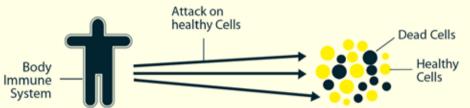
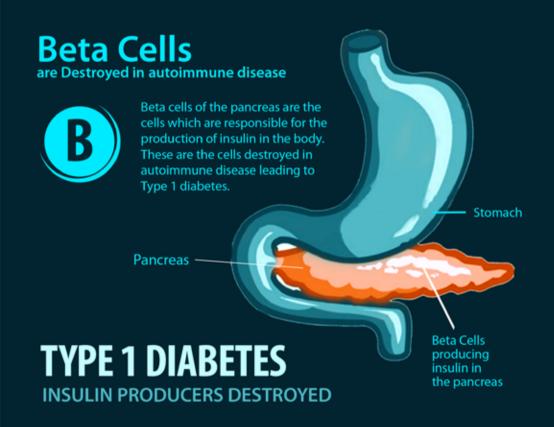
ABCs OF DIABETES DIABETESYOUTHCARE - GHANA

Autoimmune disease occurs when the body's immune system mistakingly attacks and destroys healthy cells. In Type 1 diabetes the body destroys the cells which produce insulin.

AUTOIMMUNE DISEASE The Destruction of Healthy Cells





Carbohydrates

Major Energy producing food group in the body

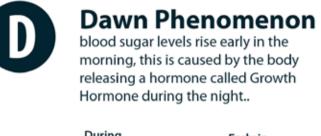


Carbohydrates are the major food group which provides energy to the oody. Breakdown of the carbohydrates are responsible for blood glucose levels





ABCs OF DIABETES DIABETESYOUTHCARE - GHANA











Fructosamine

Test of previous blood sugar level



this is a blood test which gives an average blood sugar level of the previous 2-3 weeks. It is similar to the HbA1C which gives an average of the previous blood sugar over 120 days.

AVERAGE BLOOD SUGAR LEVEL



ABCs OF DIABETES

DIABETESYOUTHCARE - GHANA

This is the basic unit of carbohydrates.

Glucose is one of the primary molecules

which serve as energy sources for plants

and animals. Normal levels of glucose in

the blood range from 3.9 to 6.9mmol/l. Abnormally high levels of glucose in the

HbA1C (Glycated Haemoglobin)

<6.5%

times a year in a person living with diabetes.

Insulin

this is a hormone produced by the beta cells of the pancreas.

It is responsible for opening

channels in the cells for the uptake of glucose into the

cells for energy production.

IT IS A PROTEIN

INSULINGETS

DESTROYED

WHEN HEATED

Defects in either insulin production or function result in diabetes mellitus.

OR FROZEN

This shows the average blood glucose of a person over the previous 2-3 months. It uses the principle of sugar molecules which bind to red blood cells in the blood. A normal HbA1C should be <6.5%. Levels

above this are diagnostic of diabetes or indicate poor control of blood

glucose levels in a person with diabetes. HbA1C should done 2 to 3

body result in the disease known as

It is also sometimes called dextrose.

Glucose

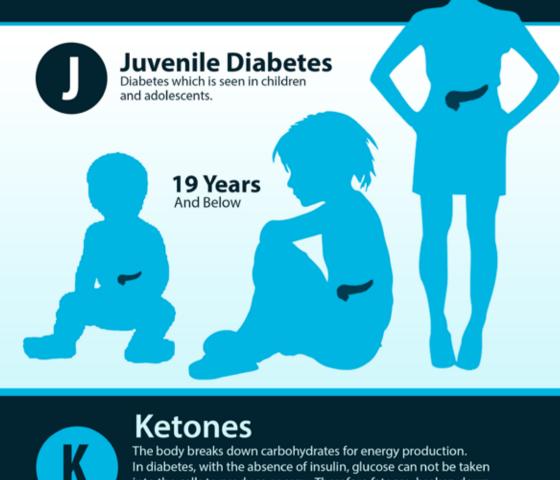
Diabetes Mellitus

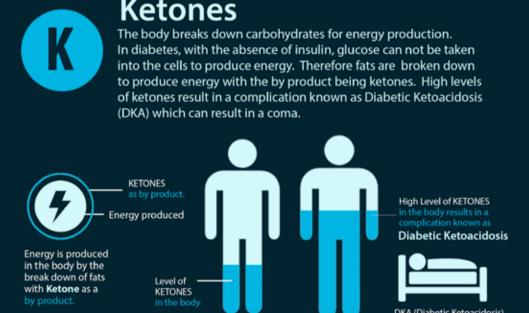
DEXTROSE serves as Energy

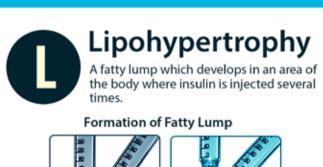
Source for plant and animals

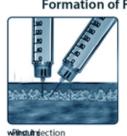
OUTHCARE















DIABETESYOUTHCARE - GHANA **©** 0503979411 / 0266664846

ARE YOU IN YOUR

TEENS...20s or 30s

living with Diabetes or do you know any

Diabetes? THEN JOIN DIABETES YOUTH

young one living with Diabetes? Do you

want to meet other people living with

CARE FOR SUPPORT AND NETWORK.

