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# **Maximizing Athletic Performance in the Summer Heat**

## • Preparation

#### Be aware of:

- Days with temperatures above 18°C
- Humidity higher than 50%
- Low tail winds (high tail winds are better for cooling)

### Try to wear:

- o Sun block to avoid getting burned
- Light-coloured clothing that is light and porous

### Keep in mind:

- Exercise intensity is a major contributor to body heat. Body temperature increases as exercise intensity increases this affects our ability to cool
- Plan your route with tree-lined paths for shade
- Locations to hydrate and sponge

### • Hydration

### **Before:**

o Drink up to 500 ml (2 cups) 2 hours before exercise

### During:

- Drink up to 250 ml (1 cup) every 15 minutes
- o During continuous exercise drink 200 to 400 ml per hour
- The body can only absorb up to 1 L per hour
  - Best drinks: cool water or sport drinks (they absorb rapidly)

### After:

- Drink to rehydrate as well as replenish (electrolytes), refuel (carbohydrates) and repair (protein)
  - Best drinks: Chocolate milk, Ensure, Boost, soy milk, V8 and sport drinks

# Monitoring Dehydration

 $Sweat Rate (litres per hour) = \frac{(weight before - weight after)}{length of exercise bout (hours)}$ 

 $Dehydration (\%) = \frac{(weight \ before - weight \ after)}{weight \ before} \ x \ 100$ 

 $\circ$   $\,$  Measure weight (kg) with minimal clothing – remove wet clothing and shoes  $\,$ 

• Each pound (1kg = 2.2lbs) lost during exercise represents 500 ml of fluid loss