

Christ's School Ado-Ekiti Homecoming 2021

HOT FLASHES, BRITTLE BONES, POT BELLIES & BALD HEAD: THE HEALTH CHALLENGES OF MIDDLE AGE

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1976-81 set

www.oluwadiya.com



A presentation at the 40th Homecoming Event of the 1975-80 & 1976-81 sets of Christ's School Ado-Ekiti

October 21 2021

Appreciation

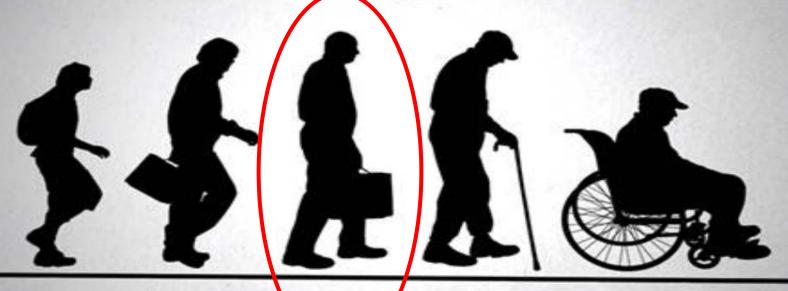
- Thank you for giving me the opportunity to give this talk
- I am honoured



mid • dle age

noun

the period between early adulthood and old age, usually considered as the years from about 45 to 65





Objectives

- 1. Know why you need to keep healthy
- 2. Know what to do to keep healthy
- 3. Know what to do to prevent some common diseases of the middle aged
- 4. How you can use your smartphone to keep you healthy

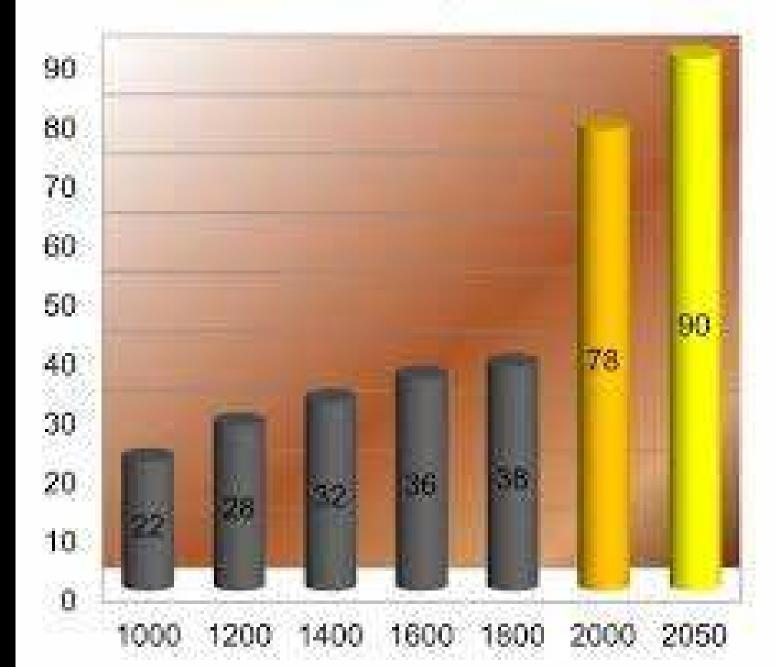
How long would you expect to live: The promise

"The days of our years *are* threescore years and ten and if by reason of strength *they be* fourscore years....."

Psalm 90:10

How long would you expect to live: The year factor

Life Expectancy at Birth



How long would you expect to live: The country factor



Figure 3. Life expectancy at birth by gender and ranked by selected countries, 1995. Life Expectancy by Country and Gender

Male

Female Country Years of Life Country Years of Life Expectancy Expectancy Japan 82.9 Japan 764 82.6 France Sweden 76.2 Switzerland 81.9 753 Israel Sweden 81.6 Canada 75.2 Spain 81.5 75.1 Switzerland 81.2 Canada 75.1 Greece 80.9 Australia 75.0 Australia Italy 80.8 749 Norway Norway 80.7 74.6 Netherlands Netherlands 80.4 Italy 74.4 Greece 80.3 England and Wales 74.3 80.3 Finland 74.2 France Austria 80.1 Spain 74.2 79.8 Germany 73.5 Austria Belgium 79.8 73.4 Singapore England and Wales 79.6 Germany 73.3 Israel 79.3 73.3 New Zealand Singapore 79.0 Northern Ireland 73.1 **United States** 78.9 73.0 Belgium Cuba 73.0 73.0 Costa Rica 728 Finland 72.8 Denmark Ireland 72.5 72.5

Sources: World Health Organization, United Nations; Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System 1990-95 and unpublished

United States

THEREFORE, HOW LONG YOU WILL LIVE DEPEND ON MANY THINGS



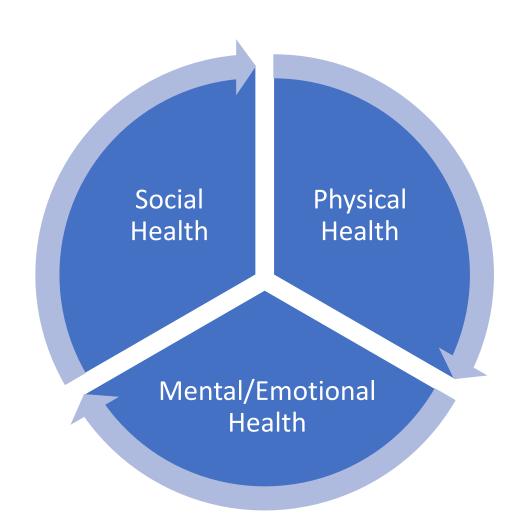
You must watch our health?

