Carbohydrates and Physical Activity Food - Fuel - Fun

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Hydration with water is essential. As physical activity intensity and duration increases, consuming adequate amounts of carbohydrates is critical for optimal health and performance.



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High intensity and long duration activities require adequate amounts of carbohydrate, determined by body weight and the time of consumption.

Timing	Before: 2-4 hours A meal* with 1-4 grams of carbohydrate per kg of body weight *May also include some protein and fat		Before: 1-2 hours 1-4 grams of easily digested carbohydrate per kg of body weight		During: 1-2.5 hours 30-60 grams of carbohydrate per hour with electrolytes 500 ml		After A meal* with 1-1.2 grams of carbohydrate per kg of body weight *Including some protein and fat	
Amount								
Sample foods	2 cups	1 cup	1 fruit	1 cup	1 bottle		1 medium bowl	1 medium plate
Carbohydrates	80 grams	40 grams	30 grams	30 grams	30 grams		80 grams	50 grams

Did you know?

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Choose your favourite sports drink to hydrate and refuel, or make your own!

Refresher: -2 cups water -2 cups juice of choice -pinch of salt Consumption During Long Physical Activity Bouts

Those exercising more than 2.5 hours could consume up to 90 grams of carbohydrates per hour with some easily digested protein Different Fueling Strategies Work for Different People

Talking to a dietitian can help you choose foods and amounts that work for your physical activities of choice

Find activities that are fun for you, and fuel with foods and beverages as needed!

You Tube For more information, visit sugar.ca

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References: Kanter. High-Quality Carbohydrates and Physical Performance: Expert Panel Report. Nutrition Today. 2018; Thomas et al. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: nutrition and athletic performance. J Acad Nutr Diet. 2016; Sawka et al. American College of Sports Medicine position stand. Exercise and fluid replacement. Med Sci Sports Exerc. 2007.