Healthy Caribbean Coalition: Strengthening Health Systems, Supporting NCD Action

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Building Blocks for Health Systems Strengthening

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References

- Moving Beyond Supporting the Health System:
 Entering the Third Dimension Ann Lion, DrPH, Abt Associates
- Human Resources for Health in the Asia / Pacific John Hall, Human Resources for Health Knowledge Hub
- Strengthening Health Systems to Reach the MDGs -Catherine Connor, MBA, Health Systems 20/20 Project
- Improving Chronic Illness Care, Group Health's MacColl Institute; Supported by The Robert Wood Johnson Foundation Grant # 48769

Health for all / MDGs / Sustainable Human Development

(Social, Economic)

Universal Health Care (equity, efficiency, quality, co\$t)

Health System Strengthening

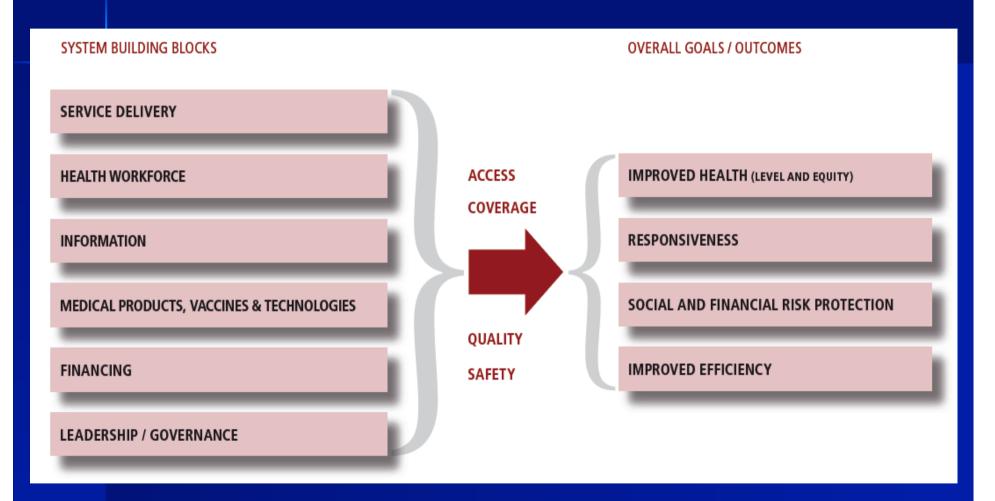
Health financing

WHO Definitions

 A health system is...the sum of all organizations, institutions and resources whose primary purpose is to improve health

 HSS is building capacity in critical components of health systems to achieve more equitable and sustained improvements across health services and health outcomes

