

To view a set of 16 slide materials on NCDs, use the scroll option.

This material is developed by

Madras Diabetes Research Foundation (MDRF), Chennai

and the

World Health Organization (WHO) New Delhi

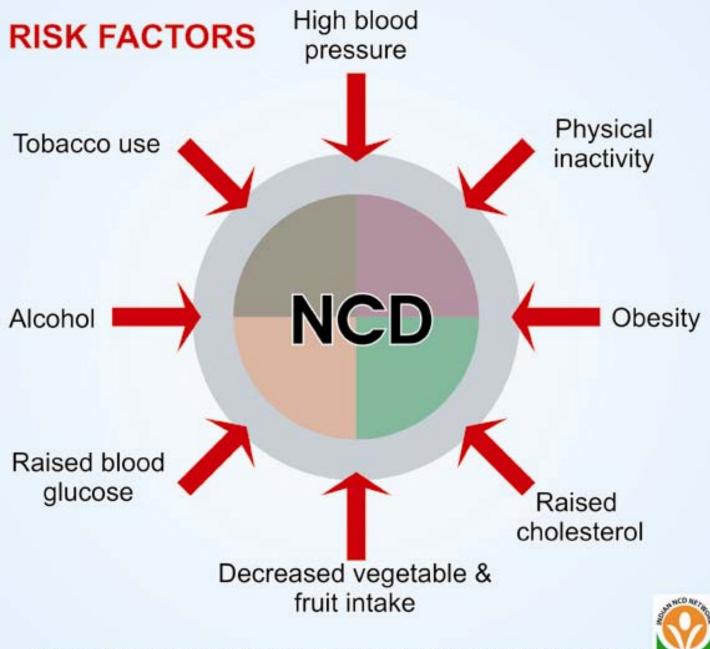
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NON COMMUNICABLE DISEASES (NCDs)

NON COMMUNICABLE DISEASES INCLUDE

- Cardiovascular disease (CVD)
- → Diabetes Mellitus (DM)
- → Chronic obstructive pulmonary disease (COPD)
- Cancer
 Can



BLOOD PRESSURE & NCDs

'High blood pressure – silent killer'

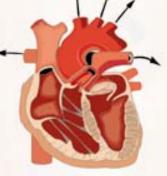
Know your blood pressure as high blood pressure increases the risk of

- Heart attacks
- Strokes
- Kidney problems



NORMAL BP*:

Heart contracts



Heart Relaxes SYSTOLIC BP 130 or less

DIASTOLIC BP 80 or less



* Note: BP Varies with age

HIGH BLOOD PRESSURE

Causes of high blood pressure



Overweight or obese



Hypertension

Excess Alcohol



Increased consumption of salt



Kidney disease

What to do if one has high blood pressure?

Maintain a healthy body weight

Eat a healthy diet -low in salt and fat and high

Do not smoke or drink too much alcohol

Have your blood pressure checked regularly

Increase physical activity

in vegetables and fruits









WHAT IS IDEAL BODY WEIGHT?



Maintaining an ideal body weight can significantly reduce your risk of

- Heart disease
- Diabetes
- Stroke
- Depression
- Certain cancers
- High blood pressure
- High blood cholesterol



The more weight one gains, the greater the risk for NCDs





Body Mass Index(BMI) =

Body weight (in kilograms)

Height (in metres)²

BMI	<	18 Kg/m ²	: Under weight
"		18-23 Kg/m ²	: Ideal body weight
"		23.1- 25 Kg/m ²	: Over weight
"		> 25 Kg/m ²	: Obese



Remember "Fatness" is not "Fitness"

If BMI increases, it increases the risk of

Diabetes

MALLANDIN

- High blood pressure
- Heart attacks and
- Stroke





WAIST CIRCUMFERENCE MATTERS !

