marie Curie

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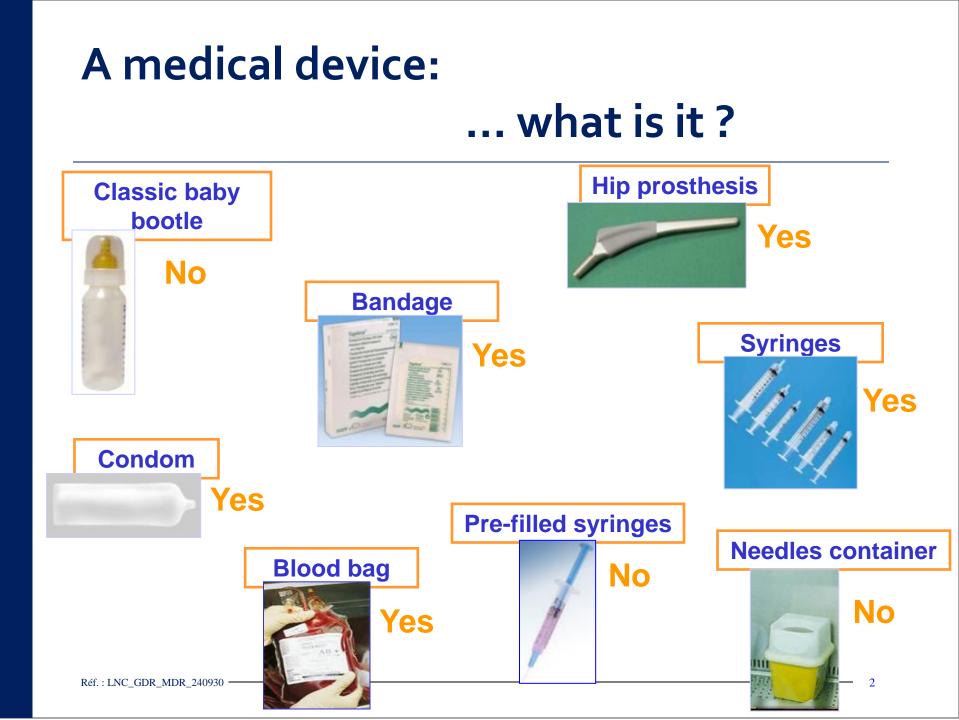
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Réf. : LNC_13485_210329









How do you know if a product is a medical device?

- How does it work? What is its intended use?
- What are the requirements, the performances?
- What "regulatory" definition does it meet?

For example : wooden sticks

Not the same regulations, directives, standards

Medical device : MDR 2017/745 - definition

- means any instrument, apparatus, appliance, software, implant, reagent, material or other article intended by the manufacturer to be used, alone or in combination, for human beings for one or more of the following specific medical purposes:
 - diagnosis, prevention, monitoring, prediction, prognosis, treatment or alleviation of disease,
 - diagnosis, monitoring, treatment, alleviation of, or compensation for, an injury or disability,
 - investigation, replacement or modification of the anatomy or of a physiological or pathological process or state,
 - providing information by means of *in vitro* examination of specimens derived from the human body, including organ, blood and tissue donations,

Medical device : MDR 2017/745 – definition (cont.)

- and which does not achieve its principal intended action by pharmacological, immunological or metabolic means, in or on the human body, but which may be assisted in its function by such means.
- The following products shall also be deemed to be medical devices:
 - devices for the control or support of conception;
 - products specifically intended for the cleaning, disinfection or sterilisation of devices as referred to in Article 1(4) and of those referred to in the first paragraph of this point.

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Two regulations: for MD and IVD2017/745 and 2017/746

- With effect from 26 May 2021, <u>Regulation (EU)</u>
 2017/745 of the European Parliament and of the Council of 5 April 2017 on **medical devices** replaced <u>Council</u>
 <u>Directive 90/385/EEC</u> on active implantable medical devices and <u>Council Directive 93/42/EEC</u> on medical devices.
- With effect from 26 May 2022, <u>Regulation (EU)</u>
 2017/746 of the European Parliament and of the Council of 5 April 2017 on in vitro diagnostic medical devices
 replaced <u>Directive 98/79/EC of the European Parliament</u>
 and of the Council on in vitro diagnostic medical devices.

