

## Fueling the Competitive Soccer Player

Getting Started
Section 1

## Michele Fumagalli, RD, LDN





#### **Business Marketing degree from Notre Dame**

Bachelors of Science in Dietetics from Benedictine University

Completed 1200 hour Internship through University of Houston

**Chef trained** 

**Owner & Head Dietitian at Fit Plate Nutrition** 

Helping over 500+ athletes, from everyday to pro, to win on & off the field by dialing in what, when, why, & how they fuel.

### Michele Fumagalli, Former Pro Athlete





Four Final Fours at the University of Notre Dame

Professional Soccer USA & Germany

2018 CrossFit Games Individual Athlete





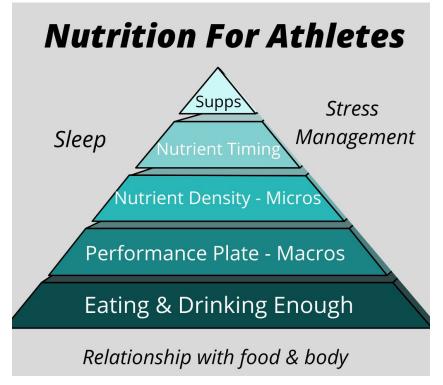
Name one thing you do well with your nutrition?

Name one or two things you can improve upon with your nutrition?

#### Welcome to the Course!

fitplate NUTRITION

- Section 2: The What & Why of Sports Nutrition (specific to soccer)
- Section 3: Hydration & Fueling body with enough energy
- Section 4: Building your Performance Plates
  - Fueling Snacks
- Section 5: Nutrient Timing
  - Pre & During Nutrition
  - Post-Training Nutrition
  - Game Day & Tournament Nutrition
- Section 6: Supplements & Extras



## Establish Your Why & Goals



- What are your goals for the course?
- What do you want to learn about nutrition for performance?

#### How to be an A Student

- ★ Watch Lectures & follow along slides
- ★ Print & Fill Out Worksheets after lecture
- ★ Complete Fuelwork
- ★ Ask Questions in comments
- ★ Set weekly focuses to improve nutrition gaps and weaknesses
- ★ Find what works for you

This is a self paced course!

I recommend working in 30-45 minute increments for optimal engagement and retention.

Section 1 & 2 together

Section 3 at once

Section 4 broken into two parts due to most post lecture work

Section 5 Pre-During

Section 5 Post/Tournament

Section 6 at once

\*worksheet during & after



# The What & Why of Sports Nutrition

Lecture 1

## Evidence-Based Sports Nutrition: WHAT?





#### Susie

- 3 days of soccerper week
- Picky eater
- Lactose Intolerant
- 3-4:30pm Practicetime + 1-2weekend games



#### **Abby**

- 5 days of soccer per week
- Likes all food
- Allergic to nuts
- 4-6:30pm practice + weekend tournaments

Do you think these athletes have the same fueling needs?

### Evidence-Based Sports Nutrition: WHY?



Where TO get your nutrition information from



- Nutrition experts (aka registered dietitians)
- Doctors (but know most are not nutrition experts)



- Teammates
- Coaches or trainers
- Prof soccer players
- 'nutritionists'
- Social media influencers



## Why is Sports Nutrition Important?

Athletes, especially growing elite athletes have greater nutritional needs (energy, protein, hydration, M&V and carbohydrate) than non-athletes.

## The WHY of Sports Nutrition

Cognition & Focus

Health

Optimal Performance



Safety

Optimal Energy Stores Injury prevention

Enhanced Recovery Why Nutrition Is Important for the Soccer Athlete?



Soccer & the Body

Outdoor Heat

Sprinting & covering longer distance

Physical Strength

Condensed schedules



Focus & Concentration

## Common struggles for Student Athletes



- Not knowing what to eat around training & competition
- Not <u>eating or drinking enough</u> (underfueling & dehydration)
- How to fit food into their <u>busy schedules</u> (home & on-the-go)
- Getting <u>information from non-credible sources</u>
- Connecting how they feel w/what they did or did not eat or drink
- Post exercise or stress related <u>appetite suppression</u>



# The What & Why of Sports Nutrition

Lecture 2



## What is Sports Nutrition?

An athlete's application of nutrition knowledge for optimal training, recovery, performance & health.