- 1. To live long
- 2. To enjoy yourself why you're at it





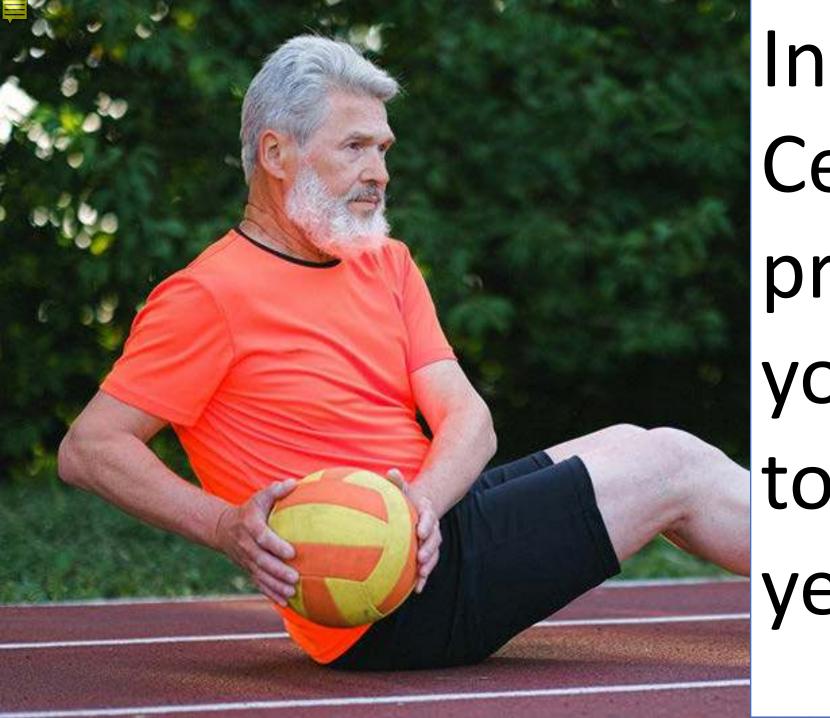
Components of Good health





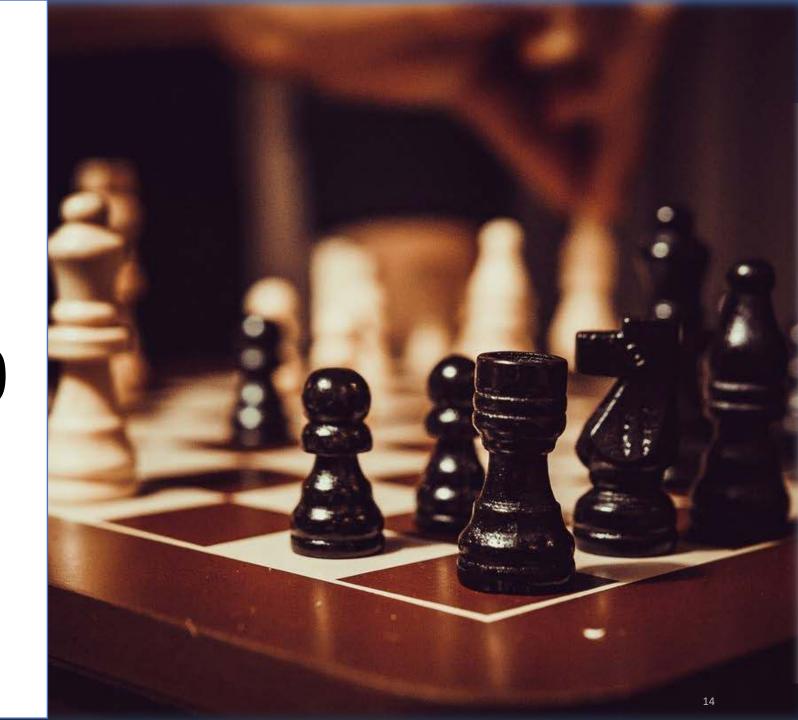
Who is the Healthy Person?





In the 21st Century, it is predicted that you could live to be 100 years old.

Plan your life as if you will live to be 100 years old and healthy





.....Often, these can be prevented by improving personal health habits....

Keys to Good Health

Eating right (Nutrition)