Medical device regulations: What are they for?

 Reinforcing the safety of medical devices in the interests of patients

Including:

- Meet general safety and performance requirements (GSPR)
- Assess the risks
- Demonstrate the risk/benefit ratio

Medical device regulations: CE what are the consequences ? ...

- All medical devices must be certified according to a set of regulations
- In Europe, compliance with these regulations is reflected in the CE medical mark.
- This mark guarantees that the medical device meets requirements in terms of safety and clinical benefits.

These requirements apply to all medical devices

GSPR : <u>Lien HTML</u> : (EU) 2017/745 – ANNEX I

Medical device : Many, many different devices...



But also ... different levels of risk

Réf. : LNC_GDR_MDR_240930

Risk classification

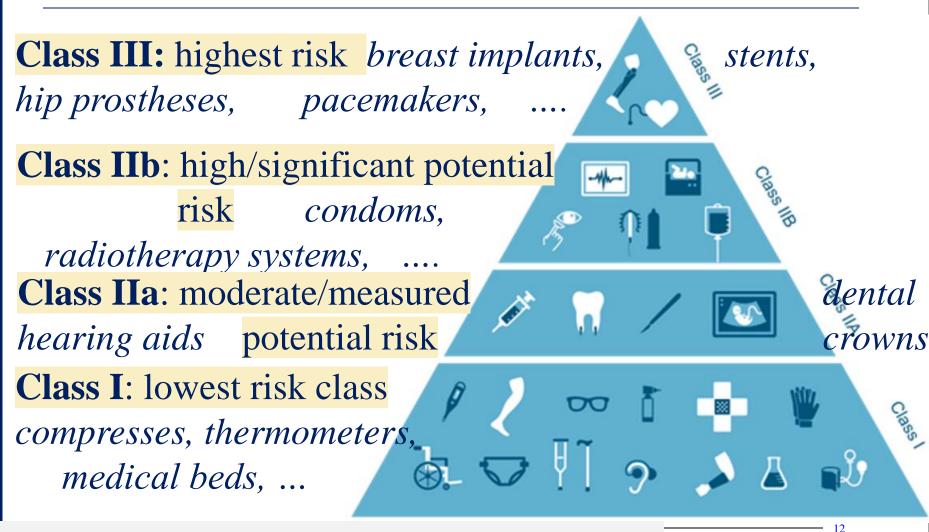
 The general safety and performance requirements are identical for all products,

... but ...

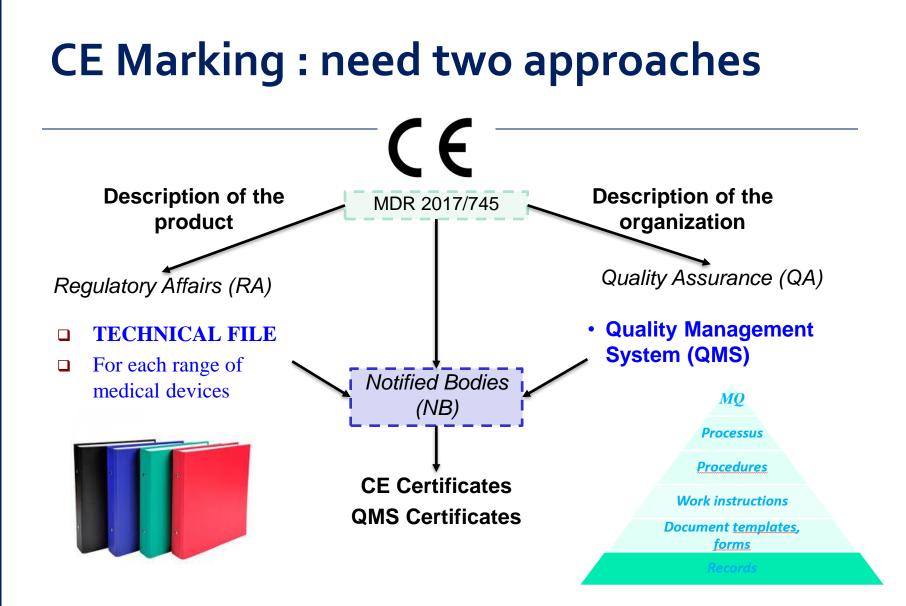
 The way in which compliance with the requirements is demonstrated depends on the risk class of the medical device.

