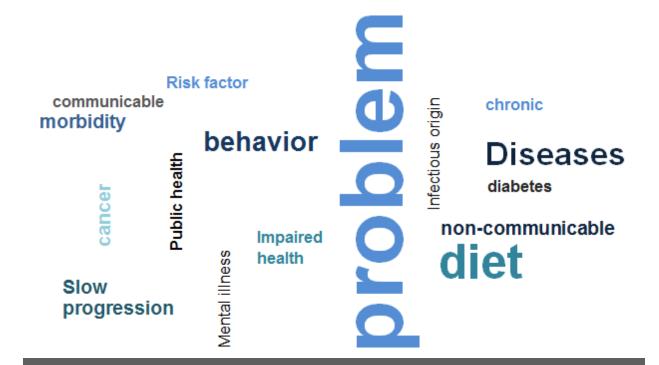
PARTICIPANT GUIDE



Introduction to NCD Epidemiology

Created: 2013



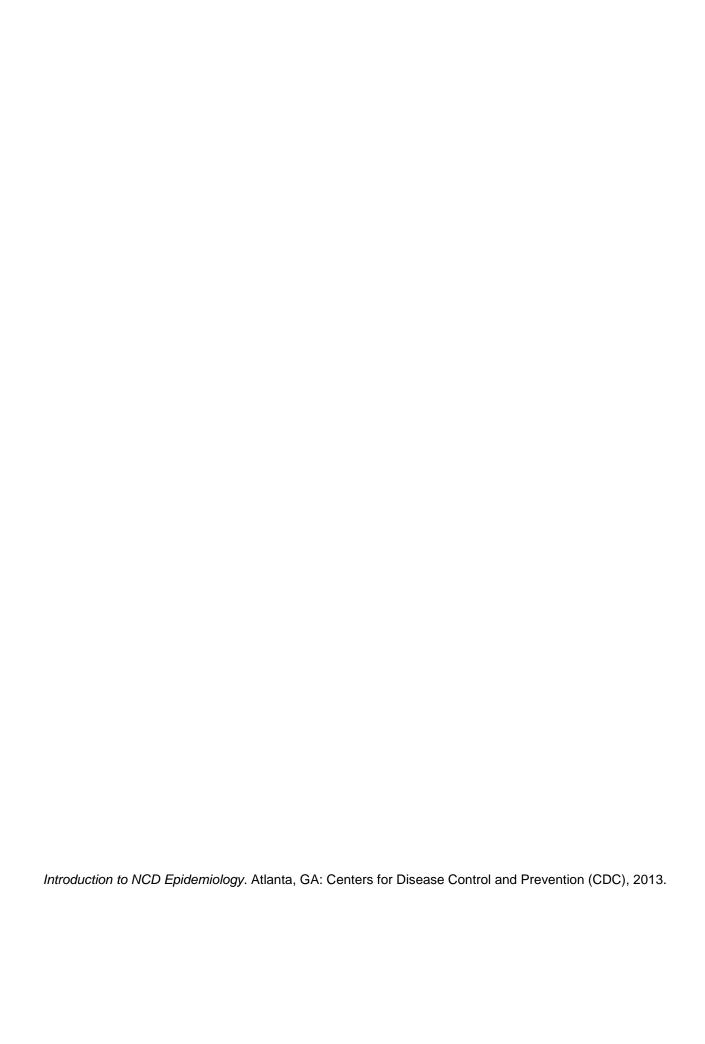


Table of Contents

NCD PREVENTION AND CONTROL	3
LEARNING OBJECTIVES	
ESTIMATED COMPLETION TIME	
Prerequisites	3
REFERENCES AND RESOURCES	
MODULE CONTENT	4
SKILL ASSESSMENT	14

NCD Prevention and Control

LEARNING OBJECTIVES

At the end of the training, participants will be able to:

- Describe action items for accomplishing at least three of the WHO objectives from the 2008-2013 Global Strategy Action Plan in your own country.
- Describe potential barriers to implementing the recommendations and how to overcome them.

ESTIMATED COMPLETION TIME

 120 minutes (90 minutes interactive presentation; 30 minutes Skill Assessment)

PREREQUISITES

• Introduction to NCD Epidemiology, NCD Surveillance in Public Health

REFERENCES AND RESOURCES

- McKenna M, Collins J. Current Issues and Challenges in Chronic Disease Control. In: Chronic Disease Epidemiology and Control, Remington PL, Brownson RC, Wegner MV, eds. Washington: American Public Health Association; 2010:1-26.
- Morrish NJ, Wang SL, Stevens LK, Fuller JH, Keen H (2001). Mortality and causes of death in the WHO multinational study of vascular disease in diabetes. Diabetologia 44 (Suppl 2):S14–21.
- CDC. The Power of Prevention: Chronic Disease The Public Health Problem of the 21st Century. Atlanta, GA: Centers for Disease Control and Prevention; 2009.
- WHO. 2008-2013 Action Plan for the Global Strategy for the Prevention and Control of Noncommunicable Diseases. World Health Organization, WHO Press, Geneva, Switzerland, 2008.
- WHO. The World Health Report 2002 Reducing Risks, Promoting Healthy Life. World Health Organization, WHO Press, Geneva, Switzerland 2002.



