# **Nutrition For Athletes**

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## • How often should I be eating?

- Food is fuel-everybody typically needs to be refueled every 3-5 hours
- As training increases, this time may become shorter

## • What should I be eating?

## • Carbohydrates

- Primary source of energy for the body
- Athletes need 55-65% of calories to come from carbohydrates
- Include them in all meals and snacks
- Make quality choices
  - Whole grains, fruits, legumes, and low fat dairy provide the most value
  - The fiber and/or protein in them provide sustained energy
  - The vitamins and minerals in them boost immunity, prevent cramping, and aid recovery
  - Simple carbs, like refined grains, fruit juices, and sugar provide quick energy that doesn't last long
- Common carbohydrate mistakes: inadequate intake, poor timing, lack of value in choices
  - Carbohydrate mistakes lead to poor performance, cravings, and bingeing

#### o Protein

- Essential for immunity, building and maintaining muscle, recovery/injury prevention
- Endurance athletes benefit from 12-20% of calories from protein
  - This if typically met by food choices-most endurance athletes don't need supplements
- Include at all meals and at snacks when going a longer time between meals
  - Example-lunch at noon, dinner at 7pm, your 4pm snack should have a protein along with the carb (crackers and cheese, PB and apple, etc)
- Make lean choices and include plant based sources
  - Round or loin cuts of beef/pork, poultry, seafood, wild game, nuts, seeds, legumes, eggs, dairy products
  - Legumes are a great 'runner' food-they provide both complex carbs and protein plus they're quick and easy
  - Common Mistakes: intake too high-often in place of carbs; poor timing; believing you need more

#### o Fats

- Transport and store vitamins, maintain cell membranes, assist with metabolism, maintain healthy skin and hair, and cushion joints
- up to 30% of calories may come from fats
  - make healthy choices: nuts, seeds, olives, avocado, olive/canola oils
  - they add up fast-spread small amounts throughout the day
- Common Mistakes: too little fat in the diet; too much saturated or trans fats

### • What should I eat before and after workout

- Less than 1 hour before: carbohydrate-fruit, granola bar-something simple and easy to digest
- 2-4 hours before: follow meal planning as above-carb, protein, small amount of fat, nothing extremely high in fiber
  - Cereal with fruit and milk; Powerbar; crackers and cheese
- After: first focus is carbohydrate within the hour after long run
  - If you don't feel like eating, use sports drinks or chocolate milk
  - Back to regular meal schedule within 2 hours
- Common mistake: running on empty

### • How do I fuel my long workouts?

- Whatever you ate should be enough for the first hour
- o 30-60g carbs in the second hour and every hour thereafter
- Common mistake: not supplementing or doing so incorrectly; why put calories in when I'm trying to burn them off

## • What about fluids?

- Urine should be pale to clear in color; sip throughout the day
- Per American College of Sports Medicine: 16-24oz 2-3 hours before, 6-12oz just before start; 2-4oz every 15-20 minutes during; 24oz for every kilogram (2.2#/kg) lost after OR drink enough so you have to urinate within the hour after completion
- Sports drinks are important after the first hour of endurance or in high heat workouts-the electrolytes they provide replace what is lost in sweat
- Be aware of symptoms of dehydration: throbbing headache, dizziness, severe fatigue, restlessness, confusion, nausea/vomiting, bloated stomach, seizure
- Common Mistake: going too long; incorrect timing; refusing to carry it with you; not wanting to take time to stop; only using water for long runs

	1 hr, 50 min <sup>1</sup> / <sub>2</sub>	3:30 Marathon	1 hr, 45 minute Sprint	2 hr, 45 minute
	Marathon		Triathlon	Olympic Triathlon
0-60min	Min 18 oz water	Min 18 oz water	Min 18 oz water	Min 18 oz water
60-120min	8 oz Gatorade (14g) +	8oz Gatorade (14g) 10	8 oz Gatorade (14g) +	Power Bar (~45g); 8oz
	1 Gu packet (25g) +	oz water + 6 Clif Shot	1 Gu packet (25g)	Gatorade (14g)
	12oz water	Bloks (48g)		
120-180min	n/a	6 large orange slices	n/a	1 pkg Sport Beans
		(~30g) + 16oz		(25g); 8oz Gatorade
		Gatorade $(28g) + 8$ oz		(14g)
		water		
180-210min	n/a	1 Gu packet (25g)	n/a	n/a

#### **Possible Scenarios**

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