Risk classification : according to risk

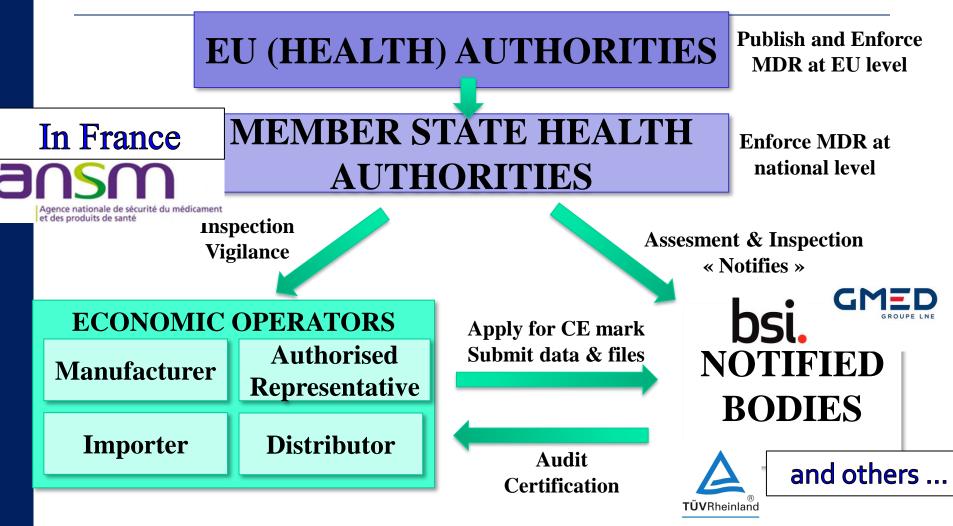




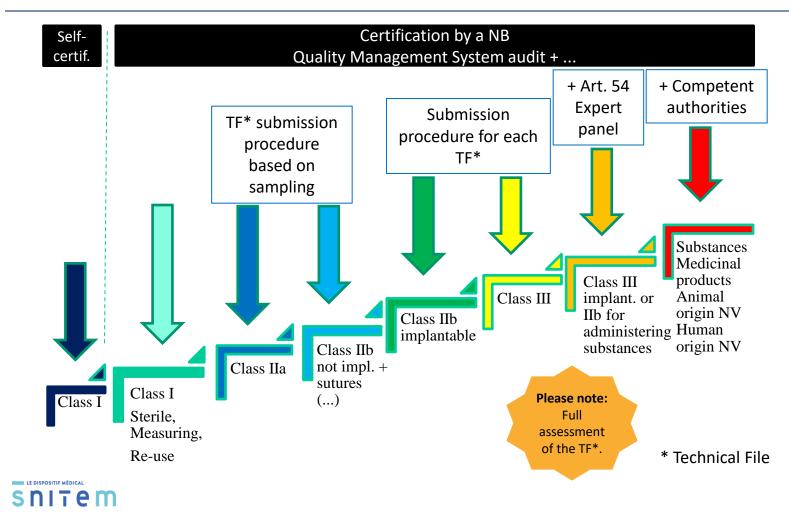
Rules 1 to 22 : Lien HTML : (EU) 2017/745 - ANNEX VIII



Economic Operators, Notified Bodies and Authorities



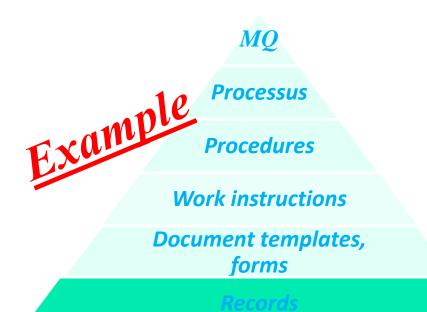
The assessment procedures (MDR 2017/745 - Art. 52)



Réf.: LNC_GDR_MDR_240930

QMS : Quality Management System

Documentary structure for the QMS



Documented procedures

required by the standards :

- Design and development
- Purchase
- Curtomer complaints
- Post market surveillance