6 Building Blocks of the health system and link to health outcomes

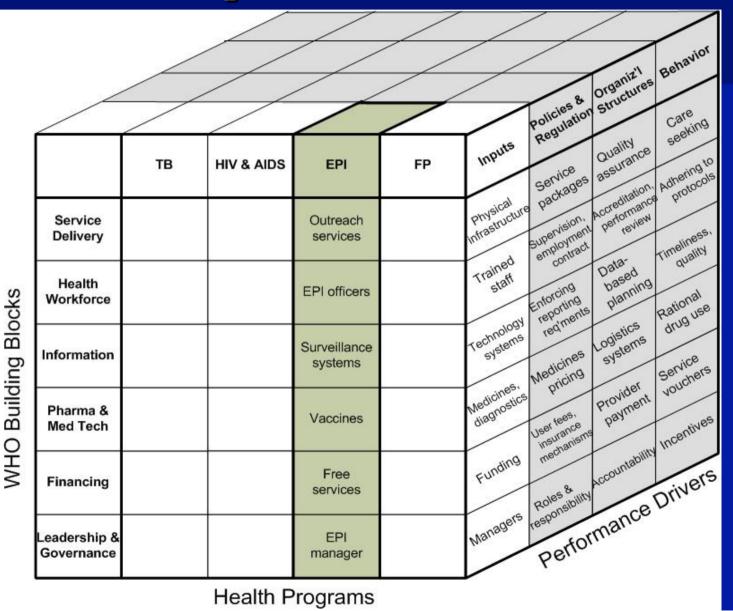


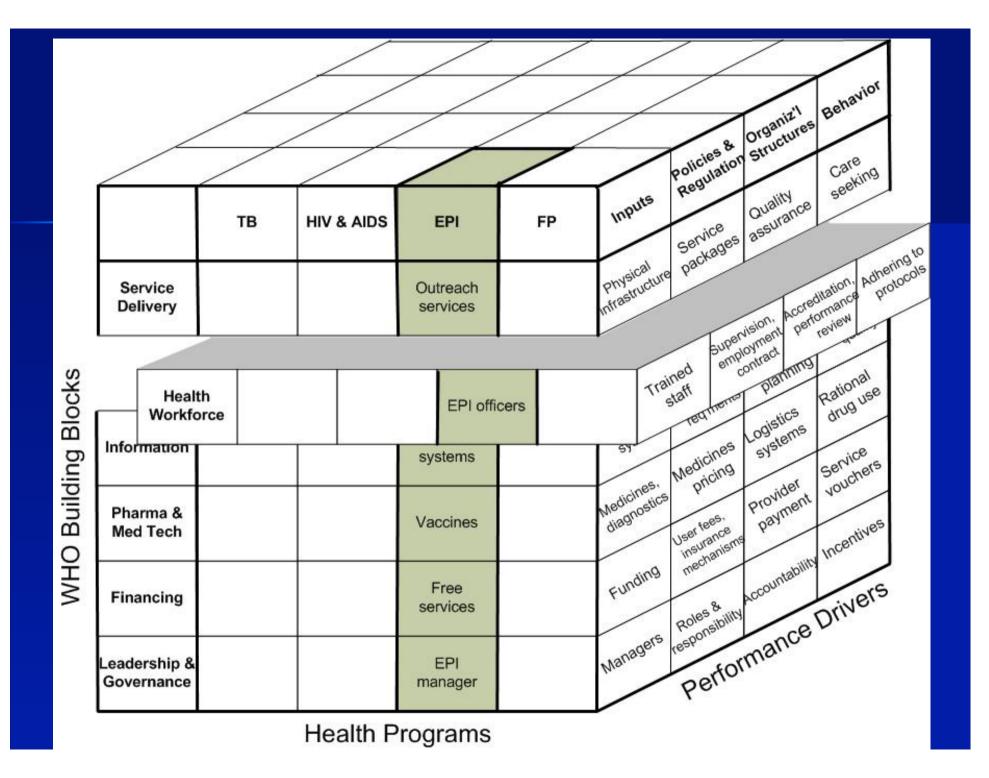
Source: World Health Organization. Everybody's Business: Strengthening health systems to improve health outcomes—WHO's Framework for Action. Geneva: WHO, 2007, page 3.

3 Dimensions of Health Systems

- (1) Health system building blocks
- (2) Program/disease areas
- (3) Performance drivers
 - Inputs
 - Policies & regulations
 - Organizational Structures
 - Behaviors of HS actors

Health System "Cube" View





HSS Interventions

Is it Health System Strengthening?

- Address all 3 dimensions
 - Cross-cutting benefits beyond a single disease
 - Address policy and organizational constraints
 - Strengthen relationships between building blocks
- Long-term process with systemic impact beyond the term of the project
- Not prescriptive Design tailored to countryspecific context, constraints and opportunities
- Indirect link between HSS and health outcomes
 - Few photo ops

Strengthening vs. Supporting Health Systems

Parameter	Health System <u>Support</u>	Health System Strengthening
Scope	May be focused on a single disease or intervention	Activities have impact across health services and outcomes
Longevity	Effects limited to period of activity	Effects will continue after activities end
Approach	Provide inputs to address identified system gaps	Revise policies and institutional relationships to change behaviors and resource use to address identified constraints

What is required?

Transition in Health Care

PARADIGM EXPANSION / SHIFT

ACUTE CARE

Focus: illness

Care: fragmented

→ CHRONIC CARE

Focus: prevention

Care: coordinated

University of Pittsburgh Diabetes Institute

Building Blocks: Health systems service delivery 1

People-centred, integrated = patient-centred care + health of people in communities + community participation

INPUTS

- Quality, Safe Care continuum
 - (promotion, prevention, diagnosis, treatment, disease-management, rehabilitation and palliation
- Integrated Care
 - levels and sites according to their needs throughout the life course, support for self-care.