## Components of Sports Nutrition

Nutrient Timing



Energizing Snacks

Hydration

Supplements

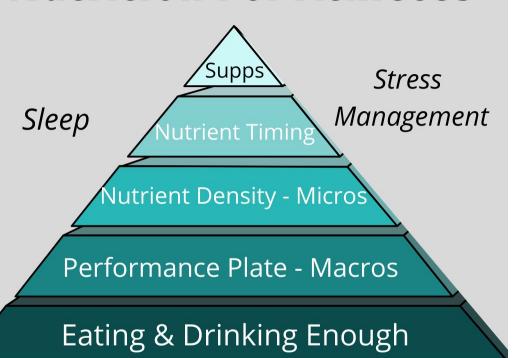
Balanced Meals

Adequate Energy Intake

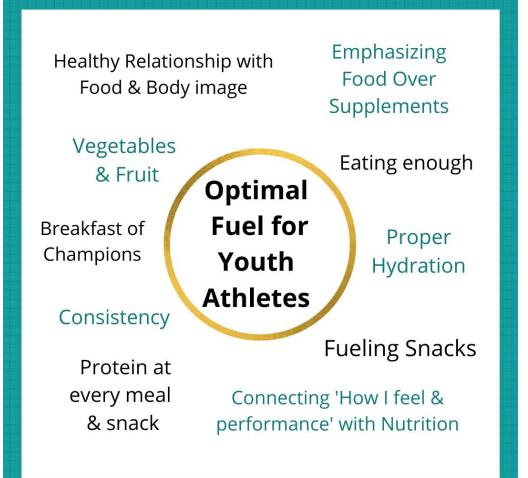
Nutrient dense foods

Sleep\*

#### **Nutrition For Athletes**



Relationship with food & body



**Fit Plate Nutrition** 

Name one thing you do well with your nutrition?

Name one or two things you can improve upon with your nutrition?

## If you are finding you need more help at any time during the course...





## ADD ON AN INTITAL CONSULT & FOLLOW-UP WITH MICHELE

- 60 minute initial consult + follow up email with recommendations
- 35 minute follow-up session + email

Discounted price of \$199

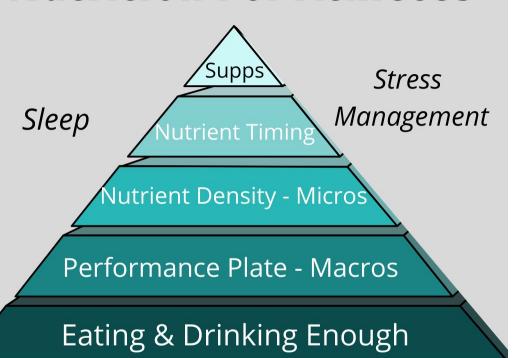
For this more individual approach, email Michele for schedule initial consult

Section 3 The BASE of the Sports Nutrition Pyramid

Lecture 1



#### **Nutrition For Athletes**



Relationship with food & body



## Hydration

Body weight divided by 2

- + Sweat/fluids lost
- = fluids in ounces
  to consume/day



If there was ONE area to work on first, it would be hydration. Water makes up more than 60% of our body and if the body does not receive enough fluids various mechanisms will suffer. We need a MINIMUM of 64oz/day. Water,



## Hydration

Body weight + by 2

- **+**Sweat/fluids lost
- Fluids in ounces to consume/day

## What Happens to Your Performance When You Are DEHYDRATED



Early Fatigue, Decreased Endurance



Decreased Alertness



NUTRITION

Increased risk of injury



Muscle Weakness



High Perceived Exertion



Decreased Cognitive Function

Overall Athletic Performance is DECREASED when an Athlete is Dehydrated Image Cred: @fuel

