

# European Society of Cardiology – Lessons learned from a decade of engagement

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Brussels 21 March 2018

### The European Society of Cardiology





## 27.2.2013 – Brussels Office The European Heart Agency





## **ESC** advocacy on medical devices



2008	ESC submission to public consultation on recast
2009	ESC participated in Exploratory Process at EC
2011	ESC Policy conference and paper in EHJ
2011	ESC participated in high-level conference on recast
	of the medical device directives
2011	Meeting with Chef du Cabinet of European Commissioner
2012	ESC invited by Commission to attend meetings of the Clinical Investigation and Evaluation Working Group
2013	Briefing meetings with MEPs and rapporteurs
2013	ESC invited to attend Medical Devices Expert Group
2014	ESC invited to attend Vigilance Working Group
2018	ESC invited to attend Medical Devices Coordination Group

# **The Treaty of Lisbon**Paragraph 2 C (k)



Shared competence .. applies in .. common safety concerns in public health matters ..

The measures to be adopted ..must ..aim to set high standards of quality and safety where national standards affecting the internal market would otherwise prevent a high level of human health protection being achieved.

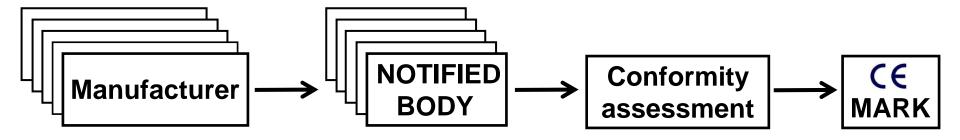
## A standard approach for implementing EU law

**December 1984:** The European Council agreed that it should take steps to complete the Internal Market, including implementation of European standards

- 1985 Completing the Internal Market White Paper (85) 310
- 1985 On a New Approach to Technical Harmonization and Standards

  Council Resolution 85/C 136/01

"National bodies authorized to issue marks or certificates of conformity shall be notified by each Member State to the Commission and to the other Member States."



### **European Commission – Medical Devices**

**DG ENTR** *Enterprise* and industry

**DG SANCO** Health and consumer affairs (now DG SANTE)

**DG GROW** Internal Market, Industry, Entrepreneurship & SMEs

**DG JRC** Joint Research Centre (Ispra, Italy)

**DG SANTE** Inspections of notified bodies; health technology

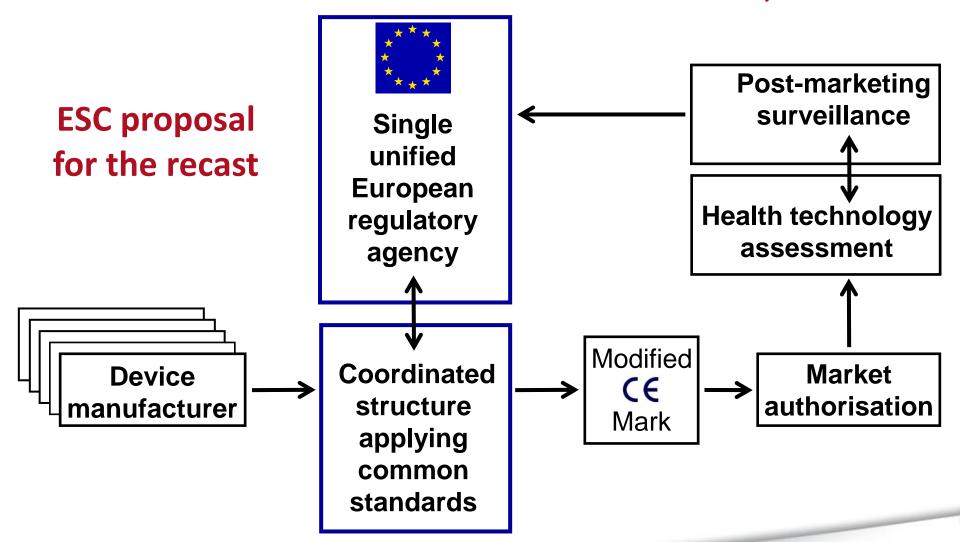
**DG DIGIT** Development of Eudamed database