Building Blocks: Health systems service delivery 2

POLICIES

Service packages, reform strategies,

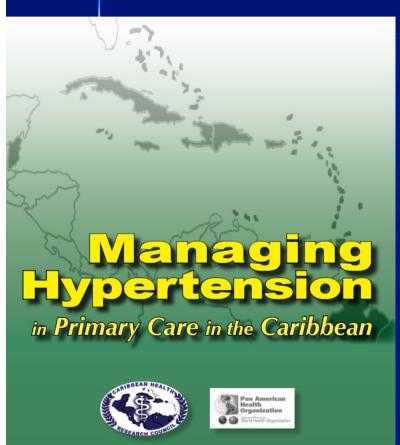
ORGANIZATION

- Decision supports evidence-based guidelines
- Clinical information systems
- Support for self-management

BEHAVIOUR

- Patients Care seeking
- ■Staff Team approach, best practices

HBP Guidelines CARPHA 2007, now being updated





Reference Card From the

Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (INC 7)

EVALUATION

CLASSIFICATION OF BLOOD PRESSURE (BP)*					
CATEGORY	SBP mmHg		DBPmmHg		
Normal	<120	and	<80		
Prehypertension	120-139	or	80-89		
Hypertension, Stage 1	140-159	or	90-99		
Hypertension, Stage 2	≥160	or	≥100		

^{*} See Blood Pressure Measurement Techniques (reverse side) Key: SBP = systolic blood pressure DBP = diastolic blood pressu

DIAGNOSTIC WORKUP OF HYPERTENSION

- Assess risk factors and comorbidities.
- Reveal identifiable causes of hypertension.
- Assess presence of target organ damage.
- · Conduct history and physical examination.
- Obtain laboratory tests: urinalysis, blood glucose, hematocrit and lipid panel, serum potassium, creatinine, and calcium. Optional: urinary albumin/creatinine ratio.
- Obtain electrocardiogram.

Assess for Major Cardiovascular Disease (CVD) **RISK FACTORS**

- Hypertension
- Obesity
- (body mass index ≥30 kg/m²)
- Dyslipidemia
- Diabetes mellitus · Cigarette smoking
- Microalbuminuria, estimated glomerular filtration rate <60 mL/min

Physical inactivity

- Age (>55 for men. >65 for women)
- · Family history of premature CVD (men age <55, women age <65)

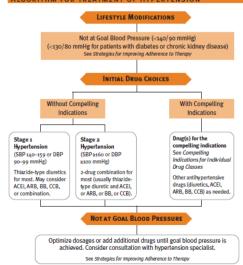
ASSESS FOR IDENTIFIABLE CAUSES OF HYPERTENSION

- Sleep apnea
- Drug induced/related
- Chronic kidney disease
- Primary aldosteronism
- Renovascular disease
- · Cushing's syndrome or steroid
- therapy Pheochromocytoma
- Coarctation of aorta
- · Thyroid/parathyroid disease
- U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES National Institutes of Health National Heart, Lung, and Blood Institute

TREATMENT

PRINCIPLES OF HYPERTENSION TREATMENT

- Treat to BP <140/90 mmHg or BP <130/80 mmHg in patients with diabetes or chronic kidney disease.
- · Majority of patients will require two medications to reach goal.



Building Blocks: Human Resources for Health

INPUTS

- ■Trained staff, initial training, in-service training,
- Health workforce planning: quantity, quality, mix

POLICIES

- Supervision, standards,
- employment contracts: Migration / Retention

ORGANIZATION

Accreditation, performance evaluation

BEHAVIOUR

■Adhering to protocols

Obstacles: Poorly motivated staff, not enough skilled staff, poor quality of care, stock-outs

Disease/Service Specific Response

- •Health workers on fixed salaries paid by donors to deliver focal services
- Hotel training
- Parallel commodity logistics system

Health System Strengthening

- Pay health workers for performance
- Integrate training into medical and nursing pre and in-service education
- •E-procurement systems

Non traditional HRH

- NCD, HIV Other Inter-sectoral Commissions
- Non-Health HRH
 - All of Government: Town Planners, Financial Secretary, Chief Education Officer, PS in Trade, Agriculture
- All of society: CSOs, private sector
- Public
 - Media messaging
 - ■Formal education e.g. HFLE

