WHO Perspective on Health Technologies: Medical Imaging

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World Health Organization
World Health Organization (WHO)

April 7, 1948 (193 Member States)

- The attainment by all peoples of the highest possible level of health.
- The Constitution defines health as a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.
WHO Core Functions

- **Leadership** on matters critical to health and **partnerships** where joint action is needed
- **Shaping** research agenda
- **Setting norms and standards**
- **Articulating** ethical, evidence based **policy options**
- **Technical support**
- **Monitoring and assessing** health situation / trends
Medical Devices in Health Systems

System building blocks:
- Service delivery
- Health workforce
- Information
- Medical products, technologies
- Health financing
- Leadership / governance

Goals/outcomes:
- Improved health (level and equity)
- Responsiveness
- Financial risk protection
- Improved efficiency

Access Coverage

Quality Safety
First Global Forum for Medical Devices
9-11 September 2010, Bangkok, Thailand

122 recommendations
Short and long term actions planned for the 15 priority recommendations

Safe, accessible and affordable medical devices
Ensure that properly trained area in place at the time of installation of radiation medicine technology
Baseline Country Survey on Medical Devices

2010 WHO Survey
- Mammography equipment
- CT scan units
- MRI scanners
- Nuclear medicine equipment
- Linear accelerators
- Telecobalt units
- PET equipments

145 Countries Members of WHO

Ministry of Health appointed a focal person for data collection

- Number in public sector
- Number in private sector
- Total number of equipment
- Density per population
Number of Countries by Income
World Bank Data

- Low: 32
- Lower middle: 33
- Upper middle: 38
- High: 41
Mammography Equipment

Density per 1 000 000 population

Number of countries that responded/total number of countries

- Low
- Lower middle
- Upper middle
- High

Income Country Group

Global

24/32
24/33
29/38
26/41

0.27
1.40
8.95
22.93

0
5
10
15
20
25

Number of countries 103

Density per 1 000 000 population

0
5
10
15
20
25

6.98

0
5
10
15
20
25

Low
Lower middle
Upper middle
High

Global
Mammography Equipment: Geographical Distribution

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Use your mouse to select data. Use Ctrl key to make multiple selections. Click on the right mouse button to clear selections.
CT Scan Units

Density per 1,000,000 population

Number of countries that responded/total number of countries

- Low
- Lower middle
- Upper middle
- High

Income Country Group

Global
MRI Scanners

Income Country Group

Density per 1 000 000 population

Number of countries that responded/total number of countries
- Low
- Lower middle
- Upper middle
- High

Global

Density per 1 000 000 population

Number of countries 110
Nuclear Medicine Equipment

Density per 1,000,000 population

Number of countries that responded/total number of countries

Income Country Group

World Health Organization
Radiotherapy Units

2010 WHO Survey and IAEA Data

Density per 1 000 000 population

Income Country Group

- Low
- Lower middle
- Upper middle
- High

Global

- 193 countries/total of 196
- 1.8

Density per 1 000 000 population

0.1 0.6 1.4 7.3

World Health Organization

ESR Meeting, Vienna, March 4, 2011
PET Equipment

Density per 1,000,000 population

Number of countries that responded/total number of countries

- Low
- Lower middle
- Upper middle
- High

Income Country Group

Global

World Health Organization
e-Documentation Centre

- Searchable database of WHO documentation on health technologies
- Available on www.who.int/medical_devices
- More than 300 documents currently available in 15 languages
Contact

www.who.int/medical_devices

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