The Role of Medical Devices to Improve Health Service Delivery: MEETING THE NEEDS

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The Comprehensive PHC Approach
Integration across the continuum of care

Principles
- Equity & human rights
- Bio-psycho-social-cultural sensitivity
- Evidence-based practice
- Health promotion
- Multidisciplinary care
- Appropriate referral
- Intersectoral collaboration
- Community participation
- Regular evaluation

Continuum of Care
- Promotion
- Prevention
- Cure
- Rehabilitation
- Palliation

Levels of Care
- Tertiary Level
- Secondary Level
- Primary Level
- “Family”/Community

REFERRAL SYSTEM

Adapted from: M. Alperstein 2000
WHO HSP Framework
Goals and functions of the health system

FUNCTIONS

- Stewardship (Oversight)
- Resources Generation
- Financing (Collecting, Pooling and Purchasing)
- Service Provision

GOALS / OUTCOMES

- Responsive-ness
- HEALTH
- Fair Financial Contribution
Health Technology Packages

Clinical Procedures
- e.g. CPT4, RAMS

Linking of appropriate technologies

Essential Interventions

Consensus Forums

Disease classification
- e.g. ICD 9/10

Essential Procedures

Essential Infrastructure List

Essential Equipment List

Essential Human Resources List

Essential Drugs List

District Provincial National
Integrated Healthcare Resource Management

Health Workers

Medical Devices & Disposables

INTERVENTION

Infrastructure

Drugs
Health System Performance

- **Coverage**: probability of receiving an effective health intervention when needed.

  *Elements: access* (availability, accessibility, affordability and acceptability), *utilisation*, and *effectiveness*.

- **Quality** healthcare should be: Safe, Patient-centered, Effective, Timely, Efficient, Equitable

Efficacy – Effectiveness Gaps

Outcomes (Units)

Developed

Developing

Efficacy

Effectiveness
Healthcare Technology Management

HTM Structures & Processes

Health Professions

Health Care Engineering

Non-Medical Professions*

Biomedical Engineering Research

Clinical Engineering MEM&M

Medical Device Eng. Innovation

Hospital Engineering HFM&M

* Medical Physicists, Clinical Technologists/Technicians, Radiographers, etc.
Speakers

- Mr Jeremiah Mwangi (APO)
  - Patient Perspective

- Mr Luciano Moccia (EMWF)
  - Clinical Sustainability Perspective

- Mr John Zienaa (GHS)
  - National Availability Perspective

- Dr Saide Calil (UEC)
  - Global Technology Support Perspective