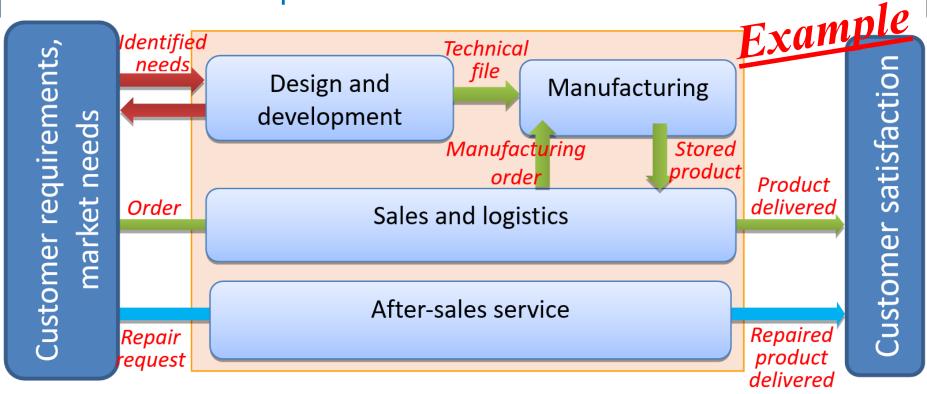
- ...

Records are proof of the activities carried out, to meet the requirements

Réf. : LNC_GDR_MDR_240930

QMS : Quality Management System

- Need to determine processes in the QMS
- A QMS process is a set of activities, with a result that can be specified



MDR 2015/745 Technical Documentation



- "The documentation for CE marking of medical devices, as well as the technical documentation for the PMS, shall describe the devices subject to CE marking."
- The technical documentation to be drawn up by the manufacturer shall be presented in a clear, organized, easily consultable and unambiguous manner and shall include in particular the elements listed in this Annex."

MDR 2015/745 Annex II and III: Technical Documentation

ANNEX II - TECHNICAL DOCUMENTATION

- DEVICE DESCRIPTION AND SPECIFICATION, INCLUDING VARIANTS AND ACCESSORIES
- **INFORMATION TO BE SUPPLIED BY THE MANUFACTURER**
- DESIGN AND MANUFACTURING INFORMATION
- **GENERAL SAFETY AND PERFORMANCE REQUIREMENTS**
- BENEFIT-RISK ANALYSIS AND RISK MANAGEMENT
- PRODUCT VERIFICATION AND VALIDATION
 - Pre-clinical and clinical data
 - Additional information required in specific cases

ANNEX III - TECHNICAL DOCUMENTATION ON POST-MARKET SURVEILLANCE

MDR 2015/745 Annex II : Technical Documentation

DEVICE DESCRIPTION AND SPECIFICATION, INCLUDING VARIANTS AND ACCESSORIES

- Device description and specifications
- Reference to previous and similar generations of the device

INFORMATION TO BE SUPPLIED BY THE MANUFACTURER

- Labels (complete set)
- Instruction for use

DESIGN AND MANUFACTURING INFORMATION

- Design stage of the devices
- Specification, manufacturing process, validations, testing, monitoring
- All production / sub-contractor sites listed

GENERAL SAFETY AND PERFORMANCE REQUIREMENTS

- Requirements set out in Annex I
- Applicability / Demonstration of conformity / Harmonized standards / evidence documentation (table)

.... /

MDR 2015/745 Annex II : Technical Documentation

..../....

BENEFIT-RISK ANALYSIS AND RISK MANAGEMENT

- Benefit-Risk refered to in section 1 and 8 of Annex I
- Solutions adopted and result of the risk management refered to in secion 3 of Annex I

PRODUCT VERIFICATION AND VALIDATION

- Pre-clinical and clinical data
 - Biocompatibility, identification of all material in contact direct or indirect with patient
 - Physical, chemical, microbological characterization
 - Electrical safety and electromagnetic compatibility;
 - Software validation and verification
 - Stability testing , including shelf life
 - Clinical Evaluaton Report
 - Post-Market Clinical Follow-up (PMCF) plan
- Additional information required in specific cases
 - Medicinal products
 - Device utilising tissues of human or animal origin, or their derivatives
 - Substance abosrbed or locally dispersed in the body
 - Device containing CMR or Endocrin-disrupting substances
 - Sterile devices : manufacturing environnement, cleaning and sterilsation validations report...

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Thank you for your attention

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