Waist circumference- an indirect measure of abdominal fat in the body

MEASURE YOUR WAIST, MEASURE YOUR RISK FOR:



Diabetes, Hypertension Heart disease Stroke Abnormal cholesterol levels

Waist circumference			
	Normal		
Males	<90 cm [36 inches]		
Females	<80 cm [32 inches]		



IMPORTANCE OF VEGETABLES & FRUITS

They contain :





Essential nutrients,

Vitamins,

Dietary fibre

and

Other bioactive

compounds

Daily intake of vegetables and fruits decreases risk of

- Heart disease
- Cancer
- Type 2 diabetes
- Obesity
- Nutrient deficiency disorders



DIETARY FAT & NCDs

' REDUCE FAT - PREVENT/CONTROL NCDs '

WHICH FAT TO USE



USE Monounsaturated fatty acids Groundnut oil Mustard oil Olive oil USE Polyunsaturated fatty acids Sunflower oil Safflower oil Corn oil

RESTRICT Saturated fatty acids Ghee, butter Palm oil Vanaspathi Coconut oil





Use very little cooking oil

Instead of frying foods, bake, boil, grill, steam, roast, or microwave them





Trim the fat and take skin off meat before cooking

Eat chicken instead of beef, pork or mutton





EXERCISE & NCDs

Increase physical activity to decrease Non Communicable Diseases

Physical activity lowers the risk of NCD's by:

- Lowering blood sugar, blood pressure and blood fats
- Increasing oxygen levels in the body
 - Helping to lose weight
- Reducing stress
- Strengthening the heart, muscles and bones
 - Improving blood circulation
- 🔨 Toning up muscles



HOW EXERCISE HELPS PREVENT CHRONIC DISEASES

HEART DISEASE :

Exercise

- Increases the capacity of the heart's blood vessels
- Increases blood flow to the heart
- · Enhances blood enzymes that break down clots

DIABETES :

Exercise

- Increases utilisation of blood sugar
- Reduces serum cholesterol
- Reduces blood pressure

OBESITY:

Exercise

Increases energy utilisation and thus reduces body weight

COLON CANCER :

Exercise

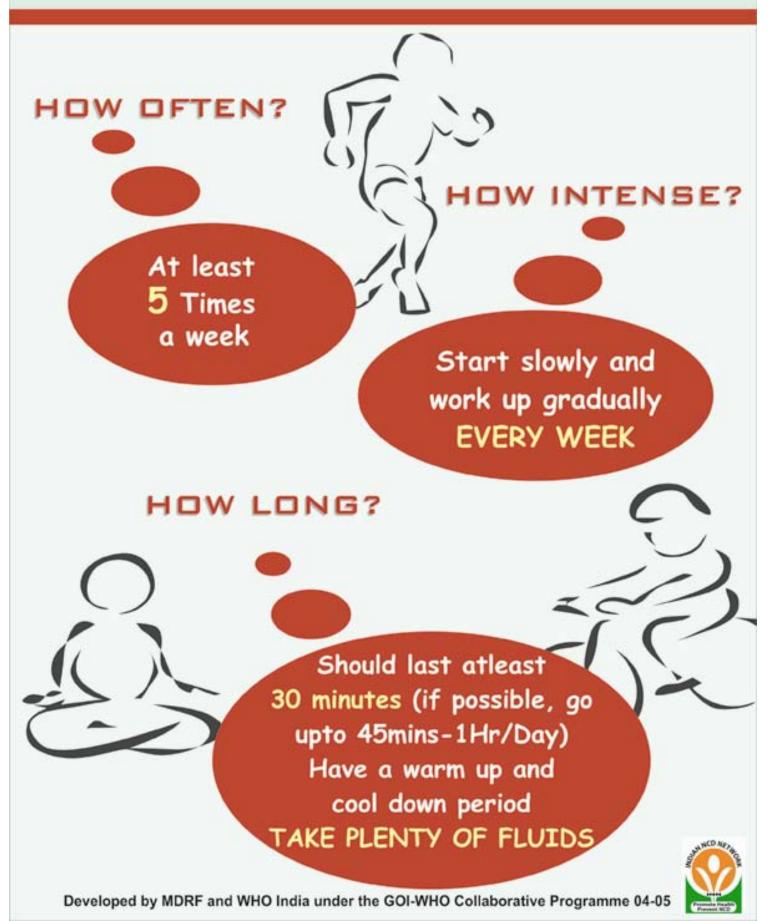
- Increases intestinal activity
- Reduces contact time of carcinogens with digestive tract

