AHWP Oman 14 November 2019

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MAAN

Regulation of medical devices to improve Global Health. WHO update

Norld Health Organization

Adriana Velazquez, Senior advisor on medical devices, 8 October, 2019.



Goal 3. Good health and well being



SUSTAINABLE GOALS DEVELOPMENT GOALS





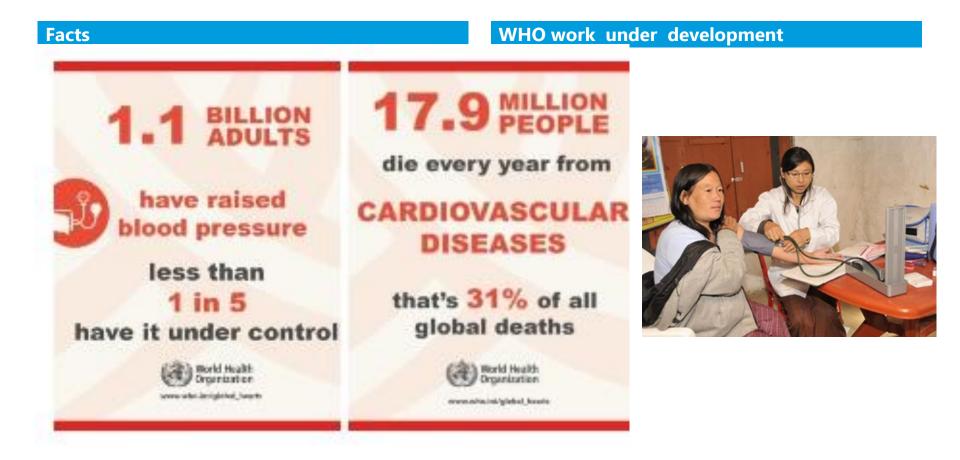
Global health problems





Hypertension

Selecting affordable, effective, Technologies to tackle NCDs





5 billion people lack access to safe and affordable surgery

Lancet commission on Global Surgery

Emergency and essential surgical care

Five billion people lack access to safe and affordable surgery



In 2015, The Lancet Commission on Global Surgery produced a report – Global Surgery 2030 – which outlines five key approaches for improving universal access to safe and affordable surgical and anaesthesia care. Review the report overview below and learn more about other key findings, too.

Global Surgery 2030: Report Overview
The Lancet Commission on Global Surgery



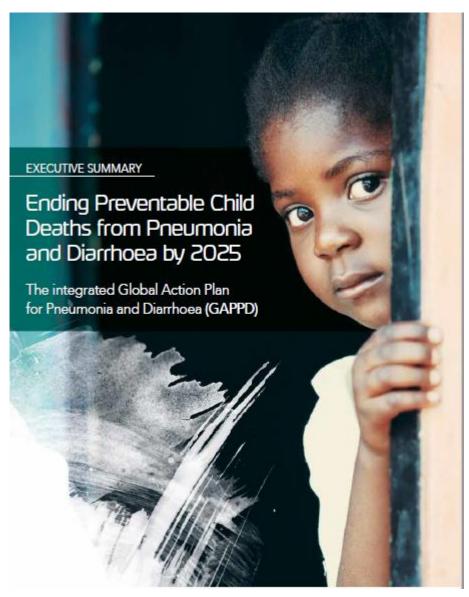
https://www.who.int/surgery/en/ and http://media.wix.com/ugd/346076_713dd3f8bb594739810d84c1928ef61a.pdf Lancet commission

Figure 1. Proportion of the population without access to safe, affordable surgery and anaesthesia by region



Pneumonia

Number 1 killer for less then 5 years old.





Patient Safety

Magnitude

Incidence

4 out of 10

Up to 4 out of 10 patients are harmed in primary and ambulatory care settings

134 million

134 million adverse events occur each year in hospitals in LMICs, contributing to 2.6 million deaths annually due to unsafe care

Speak up for patient safety!