Exercise

Avoid Addictions to Smoking, Alcohol and Drugs

Protect Yourself from Diseases

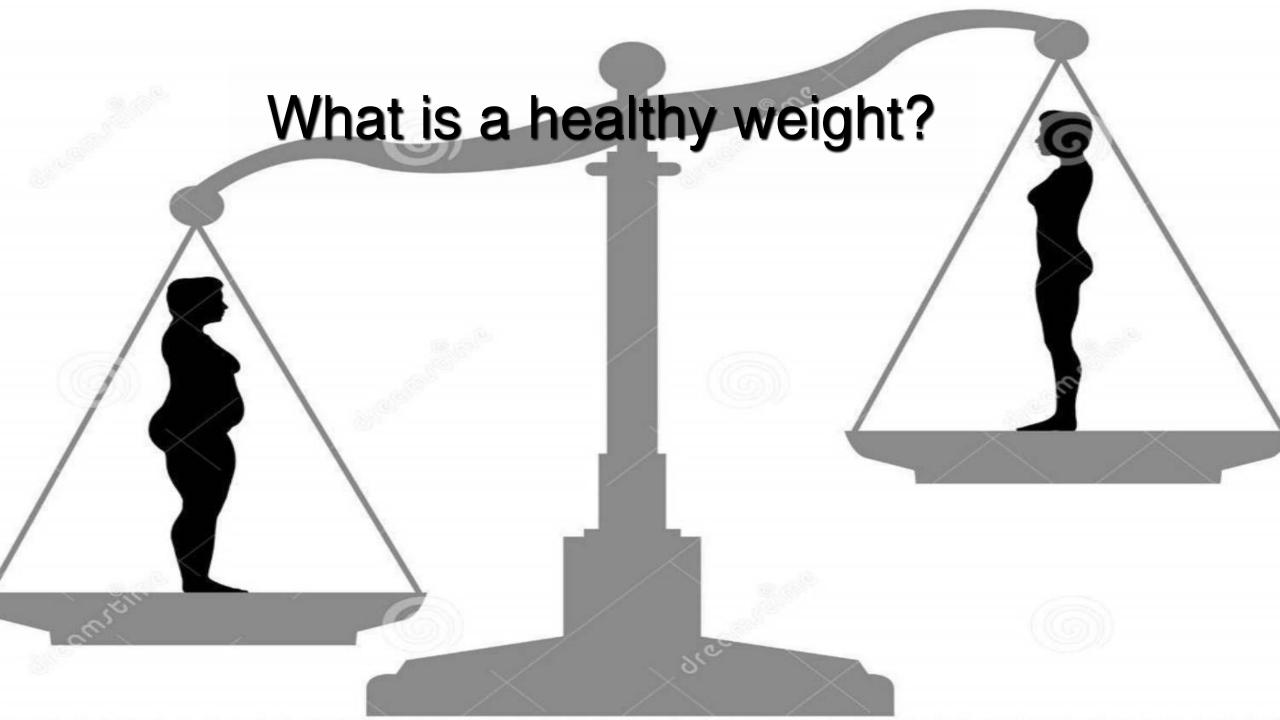
Get Enough Sleep

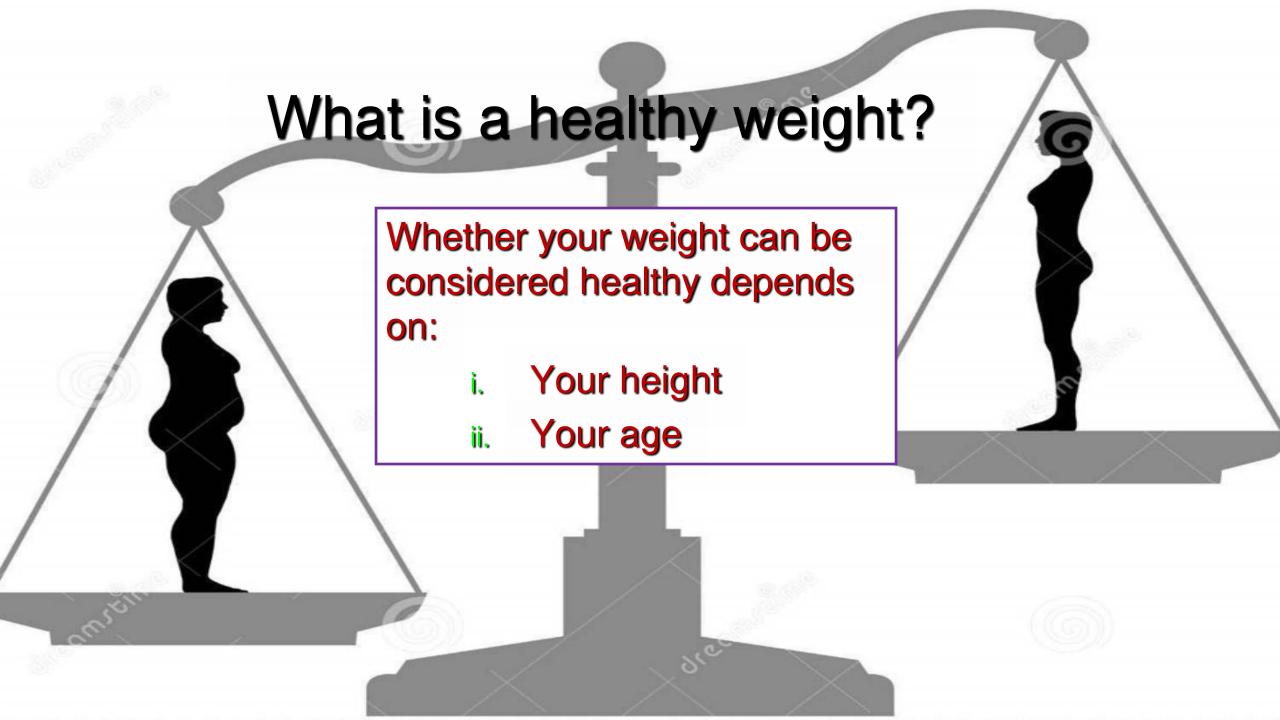
Manage Stress





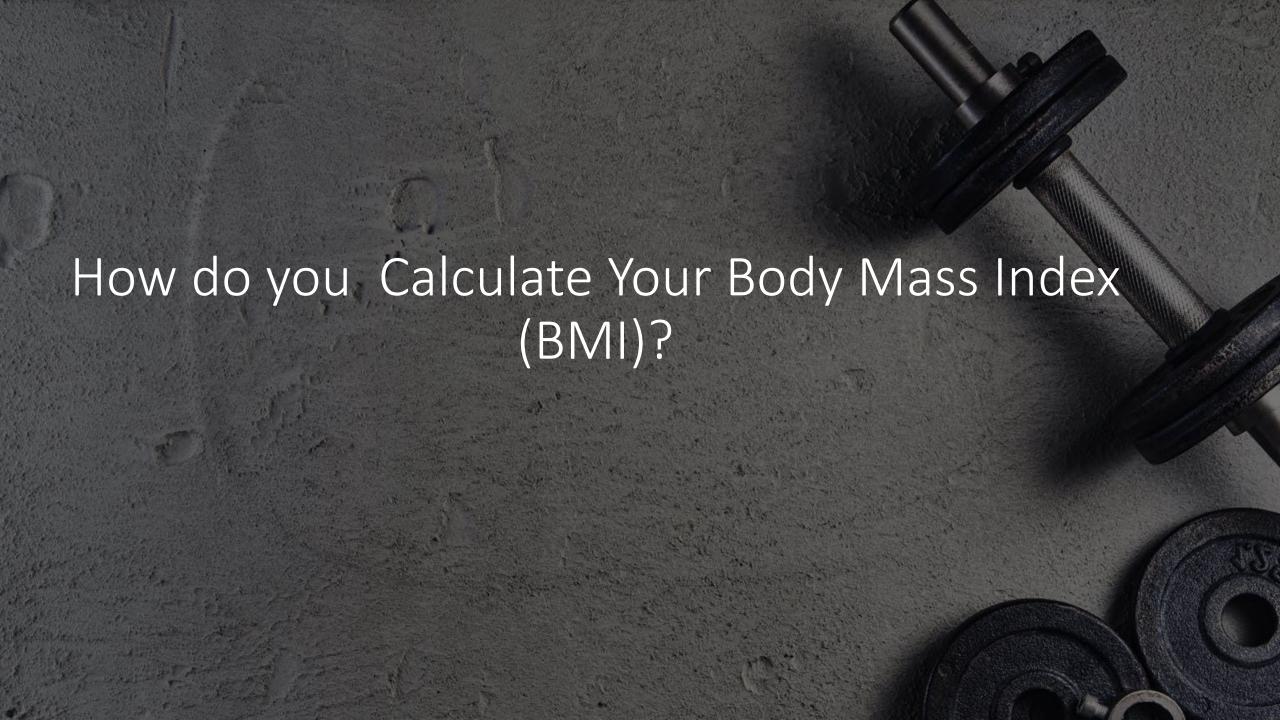






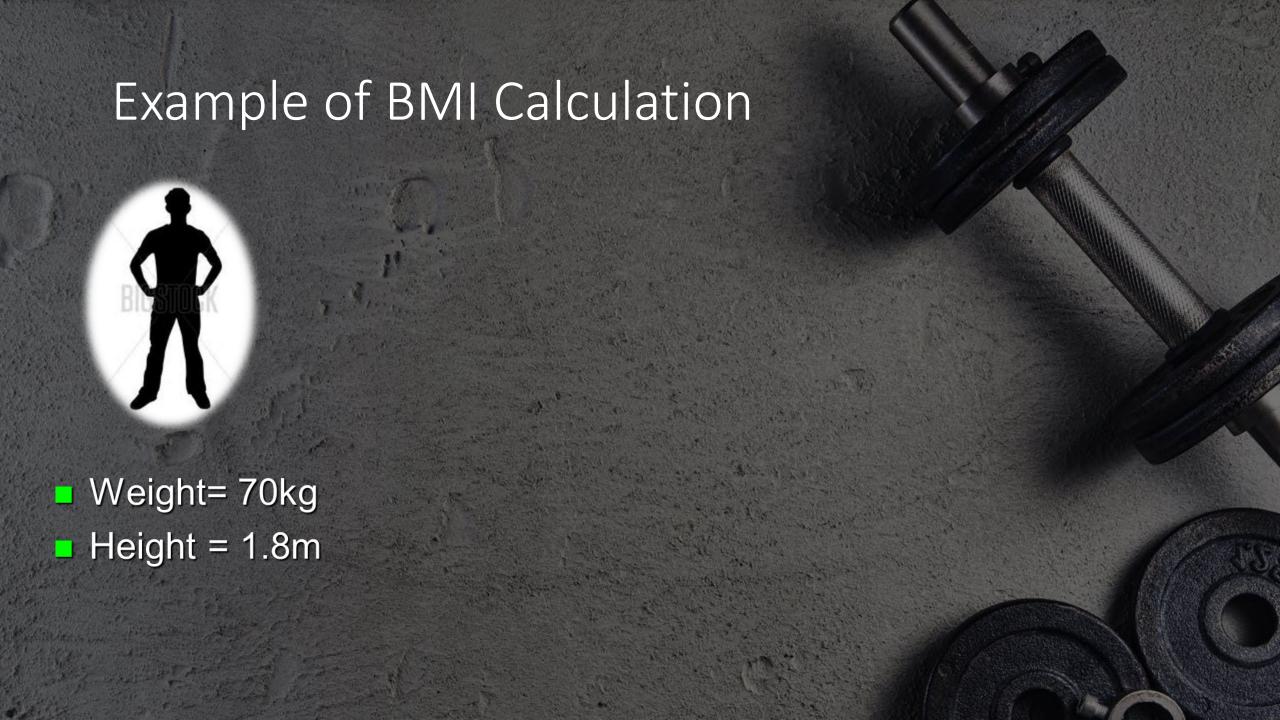








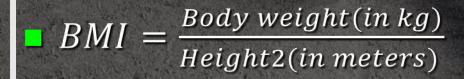
$$BMI = \frac{Body\ weight(in\ kg)}{Height2(in\ meters)}$$



Example of BMI Calculation

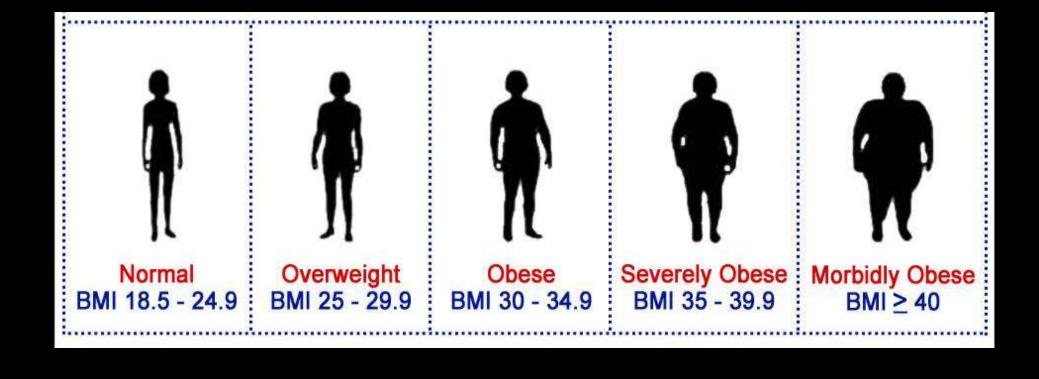


- Weight= 70kg
- Height = 1.8m



$$\frac{70}{1.8X1.8}$$

BMI Interpretation





RULE ONE OF KEEPING FIT: Watch what you eat



Nutrition Test

How many teaspoons of sugar, are in a bottle of Coca-Cola?

