







Objectives

- The epidemiology of non-communicable diseases
- Risk factors for non-communicable diseases
- Overall framework and common preventive strategies against non communicable diseases

# Color Index

#### Main text

- Males slides
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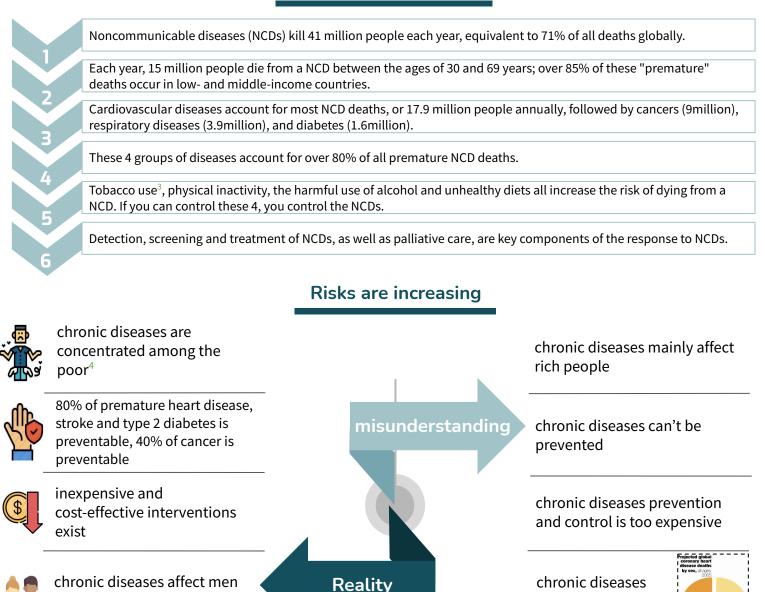
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### Definition of NCDs

• Non-communicable diseases are all impairments or deviations from the normal, which have one or more of the following characteristics;