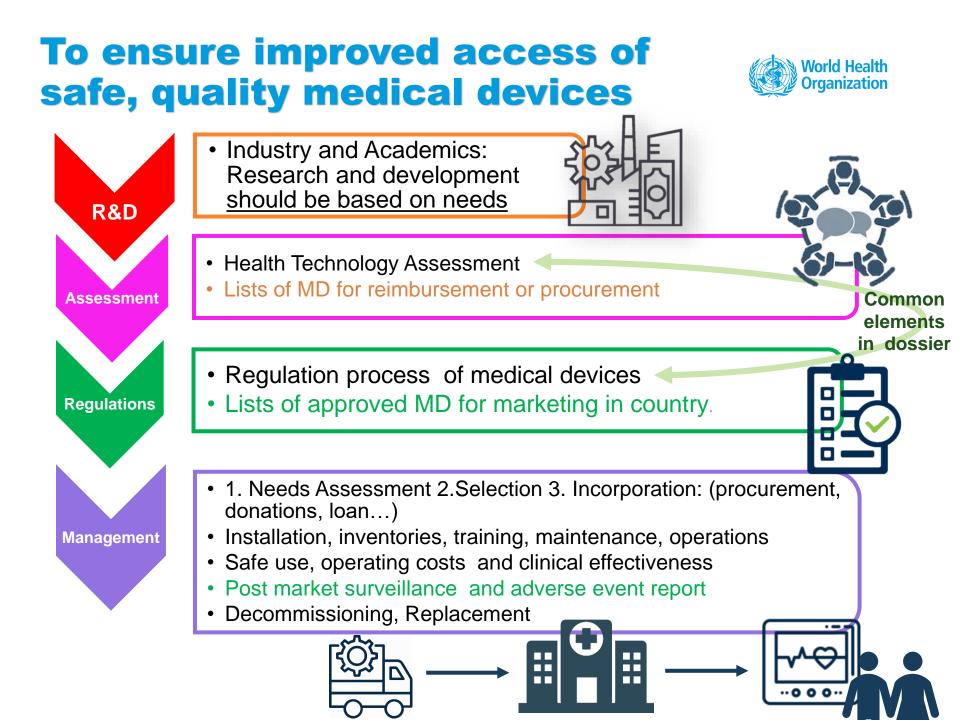
No one should be harmed in health care







WHO has developed guidance for you on medical devices

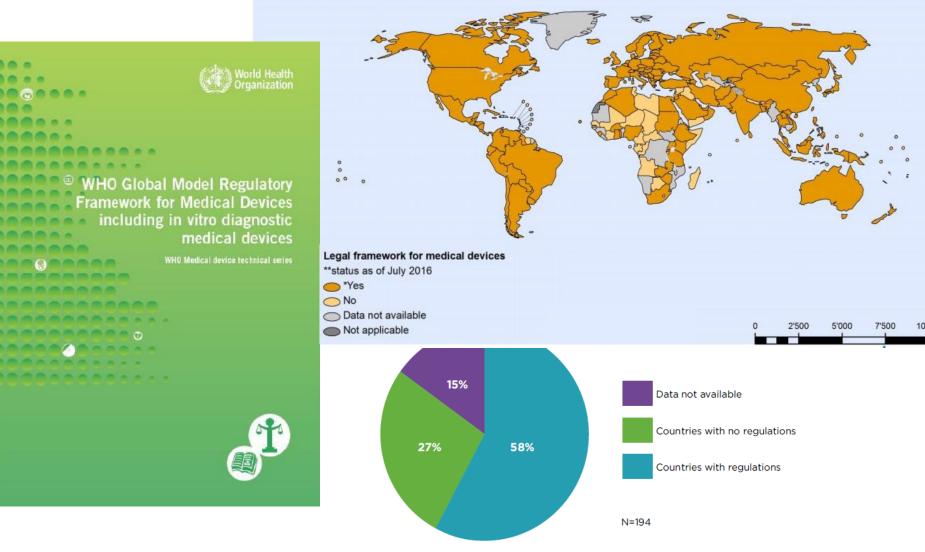


National regulatory authorities in the governments decide which medical devices can enter the local market (WHA67.20)

