

Update on EMA role in implementation of new legislation for medical devices (MDR) and in vitro diagnostics (IVDR)

Annual PCWP/HCPWP meeting with all eligible organisations 20 November 2019





In 2010, the French AFSSAPS withdrew PIP

(Poly Implant Prothèse) implants from the

market, after surgeons reported a higher-

than-usual rate of rupture.

PIP breast implant scandal Metal-on-metal hip implant recall





The New European MDR And IVD Regulations



New rules will apply:

- For MDR starting 26 May 2020
- For IVDR will be 26 May 2022

Regulation (EU) 2017/745 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

Regulation (EU) 2017/746 on in vitro diagnostic medical devices and repealing Directive 98/79/EC and Commission Decision 2010/227/EU



MDR/IVDR - Increase Medical Device Safety

Vigilance and Post-market surveillance:

- Establish a modernised and more robust EU legislative framework to ensure better protection of public health and patient safety
- Address concerns from PIP breast implant scandals; increase confidence in the system

Important improvements:

Increased oversight of notified bodies, greater scrutiny of higher risk devices, improved traceability (unique device identifier - UDI)/'implant cards') and strengthening of clinical evidence and post-market surveillance requirements, EUDAMED database (partial public),..



(different sizes and models)





Higher risk medical devices













MDR/IVDR – Effectiveness of EU market & Response to technical and scientific developments

Scope expansion and re-classification of Products

While the classification system has been retained, rules have tightened and changed for some products, which will result in some devices being reclassified to higher classes. In addition, some devices that were previously exempt from the regulations are now in the scope of the new legislation.

Important improvements:

Increased oversight of notified bodies, greater scrutiny of higher risk devices, continuous improvement of product on the market, expert panel assessment of clinical evaluation,..



Implementation of the Medical Devices/IVD Regulations

• New requirements for notified body involvement for any medicinal products incorporating a medical device as an integral part

• Drug-Device Combinations

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Notified bodies must consult EMA or a competent authority for medicinal products before certifying the below types of device:

- Medical devices composed of substances that are systemically absorbed
- Companion diagnostics

New consultations on certain medical devices

areas

Borderline Products EMA has a role in providing an opinion to European Commission on borderline products



1. Drug-device combinations - medicinal products with Integral device

 Article 117: combination products will be reviewed by both Medicines and Device experts

<u>Under current system</u>

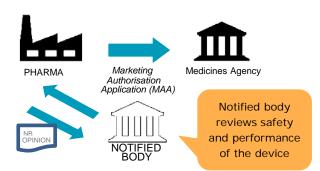




Application (MAA)



Under New Regulation



Examples of single integral product, not reusable





Autoinjector

Pre-Filled Pen



Pre-Filled Syringe



Pre-Filled inhaler



Pre-Filled IV Bag



Notified body re-designations by EC/MS Impact for new medicinal products availability?

- Industry letters to EMA, HMA, EC, CMDh raising concern of potential impact for medicinal products-medical device combinations (e.g. delay in NB opinion)
- > 7 of 60 existing Notified Bodies designated to date





Italy

20 NB designations expected by end of 2019

Impact for centralised procedure:

- ~25 new applications with integral device in 2020*
- >100 existing CAPs with devices, some of them impacted

^{*}Survey feedback from Industry trade associations

1. Drug-device combinations



Approximately 25% centrally authorised medicines, includes a medical device component

- Majority of combinations with medical devices:
 - ✓ pre-filled syringes / pre-filled pens (e.g. diabetes, immune therapy)
 - ✓ inhalers (Chronic Obstructive Pulmonary Disease /Asthma)
- Other, less common:
 - ✓ Nasal sprays with metered pump (measuring function)
 - ✓ Tablet delivery system with controller for pain management
 - Advanced Therapy Medicinal Products (ATMPs) (e.g. autologous cultured chondrocytes embedded in a biodegradable matrix or scaffold)

Drug-device combinations – Guidance for applicants



Draft guideline on quality requirements released on 3 June 2019

Scope: drug-device combinations (integral, co-packaged or referenced in the <u>medicinal</u> <u>product</u> information)

Q&As published February and October 2019

Scope: drug-device combinations, scope to be expanded as further updates are published



2. NEW EMA consultation procedure: Medical devices composed of substances that are <u>systemically</u> <u>absorbed</u> to achieve the intended action

