

PERFORMANCE NUTRITION

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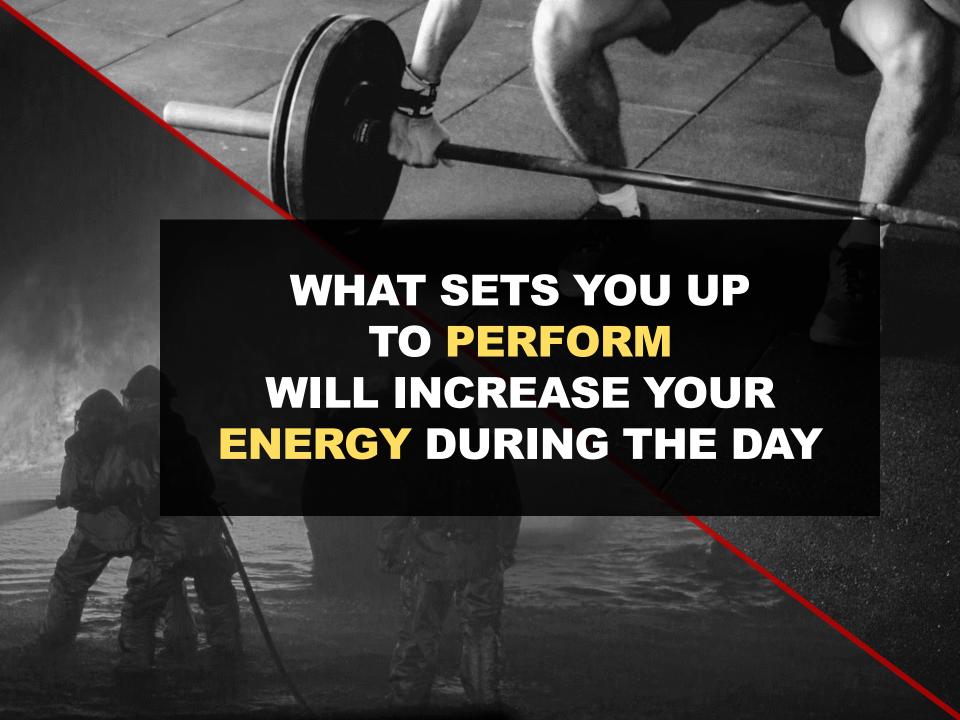
Registered Dietitian

@Rescue.RD
MS Sports Nutrition

Personal Trainer & Strength Coach

2017: Montgomery County Fire & Rescue (civilian)

2021: Fairfax Fire & Rescue (civilian)



PERFORMANCE NUTRITION









Regular, balanced meals

Moderate-high carbs (40-60%)

Properly timed caffeine

Prioritize sleep off-shift & napping

HYDRATION



EXERCISE

8-16 oz per hour

Moderate-high exertion

May have AC

Sweat wicking clothing



VS FIREGROUND

50-70 oz per 30-45 minutes

High exertion
Extreme heat
Heavy clothing that holds heat to
the body (no sweat evap)
Arrive dehydrated

LOSE WATER 5X FASTER

The sugar in sports drinks is designed to sustain performance by replacing burned fuel

Nonstop calls, Outdoor Temp 85°F or more Exercise longer than 60-90 minutes

Fireground Operations >60minutes



12-24 oz sports drink per hour



24-40 oz sports drink per hour



48-64 oz sports drink per hour



Helps absorb and retain fluid

Boosts blood plasma volume = less heart strain

↑ sweat + ↑ calorie expenditure = ↑ sodium needs

Sports drink + salty snacks 1/3-1 salt packet Drip Drop, Liquid IV

Per 8 oz sports drink

Carbs: 12–24 g

Sodium: 82–163 mg Potassium: 18–46 mg



ORAL REHYDRATION SOLUTIONS

DripDrop, LiquidIV, BioSteel etc.

