HYPERTENSION

SAFARI DOCTORS HEALTH AMBASSADORS

LEARNING OUTCOMES

- What is hypertension
- Why is it important
- How can it be prevented
- How can it be treated

BLOOD PRESSURE (BP)

- Pressure created in your blood vessels as blood is pumped by the heart
- The heart squeezes blood around your body, by squeezing and relaxing, giving you the heart rate you can feel and hear
- Written as two numbers X/Y
 - X = when heart it squeezing or contracting
 - Y = when heart is relaxing
- Normal BP is lower than 120/80

WHAT IS HYPERTENSION?

- 'High blood pressure'
- Defined as BP bigger than 140/90
- Means the heart has to work harder to get the same blood around the body

WHAT ARE THE RISKS FOR IT?

- Increasing age
- Males
- Being Afro-Caribbean or from the Indian subcontinent
- Diabetes
- Obesity and high cholesterol
- Family history (other people e.g. parents have it)
- Lifestyle see prevention slide

WHAT PROBLEMS DOES IT CAUSE?

- Causes damage to the blood vessels so that they become stiff, and can become 'furry' on the inside
- This causes damage to different organs in the body
 - Heart
 - Brain
 - Kidneys
 - Eyes

HEART

- Damage to blood vessels of the heart which causes:
 - Heart attacks (can cause death)
 - Angina (chest pain due to poor blood flow to heart)
 - Heart failure (heart cannot work properly, affects lots of body e.g. lungs, kidneys as water builds up)
- Damage to other blood vessels especially in the legs
 - Can cause pain, ulcers, ski death...

BRAIN

- Stroke and 'mini strokes'
 - Can be due to bleed or a blockage
- This causes lots of problems including
 - Death
 - Disability so can't work e.g. weak arm or leg

KIDNEYS

Kidney failure

EYES

- Damage to the back of the eyes
- Loss of vision
- Eventual blindness

HOW TO PREVENT HYPERTENSION

- Healthy diet
- Exercise
- Weight loss
- Don't smoke/quit smoking
- Reduce alcohol

- **5 PORTIONS OF FRUIT AND VEGETABLES PER DAY**
- 1/3 OF MEALS SHOULD BE STARCHY FOODS (E.G. CEREALS, WHOLEGRAIN BREAD, POTATOES, RICE, PASTA) + FRUIT AND VEGETABLES
- WHOLE GRAINS FOR STARCH E.G. BROWN RICE, PASTA, BREAD
- REDUCE FATTY FOOD SUCH AS FATTY MEATS, CHEESES, FULL-CREAM MILK, FRIED FOOD, BUTTER, ETC.
- 2–3 PORTIONS OF FISH PER WEEK (IDEALLY ONE OF THESE SHOULD BE 'OILY', SUCH AS HERRING, MACKEREL, SARDINES, KIPPERS, PILCHARDS, SALMON, OR FRESH TUNA)
- EAT LEAN (LESS FATTY) MEAT, OR EAT POULTRY SUCH AS CHICKEN (WITHOUT THE SKIN)
- **IF YOU DO FRY, USE A VEGETABLE OIL E.G. OLIVE OIL**
- REDUCE SALT

LIFESTYLE

- The topics discussed on the previous slide are equally as important if someone is know to suffer from hypertension
- They can help slow the rate of the disease

MEDICATION

- There are various drugs which can target hypertension
 - E.g. ramipril, thiazide diuretics, calcium channel blockers
 - In Africans calcium channel blockers are normally used first

- The aim of the drugs is to bring the blood pressure back to a normal range
- It is very important they are taken regularly or they are not effective

QUESTIONS

- 1. What things increase risk of hypertension?
- 2. What are the four organs that can be affected?
- 3. Give three lifestyle changes to reduce the chance of getting hypertension, or to help to treat it
- 4. What is it important to tell someone who needs medication?
- 5. Write five things that help make a healthier diet
- 6. What problems might hypertension cause?