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DUTHCARE info@diabetesyouthcare.org









6.9

Diabetes Mellitus

2-3 Times

Annually

is caused when the level of glocuse in the blood exceeds 6.9mmol/l. The abnormal high level of glucose in the body causes this disease.

DiabetesYouthCare

info@diabetesyouthcare.org

ABCs OF DIABETES

DIABETESYOUTHCARE - GHANA



Maturity Onset Diabetes of the Young (MODY) Maturity-Onset Diabetes of the Young or MODY affects **1-2%**

of people with diabetes, although it often goes unrecognised.

The 3 main features of MODY are









one generation to the next



diet or tablets and does not

Non Insulin **Dependent Diabetes**

Non insulin dependent diabetes- former name given to type 2 diabetes. It is caused by the combination of resistance to insulin action, inadequate insulin secretion, and excessive or inappropraite glugacon secretioin. In this type of diabetes, the person is managed on diet and oral medication to control the

Former name for DIABETES





Blood Sugar Controled By

Oral Medication

Oral Glucose Tolerance Test (OGTT)

This is the gold standard in diagnoses of diabetes. Person fasts overnight (at least 8 but not more than 16 hours). Blood is first taken for **fasting plasma glucose** (**FPG/FBS**). After FBS sample is taken, the person takes in 75 grams of glucose orally (100 grams for pregnant women).

Blood samples are taken to measure the blood glucose. Results: 2 hours after oral glucose



Blood Sample







Impaired glucose

>11.8mmol/l of Glucose in the Blood Diabetes Mellitus



Polyuria, Polydipsia & Polyphagia

Polyuria: excessive urination, Polydipsia: excessive thirst Polyphagia: excessive hunger. Combination of these 3 is one of the major symptoms of Diabetes Mellitus







Excessive Thirst



Excessive Hunger

Rapidly acting Insulin Type of insulin with onset of action in 15 minutes, peak in 30-90 minutes with a duration of action between 3-5 hours. Examples: aspatate, glulisine, lispro







Saccharin

Saccharin is an artificial sweetener with effectively no calories and is about 300 times as sweet as table sugar, but has a bitter or metallic taste. It is therefore used as replacement sugars in people living with diabetes as it does not increase ones blood sugar level. Examples include Aspartame & Sucralose









ABCs OF DIABETES

DIABETESYOUTHCARE - GHANA

Target Range

hypoglycemia (low blood sugar)

My Personalized Blood Glucose **Level Values For** Specific Medical

Conditions

It is in a range such that it will prevent Diabetes Complications

mmol/l

3.9 - 6.9

Personalized values for blood glucose levels that a patient together with their health professional establish as reasonable to aim for. These targets

are individualized for specific medical conditions. Blood Glucose targets

My Target Range

Units of measurement

of blood glucose (sugar)

levels-3.9 to 6.9. In the United States of America measured in

milligrams per decilitre (mg/dl) normal-70 to 125 [1mmol/l=18mg/dl]

mmol/l

3.9 - 6.9

(VLDL) Cholesterol

increased risk of high blood pressure and stroke

People living with diabetes must check

their cholesterol levels every year.

High VLDL

1mmol/l > 18mg/dl

Very Low Density Liproprotein

here are several types of cholesterol, each made up of lipoproteins and fats. Each type of lipoprotein contains a mixture of cholesterol, protein and a type of fat (triglyceride), but in varying amounts. VLDL contains the highest amount of triglyceride. Because it contains a high level of triglyceride, having a high VLDL level means you may have an increased risk of heart diseases. Higher amounts and large VLDL particles are also associated with an

n Africa & Europe, units is in millimoles per litre (mmol/l) normal

should be in a range that would prevent life-threatening diabetes complications such as diabetic ketoacidosis, but also keep the patient safe from severe

mg/dl

70 - 125

ABCs OF DIABETES DIABETESYOUTHCARE - GHANA

Wound Care

Reporting of wounds to the health centre for proper care is important in people living with diabetes. Wounds must be washed immediately and bleeding secured as much as possible and then sent to a health facility for proper care. Improper care of wounds especially of the foot in people living with diabetes result in







Report to the **Health Centre** for Proper Care. This is very important for people living with Diabetes.



Amputation especially of the foot result in amputations. Give proper care to foot wounds.



Xylitol

(ylitol is a carbohydrate found in the birch tree and several kinds of fruit. Xylitol is a sugar-free sweetener added to some foods. It's nearly as sweet as sucrose, but has fewer calories. **People living with diabetes** sometimes use xylitol as a sugar substitute. Blood sugar levels stay at a more constant level with xylitol than with sucrose or regular sugar. This is because it is absorbed more slowly by the body.



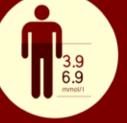








foods. **Xylitol has fewe**i



Constant Blood Sugar Levels



Yeast Infection

A jargon phrase used to describe a vulvovaginal infection usually caused by a fungus. Women who have this infection may feel itching, burning when urinating, and pain, and ome women have a vaginal discharge. Yeast infections can occur more frequently in women







Itching, Pain, Burning

Occurs more in women with uncontrolled Diabetes.



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DIABETES

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