Learning Objective

At the end of the training, participants will be able to:

- Describe action items for accomplishing at least three of the WHO objectives from the 2008-2013 Global Strategy Action Plan in your own country.
- Describe potential barriers to implementing the recommendations and how to overcome them.

NCD Prevention and Control



Lesson Overview

- Global and national goals of NCD prevention and control
- · NCD prevention and control strategies
- Integration of chronic disease prevention programs
- · Current challenges in chronic disease control

NCD Prevention and Control

Definition of Prevention

Prevention: Activities to stop people from getting diseases or to stop a disease from getting worse:

For example,

- Health promotion activities encourage healthy living and delay onset of disease.
- Early detection programs (e.g., screening populations at risk for certain diseases).
- Strategies to manage diseases and related complications so that their progress is slowed or stopped.

- Power of Prevention (CDC)

Definition of Control

Control: Activities to slow the course of an existing disease or reduce its severity.

- Activities to control a disease occur after the disease has been contracted.
- Control activities reduce the pathological effects resulting from a disease.

NCD Prevention and Control

Goals for NCD Prevention and Control

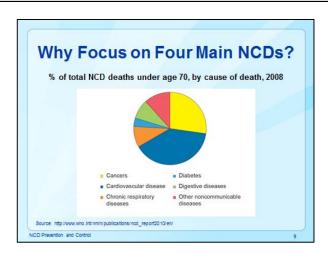
- Reduce incidence of disease.
- Delay onset of disease and disability.
- Alleviate severity of disease.
- Improve health-related quality and duration of individual's life (Doll 1985).

NCD Prevention and Control



Key Point: Programs must be implemented with the knowledge that persistence and long-term commitment are vital.







Action Items: WHO Objective #1

- 1. **Priority:** Raise priority and integrate prevention and control into policies
- Assess and monitor burden of NCDs and their determinants.
- Incorporate NCD prevention and control into relevant social and economic policies.
- Implement programs that focus on social determinants of NCDs.

Example of Implementing Objective #1 - Priority

- WHO endorsed the Global Strategy on Diet, Physical Activity and Health at the 57th World Health Assembly.
- Goal is "to improve public health through healthy eating and physical activity".
- Reflects international recognition of the worldwide changes in physical activity levels as a consequence of countries' demographic and socioeconomic development, and globalization

NCD Prevention and Control

12

Action Items: WHO Objective #2

2. Leadership: Establish and strengthen national policies and plans

Establish a high-quality surveillance and monitoring system to provide population-based mortality statistics and standardized data on:

- NCDs
- Key risk factors
- · Behavioral patterns

NCD Prevention and Control

13

Example of Implementing Objective #2 - Leadership

Thailand – Adopted national policies declaring exercise for health as priority action area (National Health Development Plan, 2002-2006)

- Working in collaboration with WHO, International Health Regulations (IHR), and Bureau of Epidemiology to rapidly identify, assess and lessen public health threats and emergencies
- High priority focus on disease surveillance, laboratory capacity and point of entry

NCD Prevention and Control

14

Action Items: WHO Objective #3

Interventions: Focus on shared modifiable risk factors

- Implement strategies for reducing risk factors for NCDs that aim at providing and encouraging healthy choices.
- Consider strategies that involve public and private sectors in multiple areas (agriculture, finance, urban planning, education, sports).
- Consider different settings for action; for example, schools, workplaces, local communities.

NCD Prevention, and Control

45

Example of Implementing Objective #3 - Interventions

- China "Healthy Exercise For All" campaign (2000)
- Major promotional events with seasonal themes for the general public (e.g., Water Sport Carnival)
- Fitness programs targeting children, senior citizens, disabled people
- Stair climbing scheme promoting daily physical activity through stair use
- "Dance for Health" programs in districts (e.g. social and aerobic dance classes)
- Active Living Charter targeting people in workplaces and schools; participants get a brochure on how to organize activities in their settings
- Rope skipping activities (e.g., Rope Skipping Promotion Day)

NCD Prevention and Control

16

Action Items: WHO Objective #4

- **4. Research:** Promote research for NCD prevention and control
- Research is done at a high level within the Ministry of Health.
- MOH researchers and administrators are likely to work with researchers and administrators at other national and international health agencies, academic institutions and private institutions.

NCD Prevention and Control

17

Action Items: WHO Objective #5

- **5. Partnerships:** Promote partnerships for NCD prevention and control
- Participate actively in regional and sub regional networks for NCD prevention and control.
- Establish effective partnerships for NCD prevention and control.
- Develop collaborative networks involving key stakeholders.