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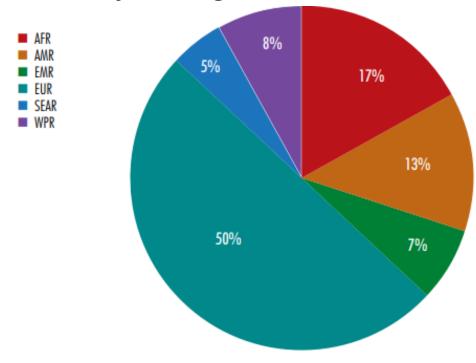


Human Resources (Biomedical Engineers)

World Health Organization HUMAN RESOURCES FOR MEDICAL DEVICES The role of biomedical engineers WHO Medical device technical series



Countries with at least one BME professional association by WHO region



Source: Data was reported in surveys launched by WHO from 2009-2015.

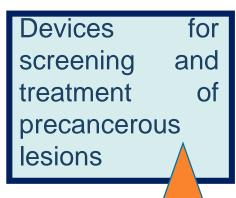
Guide & Technical specifications for different Devices



Blood pressure measurement

Radiotherapy equipment

Oxygen delivery systems



2019

World Health Organization WHO Technical specifications of Neonatal Resuscitation Devices



TECHNICAL SPECIFICATIONS

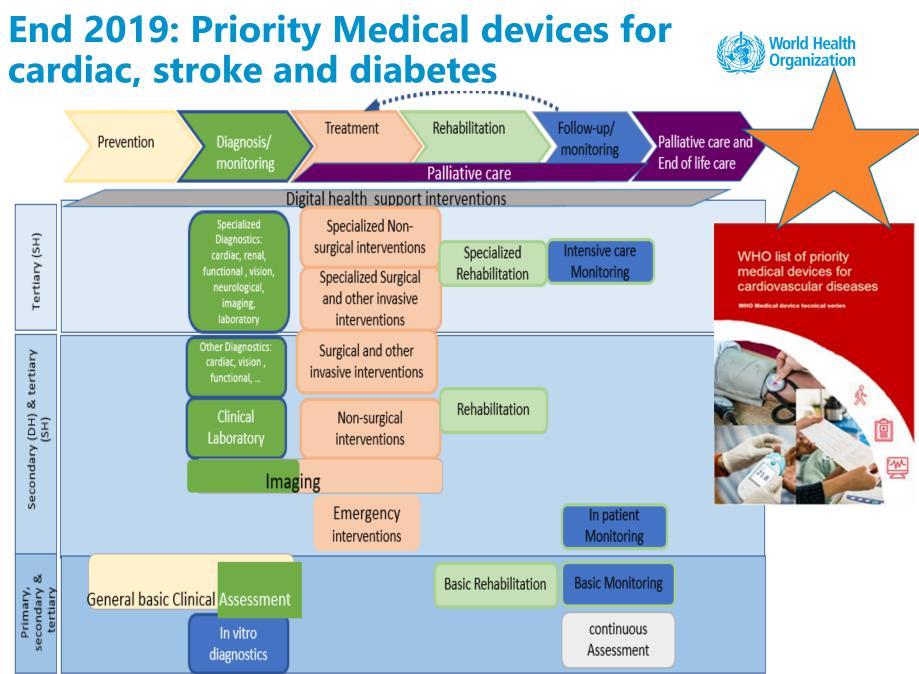
World Health Organization

TECHNICAL SPECIFICATIONS FOR OXYGEN CONCENTRATORS

WHO MEDICAL DEVICE TECHNICAL SERIES

WHO has been selecting and publishing: Priority Medical Devices (PMD) and essential in vitro diagnostics (EDL)





evel of Care

End 2019: Decommissioning of Medical Devices





Nomenclature of medical devices.

WHO working on an international nomenclature of medical devices including IVDs for use by regulators, procurers, supply and use.