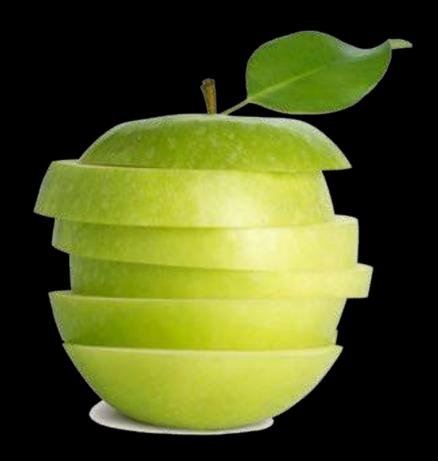


Think twice before you take that "soft" drink.....



Nutritional Guidelines

- It is never too late to start healthy eating.
- Here are some helpful tips......



Nutritional Guidelines

Eat a variety of foods:

- Vegetables
- Fruits
- Beans and nuts
- Whole grains

Ezekiel 4:9

Take thou also unto thee wheat, and barley, and beans, and lentils, and millet, and fitches, and put them in one vessel, and make thee bread thereof

Nutritional Guidelines

Eat foods low in fat, saturated fat, and cholesterol, especially:

- Fish.
- Poultry prepared without skin and lean meat.
- Low-fat dairy products.

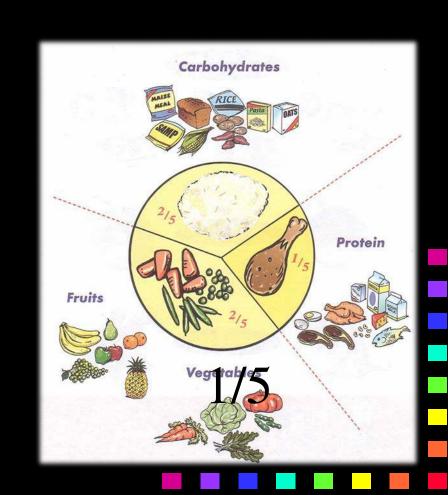
Leviticus 7:23–27:

"...you shall eat neither fat nor blood..."

Right proportion of food

Simple Guide

- More of
 - Vegetables
 - Fruits
- Moderate protein
- Less
 - Carbohydrates
 - Fats
- Little or no
 - Additive
 - Refined sugar
- Reduce salt intake



How much food you take depends on:

- Age
- Gender
- Level of physical activity



Assignment

How Healthy is Your Diet?

RULE TWO OF KEEPING FIT:

Be physically active Everyday



Adults Need 30-60 Minutes of Moderate Activity Each Day



- Moderate activity is one that requires as much energy as walking 3-3.5 km in 30 minutes
- It should get you to sweat
- Increase your resting pulse rate by between 60-70 percent

Here's another assignment for you:

- Evaluate your health habits
 - Which habits promote your good health?
 - Which habits are harmful to your health?



- Smoking
- Alcohol
- Drugs



Smoking is the leading cause of preventable death in most parts of the world





will die a tobacco-related death.







Smoking Is Related to Many Illnesses:

- Respiratory System
- ii. Heart and Circulatory System
- iii. Strokes
- iv. Eyes and Vision
- v. Cancer
- vi. Osteoporosis
- vii. Damages Developing Fetus
- viii. Facial Wrinkling



Addiction: Be Careful with Alcohol

Proverb 20:1

Wine is a mocker, strong drink a brawler; and whoever is led astray by it is not wise.

Responsible Drinking?

- Can there ever be anything as such?
- Abuse of alcohol is one of the commonest health problems facing Nigerians today
- A leading cause of death among Nigerians is alcohol related road traffic crashes

Proverbs 23: 31-32

Do not look at wine when it is red, when it sparkles in the cup and goes down smoothly. At the last it bites like a serpent, and stings like an adder

Some Problems

- Excessive drinking is a factor in family disruptions
- Heavy drinking causes brain damage and interferes with memory.

Proverbs 23: 29-30

Who has woe? Who has sorrow? Who has strife?

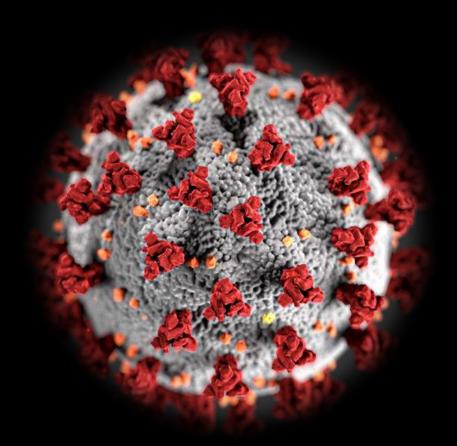
Who has complaining? Who has wounds without cause?

Who has redness of eyes?

Those who tarry long over wine, those who go to try mixed wine.



Get COVID-19 vaccine



What is a vaccine and how does it work?

- Vaccines prevent diseases that can be dangerous, or even deadly. They work with your body's natural defenses to safely develop protection from a disease.
- A vaccine helps your immune system to produce antibodies, just like it would if you
 were exposed to the disease. After getting vaccinated, you have protection from
 that disease, without having to get the disease first.
- This is what makes vaccines such powerful medicine. Unlike most medicines, which treat or cure diseases, vaccines *prevent* them.



What are the benefits of getting a COVID-19 vaccine?

- COVID-19 vaccination will help keep you from getting sick from COVID-19.
- All COVID-19 vaccines have been shown to be very effective.

- The combination of getting vaccinated and following NCDC's recommendations to protect yourself and others will offer the best protection from COVID-19.
- The more people who get vaccinated, the faster we can get back to our normal lives.



What vaccines are available?

- Three vaccines have been approved or received Emergency Use Authorization from the Food and Drug Administration named Pfizer, Moderna, Astrazeneca, and Johnson & Johnson.
- All four COVID-19 vaccines are safe and highly effective against serious illness, hospitalization, and death.
- The Pfizer, Moderna, Astrazeneca vaccines require 2 doses given at least 3-4 weeks apart. People should get both doses to be fully vaccinated in order to be effective.
- Johnson & Johnson is only 1 dose.



How do we know if the vaccine is safe?

Vaccines go through more testing (Clinical trials) than any other

pharmaceuticals:



Small groups of people receive the trial vaccine



The vaccine is given to specific groups of people (i.e by age, race, and physical health).



The vaccine is given tens of thousands of people and tested for effectiveness and safety.

How do we know if the vaccine is safe?



A country's Centre for Disease Control and Prevention (CDC) <u>evaluates</u> the clinical trial data to see if the vaccine is safe and works. They give advice to the Food and Drug Administration (FDA).



The FDA looks at the data and the advice from the CDC and decides whether to approve the vaccine.

The vaccine is only approved after **all of these steps** are done and various teams of reviewers are sure that it works and is safe.



How is it safe if it happened so fast?

