FRST Center Nutrition

Smart Hydration: Strategies for Peak Performance in First Responders



SMARTER CAFFEINE FOR ENERGY

• Time it Right:

- Use 30-60 min before demanding tasks to reduce fatigue and improve energy and alertness
- Avoid within 6 hours of sleep

Know your Limits:

- Most adults can consume ~400 mg/day (3-4 cups of coffee or 1-2 energy drinks)
 without negative effects
- Choose Wisely:
 - o Coffee, tea, low-sugar energy drinks over high-sugar or caffeinated options
 - o Options <250 mg: Celsius, Alani, Redbull
- Avoid combining caffeine with other stimulants that may increase heart strain

RECOVERY: REPLENISHMENT STRATEGIES

- Replenish Fluids First:
 - o Drink 16-24 oz of water after exercise or intense, demanding tasks
- Replace Electrolytes:
 - o Sodium, potassium, and magnesium are necessary after heavy sweating
 - After high heat or fire, heavy exercise
 - Brands vary on electrolyte content (~200 1000mg)
- Recovery Boost:
 - o Consider carbs and protein to help recovery after demanding tasks
 - Low-sugar sports drinks
 - Protein drinks with 20-30 grams protein

SUGAR SWAPS

- Read Labels:
 - Aim for <5-8 grams of added sugar per serving
- Everyday Use:
 - o Choose water, infused water, or unsweetened options over soda/sweet tea
- Save the Sports Drinks:
 - o Higher carb drinks only necessary for long and/or intense tasks or exercise
- DIY Option:
 - Water + citrus (lemon, orange, lime) + salt = cheap and easy option

HYDRATION TOOLKIT

- Refillable Water Bottle
- Low-Sugar Electrolyte Packets (LMNT, Ultima, LiquidIV, Gatorade Zero, Thorne)
- No or Low Sugar Caffeine Source