World Health Organization

Discussion on Nomenclature of Medical Devices 145th session of the Executive Board May 2018



EXECUTIVE BOARD 145th session Provisional agenda item 5.1 EB145/3 30 April 2019

Standardization of medical devices nomenclature

International classification, coding and nomenclature of medical devices

Report by the Director-General

Watch live



Developing and adapting a global standard for naming medical devices is a perfect example of WHO's core normative standard-setting work

Tedros Adhanom Ghebreyesus

Standardization of medical devices nomenclature, the way forward



Nomenclature to support all process : from development to use

"The goal is to have an international classification, coding and nomenclature for medical devices that would be available to all Member States and that would support: patient safety, access to medical devices for universal health coverage, quality of health care and achievement of Sustainable Development Goal 3 (Ensure healthy lives and promote well-being for all at all ages)"

Executive Board EB145/3. Report by Director General .



international nomenclature of Medical Devices, developed by WHO 2018 for consultation



Governance

By WHO secretariat to Member states

Defined mechanism for stakeholder feedback

Reference group of experts to review new submissions/updates/

For public consultation, allowing public feedback.

Links to other WHO international nomenclatures

Characteristics

Transparent methodology to assign new terminology

Defined mechanism for updates

Hierarchical nomenclature with various levels of granularity as needed by product user

Classification, name and code generated for multiple levels

Supports translations

Access of Information

A referenced for all stakeholders

Free – a global public good

Compatible with UDI

Downloadable

Easy to search

API for exchange of information to other systems

Compatible with other international classifications

Using ontology platform which is used by ICD11 in WHO. Possibilities:



https://icd.who.int/browse11/l-m/en#/http%3a%2f%2fid.who.int%2ficd%2fentity%2f1032688129

Medical Devices

XD7QL5 Medical Equipment

▼ XD8JT7 Blades

steel

XD23H7 Surgical Instruments

sterile, single use

XD6MQ1 Surgical scissors

XD0WK5 Clamps and Clips

XD7JB1 Speculum

▶ XD70V9 Retractors

XD23W0 Basins/bowls

XD5KX4 Needle holder

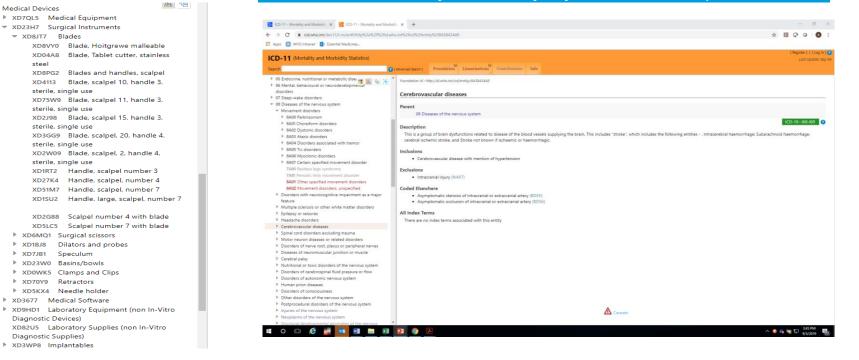
XD3677 Medical Software

Diagnostic Devices)

Diagnostic Supplies) XD3WP8 Implantables

XD1BJ8 Dilators and probes

Possibilities to see: hierarchy, definitions, synonyms, exclusions, description, codes,



Governance of the nomenclature systems

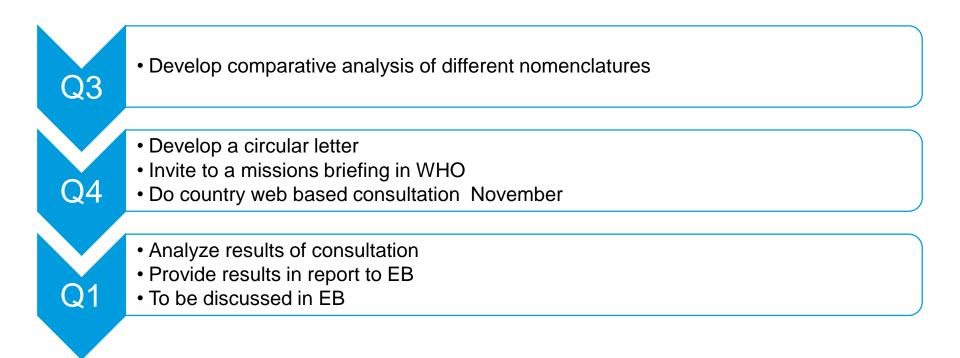


Most of these receive input from the organization itself and it is not public comment.

