Timing and food composition is everything when it comes to exercise, training and competition, especially when you are looking for optimal results. Nerves, a sensitive stomach, and time restrictions can often make it challenging when trying to get the nutrients you need. Here are a few ways to help your body get the fuel it needs, even with the challenges you may face.

Pre-Exercise/Competition Goals:

- Consume a carbohydrate rich snack or meal before exercise to top off muscle glycogen stores. With precompetition jitters, liquid meal replacements may be a better choice than whole foods if needed.
- Include small amounts of protein in your pre-exercise meal(s). Protein helps build and repair muscle tissue. Adequate protein before exercise may help reduce post-exercise muscle soreness.
- Choose pre-exercise meal(s) that are low in fat and fiber to ensure optimal digestion and to avoid stomach upset.

Foods & Fluids 3-4 Hours Before Exercise or Competition	Foods & Fluids 30-60 Minutes Before Exercise or Competition	
 Peanut butter and honey on toast + instant breakfast drink 	Sports drink	
 Fruit and yogurt smoothie + low-fat granola 	• Sports gel, sports beans or gummies, sports bar	
 Oatmeal with brown sugar and almonds + skim milk + banana 	Piece of fruit	
 Low-fat cottage cheese + apple butter + crackers + fresh grapes 	Jam sandwich	
 Lean hamburger on bun with lettuce & tomato + side salad + yogurt-fruit parfait 	Dry cereal	
 Turkey and Swiss sandwich + fruit + sports drink 	Pretzels or granola bar	
• Low-fat tuna melt sandwich + fruit cup + fat-free yogurt	• Water	

Takeaway Tips:

- Experiment with foods and drinks during practice and lower level competitions to determine the best timing and your tolerance for pre-exercise foods.
- Practice! Figuring out what works best for you will boost confidence in eating before exercise.
- Fuel muscles early with easily digestible carbohydrate-rich foods and beverages for training or competition later in the day.

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During Exercise/Performance Goals:

- Optimal fuel blend: Nutrition during prolonged exercise requires the proper mix and timing of fluids, carbohydrates, and electrolytes. Too little fluid or too much carbohydrate can result in cramping and other intestinal problems.
- Prolonged exercise is defined as an event that lasts more than 60 min.
- Adequate fluids to replace sweat losses: Prevent excessive fluid loss (>2% body weight lost as fluid). Dehydration can cause fatigue and impair performance.
- A plan tailored to YOUR needs: A nutrition plan based on your needs can help maximize performance. Experiment with sport drinks and foods for different types of workouts and competitions. Record your tolerance to learn what works best.

Foods & Fluids During Exercise or Competition		
 Sports drink that contains carbohydrate and electrolytes 	 Easily digestible carbohydrate rich foods during endurance events 	
Other sport foods (gels, gummy chews)	• Banana	
 Bite-sized pieces of low-fat granola or sports bars 	 Bread or roll with jam or honey 	
• Water	Fig Newtons	

Carbohydrate rich gels or foods should be consumed with fluids to speed transport to muscles

Takeaway Tips:

- Start with a full "tank". Begin exercise well hydrated and with adequate muscle fuel (carbohydrate).
- Try new products and foods during training sessions to determine the type, amount, and timing of foods and fluids that work best for you.
- Consume fluids early and consistently to replace sweat losses.

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Post-Exercise/Competition Goals:

- Restore fluid and electrolytes (sodium and potassium) lost in sweat; weigh before and after exercise and replenish what was lost.
- Replace muscle fuel (carbohydrate) utilized during practice.
- Provide protein to aid in repair of damaged muscle tissue and to stimulate development of new tissue.
- Begin nutrition recovery with a snack or meal within 30-60 minutes following practice or competition.

Rehydration Fluids	Recovery Snack Ideas	Recovery Meal Ideas
• Carbohydrate-electrolyte sports drink to replenish fluids and electrolytes lost in sweat	 Smoothie made with yogurt and frozen berries 	 Whole wheat pita sandwich with turkey and veggies + pretzels + low-fat milk
• Low-fat milk	 Sports drink (carbohydrates, electrolytes, fluid) + sports bar (carbohydrates, protein) 	 Rice bowl with beans, cheese, salsa, avocado + whole grain tortilla chips or whole wheat tortilla
Low-fat chocolate milk	 Graham crackers with peanut butter + low-fat chocolate milk + banana 	 Stir fry with lean steak, broccoli, bell peppers, carrots + brown rice

Takeaway Tips:

- If you have 2 training sessions per day or your next training session is within 8 hours, recovery nutrition is crucial.
- If you do not have an appetite following a training session, choose liquid foods that meet your recovery goals.
- Along with carbohydrate, fluid and electrolytes, protein is an important part of recovery, particularly if you participate in high intensity training sessions that damage muscle tissue (resistance training, interval sessions, etc.).

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