

Name:

Date:

**Diabetes Specialist Dietitian:** 

Contact number:

**Hospital Site:** 

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#### Patient information

# **Guide to Carbohydrate Counting**

A brief guide for people with Type 1Diabetes

**Nutrition and Dietetics Department** 

**Introduction:** Carbohydrate (CHO) counting involves working out how much total CHO is in a meal or food and then calculating how much insulin will be needed for that total meal.

## **Advantages of CHO counting**

By matching the dose of insulin to the amount of CHO in a meal you can:

Improve your diabetes control

Enjoy meals out

Enjoy a variety of meals

Eat large or small meals

Reduce Hypoglycaemia

Avoid feeling guilty about eating sweet foods

#### **Disadvantages of CHO counting**

Apart from putting some time and effort in at the beginning and doing a few extra blood tests, once you are up and running there are not really any disadvantages.



# CHO counting....What you need to know?

What CHOs are

Yam

Fufu

Cassava

Plantain/Green banana

- How to count CHOs
- How to read food labels
- The relationship between CHO, blood glucose and Insulin
- How to work out your insulin to CHO ratio
- How to work out and use a correction dose

## What is Carbohydrate?

CHOs are nutrients that are found in food and drinks. When CHOs are digested, it breaks down into glucose which then moves into the bloodstream. **CHOs are found in the following types of food:** (this is not a comprehensive list)

Starchy CHO	Sugary CHO	
Bread	Sugar	
English muffins/ Bagel	Jam	
Pitta/ Naan bread	Marmalade	
Chapatti/Tortillas	Honey	
Croissant/ Crumpet	Syrup	
Dumpling/ Yorkshire puddings	Sweets	
Pasta/ Spaghetti	Chocolates	
Noodles	Sugary drinks; fizzy and squash	
Rice	Jelly	
Couscous	Fresh, dried and frozen fruit	
Breakfast cereals (all types)	Pure fruit juice	
Potatoes	Milk	

#### How to read nutritional labels

In addition to having the list of CHO portions you can also find out how much carbohydrate is in a food by reading the nutritional information on the food label. Always "round off" to the nearest 5g CHO.

Example a label from a readymade Lasagne pack size = 800g

Nutritional Information	Per 10 produc	•	
Energy	148 K	Kcal 592Kca	al
Protein	6.0	6.0g 24.0g	
Carbohydrate	130	g 52g	
Of which sugars	3.0	g 12.0g	
Of which starch	100	10g 40g	
Fat	8.0	g 32g	

#### **Per Serving**

This label gives you information **per serving** which is  $\frac{1}{2}$  of the pack (400g) therefore a serving will provide 52g CHO which can be rounded off to 50g CHO.

# **Per 100g**

You can also work out how much is in a serving by looking at the "per 100g" section. The weight of the whole Lasagne is 800g. By eating ½ of the pack you would know you were eating 400g. This pack contains 13g CHO per 100g.

Therefore in 400g there would be  $4 \times 13g = 52g$  which can be rounded down to 50g carbohydrate.

Remember, it is the <u>total carbohydrate</u> number you are looking at, not the sugars or starches. (Ask your Dietitian for further details on reading food labels if you want to know more)

Yoghurt (plain and flavoured)

Fromage Frais

Custard

Ice cream