TACTICAL ATHLETE NUTRITION GUIDANCE

HYDRATION

• Your body weight in pounds divided by 2 = the minimum number of ounces of fluids you need per day (This does not include the amount of exercise you do or the climate you are in.)

Example: 120 pounds $\div 2 = 60$ ounces of water per day

Half Gallon = 64 ounces 1 Gallon = 128 ounces 1 Canteen = 32 ounces * For most people, 1 large gulp = 1 ounce

With exercise add:

- 16 ounces (1/2 canteen) 2 hours prior to exercise
- 4-8 ounces* 10 minutes prior to exercise
- 4-8 ounces* every 20 minutes during
- 16-24 ounces after exercise
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For exercise lasting longer than 60 minutes

- Use sports drinks for hydration, glucose and electrolytes to improve endurance performance (Powerade, Gatorade)
- Per 8 ounces: 12-24 grams of Carbohydrate; 110-170 mg of Sodium; 20-50 mg Potassium

Symptoms of dehydration:	For these symptoms, notify your instructor immediately:
Thirsty	Chills
Headache	 Increased Heart Rate
 Dry Mouth 	Muscle Cramps
Dry Skin	Nausea/vomiting
Fatigue	Swollen stomach
• Dizzy	Confusion

TROUBLESHOOTING NUTRITION TIPS

Problem	What should you do?	Food Sources	Result
Low energy;	Eat foods rich in	Whole wheat bread, cereal,	Carbohydrates provide fuel for
sluggish; easily tired	CARBOHYDRATES	pasta, rice, peas, corn,	muscles and brain
		potatoes, fruits, veggies	
Muscle strains,	Eat good food sources	Chicken, fish, beef, cheese,	Faster recovery from injury; repair
injuries; slow to	of PROTEIN	milk, nuts, seeds, peanut	muscles
recover		butter	
Trouble sustaining	Eat healthy FAT	Nuts, seeds, peanut butter,	Greater energy output; build
energy output	sources	olive oil, olives, fish, canola	muscle more efficiently;
		oil, avocado	
Constipation	Increase FIBER in diet	Whole grain bread & cereal;	Relief!
		beans, peas, fruits and	
		vegetables	
Difficult maintaining	Increase IRON rich	Beef, chicken, turkey, fish,	Greater energy; better tolerance
body temperature;	food sources	spinach, kale, beans, peas,	to cold
low energy		fortified breads, cereal s and	
		juice	
Broken bones;	Increase CALCIUM	Milk, yogurt, cheese, salmon,	Strengthen bones and
stress fractures;	rich foods.	broccoli, kale, calcium fortified	teeth;
brittle teeth	Increase VITAMIN D	foods.	Vitamin D helps body absorb
	food sources.	Vit D fortified milk, eggs,	calcium and thus helps prevent
		seafood, fortified cereals	fractures and bone weakness.
* Increase muscle	Increase CALORIES	Fish, chicken, lean beef, pork,	Protein intake must be combined
mass	and PROTEIN rich	milk, eggs, cheese yogurt,	with weight training to build
	foods	peanuts, nuts/seeds, beans,	muscle mass.
		lentils	

PROPER FUELING

What to eat-

- 55-65% from Carbohydrates to fuel muscles and brain
 - Eat Whole Grain and Whole Wheat Breads (1st ingredient needs to be "whole grain 0 flour" or "whole wheat flour"), Whole Grain Cereals (Kashi, Oatmeal, Fiber One, Wheaties), Brown Rice, Whole Wheat Pasta, Fruits, Vegetables, Beans and Legumes (pinto, black, lentils, split peas, kidney), Low-fat Dairy
- 20-30% from Fat to absorb vitamins and cushion organs, tissues, and joints.
 - Eat Healthy, Unsaturated Fats (olive oil, olives, nuts and seeds, natural peanut 0 butter, avocado, fatty fish, flax seed)
 - Limit Saturated Fats (fried, animal fats, hydrogenated foods and processed) 0
 - Avoid Trans Fats (hydrogenated foods and processed)
 - At least 75 grams of total fat/day
- 15-20% from Protein to build and repair muscle
 - Eat Lean Meats (poultry, fish, lean sirloin and pork tenderloin), Eggs, Low-Fat Dairy (milk and soy milk, cottage cheese, yogurt), Nuts and seeds, Beans, and Legumes
 - The best diet contains adequate but not excessive protein. Extra protein does not build 0 extra muscle, exercise does - proper training builds and strengthens muscles. 0
 - Protein needs per pound of body weight:
 - Athlete

- 0.5 0.80 gm pro/lb.
- Athlete Building Muscle Mass 0.7 - 1.0 gm pro/lb. Athlete Restricting Calories (needs weight loss) 0.8 - 1.0 gm pro/lb. .

When to eat-

- A key to healthy eating is fueling your body throughout the day, eating every 3-4 hours is ideal.
- **BEFORE Exercise**

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- Eat a carbohydrate-rich meal with protein 3-4 hours prior to exercise
 - Examples: Banana and peanut butter sandwich and milk; Bagel sandwich w/ lean meat, cheese and veggies; Chicken, rice and veggies; Spaghetti with lean meat and a salad
- Eat a carbohydrate-rich snack 30 minutes to 2 hours before training/competition. 0
 - The timing is wide because each individual's stomach is different- some people can eat right before they exercise and not get an upset stomach, others cannot.
 - Examples: a piece of fruit, 1/2 bagel, or a granola bar

AFTER Exercise

- Eat a combination of carbs and protein within 30 minutes of exercise. 0
 - Examples: 8-16 oz. chocolate milk or flavored soy milk; Turkey sandwich; Flavored Greek yogurt and fresh fruit; Fruit and yogurt smoothie
- Eat a balanced meal containing all the food groups (protein/dairy, grains, fruit, veggies) 0 within 2 hours.
 - Examples: Homemade Burrito (tortilla, beans, lettuce, tomato, low-fat cheese, and salsa); Grilled poultry, brown rice, veggies, and fruit; Tuna salad made with veggies, whole grain crackers, provolone cheese, and fruit.

For maximum physical and mental performance, at every meal, eat carbohydrates, protein and drink milk.

Pruts Vegetables Protein	Carbohydrates = Fruits & vegetables, low fat milk/yogurt/soy milk, whole grain bread, pasta, cereal, oatmeal, beans, peas,	Protein = Low fat milk, yogurt, cottage cheese, & cheese, lean meats, eggs, fish & poultry, beans, nuts, and seeds, whole grains, soy
Choose MyPlate gov	*Choose 100% WHOLE GRAIN	products.
	products.	