

www.sportmedbc.com

Eating and Drinking for Recovery

January 2005

By: Dallas Parsons, RD/Sport Dietitian

Why is eating and drinking after training important?

During training or competition, your body loses fluids and uses a lot of muscle glycogen. Carbohydrates and water are what the body needs to replenish. If an athlete is dehydrated and glycogen-depleted, their body cannot recover and perform well during subsequent training.

When should I eat for optimal recovery?

It is recommended that athletes consume food and fluids within 30 minutes of completing exercise because blood flow to the muscles is greater and muscle cells are more insulin-sensitive. At this time the body is able to maximize its ability to replace glycogen - this is especially important when athletes train more than once a day.

What should I eat?

Athletes should consume carbohydrate-rich foods (see list on back of sheet) that they enjoy, and emphasize fluid replacement. It doesn't matter whether you prefer liquids or solid foods. Foods with a high glycemic index can be absorbed more quickly and recent studies have shown that including some protein (as little as 10 grams) after exercise may enhance glycogen re-synthesis by aiding the stimulation of insulin. After resistance training, protein may also help stimulate muscle growth due to the release of insulin and growth hormone.

How much should I eat?

It is recommended that athletes consume 1.0-1.5 grams of carbohydrate per kg of body weight immediately after exercise, and then follow that with an additional 1.5-2.0 grams of carbohydrate per kg at a meal or snack within 2 hours.

Example: A 160lb (160 x 0.45 = 72kg) athlete

Timing	Food & Amount	Carb (g)	Protein (g)	Fluids (ml)
Within 30 minutes	500 ml Gatorade	28	0	500ml
post-workout	500 ml water	0	0	500ml
(goal 72-108g carb)	PBJ sandwich:			
	2 tbsp jam	26	0	
	2 sl. whole wheat bread	24	4	
	2 tbsp peanut butter	6	9	
	Totals:	84 g	13 g	1 litre
1 hour later at a	Deli turkey 6" sub sandwich	40	16	
meal	with	1	0	
(goal 72-144g carb)	1 tbsp light mayo	2	3	
,	1 slice cheese	57	6	
	pretzels (70g bag)	43	0	300ml
	cranberry cocktail (300ml) water (340ml)	0	0	340ml
	` Totals:	143 g	25 g	640ml

🌄 Take home message:

- Commit to establish a regular habit of eating & drinking immediately after training.
- Choose carbohydrate-rich foods that you like and drink plenty of fluids.
- ☐ Include a little protein (e.g. milk or protein bar) to maximize glycogen uptake.





Eating and Drinking for Recovery

www.sportmedbc.com

Common Carbohydrate Foods for Recovery

Food	Amount	Carbs (g)
	1 medium	35
Bagel English muffin	1	27
Whole wheat bread	1 slice	13
	1	21
Hamburger bun Pancakes	2 (4" diameter)	18
Bread sticks	4 sticks	28 46
Bran muffin	1 Irge (100g)	
Rice, cooked*	1 cup	50
Pasta, cooked *	1 cup	35
Oatmeal, flavoured	1 package	26
Oatmeal, regular	1 package	19
Vector cereal	1 cup	36
Raisin bran	1 cup	42
Muslix, banana nut	1 cup	45
Low fat granola	1 cup	85
Crunchy granola bar	1 bar (46g)	16
Chewy granola bar	1 bar (28g)	23
Fig cookie	3 squares	28
Oatmeal raisin cookie	1	10
Banana bread	1 slice (60g)	33
Crackers	3-4 squares	15
Raisins, dried apricots	½ cup	59
Applesauce	1 cup	60
Grapes	1 cup	37
Fruit cocktail	1 cup	28
Banana	1 medium	27
Baked potato	1 large	50
Mashed potato	1 cup	35
Sweet potato	1 large	28
Corn	1 cup	42
Green peas *	1 cup	24
Chili, restaurant	1 cup	22
Soft bean burrito *	1 fast food	60
Baked beans *	1 cup	52
Split pea, lentil soup *	1 cup	28
Milk ©	1 cup	12
Pudding, chocolate	1 cup	60
Low fat fruit yogurt *	1 cup	44
Fruit smoothie *	24 oz	95
Gatorade ©	16 oz	28
Powerade ©	16 oz	38
Orange or apple juice ©	1 cup	28
Cranberry cocktail ©	1 cup	36
Cola, regular ©	1 cup	26
Powerbar	1	41
Clif Bar	1	44
Meal replacement drink © *	1 can (240ml)	41
Mear replacement units	r ı	



To make eating for recovery into a habit, you need to be organized. Use these steps to get started:

- 1. Calculate the amount of carbs you need for recovery. (see over page)
- 2. Choose a food from the list that you like. Answer these questions:

Can I pack this in my workout bag? Yes or No

Will this food appeal to me after an intense workout? Yes or No

Do I need a utensil (spoon, fork) for this food and if so, will I pack it? Yes or No

Does this food and the amount I would eat provide enough carbs for me? Yes or No

Is this food affordable for me? Yes or No

If you answered Yes for all the questions, then this is a good recovery food for you.

- 3. Now repeat step 2 for three other foods so you have some variety.
- 4. Take a water bottle to practice and re-hydrate.
- 5. Plan for a regular meal or snack within 2 hours.
- denotes added benefit because also provides fluids
- * indicates low glycemic index food