**DG CNECT** *Medical software and apps* 

**DG RTD** Funding of research and development

**European Medicines Agency** Hybrid devices

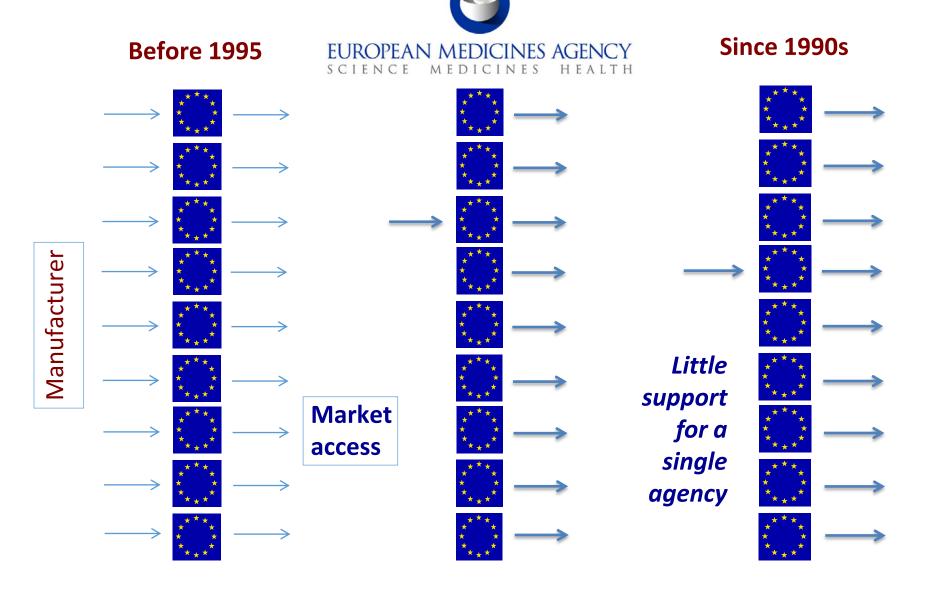
#### Eur Heart J 2011; 32: 1673-86





#### **EU Pharmaceuticals**





# Freedom of information in the European Union Regulation EC 1049/2001 on public access to documents

- Wider access should be granted to documents in cases where the institutions are acting in their legislative capacity, including under delegated powers ... documents should be made directly accessible to the greatest possible extent.
- .. all agencies established by the institutions should apply the principles laid down in this Regulation
- In principle, all documents of the institutions should be accessible to the public.

# European Medicines Agency Pharmaceutical Products

EU **Clinical Trials Database** (EudraCT) www.eudract.ema.europa.eu

Clinical data published at EMA website www.clinicaldata.ema.europa.eu

- Summary of product characteristics
- European public assessment report (EPAR)
- Divergent expert opinion
- Committee for Medicinal Products for Human Use (CHMP) summary of opinion
- Conditions of the marketing authorisation
- EPAR Summary for the public
- Summary of risk management plan (RMP)
- Procedural steps taken and scientific information after the authorisation
- Periodic safety update reports (PSUR)

www.ema.europa.eu/ema/

# CDRH, FDA Medical Devices

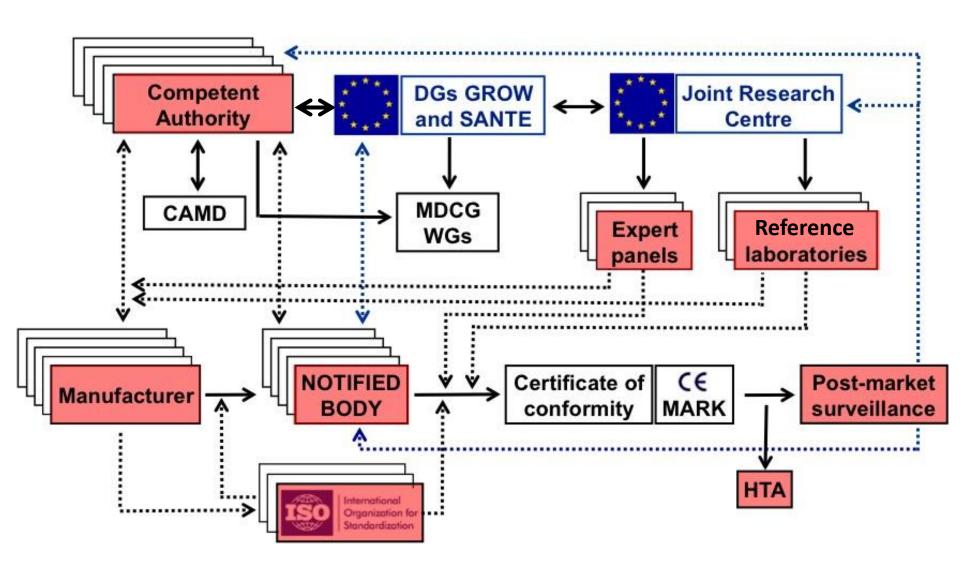
Links to relevant **trials**, all registered at www.clinicaltrials.gov