The timeline was sped up but never cut corners on safety. Here is how:



We already had helpful information about coronaviruses, so we weren't starting from scratch.



Governments all over the world **invested a lot of money** to support vaccine companies with their work.



A lot of people participated in clinical trials and we didn't need to spend time finding volunteers.

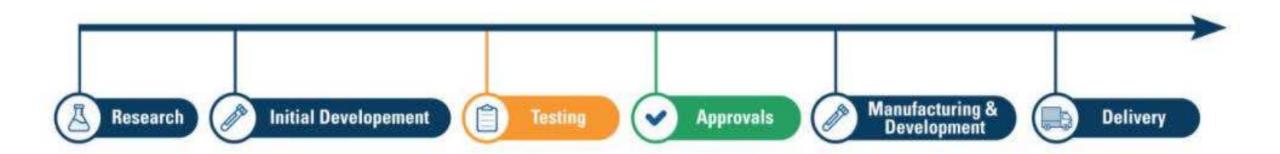


Manufacturing happened at the same time as safety studies, so vaccines were ready to be distributed once they were approved.

Example COVID-19 vaccine timeline:

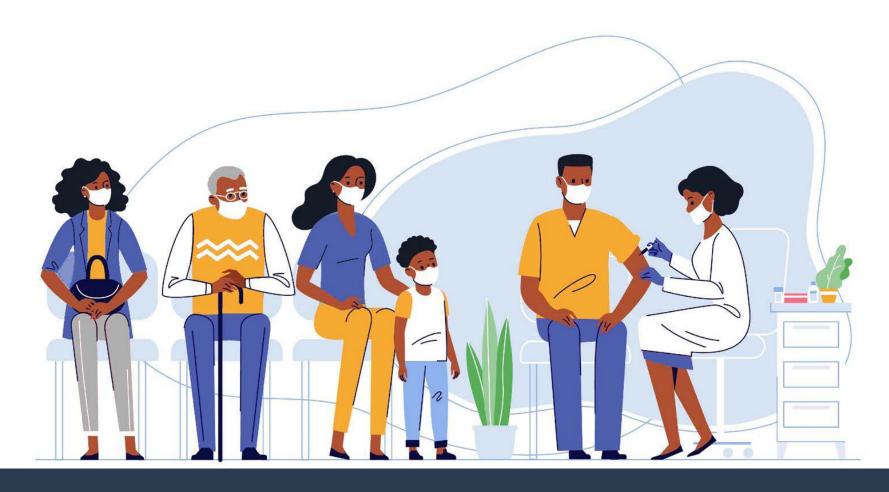


Traditional timeline:



Can you get COVID-19 from the COVID-19 vaccines?

No. The vaccines do not contain the live virus that causes COVID-19. This means that you can't catch COVID-19 from the vaccine.





Do the COVID-19 vaccines have any side effects?

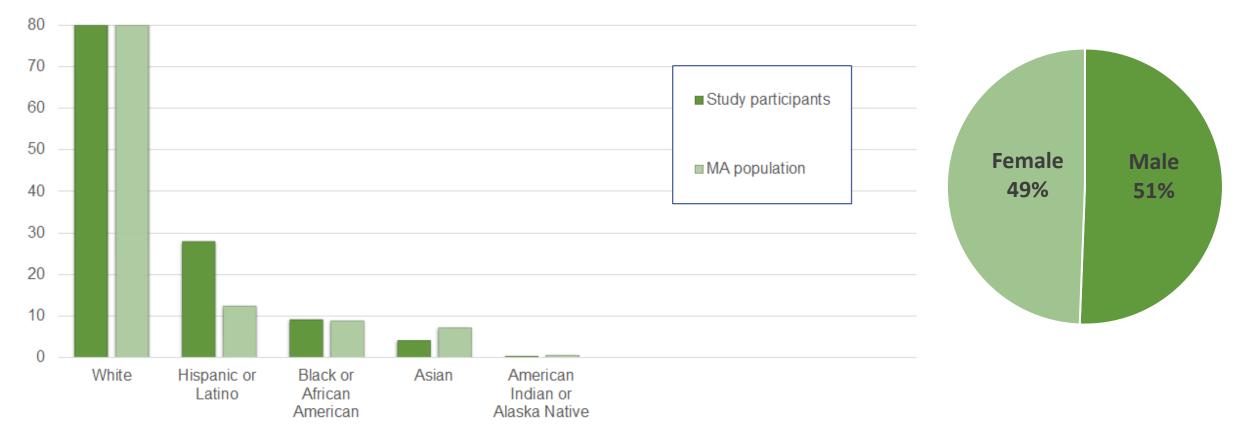
- Serious side effects from vaccines, including the COVID-19 vaccine, are rare.
- It is possible that some people may have side effects, which are normal signs that your body is building protection.
- These side effects may affect your ability to do daily activities, but they should go away in a few days.
- The most common side effects are minor and include:
 - Tiredness
 - Headache
 - Pain at the injection site
 - Muscle and/or joint pain
 - Chills
 - Nausea and/or vomiting
 - o Fever





Who was the Pfizer vaccine tested on?

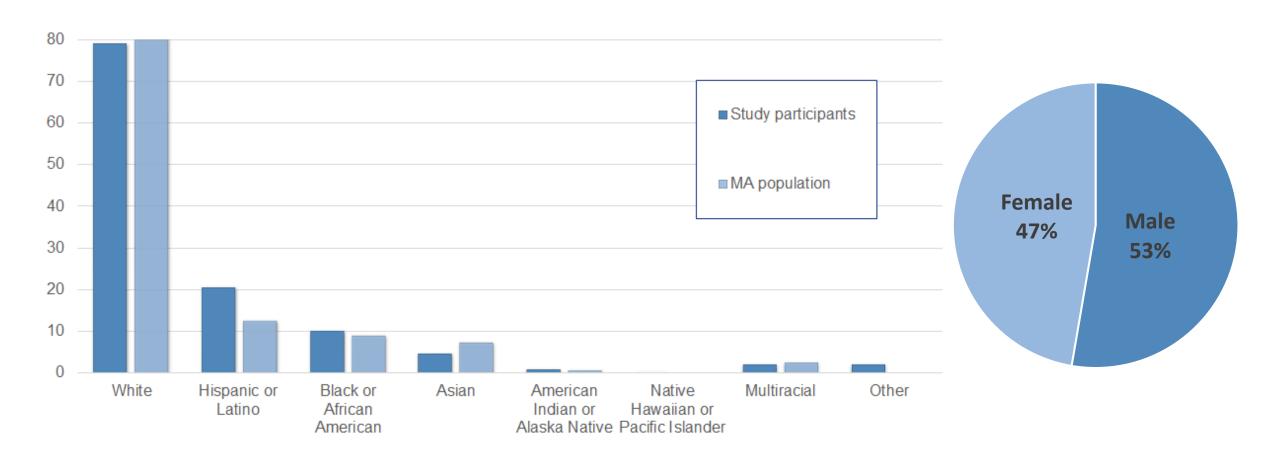
The safety of the **Pfizer** vaccine was evaluated in 43,448 people 16 years of age and older in two clinical studies conducted in the United States, Europe, Turkey, South Africa, and South America.





Who was the Moderna vaccine tested on?

