High and low blood pressure has been a health problem most parents battle with till death. Most of you are familiar with this condition. This article will be enlightening you on the causes and preventive measures of these condition(High blood and low blood pressure).

High

&

Low Blood Pressure

By SamY

INTRODUCTION

- ≈ 80% of these death related to these various diseases occur in low and middle income countries.
- **CR HYPERTENSION REMAINS A SILENT KILLER**

WHAT IS HIGH BLOOD PRESSURE?

The heart as we know constantly pumps blood into the blood vessels. The amount of force exerted against the walls of the blood vessels is known as the BLOOD PRESSURE. A <u>blood pressure</u> reading appears as two numbers. The first and higher of the two is a measure of systolic pressure and is the pressure in the <u>arteries</u> when the <u>heart</u> beats and fills them with <u>blood</u>. The second number measures diastolic pressure, and is the pressure in the arteries when the <u>heart</u> rests between beats. It is measured in millimeter mercury (mm hg).

High Blood Pressure is also known as HYPERTENSION. This is when your blood pressure increases to unhealthy levels. Your blood pressure measurement takes into account how much blood is passing through your blood vessels and the amount of resistance the blood meets while the heart is pumping. High blood pressure can cause damage to your blood vessels and organs, especially the brain, heart, eyes, and kidneys.

TYPES OF HIGH BLOOD PRESSURE

There are two types of high blood pressure:

- Primary hypertension
- Secondary hypertension

PRIMARY HYPERTENSION

Primary Hypertension is also called essential hypertension. This type of high blood pressure, called primary (essential) hypertension, tends to develop gradually over many years. Most people have this type of high blood pressure. Researchers are still unclear what mechanisms cause blood pressure to slowly increase.

SECONDARY HYPERTENSION

Secondary Hypertension which is the most common among adult often occurs quickly and can become more severe than primary hypertension. Several conditions that may cause secondary hypertension include:

- Obstructive sleep apnoea (cessation of respiration/breathing)
- Adrenal gland problems
- Congenital heart defects e.g. heart failure
- Side effects of medications
- Excessive use of drugs such as alcohol, cocaine and amphetamines among other
- ∪ Underline illness such as diabetes

HIGH BLOOD PRESSURE READINGS

BLOOD PRESSURE CATEGORY	SYSTOLIC mm Hg (upper number)		DIASTOLIC mm Hg (lower number)
NORMAL	LESS THAN 120	and	LESS THAN 80
ELEVATED	120 - 129	and	LESS THAN 80
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 1	130 – 139	or	80 - 89
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 2	140 OR HIGHER	or	90 OR HIGHER
HYPERTENSIVE CRISIS (consult your doctor immediately)	HIGHER THAN 180	and/or	HIGHER THAN 120

CAUSES OF HIGH BLOOD PRESURE

The common causes of high blood pressure are:

- രു Age
- $\ensuremath{\text{CR}}$ Certain Chronic conditions such as diabetes, heart diseases
- Being overweight or obese

- Not being physically active
- Recessive use of drugs such as alcohol, tobacco, amphetamines and other sedatives
- Stress

PROBLEMS THAT MAY ARISE AS A RESULT OF HIGH BLOOD PRESSURE

- Thickened, narrowed or torn blood vessels in the eyes

PREVENTIVE MEASURES FOR HIGH BLOOD PRESSURE

- C
 Q
 Lose excess fats in the body

- Reduce sodium in your diet
- Quit smoking
- Reduce your stress

WHAT IS LOW BLOOD PRESSURE?

Hypotension (also known as low blood pressure) is a medical condition when the blood pressure falls below 90/60. Low blood pressure can be a sign of an underlying problem (especially in the elderly) where it may cause inadequate <u>blood</u> flow to the heart, <u>brain</u>, and other vital organs.

CAUSES OF LOW BLOOD PRESSURE

- Reart problems. E.g. extremely low heart rate (bradycardia), heart valve problems, heart attack and heart failure.
- □ Dehydration. This is when your body loses more water than it takes in.
- Severe infection. When an infection in the body enters the bloodstream, it can lead to a life-threatening drop in blood pressure called septic shock.
- Severe allergic reaction. Such as from foods, certain medications, insect venoms and latex can cause breathing problems, hives, itching, a swollen throat and a dangerous drop in blood pressure.
- Call Lack of nutrients in your diet. A lack of the vitamin B-12, folate and iron can keep your body from producing enough red blood cells causing low blood pressure.

SYMPTOMS OF LOW BLOOD PRESSURE

- Blurred or fading vision
- Nausea

- Rapid, shallow breathing

HOW DO YOU PREVENT LOW BLOOD PRESSURE?

- □ Drink plenty of water
- Pay attention to your body position

- Get your thyroid checked
- Wear compression stockings (to keep warm and prevent cold)

REFERENCES

Webmd (https://www.webmd.com/hypertension-high-blood-pressure-know-your-numbers)