- Definition & classification of the device
- List of devices with same product code
- Summary of safety and effectiveness data (SSED), including preclinical tests, relevant standards, and clinical studies
- Labeling information including instructions for use (IFU)
- Response to Premarket approval application (PMA), including instructions for conducting post-approval studies
- Record of all supplementary approvals
- Medical device recall
- Post-approval studies progress report
- Postmarket surveillance database

www.accessdata.fda.gov/

# A complex new structure with many new tasks

- but with limited capacity to implement changes





# CENTER FOR DEVICES AND RADIOLOGICAL HEALTH

CDRH Scientific & Technical Staff		
(January 2017 Estimates)		
Positions	Staff Count	
Total	1,184	
Medical, Hospital, Dental, and	424	
Public Health Group		
Engineering Group	405	
Biological Sciences Group	177	
Physical Sciences Group	95	
Mathematical Sciences Group	75	
Veterinary Medical Science Group	8	

#### 1700 full time equivalents

Medical, Hospital, Dental, and		
Public Health Group	424	
Consumer Safety Officer	132	
Medical Officer	117	
Regulatory Health	80	
Public Health Advisor	36	
Medical Technologist	26	
Nurse Consultant	24	
Optometrist	3	
Dental Officer	3	
Audiologist	2	
Pharmacist	1	
Veterinary Medical		
• • • • • • • • • • • • • • • • • • •		
Science Group	0	
Veterinary Medical Officer	8	

Courtesy Dr Jeffrey Shuren

USA 326 M / EU 508 M (2016)

#### **Device-Specific Guidance – Expert engagement by ESC**

#### **EU Commission / Clinical Investigation and Evaluation WG**

MEDDEV 2.7/1, revision 4, recommendations for clinical evidence Coronary stents, and bioresorbable scaffolds

systematic reviews, meta-analyses

#### **EU Commission / Vigilance WG**

Criteria for surveillance of electrophysiological ablation catheters Criteria for surveillance of cardiac implantable electronic devices

#### **European Network for Health Technology Assessment (EUnetHTA)**

Relative effectiveness assessment (REA) of wearable cardioverter defibrillator

REA of TAVR in patients at intermediate surgical risk

#### International Standardization Organisation (ISO)

Review of ISO 14155, principles clinical evaluation medical devices Revision ISO 5840 1-2-3; new ISO 5910; valve prostheses, procedures

## The EU relies on international advisory standards

- but it does not pay sufficiently for participation



International Organization for Standardization



International Electrotechnical Commission





European Committee for Standardization

European Committee for Electrotechnical Standardization

#### **INNOVATION** versus **REGULATION?**

# Earlier access Greater choice

Less evidence
Greater exposure to risks
Expanded use before
proof

# Delayed access Restricted range

Efficacy established
Unexpected risks avoided
More evidence-based
practice

# Medical devices – ethical reasons for international collaboration in device standards and evaluation

- Innovative high-risk / implantable devices for unmet medical needs may always carry some unpredictable risks
- All patients deserve equally safe medical devices
- Development risks should be shared equally
- Studies in less strict regulatory environments are unethical

Fraser AG et al, BMJ 2011; 342: d2952





67th World Health Assembly 2014
Resolution 67.20

Strategic Plan 2020





## Challenges for regulators

- ♦ Integration, collaboration, transparency

## Challenges for health care professionals