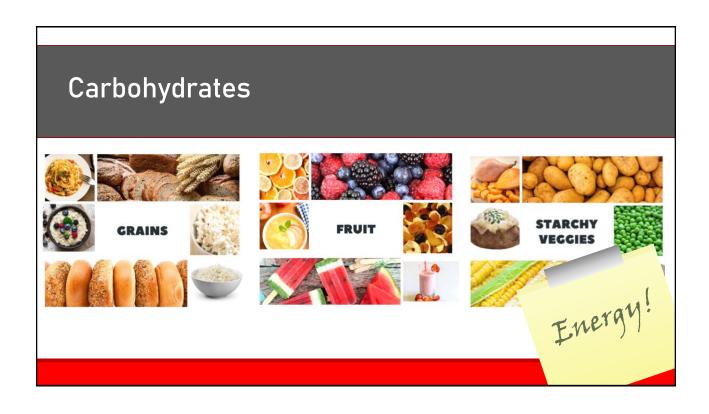
Nutrition for Activity

BRETT SINGER, MS, RD, CSSD, LD

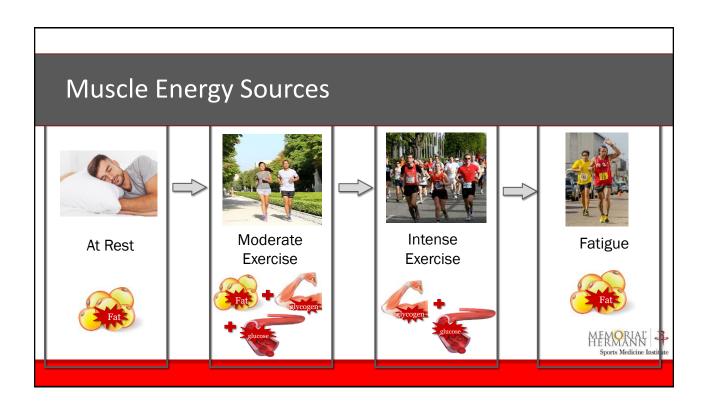


Macronutrient Review











Pre-Activity Nutrition



What Happens During Exercise?

Carbohydrates and fat are used for energy

Fatigue sets in as carbohydrates stores are depleted

Sweat and electrolytes are lost to remove heat from body

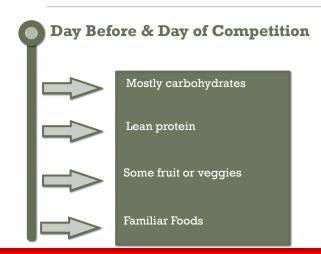


Goals of pre-fueling

- Begin competition with adequate carbohydrates available in your body
- Feel content, not stuffed or uncomfortable
- Begin properly hydrated



Food Groups Day Before







Lunch – How Can We Improve?







Competition Day



- Easily digestible carbs
- Fluids
- · Lean proteins

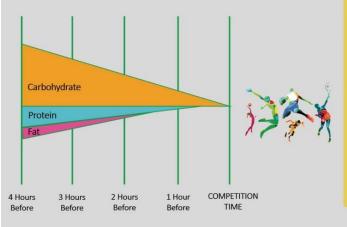


NO!

- · High fiber foods
- · High fat foods
- Greasy foods
- Big portions



Pre-Competition Meal

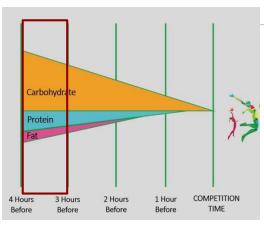


PRE-COMPETITION FUELING

Your pre - competition meal (3-4 hours before) should be high carbohydrate, moderate protein & lower fat. As competition time gets closer, the size of meals/snacks should decrease and shift towards mostly carbs with minimal protein & fat.



3-4 hours before activity



Goals

Top off muscle glycogen

Maintain blood glucose for mental focus

Stay hydrated

Consume familiar foods

Foods

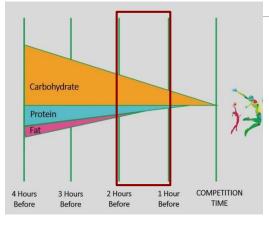
Overnight oats with honey, PB, yogurt, and fruit

Turkey Sandwich with fruit

Pasta Salad with grilled chicken and fruit



1-2 hours before activity



Goals

Consume mostly carbohydrates

Focus on familiar foods that are easy to digest

Stay hydrated

Foods

Turkey wrap with fruit

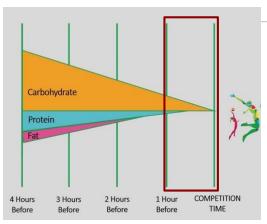
Bagel with honey

Crackers and fruit

Smoothie



<1 hour before activity



Goals

Use carbohydrates for quick energy (<30 g)

Easy to digest

Continue to hydrate

Foods

Fruit (dried, fresh, fruit pouch, juice)

