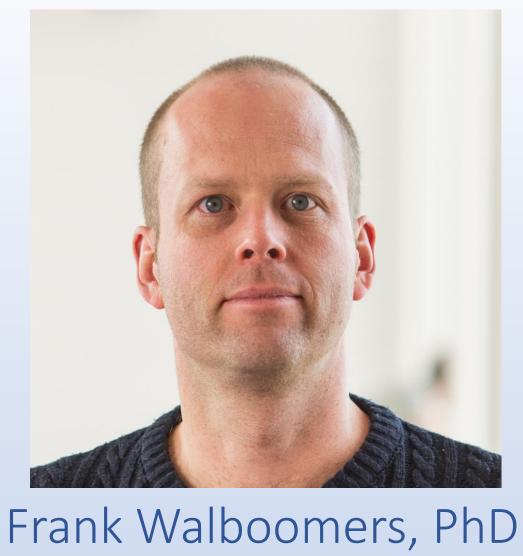


info@HCM-regulate.com

HCI Regulate



New MDD / MDR will have drastic impact on medical device translation from R&D to market

- May 2020 → new MDD (93/42/EEC) & Directive on Active Implantable Medical Devices (90/385/EEC)
- Implementation new MDR, stepwise, ... ?
- Unclear to most MD manufacturers
- Expectation that the number of lab test in MD will drastically increase, or even quest for development of new test methods



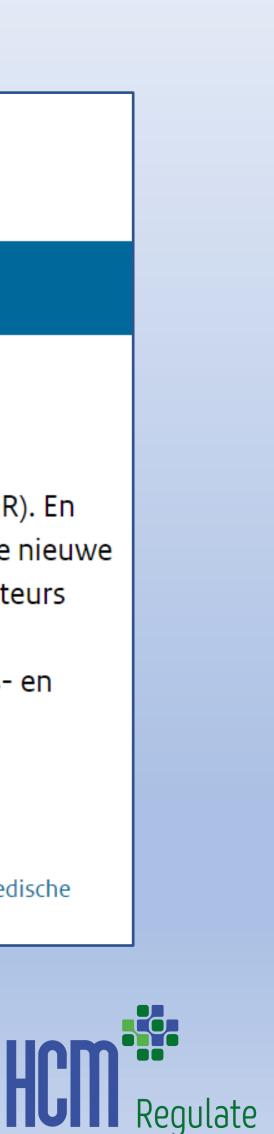
Rijksoverheid

erpen > Medische hulpmiddelen en technologie >

Nieuwe wetgeving medische hulpmiddelen

Er zijn nieuwe Europese regels voor medische hulpmiddelen (MDR). En voor medische hulpmiddelen voor in-vitro diagnostiek (IVDR). De nieuwe regels hebben gevolgen voor fabrikanten, importeurs en distributeurs van medische hulpmiddelen. Zo kan een product in een andere risicoklasse vallen en moet het voldoen aan strengere veiligheids- en kwaliteitseisen. De nieuwe regels hebben ook gevolgen voor zorginstellingen, zorgverleners en (indirect) voor patiënten.

- > Gevolgen voor fabrikanten
- Gevolgen voor gemachtigden, importeurs en distributeurs
- > Meer informatie
- Planning nieuwe wetgeving medische hulpmiddelen



HCM-Regulate B.V. Founded 21/09/22 **Operational per 2023**





Radboudumc

HUI Regulate



HCM Medical B.V.



- Hightech Contract Manufacturing Medical
- Contract Manufacturing Organization (CMO) specialized in the development and manufacturing of biological and biomaterial products.
- Licences: ISO 13485 (Medical Device), Tissue Establishment (allografts), GMP for Investigational Medicinal Products (IMP).
- Facilities: GMP class A/B/C cleanrooms
- Core technologies: supercritical CO₂ technology, aseptic processing, Freeze drying, filling and packaging







Current capacity

- 650m² state-of-the-art biomedical device materials research lab
- Fully compliant to national and international standards of (bio)safety etc.
- High degree of work organization (Digital labjournals, SOP's, ISO/GLP)
- 7 trained and skilled research technicians





Technical capacity (& this is even partial!)

- plasma treatment, ...
- elemental analysis EDS, molecular analysis FTIR, XRD
- biology including (q-PCR, ELISA, blotting, etc.)
- automated microscopy & DIA
- (clinical studies)

over 100 machines / techniques operational; many unique to medical device research

• Materials synthesis and processing: Organic/ inorganic scaffolds, gels, cements, dental materials, fibers, coatings, membranes, suspensions, nanoparticles, composites, etc. Thin film deposition (Magnetron Sputtering, Electrodeposition, electrospinning, emulsification, ultrasonication, sintering,

• Physico-chemical characterization: HLPC, electron microscopy (scanning and transmission), DLS,

Mechanical characterization: Tensile benches static/dynamic from 10 to 20.000 N, rheology, profilometry, surface properties (roughness, scratch tests, etc), erosion/ageing/wear simulation, ... • Cell & Molecular Biology: GMO-certified cell culture lab, live imaging, mechanical loading, molecular

Preclinical studies & Histology: (small & large in vivo models), paraffin embedding + immune stainings, PMMA embedding and diamond blade sawing microtomes to section hard matter,



What can HCM HCM HCM Regulate

