Nutrition and Hydration for Cross Country: Eating and Hydrating Well to Excel

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Goal: To get adequate energy in and stay hydrated during periods of highintensity and/or long duration training to maintain peak performance during competitions

Sports Nutrition Carbohydrates maintain blood glucose level during exercise and replace muscle glycogen



Before Exercise



- A meal or snack should:
- provide sufficient water for hydration
- Low in fat and fiber
- Igh in carbohydrate
- Moderate in protein
- Contain familiar foods to be well tolerated during exercise
- Be consumed 3-4 hours before exercise

Pre Workout Meals

1) Banana sandwich on whole grain bread and peanut butter 2) Whole grain



cereal with milk and fruit

3) Granola with yogurt and berries



4) Turkey Sandwich

5) Whole grain toast with 1/3 less fat cream cheese and jam



Pre-Exercise: Early morning

If the meet starts early in the morning:

- Liver glycogen is depleted over night and beginning exercise with low blood sugar is likely to lead to early fatigue
- If it is not practical to wake up to eat four hours before the event:
 - Consume small snack 30-90 minutes before
 - Eat high quality (whole grain) carbohydrates with your protein at dinner the night before
 - Have an evening snack before bed the evening before













During Exercise



- One hour or less: Water should be adequate to stay hydrated and sports drinks are ok
- One hour 90 minutes: If the training session lasts more than one hour then sports drinks are appropriate
- 90+ minutes: The rule of thumb is to get 100-200 calories per hour of exercise. This can be done with sports drinks or products such as gels, bars, or energy chews



After Exercise

 Eat carbohydrates within 30 minutes after exercise
 It is important to eat protein within 2 hours after exercise
 Avoid high-fat and highsugar food





Hydration during and after exercise

- Drink plenty of fluids before each practice (a minimum of 16 ounces 1 hour before, followed by constant sipping)
- 2. The goal during exercise is to maintain body weight
- 3. Drink sips of fluid after warm-up
- 4. Keep a water bottle with you and within view if possible



Adequate Hydration

 Before exercise
 Drink often and drink during meals.
 Carry water bottle with you during school
 Rule of thumb: color of urine can indicate hydration status During exercise
 Drink water and electrolytes beverages whenever possible during exercise

After exercise

Listen to body

It is important to replace fluids and electrolytes lost during exercise Important to avoid the

. feeling of thirst



- Athletes should consume diets that provide all the major food groups
- Restriction or elimination of any one food group can decrease your performance, energy levels and lead to vitamin and mineral deficiencies

Five Major Food Groups



- Grains: 6-12 servings
- Vegetables: 3-5 servings
- Fruits: 3-5 servings
- Milk and Calcium-rich Foods: 3-5 servings
- Meat and Legumes: 3-5 servings



Dietary Supplements

- Some recommended/safe dietary supplements include:
 - Omega 3 fish oils
 - Vitamin D (no more than 1,000-2,000 IU/day) and calcium (for women)
 - Multi-vitamin
 - Vegetarian athletes: possibly iron, B12, and Zinc

Other Supplements

Safe:Energy barsEnergy gels



Not Recommended:
Creatine
BCAA
Caffeine



Questions?

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