NCD Prevention, and Control

42

Example of Implementing Objective #5 - Partnerships

Brazil – "Agita São Paulo" grassroots campaign started to encourage people to exercise 30 minutes a day Success at local levels grew to national and international levels,

Success at local levels grew to national and international levels in part because of increased partnerships and key stakeholder participation:

- Centre for Laboratory Studies on Physical Activity of São Caetano do Sul (CELAFISCS)
- · State Department of Health
- Scientific Committee (Physicians, Physical Education Teachers, Social Workers)
- Intersectoral Executive Committee (>300 governmental organizations, NGO's, and private health, education and sports industries)

NCD Prevention and Control

19

Action Items: WHO Objective #6

- **6. Monitor and Evaluate:** Monitor NCDs and determinants and evaluate progress
- Strengthen (or establish) surveillance systems and standardized data collection on risk factors, disease incidence and mortality by cause.
- Contribute, on a routine basis, data and information on trends in NCDs and risk factors.

NCD Prevention and Control

20

Example of Implementing Objective #6 - Monitor and Evaluate

Colombia – "Muévete Bogotá" exercise campaign: targeted companies and neighborhood groups to encourage physical activity in the workplace and community

Process and outcome evaluations conducted by an evaluation committee

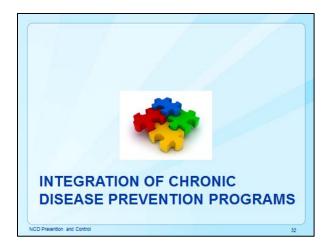
Standardized data collection from

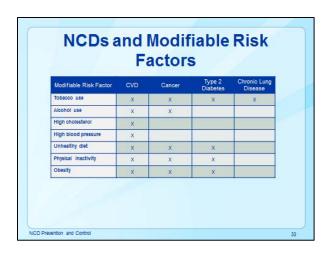
- databases of physical activity participants maintained by each partner company;
- · Physical Activity Questionnaire baseline results;
- multiple surveys conducted with partner companies annually

NCD Prevention, and Control



Key Point: When you identify strategies, they should be proven intervention strategies that have an evidence base and are appropriate for the targeted population.





Integrated Approach

- Integrates primary, secondary, tertiary prevention, health promotion, and related programs across sectors and different disciplines.
- Responds to the need of intervention on major common risk factors with the aim of reducing premature mortality and morbidity of chronic non-communicable diseases.

World Health Report, WHO 2012

NCD Prevention and Control

Key Point: The implications of the enormous challenge of NCD prevention and control AND the overlap among the populations affected suggest the need for a more integrated approach to public health practice.

How Can You Improve Program Integration?

Determine which populations are at greatest risk.

Focus on social determinants of health and major risk factors: tobacco use, alcohol use, physical inactivity, and unhealthy diets.

- · Social economic status, income level, education level
- · Food security, housing security, job security

Coordinate interventions within key settings.



Activity: Challenges to NCD Prevention and Control

- As a group, discuss recent challenges you have had in preventing and controlling NCDs
- 2. Discuss how you overcame each challenge
- 3. Choose one person's challenge and how it was solved and present to the rest of the class

NCD Prevention and Control

Challenges to NCD Prevention and Control

- · Lack of information about chronic diseases
- · Lack of communication about health risks
- · Workforce and training problems
- People's resistance to changing long-held habits
- Complexity of interventions to prevent or control NCDs
- Long time lag between implementation of interventions and measurable health outcomes
- Complex interaction among determinants

Half-Truths and Misunderstandings **Reality: Inexpensive and cost-effective interventions** Half-Truths and Misunderstandings **Reality: Inexpensive and cost-effective interventions**

NCD Prevention and Control

Skill Assessment

- 1. You will work individually to complete the assessment
- Select a <u>minimum of three</u> WHO objectives from the 2008-2013 Global Strategy
- Describe a minimum of one action item you would recommend your country implements to accomplish each objective selected
- Describe potential barriers to implementing the recommendations and how you would overcome them
- 5. Be prepared to share your responses with the class

Instructions: Select a <u>minimum of three</u> of the WHO objectives from the 2008-2013 Global Strategy Action Plan listed on the side panel and complete the following:

1. Describe a minimum of one action item you would recommend your country implements to accomplish <u>each</u> objective selected.

Describe potential barriers to implementing the recommendations and how you would overcome them.

WHO 2008-2013 Global Strategy Action Plan Objectives

- Priority: raise priority and integrate prevention and control into policies
- 2. **Leadership:**establish and
 strengthen national
 policies and plans
- 3. **Interventions**: focus on shared modifiable risk factors
- 4. Research: promote research for NCD prevention and control
- 5. **Partnerships:**promote partnerships
 for NCD prevention
 and control
- 6. Monitor and Evaluate: monitor NCDs and determinants and evaluate progress