Building Blocks: Surveillance Health Information Systems 1

- Information vital for reviews, planning / priorities, resource allocation, monitoring and evaluation
- INPUTS
 - ■Information systems
 - Hospital data
 - Health center / lab / pharmacy data
 - Private sector, health NGOs
 - Risk Factor Surveys
 - Disease Registries

Building Blocks: Surveillance Health Information Systems 2

POLICIES

Design and enforce reporting requirements
 CD, NCD, Injuries

ORGANIZATION

- Analytic capacity
- Electronic data: systems, staff, security
- Data based planning

BEHAVIOUR

Timeliness, quality

Health Data, not Health Information



Building Blocks: Drugs and Tests

INPUTS

■Essential medicines Medical devices, testing supplies - safe, effective, high quality

POLICY

- Pricing
- ■Proliferation of imaging services

BEHAVIOR

Promoting rational prescription and use

ORGANIZATION

- ■Logistics, supply chain, Diagnostic capacity
- Maintenance capacity, esp small countries

Building Blocks: Financing

POLICY /INPUTS:

- ■Tobacco and alcohol taxes
- ■ODA only if health is part of National Development Agenda

ORGANIZATION: Scope of funding

- Dedicated multi-agency budget / funding
- Need to balance human resources, physical capital and consumables

BEHAVIORS:

Efficiencies, audits

Obstacles: Patients face formal and informal fees, transportation, other costs

Health System Support

Free care or vouchers for focal services and diseases

Well equipped facilities for HIV only

Health System Strengthening

Using evidence to increase health funding

Insurance to improve financial access for poor and increase service use

Building Blocks: Governance 1

 political process that involves balancing competing influences and demands

INPUTS

- Managers: trained
- LEADERSHIP

POLICY

- Roles and responsibilities
- strategic direction, plans, evaluation
- Advocacy for health in national development

Building Blocks: Governance 2

ORGANIZATION

- Collaboration with private sector and civil society
- accountability mechanisms

BEHAVIOUR

- Advocacy for health in national development
- Regulating stakeholders

Obstacle: Weak governance

Disease/Service Specific Response

- Short term training workshops and tools to plan and manage focal programs
- Parallel governance structures and information systems for focal services

Health System Strengthening

- Community oversight of health facilities
- •Rational allocation of health funds based on need, not politics
- Policymaker accountability to constituents

How to make the change?

Challenges for HSS

- Mortality NCDs, Injury/Violence, HIV
- Morbidity Depression, diabetes, hypertensn
- Risk Factors
 - Multi-factoral, Multi-sectoral response
- Infectious threats
 - Dengue, Enterovirus D68, Ebola
- Maintenance of gains
 - e.g. Immunization
- Promoting wellness / Supportive environments

Organization of Health Care (What it should be)

- **Evidence-based, planned care**
 - Clinical Guidelines
- Reorganization of practice (team approach)
 - Includes ancillary professionals with the patient as the most important member
- Attention to patient needs (information)
 - Counseling, education, information feedback
- Access to clinical expertise
 - Patient and provider education, access to specialists
- Supportive information systems
 - Patient registries
 - Provider feedback on preventive service
 utilization
 University of Pittsburgh Diabetes Institute

Organization of Health Care (What it is)

- Care is not necessarily based on evidence, but experience and training
- Seldom is there a team approach...care is mainly driven by the physician alone
- Paternalistic and directive approach with little attention to patients' behavioral needs
- Limited access to specialists
 - Reluctance of primary care referral
 - Fragmented access
- Poor information systems
 - No computers
 - Poor tracking

Chronic Care Model and Integrated Care for Chronic Conditions

How would I recognize a productive interaction?

Informed, Activated Productive Interactions Practice Team

- Assessment of self-management skills and confidence as well as clinical status.
- Tailoring of clinical management by stepped protocol.
- Collaborative goal-setting and problem-solving resulting in a shared care plan.
- Active, sustained follow-up.

Chronic Care Model

Community

Resources and Policies

Self-Management Support

Health System

Organization of Healthcare

Delivery System Design

Decision Support Clinical Information Systems

Informed, Empowered Patient and Family

Productive Interactions

Patient-Centered Timely and Efficient Coordinated Evidence-based and safe Prepared, Proacti∨e Practice Team

Improved Outcomes