Image Cred: @fueling.young.athletes

## Hydration is NOT Just Water

- Safety & Performance
- Electrolytes
  - Sodium
  - Potassium
- Electrolytes beverages usage
- Salty sweater or heavy sweater
- For every lb lost (sweat) need to rehydrate with 16-20oz









## **Hydration Tips**

- Start your day with water (1st thing)
- 2. Bring water bottle with you to school
- 3. **Add flavor** fruit, juice, electrolyte powder
- 4. **Water check:** Pause in afternoon and review your hydration for the day so far
  - Look at the color of your urine :-)
- 5. Water before Practice
- 6. Water Station while studying



Section 3 The BASE of the Sports Nutrition Pyramid

Lecture 2



## **EATING ENOUGH:** Keeping a Full Gas Tank







**FOOD IS YOUR FUEL SOURCE** 

## **EATING ENOUGH:** Keeping a Full Gas Tank





#### How keep gas in your tank?

- 1. Performance plate & Balanced meals
- 2. Fueling snacks, packing snacks
- 3. Meal Planning
- 4. Eating every 2-3 hours

## How many calories should I be eating?



- (Youth) Athlete's do not need to track your food.
- This can bring about disordered eating as athletes are busy enough.
- You can be confident you are fueling your body with enough by...
  - Eating every 2-3 hours
  - Eating balanced (performance plate) snacks & meals
  - Checking in with hunger throughout day & evening
  - Check in with energy throughout day

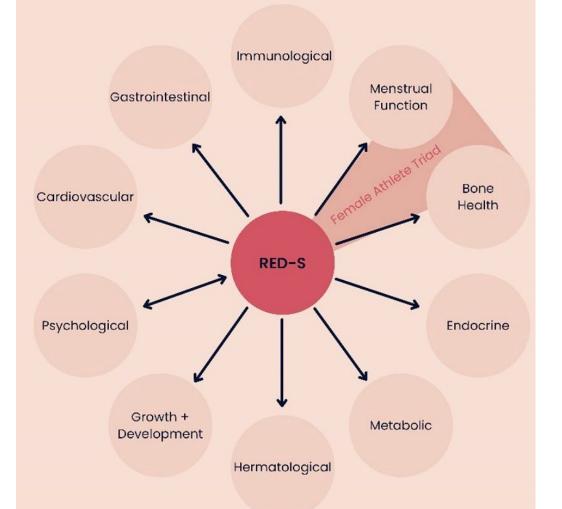
### **Consequences of Underfueling**

- We need to 'recharge' our body just like we do our phone.
- If consistency not getting enough fuel, the body will figure out ways (less optimal) to keep going.
- Relative Energy Deficiency in Sport or RED-S is a syndrome that results in physiological compensations & impaired performance due to low energy availability (LEA)

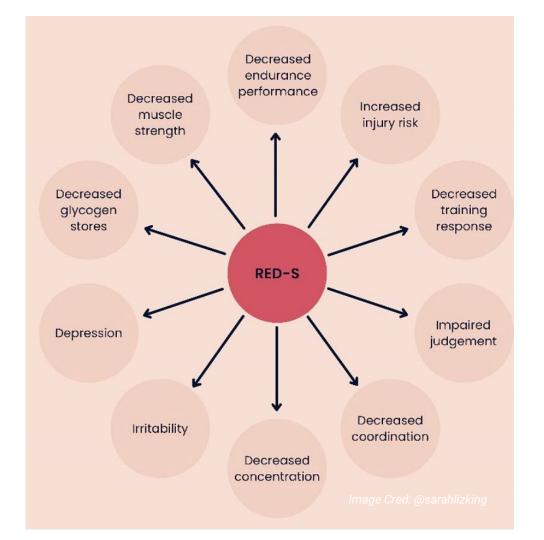


Image Cred: @uncsportsnutrition

# Health Consequences of RED-S



# Performance Consequences of RED-S



Section 4 Performance Plate & How to Build your Own

Lecture 1



#### Welcome to the Course!



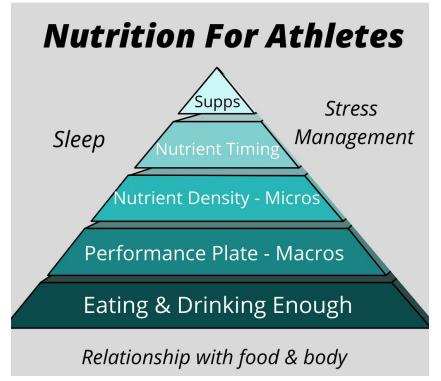


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#### **Nutrition For Athletes**