### Epidemiology of NCDs



affect primarily men

chronic diseases

mainly affect

Old people

almost half in people under age 70 years<sup>5</sup>

and women almost equally

The economic impact: billions

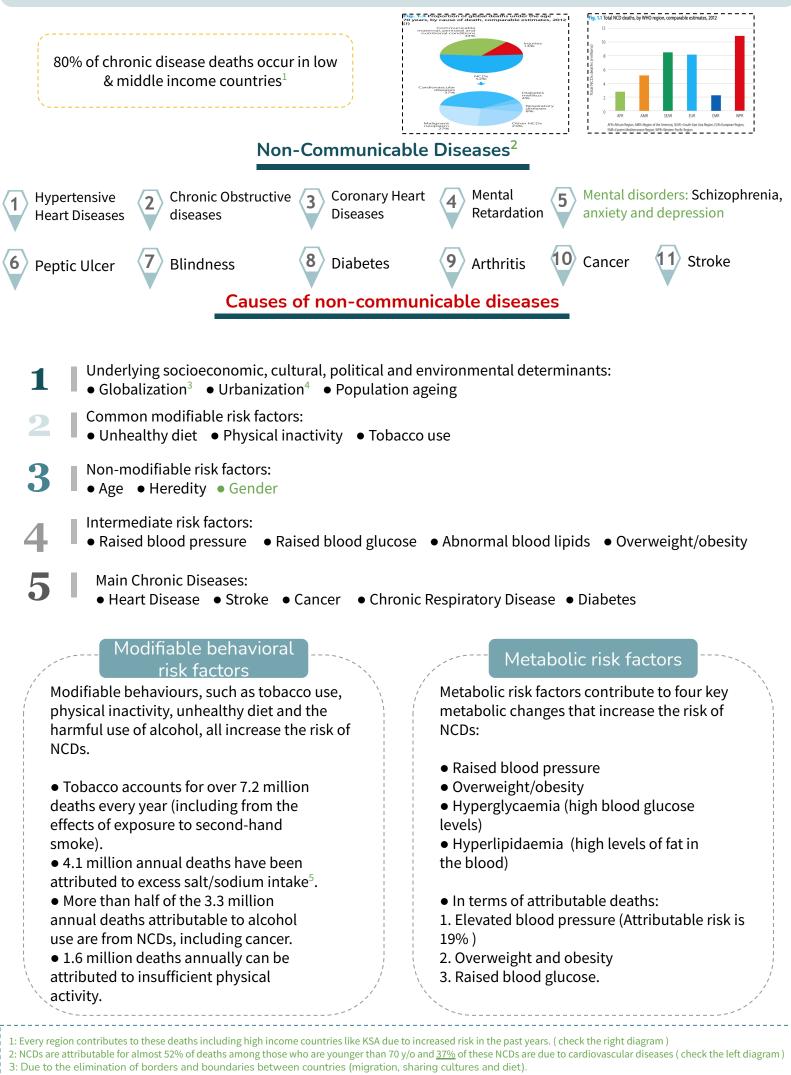
1: For ex: cancer

2: Most patients enter the 3rd phase of rehabilitation.

3: It plays a major risk factor for all NCDs.

4: Due to the lack of health facilities and education which leads to late diagnosis.

5: For ex: DM type 1 affects children and young people.



4: Living in cities, where there are less outdoor and physical activities.

5: Leads to HTN which in return leads to coronary disease and stroke.

# Modifiable risk factors

- Cigarette smoking 🛁
- High Blood pressure
- Elevated serum Cholesterol
- Diabetes 📲
- Lifestyle changes (dietary patterns, physical activity)
- Stress factors
- Alcohol abuse 🏥

# Non Modifiable risk factors

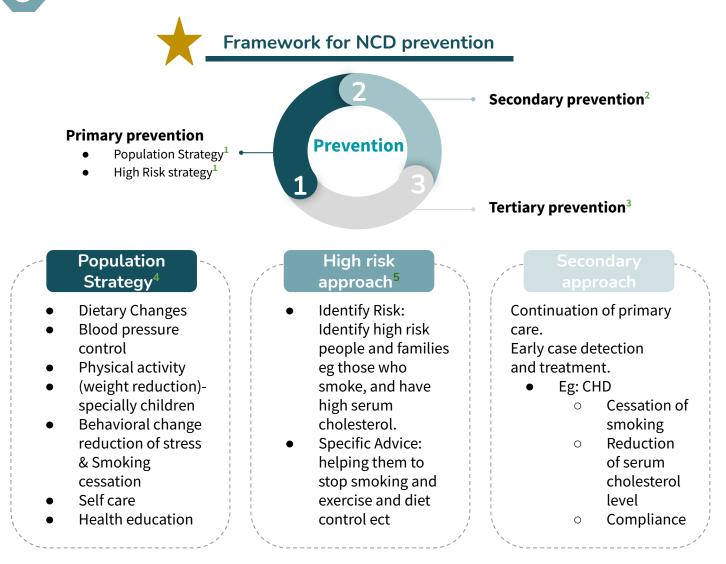
- Age කී
- Sex  $\Phi^{c}$
- Family Hx
- Genetic factors
- Personality
- 🛛 🛛 Race 🅼

### The objectives of Integrated Chronic Disease Prevention and Control Programme are:

To strengthen prevention and control of chronic non- communicable diseases by tackling the major risk factors, focusing on WHO's four priority non-communicable diseases - cardiovascular diseases, cancer, diabetes, and chronic respiratory diseases, and underlying determinants of health.

To reduce premature mortality and morbidity.

To improve quality of life, with particular focus on developing countries.



1: The difference between them is to distinguish which disease needs a broader strategy.

- 2: For ex: drug compliance.
- 3: Rehabilitation.

5: Towards specific groups (high risk groups) like alcoholics, tobacco smokers (if you want to make your efforts very concentrated).

<sup>4:</sup> Towards prevalent diseases in the community such as DM, stroke, breast / colon cancer and tobacco smokers (due to its wide spread).

