PELOTONIA



HEAT AND HYDRATION

HEAT CRAMPS

SYMPTOMS

• Muscle Cramps

TREATMENT

- Increase fluid sports drink
- Remove from heat
- Stretch

HEAT EXHAUSTION

SYMPTOMS

- Most common among physically active individuals
- Hard to keep pedaling, weak, rapid pulse, low bp, headache, nausea, sweating, confusion

TREATMENT

- Remove from heat—Cool with fans, wet towels, etc.
- · Raise feet above heart

HEAT STROKE

SYMPTOMS

- Failure of heat triggering mechanisms
- Yes and no sweating, hot, dry skin, seizure, confusion, diarrhea
- Potential organ shutdown

TREATMENT

- Immediate medical attention
- Activate EMS
- Keep cool while awaiting EMS

HYPONATREMIA

SYMPTOMS

- > 9.5L = Hyponatremia, significant dilation of the body's normal sodium concentration
- Headache, blurred vision, excessive sweating, vomiting, swelling of extremities

TREATMENT

Activate EMS

WATER FACTS

- 76% of the brain is water
- 90% of the lungs are water
- 4–6% loss of body weight after exercise reduces ability to dissipate heat
- Athletes normally only replace 30–70% of sweat loss
- 24 hours after an injury is the most important time for hydration
- Alcohol and caffeine dehydrate

WATER REQUIREMENT IN EXERCISE

- Factors that determine water loss
 - » Severity of physical activity
 - » Environment and temperature
 - » Humidity (greater humidity, less evaporation)
- Sweating is the single most effective way to lower body temperature

BEFORE ACTIVITY

- 400-600ml (17-20 floz) 2-3 hours prior
- 200-300ml (7-10 floz) 10-20 minutes prior
- Drink to a plan rather than thirst

DURING ACTIVITY

- 200-300ml (7-10 floz) every 10-20 minutes
- A well hydrated athlete always functions at higher physiological and performance levels
- Electrolyte replacement is beneficial to help replenish water loss and prevent cramping

AFTER ACTIVITY

- Drink 1L for every 1lb of body weight lost
- Thirst should not be your only indicator to ingest liquids

TAKE HOME MESSAGES

HYDRATION

- Do not rely solely on the thirst mechanism have a plan
- Pre-activity: 400-600ml (17-20 floz)
 2-3 hours prior
- During activity: 200-300ml (7–10 floz) every 10–20 minutes
- After activity: Drink 1L for every 1lb of body weight lost