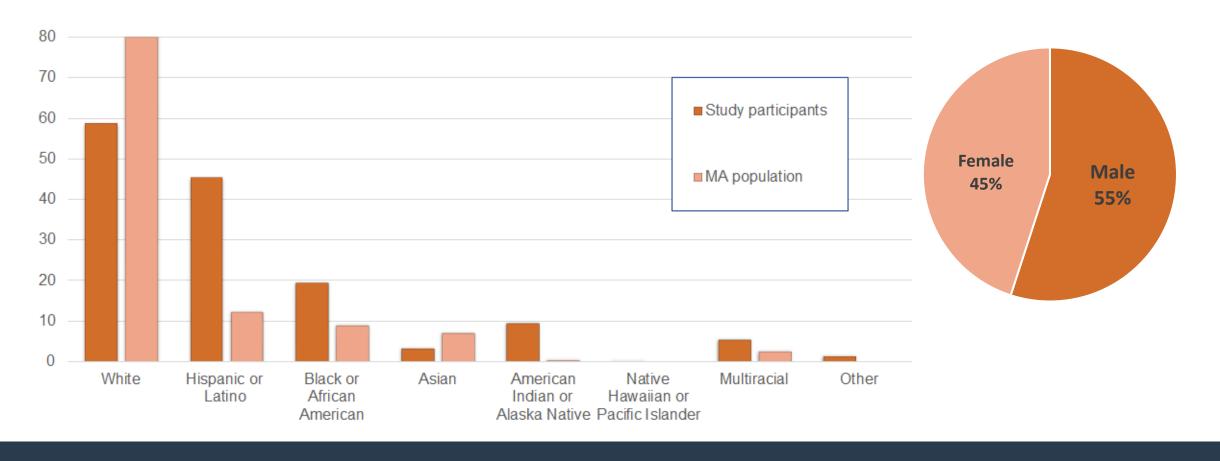
The safety of the **Moderna** vaccine was evaluated in 30,351 people 18 years of age and older in the United States.





Who was the Johnson & Johnson vaccine tested on?

The safety of the Janssen (Johnson & Johnson) vaccine was evaluated in 43,783 people 18 years and older in the U.S., Brazil, South Africa, Colombia, Argentina, Peru, Chile, and Mexico





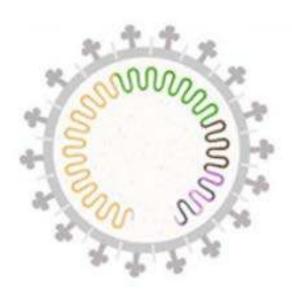
Will a COVID-19 vaccine change my DNA?

- No. COVID-19 vaccines do not change or interact with your DNA in any way.
- Vaccines teach our immune system how to fight against a specific virus.
- In order to do its job, the COVID-19 vaccine doesn't need to go inside the nucleus of the cell, which is where our DNA is kept. This means the vaccine never interacts with our DNA in any way and has no way to change it.



Will the vaccines work against COVID-19 variants?

- It is normal for viruses to change as they spread, and for new variants to appear.
- So far, studies suggest that the vaccines provide protection from the known variants (like the Delta variant).
- Even when a vaccinated person gets infected with COVID-19, they are very protected against severe disease and death.





Get Enough Sleep

- It is important for learning and brain function
- It is important for good health

Mark 6:31

And HE said unto them, Come ye yourselves apart into a desert place, and rest a while: for there were many coming and going, and they had no leisure so much as to eat.

Lack of Sleep Causes

- Difficulties with memory and learning
- Increased irritability
- Accidents
- Illness
- Lack of energy
- Stress





Avoiding stress





First you should understand stress

Stress can be defined as any type of change that causes physical, emotional, or psychological strain. Stress is your body's response to anything that requires attention or action



Why is stress a problem?



Stress interferes with learning and work



Stress interferes with our relationship

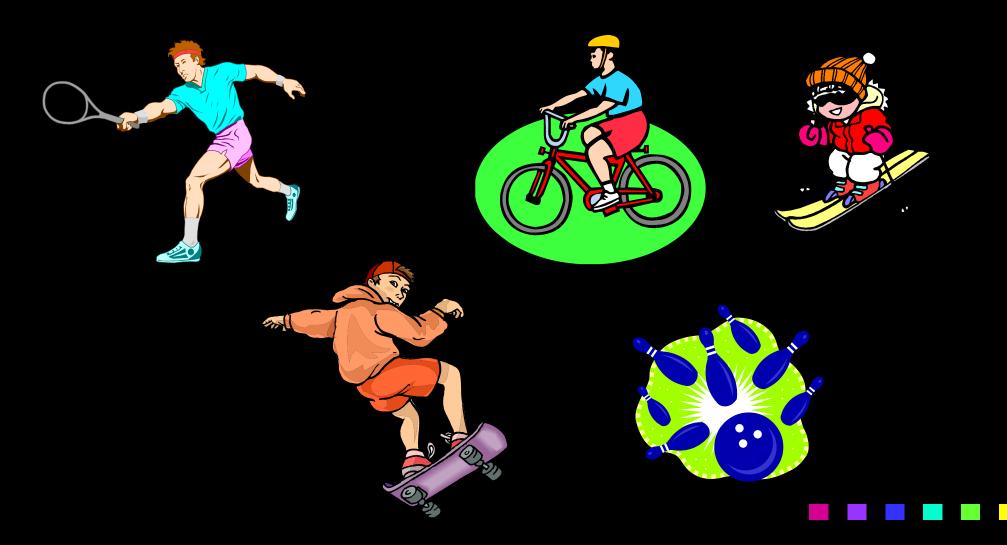


Recognizing THE SYMPTOMS TROUBLE of STRESS CONCENTRATING APATHY **HEADACHES** TEETH ANXIETY GRINDING MUSCLE **TENSION ANGER** SKIN STOMACH IRRITATIONS **PROBLEMS** DECREASED FATIGUE SEX DRIVE

3 Ways to Deal with Stress

- Exercise uses up stress hormones
- Stress reducing thoughts
- Physical relaxation

Find some physical activities tat you like.



Physical Relaxation

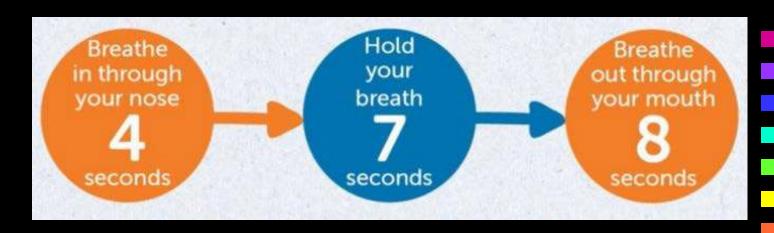


Elements of Physical Relaxation

- Breathing
- Tensing and Relaxing Muscles
- Visual Imagery
- Positive Suggestions
- Music

Breathing: The 4-7-8 of Relaxation

- 1. Adopt a comfortable position and relax your body.
- 2. Inhale quietly through your nose for 4 seconds.
- 3. Hold your breath for a count of 7 seconds.
- 4. Exhale through your mouth, making a whoosh sound, for 8 seconds.
- 5. Repeat the cycle up to 4 times.



Use Visual Imagery

- Imagine your favorite place, person or activity
 - Family
 - Previous relaxing activity
 - Spirituality

Family:



Previous relaxing activity



Remember this: Good memories are a great way to stay calm



Sometimes, it is beyond us......





Avoiding injury



Facts about injuries

- Injuries are the sixth commonest cause of death and disability the world over
- In the active age group of 16-45 years, it is the most common cause of death



Causes of Injuries

- Falls
- Motor vehicle crashes
- Burns
- Assault
- Natural disasters
- Wars
- Suicide





At our age, falls are our greatest scourge!

Take conscious steps to avoid them

Preventing injuries



Preventing injuries at Home....

Install Handrails

along indoor and outdoor staircases, hallways, and anywhere you feel you need a little extra support.





Use nonslip mats and treads

to help improve traction on bathroom floors, shower, bathtub, outside decks, and outside steps.