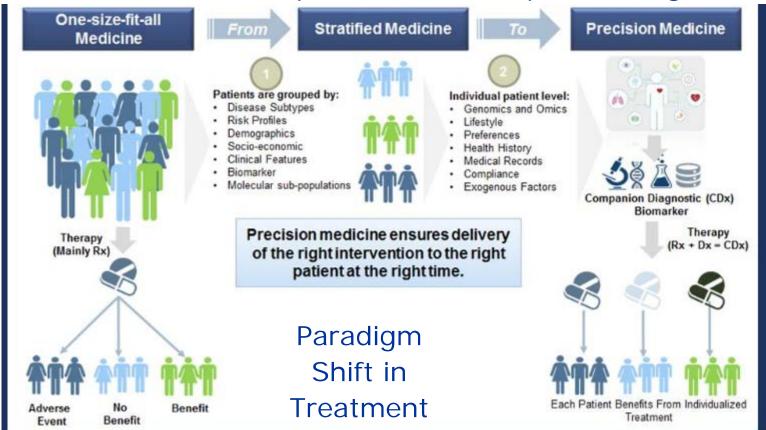
- Formulation similar to a medicine (e,g: some cough syrups, laxatives, fat binding etc)
- Principal intended action is not achieved by a pharmacological, immunological or metabolic means

Increased safety and requirements as considered "higher risk":

- By Notified body review
- Compliance with Directive 2001/83/EC for absorption, metabolism, toxicity etc
- > If systemic absorption additional scrutiny by medicines authorities
- 11 Update new legislation for medical devices and in vitro diagnostics Zaide Frias



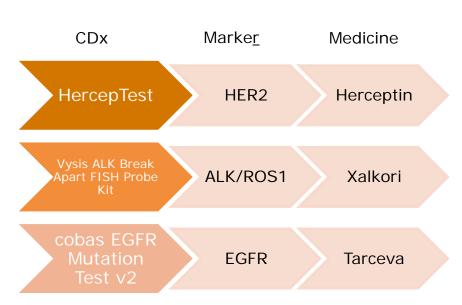
2. NEW EMA consultation procedures: Companion diagnostics





2. NEW EMA consultation procedures: Companion diagnostics and personalised medicines

- Tailor therapy to patients to obtain best efficacy response and highest safety margin
- Increased requirements for companion diagnostics:
 - Notified body review (NEW)
 - Additional scrutiny by medicines authorities on suitability (NEW)



CDx – Companion diagnostic

HER2 - human epidermal growth factor receptor 2

ALK/ROS1 - anaplastic lymphoma kinase

EGFR - Epidermal growth factor receptor

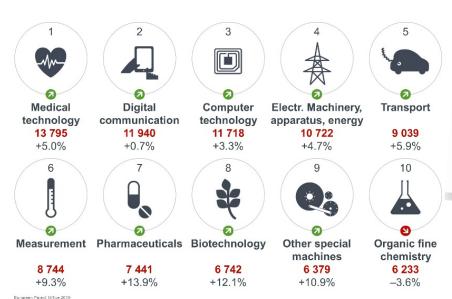


3. Borderline products Keep up with new technology in Healthcare?



Medical device industry in EU: 675,000 employed in 27,000 companies, of which 95% are Small, medium Enterprises

EPO technical fields with most applications 2018 (top 10)

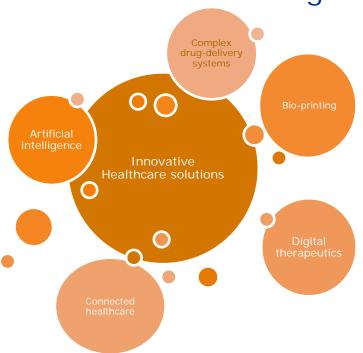






3. Borderline products

"Blurring of applicable frameworks"



- Classification challenges as product complexity increases
- Member states responsible for classification
- Mode of action of the product will determine which framework it falls under

European commission can consult EMA when deliberating the status of products on the borderline with medicines



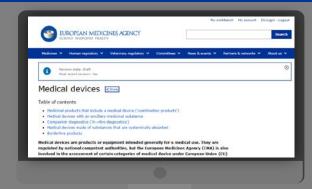
Future Opportunities

EMA Regulatory Science Strategy 2025

Create an integrated evaluation pathway for assessment of medical devices, in vitro diagnostics and borderline products

- Mechanism for early interaction with EMA, device authorities and NBs to obtain joint advice during development
- Building a EU network of expertise to provide support throughout the continuum of product development and lifecycle
- Regulatory requirements and guidance development

EMA Medical Devices Webpages







uman Medicines Evaluation Division EMA/37991/2019

Questions & Answers on Implementation of the Medical Devices and In Vitro Diagnostic Medical Devices Regulations ((EU) 2017/745 and (EU) 2017/746)



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Further information

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