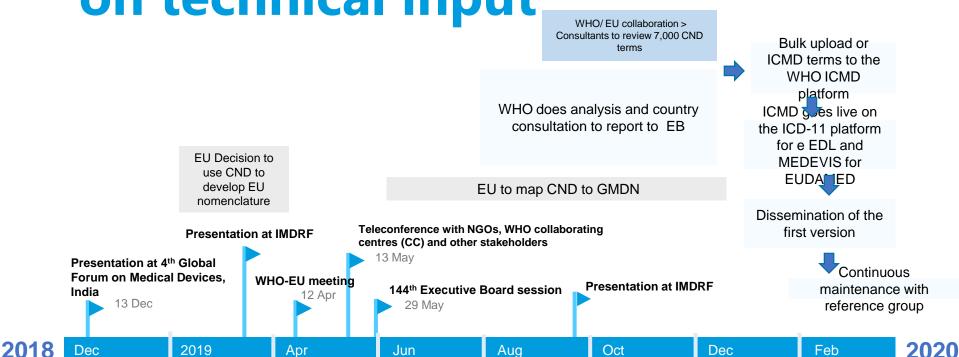
	Universal Medical Device Nomenclature System (UMDNS)	Global Medical Device Nomenclature (GMDN)	Global Product Classifiation (GPC)	Products and	Nomenclature	CND EUROPE
	ECRI Institute	GMDN Agency	GS1 Global Office	GS1 US	SNOMED	EMDN
Complies with WHO concept note: Global public good, freely available, to all stakeholders Transparent process code assignation, addition or removal Have organizational and review structures in place to ensure that all stakeholders (in particular experts, regulators, procurers and users) from different regions are able to regularly (at least annually) provide feedback. Downloadable for all CMMS systems, other international systems.	×	×	×	×	×	*

WHO process as requested by EB members:





Timeline proposal on technical input



World Health Organization Defining assessment protocols for medical devices in digital health

Digital

Medical

devices



- Wearables
- all that use ICT
- Systems under digital health
- Clinical decision support systems
- Software as medical device
- Personalized medicine
- CADx
- Al

- Surgical instruments
- Most single use devices
- Implantable
 prothesis

Analog or mechanic **medical** devices

> Digital health systems with no clinical or patient

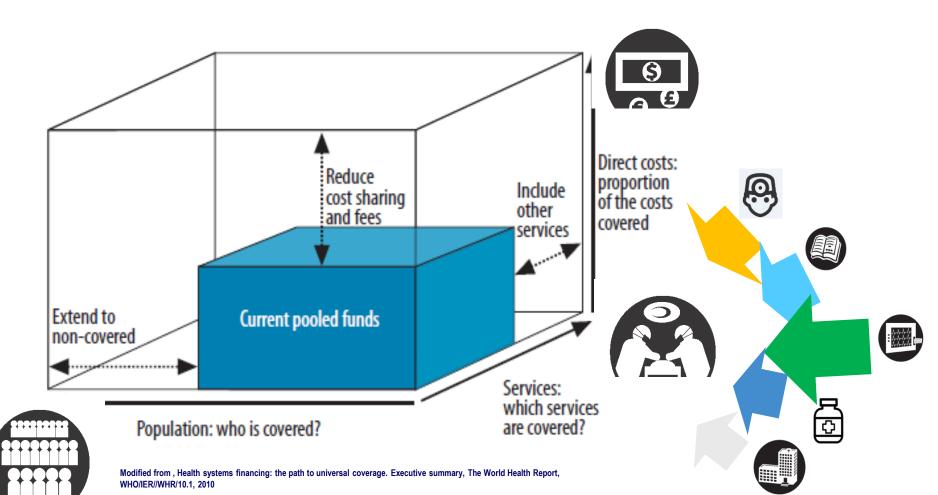
- Surveillance interface
- Education
- Public health



Goal: to ensure population coverage with appropriate medical devices

universal health coverage, including financial risk protection, access to quality essential health-care services.

World Health Organization



Remember a patient is at the end **World Health** of all our activities, they deserve our: Organization **Technical** knowledge Passion Transparency Hard work Collaboration

Gracias Thank you

Merci Shokran Xie xie Spasiva

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World Health Organization

www.who.int/medical_devices