# JIFNEWS

A Quarterly Newsletter from the Somerset County Joint Insurance Fund featuring Safety, Health & Wellness



## THE MOST ESSENTIAL NUTRIENT: WATER

Nutrients don't only come in the form of food; water is the most important, and often most forgotten, nutrient. You can last for some time without food, but only days without water. Your lean body mass contains about 70 percent to 75 percent water, with fat containing much less; about 10 percent to 40 percent water. Because of increased muscle mass, men's and athletes' bodies contain more water than bodies with proportionately lower muscle and higher fat, such as non-athletic women, people who are overweight and people who are older.

#### Water is:

- The solvent for important biochemical reactions, supplying nutrients and removing waste.
- Essential for maintaining blood circulation throughout your body.
- The maintainer of body temperature. As you exercise, your metabolism and your internal body temperature increase.

Water carries heat away from your internal organs before serious damage occurs, which can lead to heat stroke, and even death. The heat travels through your bloodstream to your skin, causing you to sweat. As the sweat evaporates, this allows you to cool off and maintain a safe body temperature, optimal functioning and health.

Daily water intake must be balanced with losses to maintain total body water. Losing body water can adversely affect your functioning and health. Once you start feeling thirsty, you've probably lost about 1 percent of your body water and are dehydrated. With a 2 percent water loss, you could experience serious fatigue and cardiovascular impairments. It's important to note that individual fluid needs differ depending on your sweat rate, the environmental temperature, your clothing, humidity and other factors.

- 1) Drink enough water to prevent thirst.
- Monitor fluid loss by checking the color of your urine. It should be pale yellow and not dark yellow, too smelly or cloudy.
- For short-duration (less than 60 minutes), low-tomoderate-intensity activity, water is a good choice to drink before, during and after exercise.
- 4) Any time you exercise in extreme heat or for more than one hour, supplement water with a sports drink that contains electrolytes and 6 percent to 8 percent carbohydrates. This prevents "hyponatremia" (low blood sodium), which dilutes your blood and could also lead to serious impairment and death.
- Begin exercise well-hydrated. Drink plenty of fluids the day before and within the hour before, during and after your exercise session.
- 6) Avoid alcohol the day before or the day of a long exercise bout and avoid exercising with a hangover.
- 7) Consider all fluids, including tea, coffee, juices, milk and soups (though excluding alcohol, which is extremely dehydrating). The amount of caffeine in tea and coffee does not discount the fluid in them, even if they have a slight diuretic effect, according to the most recent report by the National Research Council's Food and Nutrition Board.
- 8) Eat at least five cups of fruits and vegetables per day for optimum health, as they all contain various levels of water and the all-important nutrient potassium.

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## TIPS FOR STAYING HYDRATED (CONT.)

- 9) During exercise, for those who experience high sodium losses, eat salty foods in a pre-exercise meal or add an appropriate amount of salt to sports drinks consumed during exercise. Orange juice is high in potassium. Dilute juices, such as V-8 or orange juice, 50/50 with water so that the drinks are 6 percent carbohydrate solutions (the same as sports drinks), which will empty from your stomach quicker than 100 percent juice (juices are naturally 12 percent solutions), allowing the electrolytes and water to quickly reach your heart and organs.
- 10) Following strenuous exercise, you need more protein to build muscle, carbohydrates to refuel muscle, electrolytes to replenish what's lost in sweat, and fluids to help rehydrate the body. Low-fat chocolate milk is a perfect, natural replacement that fills those requirements.
- 11) You can also replace fluid and sodium losses with watery foods that contain salt and potassium, such as soup and vegetable juices.
- 12) For long hikes, when you'll need food, dried fruit and nut mixtures contain high amounts of potassium, sodium, protein, carbs and calories — though continue to drink plenty of water.
- 13) To determine your individualized need for fluid replacement: During heavy exercise, weigh yourself immediately before and after exercise. If you see an immediate loss of weight, you've lost valuable water. Drink 3 cups of fluid for every pound lost; use this figure to determine the amount of water (or sports drink) you'll need to drink before and during your next exercise session to prevent weight/water loss in the future.

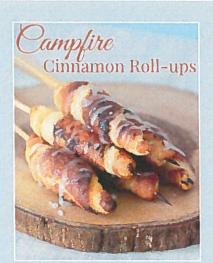


## **ARE YOU HYDRATED?**



If your urine color matches 1, 2, or 3, you are properly hydrated. Continue to consume fluids at the recommended amounts.

If your urine color is below the **RED** line, you are **DEHYDRATED** and at risk for cramping and/or a heat illness! **YOU NEED TO DRINK MORE WATER!** 



### **INGREDIENTS:**

1 package crescent rolls

1/4 cup of sugar

1 tablespoon cinnamon

Wooden skewers

#### INSTRUCTIONS:

- 1) Combine cinnamon and sugar in a small bowl.
- 2) Separate crescent rolls and wrap them around the skewer
- 3) Roll it in the cinnamon sugar mixture
- 4) Cook over campfire for 5 minutes, rotating frequently
- 5) Optional: Mix 1/4 cup powdered sugar and 2-3 tablespoons of water together to make a glaze and drizzle over cooked roll-up