Sleep

Nutrient Timing

Management

Nutrient Density - Micros

Performance Plate - Macros

Building balanced plates to fuel & recover optimally depending on activity level

Eating & Drinking Enough

Relationship with food & body

### The 3 Fuel Components



# **Starchy Carbs**Whole Grains



#### Color Veg/Fruit



#### **Protein**











## Carbs: Starches / Whole Grains

- Rice, Quinoa, Lentils
- All Potatoes
- Hard Squashes
- Breads, Tortillas, Bagels
- Corn, Peas
- Pastas
- English muffins, Wraps
- Black/White Beans, Chickpeas
- Oats, Oatmeal
- Crackers, Pretzels



## Why do we Need Carbohydrates?

- Main **Energy** source for soccer players.
- Stores in muscles as glycogen (stored energy!) plus a little also stored in liver that is used up by 30 minutes.
- Brains preferred fuel source
- Often contains fiber, vitamins and minerals



## COLOR: Fruits & Vegetables

raw, frozen, steamed, sauteed, grilled, roasted

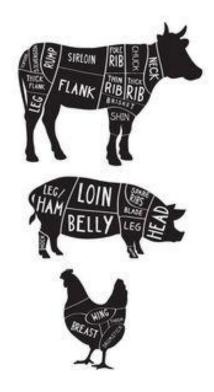
Recovery
Energy
Focus
Fiber/Digestion

Inflammation
Illness
V&M deficiency



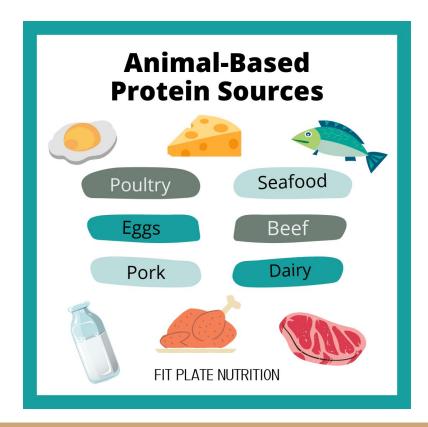
#### Protein Sources

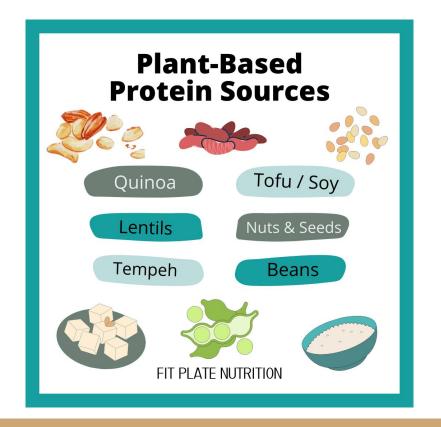
- Chicken, Turkey, Beef, Pork
- Deli Meat, Chicken Sausage
- Canned Tuna, Salmon, Shrimp
- Greek Yogurt
- Cottage Cheese, Cheese
- Eggs, Protein powder
- Tofu, Soy milk, Edamame
- Nuts, Nut Butters
- Beans, Chickpeas, Lentils, Edamame
- Seeds
- Chickpea/edamame/lentil pasta
- Hummus



LESS LEGS = MORE LEAN

## Protein can be animal & plant-based





## Why do we Need Protein?

- Recovery from training
- Helps build and repair muscles
- Building block for muscles, tendons, and skin
- Satiety/Fullness
- Helps regulate blood sugar



