Cost Effective Cardiovascular Interventions for low and middle income countries

Absolute Risk Approach to Management of Cardiovascular risk



Determinants of CVD Risk

Smoking Physical inactivity **Unhealthy diet Intermediate** risk factors



Determinants of CVD Risk

Intermediate risk factors
Hypertension
Hyperlipidemia
Diabetes Mellitus



Treatment Decisions Based on comprehensive CV risk

- Cost-effective
- Efficient use of limited resources
- Better health outcomes



Assessment of CVD Risk

Smoking, PI, Unhealthy diet

Age, Family history

HBP

Diabetes, High lipids (Lab. Assays)

ACC/TOD (retinopathy, LVH, renal function, ECG, Echo,)



Barriers in PHC

Competency of HCP

Weak infrastructure

Limited financial resources

Disorganised referral systems



Scenario in PHC in Nigeria

Urine analysis 37%
Blood glucose 20%
Lipids 9%



Challenges

Evidence based
Safe
Flexible
Simple
Affordable/sustainable



WHO CVD- Risk Management Package

- ◆ Preparation 2001/ 2002
- ◆ Expert consultation- July 2002
- ◆ Publication-Dec 2002



Core Module

- -Scenario 1: (PHC/Non Physician Health Care worker)
- -Scenario 2: (Physician/ specially trained nurse)
- -Scenario 3: (Physician/access to full specialist care)



WHO CVD-Risk Management Package

Uses hypertension as entry point

Can be used for managing hypertension and diabetes using scenario 2/3 protocols



Adaptation to settings/No blue print

BP measurement
SBP
Diet protocols
Follow up duration



Implementation Sites

Bangladesh
Chile
Egypt
Guinea
Indonesia
Sri Lanka

Benin
China
Ghana
India
Mozambique
Tunisia