REMEMBER - YOU CAN CUT DOWN HOSPITAL AND MEDICAL BILLS BY REGULAR EXERCISE









TIPS FOR DISTRIBUTING YOUR EXERCISE THROUGH OUT THE DAY

Climb stairs - Don't take escalator



Park your vehicle further away and walk

Play with your children



Involve in House hold work [Washing, Cleaning and Gardening]

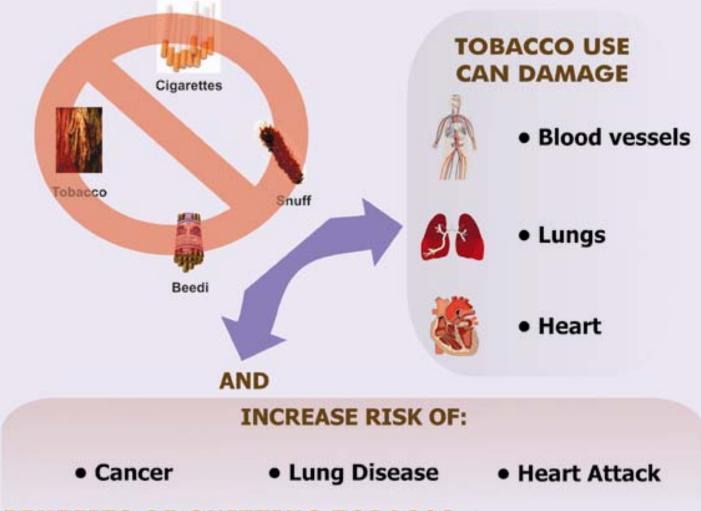








TOBACCO USE -INCREASES RISK FOR NCDs



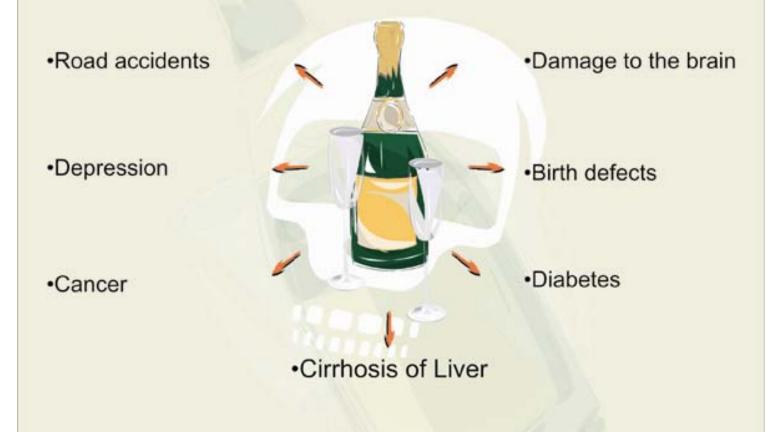
BENEFITS OF QUITTING TOBACCO:

- Decreases risk of heart attacks and strokes
- Decreases risk of cancer
- Improves blood circulation
- Decreases blood pressure
- Improves sense of taste and smell
- More oxygen in the bloodstream
- You will feel less tired and more refreshed
- Remember, not only you, but your whole family, will also benefit



ALCOHOL CONSUMPTION & NCDs

Excess alcohol consumption increases risk of:



What can you do?

Avoid consumption of alcohol

"Reduce alcohol, improve quality of life"



CHANGE LIFE STYLE -PREVENT NCDs



IMPORTANCE OF NCD RISK FACTOR SURVEILLANCE

Helps to:

- Obtain representative data on risk factors for NCDs
- Reduce the level of exposure of individuals/populations to common risk factors for NCDs
- Monitor current and ongoing trends in NCDs burden
- Reduce morbidity and premature mortality due to NCDs
- Plan and implement effective health policies

