Cancer Early Detection: Understanding the Impact

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Outline

- Comprehensive cancer control & definitions
- Assessing screening & its impact
- Current status of CRC screening in PAHO
- When to prioritize early diagnosis
- Factors for effective implementation









Comprehensive Cancer Control



Early detection:

Aims to identify cancer in early stages or precancerous lesions;

Process includes diagnosis & link to treatment













Objectives of Early Detection



Goal = early identification \rightarrow Improve survival













Objectives of Early Detection



Goal = early identification

- → Reduced costs of care
- \rightarrow Less morbid treatment















Objectives of Early Detection

Prevention

Early detection

Treatment

Palliative care

Goal (screening) = early identification (pre-invasive)

→ 2° prevent cancer (eg, cervical, colorectal)



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Comprehensive Cancer Control













Screening vs. Early Diagnosis

• Screening:

- Presumptive identification of unrecognized disease in general population
- More than a test



• Early diagnosis:

- Focuses on persons with disease
- More than symptoms awareness; link to health system

Awareness of symptoms











Screening vs. Early Diagnosis















Organized Screening

WHO screening targets:

- 1. Organized:
 - a. Greatest impact
 - b. Fewest harms
 - c. Equitable
- 2. >70% participation

Criteria for Organized Screening

National program to make service available

Coordination, centralized at national/regional level

Protocol for screening frequency, target population

Mechanism of inviting target population systematically

Functioning health information system including registries

Monitoring & Evaluation program









Building Blocks of Cancer Screening







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Understanding the Impact



- Sample screening programme
- Evaluate impact & cost-effectiveness













Cancer Screening



Cost: \$ 200mil - \$ 1 bil













Incidence



Test Quality





Participation Rates





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منظمة الصحة العالمية









Link to Diagnosis & Treatment



Putting it all together...





Where Are We Now?

- WHO 2015 NCD CCS
- PAHO
 - 9 / 26 countries perform
 CRC screening
 - 4 organized / 5 unorganized
 - 5 FOBT/FIT & 2 endoscopy

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2 / 7 have participation
 rates >50%

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Understanding the Building Blocks

- Preparedness for CRC control in PAHO
 - Referral mechanism: 17 / 30
 - Early diagnosis strategy: 12 / 32
 - Cancer diagnosis & treatment
 - Pathology: 28 / 33
 - Cancer treatment center: 23 / 33
 - Access to surgical oncology: 25 / 33
 - Access to subsidized chemotherapy: 22 / 32



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Screening cannot succeed without basic cancer services & strong health system.













Building the Health System



• Phased approach

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- Utilize building blocks of health systems
- Prioritize demonstration projects before population level screening

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Early Diagnosis

• Building health system for cancer control













CANCER EARLY DIAGNOSIS



Building the Health System

Requirement	Early diagnosis
Human resources	Endoscopists - 2 Pathologist - 0.1
Basic devices & medicines	Endoscopy units - 1
Service delivery	Awareness about CRC symptoms Strong referral mechn
Adequate funding	Central funding
Monitor programme function	M&E framework











Building the Health System



Demonstration projects (Phase II) Expand screening services (Phase III)













Assessing Readiness & Priorities

• Perform SAT of early diagnosis & screening



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THANK YOU

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