Regelgeving voor de medische hulpmiddelen industrie

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Locatie:



Good to know

A conflict of interest may exist as I work for IM Services BV which is a supplier to IVF clinics.

This presentation does not necessarily reflect the views of IM Services BV but is made on a personal basis.

Presentation content

- European legislation
- Technical File
- Quality Management System
- Production control
- Tests
- What's next?

Medical Devices Directive [MDD 93/42/EEC] => Besluit Medische Hulpmiddelen [BMH] came into effect on 14 June 1993

- Successor: Medical Devices Regulation [MDR 2017/745 (EU)]
- Entered into force on 25 May 2017
- o Transition period for application of MDR certification until 26 May 2020
- Products manufactured under the MDD are allowed for sale and use until 27
 May 2025

Active Implantable Medical Devices Directive [AIMDD 90/385/EEC]

In Vitro Diagnostic Medical Devices Directive [IVDD – 98/79/EC]

Successor: In Vitro Diagnostic Medical Devices Regulation [IVDR 2017/746]

'in vitro diagnostic medical device' means any medical device which is a reagent, reagent product, calibrator, control material, kit,, intended by the manufacturer to be used in vitro for the examination of specimens,..... derived from the human body, solely or principally for the purpose of providing information

- MDD highlights :
 - Safety and effectiviness
 - Different classes : I, Is, Im, IIa, IIb and III
 - Classification based on Intended Use
 - Rule 2 All non-invasive devices intended for channeling or storing, cells or tissues, for the purpose of eventual introduction into the body are classified as class IIa:
 - Legal manufacturer/Authorized representative
 - Post Marketing Surveillance [PMS]

Notified Body

- Issue CE certificate
- Audits
- Review Technical File
- Specialization IVF/ART

Role of competent authority [IGZ]

- Registration of Class I devices,
- Recall and vigilance
- Accreditation of NB

Technical File

TF required for each device family Content: Declaration of conformity Clinical evaluation [ISO 14155] o Biocompatibility issues [ISO 10993] Sterilization validation [ISO 11135/37 and 11737] Risk management [ISO 14971] Labelling [ISO 15223]

Standard QM System for manufacturers of medical devices is ISO 13485 : 2016

Risk based approach

> processes and products

Procedures for:

- Management Review
- Product realization
 - o Purchasing
 - Production and services
- o PMS, Recall, vigilance

- Management review: 1 x per year
- o External and internal audits

Input

- o Complaints
- o PMS feedback
- Control and measuring of processes & products
- Corrective and preventive actions
- Quality objectives

Purchasing
 Supplier qualification [ISO 13485 or ISO9001]
 Quality agreement :

 specifications
 change control

 Incoming goods inspection
 Batch CoA
 Audits
 Yearly supplier evaluation

Production

- Assembly and packaging
- Sterilization

Quality issues:

- Traceability / FIFO
- Work instructions
- Qualified personnel
- o Audits
- o Labelling
- Packaging validation

Warehousing and transport

Production Control

- Component level
- o Bioburden level
- Physical properties
- Compatibility

Assembly

- Environmental control [cleanroom]
 - o Particle count, T, Pa and %RH
 - Biocontamination control
- Line clearance
- Seal control
- Visual inspection

Final release for sterilization

Production Control

- Sterilization
- Gamma irradiation and EtO sterilization
 - Process control
 - o Release by QA sterilization plant
 - o Regular re-validation
- Compatibility
 - Materials
 - o Residu check
- Worst case approach

Tests

Mouse Embryo Assay [MEA]

- One-cell mouse embryo assay
- o Duration depends on intended use
- Test method depends on product
- > 80% surviving blastocysts after 96/120 hrs

Limulus Amebocyte Lysate assay [LAL]

o Release value dependend on product and volume media

Tests

- Sperm Motility Assay [SMA/HSSA]
- o Human sperm
- o SMI > 0.75
- Bacteria and fungi
- o Components
- Finished products

Cytotoxicity, sensitization, irritation

What's next

Device lifecycle MDR: More stringent ex-ante control for high risk medical devices Clinical evaluation reports [CER] Post market clinical follow-up [PMCF] Periodic safety update report [PSUR] Post market surveillance [PMS] Summary of Safety and clinical performance [SSCP] => Risk - benefit evaluation

What's next

European Database for Medical Devices : EUDAMED One central EU information system for: Vigilance reports Field safety notices [recall] PSURs for class III devices and also for Registration of devices Unique Device Identification [UDI] Registration of manufacturers, Notified Body's, etc.... o Certificates issued or withdrawn Market surveillance by competent authority [IGZ]

Thank you for your attention!

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Questions?
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