Falls are the leading cause of injuries

among older adults, sending more than two million people to the emergency department each year.



Improve lighting.

Make sure you have adequate lighting in hallways, stairways, and outdoor walkways, and areas in which you're likely to walk in the middle of the night.



Many of the fall hazards are right in our own homes, and a few inexpensive changes could lower your fall-risk.



Install grab bars

near showers, bathtubs, and toilets. Avoid grab bars that "stick on" to shower tiles with suction, which are less reliable than metal grab bars attached to wall studs.



Inexpensive fixes.

Remove all floor clutter. Rearrange furniture so that it works well with the flow of traffic. Use double-sided tape to secure the edges of area rugs to the floor, and remove small throw rugs.



Repair crumbling outdoor steps, loose wall-to-wall carpeting, and uneven floorboards. Call a handyman to repair stairs or floorboards, or a carpet store to come and tighten wall-to-wall carpeting.



Diseases are hinged on interaction between **GENETIC** and **ENVIRONMENTAL** FACTORS:



Genes load the GUN

the ENVIRONMENT pulls the TRIGGER



Chronic and often debilitating diseases that are prevalent in our environment include:

1. Those with genetic and environmental interplay:

- Hypertension
- Diabetes mellitus
- Diseases of the prostate
- Cancers and other neoplastic diseases

2. Those that are purely genetic:

- Common example is sickle cell disease
- 3. Those that are purely environmental:
 - Infections and Industrial diseases

What conditions should you do checkup for after 40?

- Blood pressure
- Cholesterol
- Diabetes
- Prostate cancer
- Breast cancer
- Cervical cancer



- State of sustained increase in blood pressure
- The cause in most cases is unknown
- In a few patients, it may be caused by defects in other organs (the endocrine glands and the kidneys)
- Essential hypertension, when the cause is unknown management is for life
- Secondary hypertension when it is due to disease of other organs – may be cured by treating the primary organ disease

Essential hypertension

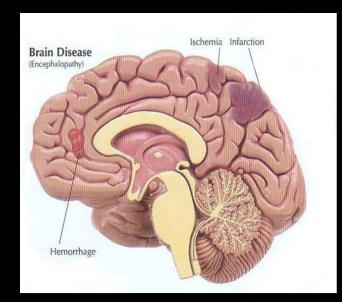
In essential hypertension the cause is unknown, but it is known that certain factors contribute to its development:

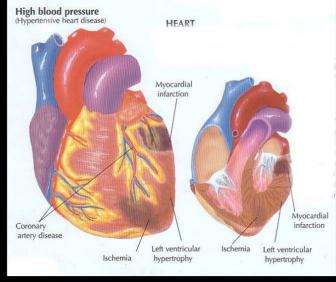
- Excessive intake of SALT
- Obesity and overweight
- Genetic susceptibility

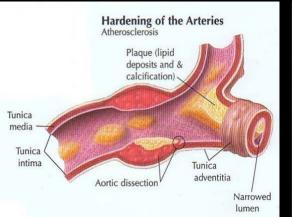
Persistent hypertension is one of the risk factors for

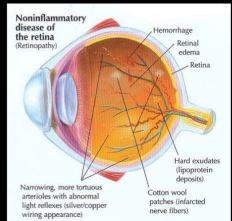
- Strokes
- Heart attacks
- Heart failure
- Arterial aneurysm
- Chronic kidney failure
- Eye (retinal) damage and loss of vision

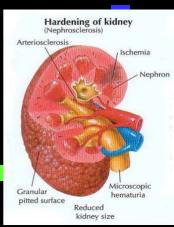
Organs that can be affected in hypertension











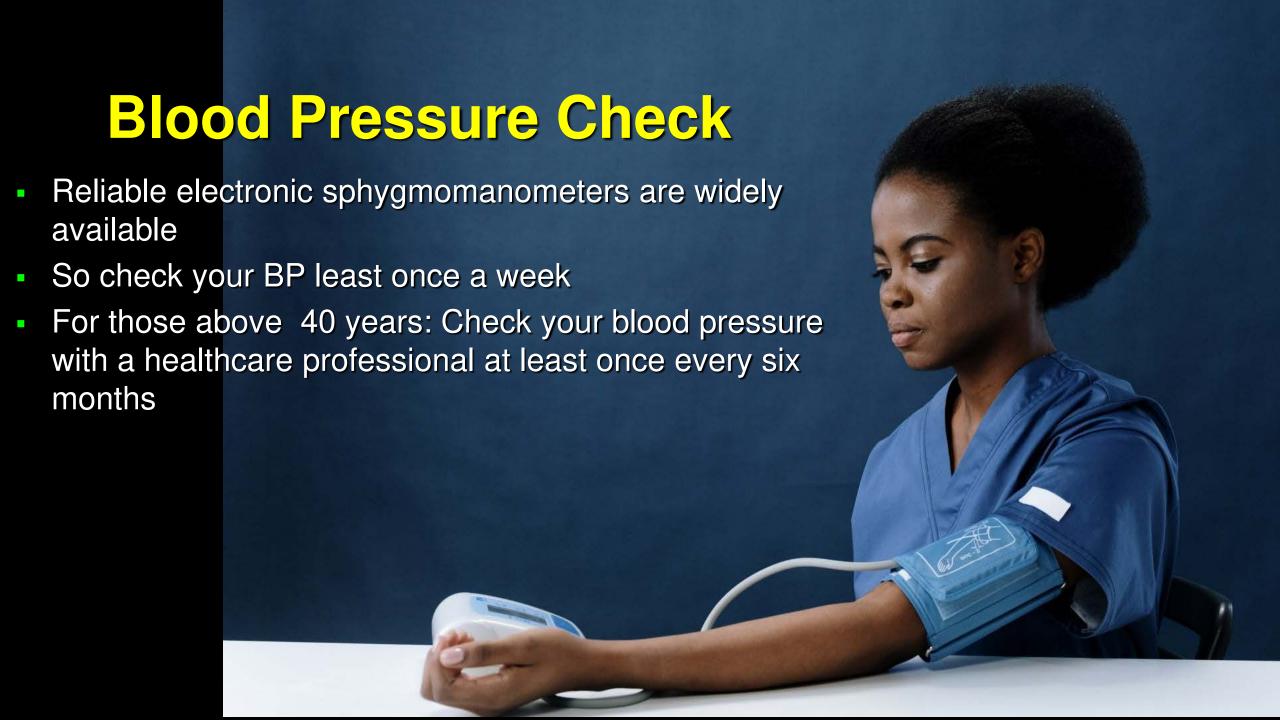
Symptoms of hypertension

- Mild to moderate essential hypertension is usually without symptoms
- Accelerated hypertension is associated with
 - headache
 - drowsiness
 - confusion
 - vision disorders
 - nausea and vomiting

Both dietary and lifestyle changes as well as medicines can improve blood pressure control and decrease the risk of associated health complications

How to lower your risk...

- Regular medical checkup for BP monitoring
- Weight reduction and regular aerobic exercise
- Reducing dietary sugar
- Reducing sodium (salt) in the diet: This step decreases blood pressure in about 33% of people
- Discontinuing tobacco use and alcohol consumption



Cholesterol

- Too much cholesterol, which can clog blood vessels, is a major cause of heart disease in men and women
- You can lower your cholesterol level and keep a healthy level by eating the right foods, losing extra weight, and being physically active.
- Most experts recommend checking your cholesterol every 5 years

What causes diabetes?

