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## CARBOHYDRATE COUNTING ASSESSMENT

Before you begin multiple daily injections（MDI）or insulin pump therapy，you need to become familiar with advanced carbohydrate counting．For MDI and pump therapy，you will be calculating an insulin dosage based on an insulin－to－carbohydrate ratio；therefore，you must have an accurate estimate of the＂available carbohydrates＂in the meal you will be eating．

Please email the completed assessment to pumpeducation＠cw．bc．ca using the button above．To complete this assessment，you can use different tools：
$\checkmark$ apps and or websites，e．g．Calorie King ${ }^{\circledR}$ ，MyFitnessPal，or Nutritionix
$\checkmark$ BCCH Diabetes Clinic Food \＆Nutrition handouts
$\checkmark$ food labels
$\checkmark$ Diabetes Canadas＇s Beyond the Basics poster
$\checkmark$ calculator

My child＇s name：
（1）Basal insulin is（choose all that apply）：A．Given with meals
B．Background insulin
C．Given to correct high glucose levels
D．Starts working within 10－15 minutes
（2）Bolus insulin is（choose all that apply）：A．Given with meals
B．Background insulin
C．Given to correct high glucose levels
D．Starts working within 10－15 minutes
（3）Which of the follow is an appropriate way to treat a low blood sugar（using a 15－gram treatment option）？Choose all that apply：
$\square$ A．3－4 Dex4® glucose tablets
B．A fun－sized bag of Skittles®（15 pieces）
C．$\frac{1}{2}$ of a regular－sized chocolate bar
D．$\frac{1}{2}$ cup（ $4 \mathrm{oz}, 120 \mathrm{~mL}$ ）of orange or apple juice
E． 1 scoop of vanilla ice cream（ $\frac{1}{2}$ cup， 135 mL ）
F． 1 tablespoon（ 15 mL ）of honey
(4) Which of the following vegetables would be less than 15 grams of carbohydrates if you eat 1 cup or less? Choose all that apply:
A. Carrots
B. Celery
C. Peas
D. Broccoli
E. Tomatoes
(5) Which of the following foods, if consumed without any other foods, will raise the blood sugar the SLOWEST? Choose one:A. White rice
B. Regular pop
C. White spaghetti, al dente (firm)
D. White bread
E. Whole wheat spaghetti, al dente (firm)
(6) Which of the following foods, if consumed without any other food, will raise the blood sugar the FASTEST? Choose one:
A. White rice
B. Regular pop
C. White spaghetti, al dente (firm)
D. White bread
E. Whole wheat spaghetti, al dente (firm)
(7) Calculate the carbohydrate amount/count for the following foods (please show your work).
A. 2 cups of strawberries: $\qquad$
B. $116-0 z(480-\mathrm{mL})$ bottle of Snapple ${ }^{\circledR}$ Lemon Iced Tea: $\qquad$
C. 3 Oreo® cookies: $\qquad$
D. $1 \frac{1}{2}$-cup $(375-\mathrm{mL})$ glass of $2 \%$ milk: $\qquad$
E. McDonalds ${ }^{\circledR}$ 4-piece Chicken McNuggets ${ }^{\circledR}$ with small fries: $\qquad$
(8) Approximately how many grams of carbohydrates are in the following meal? Choose one: 2 scrambled eggs, 2 sausages, 2 slices of whole wheat toast, 1 cup of $2 \%$ milk, 2 tablespoons of regular blueberry jam.
A. 15 g
B. 30 g
C. 45 g
D. 60 g
E. 75 g
(9) Looking at the following label, how many grams of carbohydrates are in 6 crackers? Choose one:
$\square$ A. 12 g
B. 15 g
C. 18 g
D. 20 g
E. 23 g

| Nutrition Facts |  |  |  |
| :---: | :---: | :---: | :---: |
| Per 4 crackers (20 g) |  |  |  |
| Amount |  | \% Daily Value |  |
| Calories 90 |  |  |  |
| Fat 2 g |  |  | 3 \% |
| $\begin{aligned} & \text { Saturated } 0.3 \mathrm{~g} \\ & + \text { Trans } 0 \mathrm{~g} \end{aligned}$ |  |  | 2 \% |
| Cholesterol 0 mg |  |  |  |
| Sodium 90 mg |  |  | 4 \% |
| Carbohydrate 15 g |  |  | 5 \% |
| Fibre 3 g |  |  | $12 \%$ |
| Sugars 1 g |  |  |  |
| Protein 2 g |  |  |  |
| Vitamin A | 0 \% | Vitamin C | 0 \% |
| Calcium | 2 \% | Iron | $8 \%$ |

From: fact-fiche-eng.pdf (canada.ca)
(10) Using the following label, how many grams of carbohydrates are in $1 \frac{1}{2}$ cups of cereal only? Choose one:

|  | A. 39 g |
| :---: | :---: |
|  | B. 41 g |
|  | C. 47 g |
|  | 52 g |
|  | 62 g |



From: Understanding Food Labels in Canada - Unlock Food
(11) Approximately how many grams of carbohydrates are in $1 \frac{1}{2}$ cups of cooked, long-grain white rice? Choose the closest answer:
A. $45-50 \mathrm{~g}$
B. $40-44 \mathrm{~g}$
C. $30-35 \mathrm{~g}$
D. $60-65 \mathrm{~g}$
E. 65-70 g

Part 2: The insulin-to-carbohydrate ratio is 9 . How many units of rapid-acting insulin for the rice? Choose one:
A. 4.5 units
B. 5 units
C. 7.5 units
D. 6 units
E. 6.5 units
(12) A lemon loaf recipe (which makes 12 servings or slices) calls for 1 cup of white sugar and $1 \frac{1}{2}$ cups of white flour (as well as eggs, oil and other non-carb-containing ingredients).

Part 1: Calculate the grams of carbohydrate in 1 slice of lemon loaf. Choose one:
A. 12 g
B. 18 g
C. 29 g
D. 37 g
E. 45 g

Part 2: The insulin-to-carbohydrate ratio is 10 . How many units of rapid-acting insulin for 1 slice? Choose one:
A. 2.5 units
B. 3 units
C. 3.5 units
D. 4 units
E. 4.5 units