Sports products (drinks, gels, wafers)



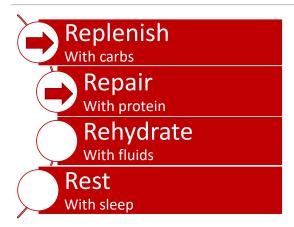
Sugar free Gatorade Regular Gatorade Whole bagel with peanut butter Toaster waffle with honey in <1 hour Greek yogurt parfait with granola and berries Applesauce pouches				
Greek yogurt parfait with granola and berries Applesauce pouches		Sugar free Gatorade	Regular Gatorade	
and berries Applesauce pouches HERMAN		Whole bagel with peanut butter	Toaster waffle with honey	
MERIORIA			Applesauce pouches	
Sports Medicine				MEMORIAI HERMANN Sports Medicine Ins



Recovery Nutrition



The 4 Rs of Recovery





Replenish with carbohydrates



Physical activity uses the stored energy in your muscles



The stored energy comes from consuming carbohydrates



Consume carbohydrates to replace the used energy and be fully prepared for your next session

Repair with protein



DURING EXERCISE MUSCLE BREAKDOWN OCCURS, THIS IS NORMAL AND THE FIRST STEP IN BUILDING MUSCLE.



PROTEIN STIMULATES GROWTH AND REPAIR IN THE MUSCLE.



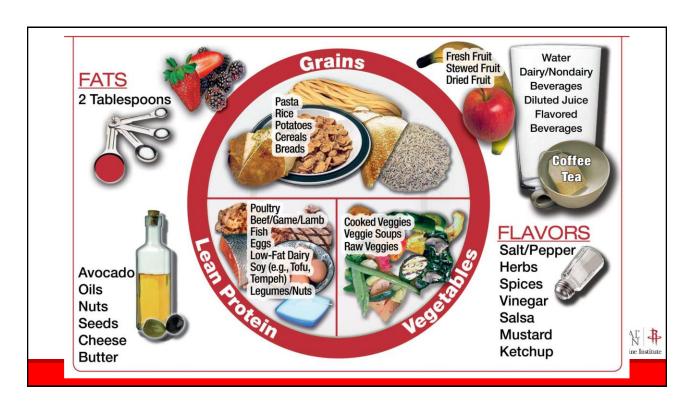
REPAIRING MUSCLE LEADS TO MUSCLE GAINS AND IMPROVED PERFORMANCE.



Protein + Carbohydrate Snacks

- 1.5 2 cup Chocolate milk
- 6 oz Greek yogurt + 1 Tbsp honey + ¼ cup granola + water
- ½ PB&J + string cheese + water
- Turkey sandwich with 1-2 slices of turkey + banana + water





Example Meals









Simple Recovery

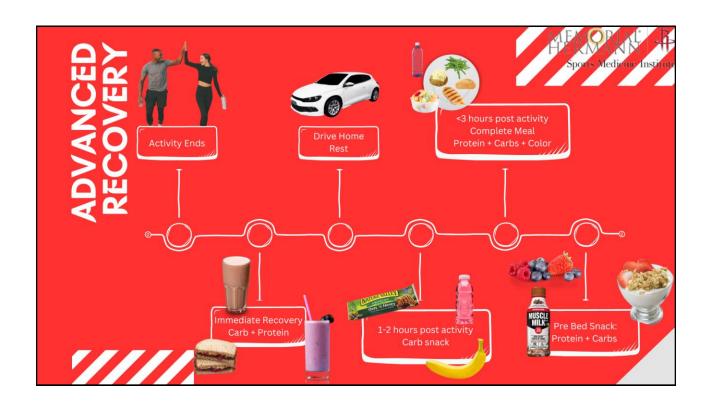
Just consume <u>at least 1 serving</u> of protein, carbs, fluid after exercise



Advanced Recovery

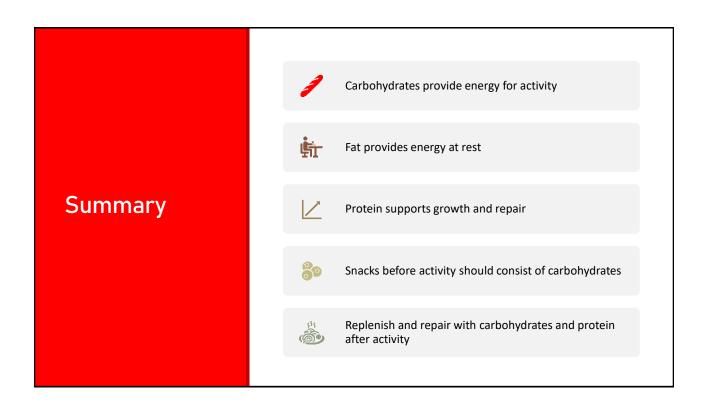
Immediate recovery snack Carb based snacks Recovery meal 3 hours post- competition Pre-Sleep Protein











Questions?

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