SAFARI DOCTORS HEALTH AMBASSADORS

DIABETES

LEARNING OUTCOMES

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

WHAT IS DIABETES?

- Disease when your body stops responding to and producing a hormone called insulin
- Insulin helps your body to take in the sugar that you eat and turn it into energy your body can use
- Without insulin the levels of sugar (glucose) can build up very high in the body, causing damage to various organs

HOW WOULD I KNOW I HAVE IT?

- Often there are not any symptoms you do not feel different
- ▶ BUT this does not mean it isn't causing damage
- ▶ If it's severe you might get:
 - Sleepy/pass out
 - Wee a lot
 - Thirsty
 - Weight loss
 - Blurry vision
- So you can have complications without knowing

HOW WOULD I KNOW I HAVE IT?

- ► It is diagnosed by doctors/nurses if:
 - You have a test of your urine (wee) showing high levels of sugar
 - You have a blood test showing your blood sugar (blood glucose) is raised - this is done by a small fingerprick
 - You have a blood test showing longer term raised sugar blood is taken and sent away to be tested
 - You have symptoms that fit with diabetes

WHAT ARE THE RISKS FOR IT?

- Diet
 - High sugar (sugary/fizzy drinks, adding sugar to food and drinks when cooking, sweets, honey...)
 - Too much fat
 - Too much salt
- Obesity
- Lack of exercise
- Family history other people in your family having diabetes

WHAT PROBLEMS DOES IT CAUSE?

- Damage to organs
 - Heart and blood vessels
 - Eyes
 - Kidneys
 - Nerves
 - Feet
- Very high levels of sugar can cause dehydration, sleepiness and an illness which can be life threatening if not treated fast
- Links to other diseases like high blood pressure and high cholesterol

HEART & VESSELS

- Blood vessels get harder which can cause
 - Heart attacks
 - Angina (chest pain as heart doesn't get enough blood)
 - Stroke
 - Death

EYES

- Damage to the back of the eyes
 - Blurry vision
 - Blindness

KIDNEYS

Chronic kidney disease

This can cause many long term problems

NERVES

- Reduced sensation especially in hands and feet
- Weakness
- Impotence (tasa)

FEET

- Ulcers
- Infections
- ► These may cause death of toes
- Pain
- Change in shape

BUT...

- If you catch this disease early and start to treat it, you can reduce the risk of these a lot
- So it is important to try and prevent it before it starts
- Or to treat it early

HOW CAN YOU PREVENT IT?

Lifestyle changes

- Diet, especially reducing sugar and salt
- Increase exercise/physical activity and weight loss
- Reduce risk factors for linked diseases e.g. high blood pressure
- Stop smoking

- 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

HOW IS IT TREATED?

Lifestyle changes are just as important if you know you have diabetes, especially a good diet, exercising and losing weight

Tablets

▶ If your blood sugar is not coming down with lifestyle changes you may be started on tablets e.g. metformin or drugs to help your blood pressure and cholesterol

Insulin

▶ If it is still not controlled you may have to have injections of insulin

HOW IS IT TREATED?

- The aim of these treatments is to get your blood sugar back down to a normal level
- If you manage this the risk of complications is a lot lot lower
- You should also see your doctor/nurse regularly to have checks for your blood sugar levels and complications
- If you start medications it is important to take them regularly or they do not work

QUESTIONS

- 1. What is diabetes (what is too high and what is too low)?
- 2. What are 5 risk factors for diabetes?
- 3. Name 5 organs which can be affected
- 4. Give 3 important changes to diet to prevent/help treat diabetes
- 5. What symptoms might you have with diabetes?