Pre-Hyponatremia

Overhydrated

Salty snack REQUIRED before training

Pretzels
Salty peanuts or trail mix

NO water or DripDrop

Protocol developed by Fernando Montes (LAFD)

Well Hydrated

No protocol needed

1 DripDrop might be beneficial (16 oz total)

1 HYDRATED 2 HYDRATED

Minimal Dehydration

1 DripDrop prior to training (16 oz total)

HYDRATED DEHYDRATED

Significant Dehydration

1 DripDrop immediately +
1 DripDrop in 30 minutes (32 oz total)

Dehydration

Serious

Hold out of morning PT to allow time for rehydration

1 DripDrop immediately

+

1 DripDrop in 30 minutes

+

1 DripDrop (48 oz total)

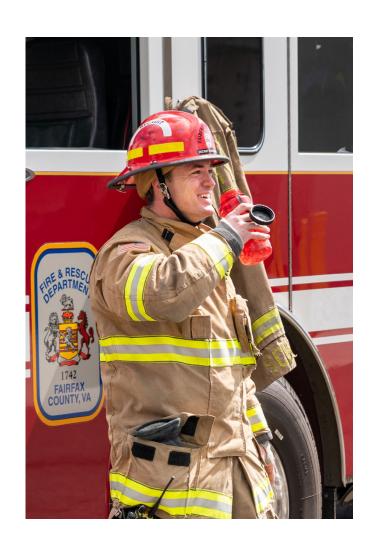
7 SEVERELY DEHYDRATED

8 SEVERELY DEHYDRATED



POST FIRE GOALS

- Goal: recover FULLY in case of another alarm
- Replace:
 - Fluid 16-24 oz per pound lost
 - Rehydrate
 - Protein 20-25 g
 - Maximize muscle protein synthesis
 - Carbs 50-100 g
 - Restock muscle glycogen stores



POST FIRE GOALS

- Large Smoothie
 - Whey protein + 1 cup berries + 1 cup milk + ice
- Chicken Wrap or Sandwich (or two)
- 7 eleven
 - Fruit, Cliff/Fig Bar, Pretzels/Hummus + protein shake

Pizza is not the best choice!

- 4 slices
- 1,140 calories, 40g fat, 145 g carbs, 48 g protein
- Better = smoothie (or protein shake) + 2 slices

REHAB BAG



PROTEIN

Protein bar

Tuna packets

Chicken packets

Jerky

Portable peanut butter packets/cups



CARBS

Applesauce pouch

Fig or Clif bars

Fruit bites/gummies

Pretzels

Dried fruit

Whole grain crackers



FLUID

Protein shake

Water bottle

Sports drink

Biosteel/DripDrop

Other: Ibuprofen, Tylenol, eye drops, decon wipes

PAY ATTENTION TO CAFFEINE

< 400 mg/day

4-5, 8 oz cups coffee

1 scoop pre-workout + 16 oz coffee

1-2 energy drinks (NOT RECOMMENDED)

More is NOT better

Stop at 3-4pm (1600)

Avoid or reduce to < 200 mg if high blood pressure or acid reflux



60 mg MIO Energy (1/2 tsp) 1.080 mg per bottle!



40-75 mg Brewed Tea (8 oz)



70-140 mg Black Coffee (8 oz)



90 mg Mountain Dew (20oz)



THE POWERFUL OF THE POWERFUL O

160 mg Monster (16oz)

300 mg Preworkout

NOT RECOMMENDED



Cold turkey NOT recommended**

Mood disturbances, drowsiness, nausea, headache, flu-like symptoms (2-9 days)

Gradually taper back

Swap for a lower-caff, half-caff, or no-caff beverage Cut back after lunch first to improve sleep Is it best for you to cut back off shift or on?

Work with a dietitian and/or therapist



139

Posts

1.652 Followers 595

Following

Megan Lautz | Dietitian

- Realistic nutrition for busy firefighters
- ## Healthy-ish meals for shiftwork
- FREE fire station recipe book linkin.bio/rescue-rd











Healthy Snacks







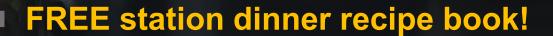
FIREHOUSE

THIER RECIPES DESIGNED TO FUEL HUNGRY FIREFIGHTERS

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