

# OUTLINE

- Overview of macronutrients and definitions
- Fueling recommendations
- Pre-, during-, post-race fueling guidelines
- Finding your fuel















## FINDING YOUR FUEL

Things to consider

- Race distance
- Gastrointestinal issues
- Chew vs. drink
- · Preference for sweets (flavor fatigue is real!)
- Ingestion rate
- Caffeine?
- Fuel/water belt?
- · Isotonic (amount of water needed to digest product)

#### **CARBOHYDRATE SOURCE**

- · Look for "-ose" in ingredients
- Sucrose: GI upset, bonking, hypoglycemia
- Fructose: can slow down absorption of other carbohydrate in the gel
- Glucose: quick energy, possible Gl upset
- Maltodextrin: quickly absorbed type of carbohydrate, dissolves well in water (isotonic at 9g/oz)
- Superstarch: slow releasing carbohydrate, generally well tolerated

















## **FUELING WITH FOODS**

Things to consider

- Length of race
- GI tolerance
- Ability to eat and run

### WHOLE FOOD OPTIONS

#### Guidelines

- Carbohydrate-rich, relatively low in protein and fat
- Choose foods easy to chew/swallow...
- 2 fig newtons: 198 cal, 40 gram carb
- 1 small box raisins: 123 cal, 34 gram carb
- 1 medium peeled apple: 77 cal, 21 gram carb
- 1 large banana: 121 cal, 21 gram carb
- <sup>1</sup>/<sub>2</sub> cup pretzels: 100 cal, 24 gram carb
- 1 fruit "squeeze pouch": 60-80 cal, 24+ gram carb

## **TROUBLESHOOTING GI UPSET**

- Slow ingestion rate start with 15 grams per hour and slowly increase
- Consume gels/chews with water
- Never take a gel/chew with a sports drink (sugar bomb)
- ALWAYS practice with your product prior to race day
- Try a caffeine free-product
- Check amount of vitamin C in your product
- · Choose a product with main carbohydrate source maltodextrin
- Check protein and/or fat content of fueling product

