

# Carbohydrate Counting Workshop

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UNDER THE STEWARDSHIP OF MARY AIKENHEAD MINISTRIES



### Workshop outline

1:00 – 1:30pm – Overview of carbohydrate counting in diabetes management

1:30 - 2:45pm – Practical learning stations (~25 minutes each):

- Eating out
- Real food measurement
- Recipe calculation

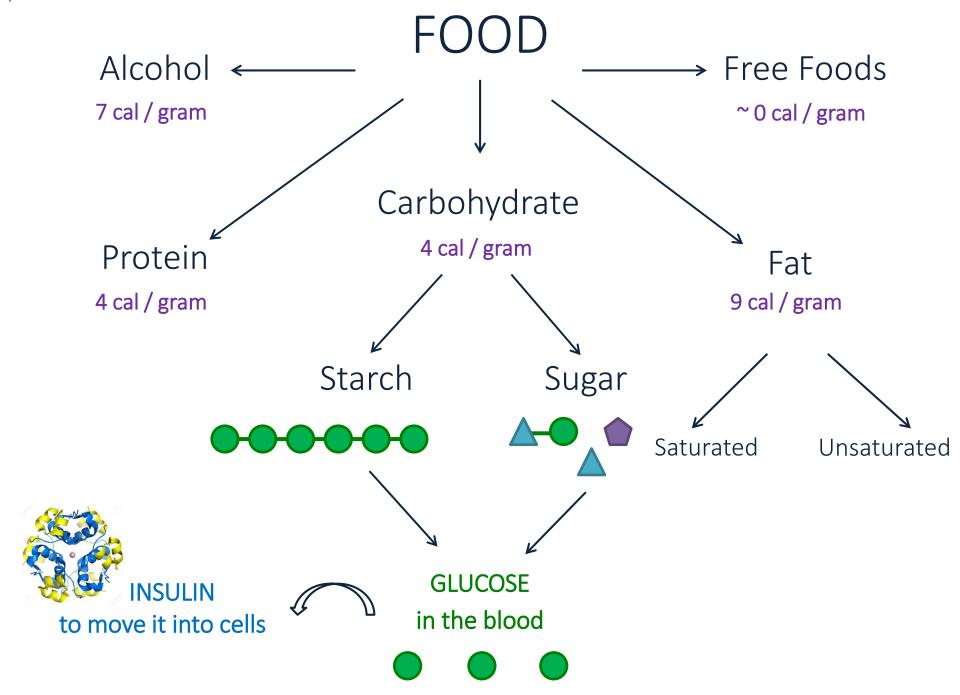
2:45 – 3:00pm – Re-adjourn as a group, questions and summary



### Carbohydrate 101

- Human populations have thrived on diets with widely varying carbohydrate quantities.
- Carbohydrate quality has a major influence on risk for numerous chronic diseases.
- Carbohydrate is the primary macronutrient that upon eating, breaks down into glucose. This glucose is then absorbed into the bloodstream.
- Glucose transport from bloodstream to cells requires insulin.
- To establish the correct dose of insulin required, you need to first work out how much carbohydrate is in your food.
- Carbohydrate counting refers to the process of calculating the amount of carbohydrate in the meals and snacks that you consume.





### CARBOHYDRATE

#### Carbohydrate foods include:

#### Starches:

Grains: wheat (pasta, noodles, couscous), rice, quinoa, buckwheat, barley, oats

Starchy vegetables: potato, sweet potato, corn, (peas, pumpkin, carrot, beetroot)

Legumes and lentils

Flour: bread, pastry, biscuits, cakes etc.

Cereal products

End point of all of these foods: GLUCOSE



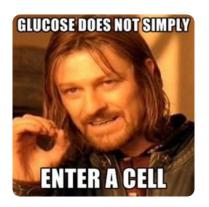
#### Sugars:

Fruit and fruit juice

Milk, yoghurt, dairy desserts

All forms of "sugar": white, brown, honey, syrups, jam etc.

Added sugars: soft drink, lollies, chocolate etc.





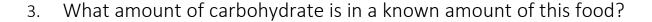
### How much carbohydrate is my food?

1. Does this food contain carbohydrate?

Yes

2. What amount of food am I going to consume?

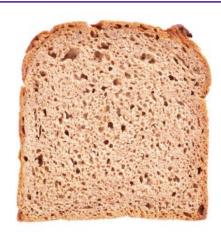
2 slices of bread



1 slice of bread = 17 g carb

4. How does this compare to my portion?

Double it = 34 g carb





### How much carbohydrate is my food?

1. Does this food contain carbohydrate?

Yes

2. What amount of food am I going to consume?

$$1 \text{ bowl} = 1 \% \text{ cups} = 196 \text{ g}$$

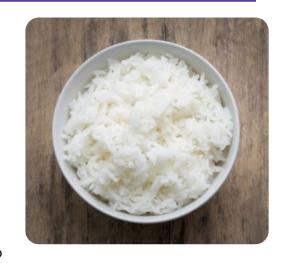
3. What amount of carbohydrate is in a known amount of this food?

$$100 g = 36 g carb$$



- $C \div R \times M$
- C Carb amount in reference quantity
- o R Divided by reference quantity
- o **M** Multiplied by quantity of my serve

```
36 \div 100 \times 196
= 70 g carb
```





### How much carbohydrate is my food?

1. Does this food contain carbohydrate?

Nutrition knowledge

2. What amount of food am I going to consume?

Measurement: weight / spoonfuls / cups

3. What amount of carbohydrate is in a known amount of this food?

Carbohydrate reference guide

4. How does this compare to my portion?

Maths skills / calculator



### Carbohydrate Counting Reference

#### Apps:



Control My Weight (Calorie King) iOS

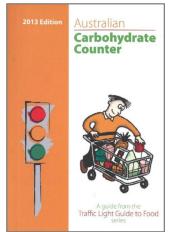


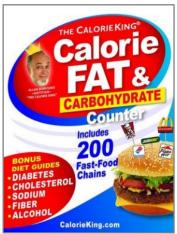
Australian Carb Counter (Traffic Light Guide) iOS Android



iOS
Android

#### **Books:**





#### Website: www.calorieking.com.au



#### Food labels:



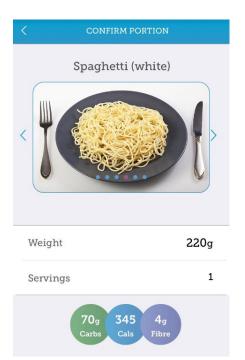
Carbs & Cals

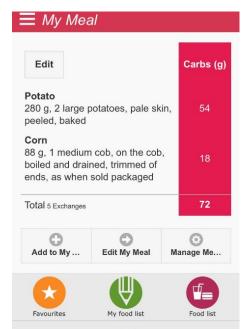


or type in your portion weight (g)

#### Control My Weight







#### Australian Carb Counter



### Why carb count?

- Carbohydrate counting enables:
  - o Flexibility with food choices and timing of meals
  - o Accurate insulin dosing for food
  - o Optimised blood glucose levels, especially after meals
- Would this be easy? Every meal, every day?



## Practical Learning Stations

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Questions?

Comments?

Insights?