#### What works?

Comprehensive and integrated action is the means to prevent and control chronic diseases.





	oluntary global targets for prevention and control f noncommunicable diseases to be attained by 2025
	(1) A 25% relative reduction in the overall mortality from cardiovascular diseases, cancer, dia- betes, or chronic respiratory diseases
_	(2) At least 10% relative reduction in the harmful use of alcohol, as appropriate, within the natio- nal context
	(3) A 10% relative reduction in prevalence of insufficient physical activity
	(4) A 30% relative reduction in mean population intake of salt/sodium
ý	(5) A 30% relative reduction in prevalence of current tobacco use
D	(6) A 25% relative reduction in the prevalence of raised blood pressure or contain the prevalence of raised blood pressure, according to national circumstances
	(7) Halt the rise in diabetes and obesity
2	(8) At least 50% of eligible people receive drug therapy and counselling (including glycaemic control) to prevent heart attacks and strokes
	(9) An 80% availability of the affordable basic technologies and essential medicines, including generics, required to treat major noncommunicable diseases in both public and private facilities

Noncommunicable diseases 2014
verty alleviation and sustainable development
ajority are off course to meet the global NCD
action by prioritizing high-impact, affordable
e accountable for attaining them
sectoral collaboration need to be established
g NCD outcomes
ncial resources for NCD prevention and control

#### Box I.2 Objectives of the Global NCD Action Plan (1)

- To raise the priority accorded to the prevention and control of NCDs in global, regional and national agendas and internationally agreed development goals, through strengthened international cooperation and advocacy.
- To strengthen national capacity, leadership, governance, multisectoral action and partnerships to accelerate country response for the prevention and control of NCDs.
- To reduce modifiable risk factors for NCDs and underlying social determinants through creation of health-promoting environments.
- To strengthen and orient health systems to address the prevention and control of NCDs and the underlying social determinants through people-centred primary health care and universal health coverage.
- To promote and support national capacity for high-quality research and development for the prevention and control of NCDs.
- 6. To monitor the trends and determinants of NCDs and evaluate progress in their prevention and control.





NATIONAL	L SYSTEMS RESPONSE				
			Proportion of population at high risk for CVD or with		
	Drug therapy to prevent heard attacks and strokes		existing CVD (%)	-	
Durin			Proportion of high risk persons receiving any drug therapy		
			and counselling to prevent heart attacks and strokes (%)		
		X	Proportion of primary health care centres reported as		2017 More than 50%
stro				2017	
			offering CVD risk stratification		
			Reported having CVD guidelines that are utilized in at least 50% of health facilities	2017	Yes
	ential NCD medicines I basic technologies	X	Number of essential NCD medicines reported as "generally available"	2017	10 out of 10
	o treat major NCDs		Number of essential NCD technologies reported as "generally available"	2017	6 out of 6
ortality	vailable ty estimates for this country hav any national NCD mortality data		certainty because they are	ncommunicable D	iseases (NCD) Country Profiles, 2018.

1: Step 1->Data, data will give us how many male and female diabetics we have, how many people died of stroke and how many people need secondary or tertiary prevention due to stroke. Step 2->Policy, for ex. adaptation of tobacco free areas and taxation of tobacco products. Step 3->Implementation:

#### A.<u>National level</u>: not selling tobacco products to anyone under 18.

B.<u>Sub-national level</u>: labeling zones and neighborhoods that are smoke free.

C.Individuals level: fines/penalties for anyone who smokes in a smoke free area.

# Quiz

Q4

А



1-All of the followings are features of non-communicable diseases EXCEPT:

- A-Permanent
- B- Causes disability
- C- Reversible causes
- D-Non-reversible causes

#### 2-Most of the chronic diseases are preventable: A-True B-False

3-Lack of physical activity and unhealthy diet both on long term can lead to all of the following except:
A- Hypotension
B-Hyperglycemia
C- Elevated HDL
D- A and C

#### 4-WHO four priority NCDs are:

A- Diabetes, Cardiovascular, cancer and chronic respiratory diseases
B-Hypertension, Diabetes, cancer and chronic respiratory diseases
C-Hyperlipidemia, diabetes, cardiovascular and hypertension
D-Any chronic disease causes disability and needs prolonged treatment is a priority

nswers	Q1	Q2	Q3	
	С	A	D	

# Thank You and Good Luck



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