It continues to be a mystery! Some factors however appear to play roles in its causation:

- Genetics
 - More common in relatives of diabetics
 - Certain genetic markers seen in some diabetics
- Environmental Factors:
 - Obesity
 - Lack of exercise

SYMPTOMS OF DIABETES



Frequent urination



Blurry



Increased hunger



Feeling of pins & needle in the feet



Excessive thirsty



Extreme fatigue



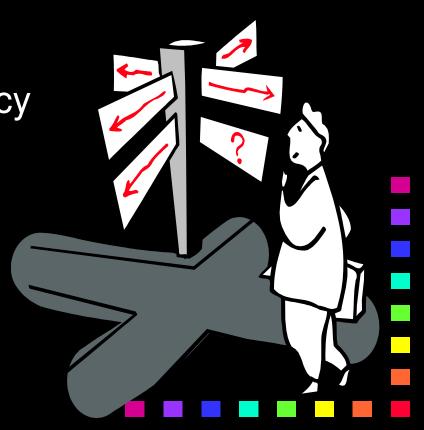
Weight loss

Diabetes mellitus

- The chances of getting the most common type of diabetes—type 2 diabetes—increase once you reach age 45.
- Almost 1 in 5 people aged 65-74 has diabetes
- Should you screen yourself?

Yes, you do need to screen yourself for diabetes if you:

- i. Are over 40 years of age
- ii. Have symptoms of diabetes
- iii. Are overweight (Obese)
- iv. Have previous diabetes in pregnancy
- v. Do not exercise regularly
- vi. Have poor obstetric history
- vii. Have diabetic relatives
- viii. Endocrine problems
- ix. Are hypertensive



Breast cancer



Breast cancer

- As women get older, their chances of getting breast cancer increase. In fact, most breast cancers occur in women over the age of 50.
- Research shows that the best way to find breast cancer is to get a mammogram.
- All women aged 50 and older should have a mammogram every 1 to 2 years
- A more convenient (but not as reliable as mammography)
 screening activity is breast self examination

Breast Self Examination (BSE)

Breast Self-Examination

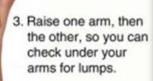


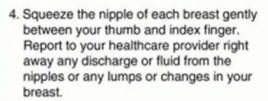


 Lie down and put your left arm under your head. Use your right hand to examine your left breast. With your 3 middle fingers flat, move gently in small circular motions over the entire breast, checking for any lump, hard knot, or thickening. Use different levels of pressure - light, medium, and firm - over each area of your breast. Check the whole breast, from your collarbone above your breast down to the ribs below your breast. Switch arms and repeat on the other breast.

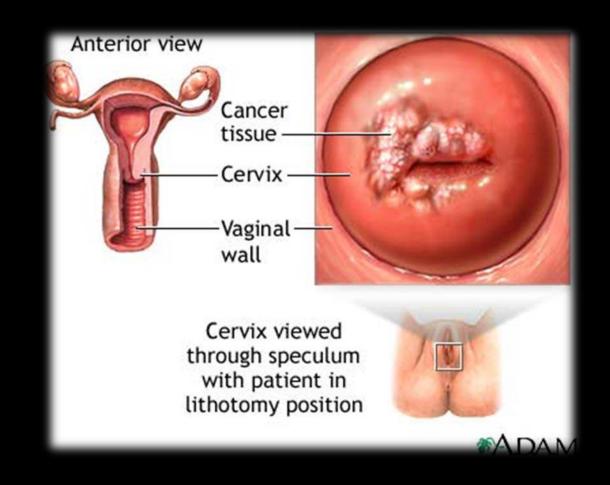


 Look at your breasts while standing in front of a mirror with your hands on your hips.
 Look for lumps, new differences in size and shape, and swelling or dimpling of the skin.





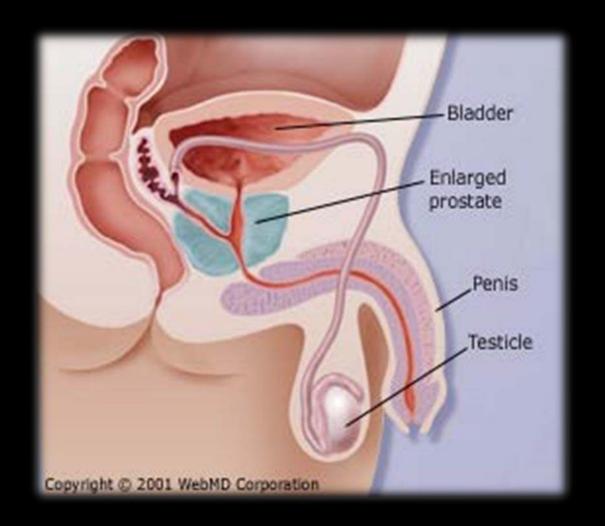
Cancer of the Cervix



Cancer of the Cervix

- All sexually active women are at risk for cancer of the cervix.
- It is the most common cause of cancer deaths among women in Nigeria
- Most deaths from cancer of the cervix can be prevented if the cancer is found and treated early.
- A Pap test can find cancer of the cervix early—while it's easier to cure. This simple test saves lives.
- Women need to have a Pap test every 3 years, some more often.

Prostate Cancer



Prostate Cancer

- Prostate cancer is most common in men over age 50
- It is the commonest cancer in Nigerian men.
- Tests such as a rectal exam and PSA (prostate-specific antigen) blood test can help detect prostate cancer.
- These tests should be done once every two years in men over
 40





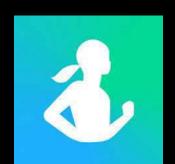
Keeping healthy: smartphone to the rescue

- Modern smartphones are versatile
- They have GPS receivers, gyroscopes and cameras and they also have access to the Internet.
- Since the phones are mostly with you, you should exploit these functions.

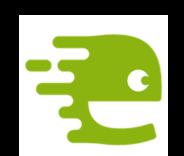
Activity Monitor

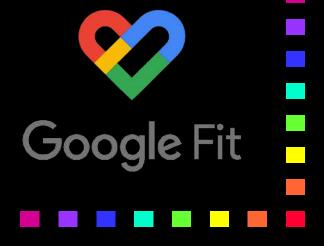
- Your phone can track your basic activity levels using its in-built sensors
- Google Fit (Android) and Apple Health (IOS) can monitor your steps, level of activities and log your details.
- You can also set goals with them











Heart rate monitor apps

- By placing your finger tip on the Camera, these apps let you check your pulse rate
- Samsung Health, Runtastic Heart rate Monitor and other apps do these for you.
- They can log the HR and keep the record for you

Sleep coach

- These apps help you sleep better
- By recording the conditions of your sleeping environment (like noise levels and temperature) and seeing which nights you sleep the best, they can help you identify what keeps you from sleeping.

Exercise Coaching Apps

- These apps actively encourage you to take a more active lifestyle.
- They coach you, just like human coaches
- 7 Minute Workout is an example.



Apps to help you eat better

- These apps are bursting with nutritional information so you can make the healthier choice when it comes to eating
- These include <u>Calorie Counter Diet Tracker</u>

First Aid Apps

- These apps provide pre-loaded content providing instant access to all safety information at any time and expert advice for everyday emergencies.
- There are videos, diagrams, interactive quizzes and simple step-by-step advice to help users deal with and prepare for emergencies.
- First Aid by Red Cross is a very good example

Reminders and Goal Setting Apps

- Calendar apps e.g., Google calendar includes the ability to set goals, like 'Go jogging twice a week'. Set one, and it'll suggest times for you to do said activity
- You can also set reminders for when to take your medicine, go for doctor's appointment etc.





THE WISE PERSON

- KEEPS A HEALTHY LIFESTYLE:
 - Diet
 - Exercise
 - Avoid smoking
 - Avoid alcohol intake

TAKES HIS HEALTH SERIOUSLY

Good Health to You!





THANK YOU

To ask questions, please join the forum at www.oluwadiya.com