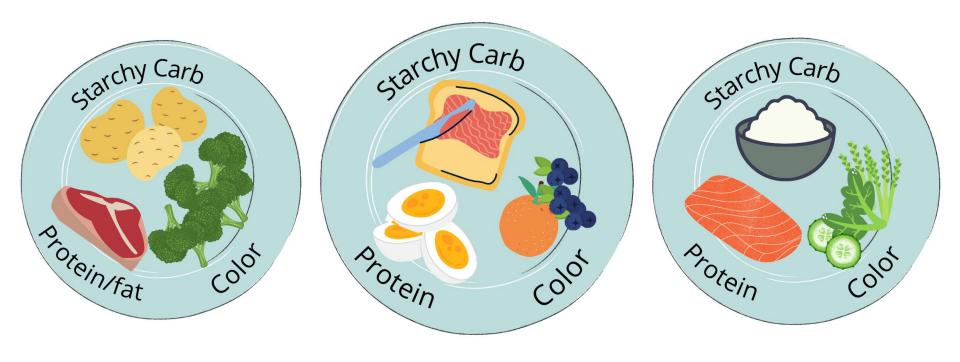
#### What about Fat?

- Fat is an energy source for low-intensity training, is important for hormonal health, required for the absorption of certain vitamins, slows digestion, and increases satiety.
- Fats haave twice the energy as carbohydrates and protein.
- Higher fat protein foods include:
  - Nuts, nut butters, seeds, egg yolks, fatty meats (pork shoulder, ground beef), full fat dairy.
- Goal is to choose leaner protein options majority of time





### Balanced Plates



Section 4 Performance Plate & How to Build your Own

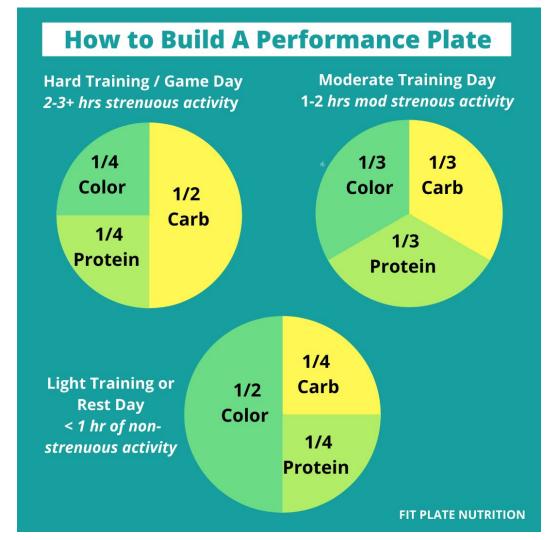
Lecture 2

fitplate NUTRITION

# Building Your Performance Plate

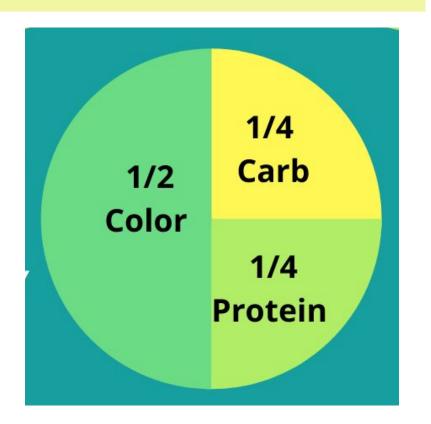
Three Components of the plate

Three Activity levels



# Light Training / Off Day



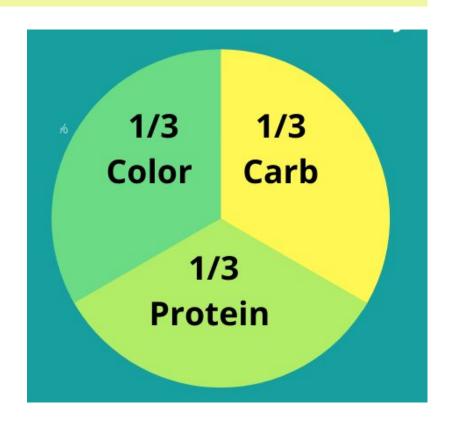


# 1 hour or less of non-strenuous activity

- Light jog or lift
- Skill work
- Stretching or prehab

# \*Moderate Training Day



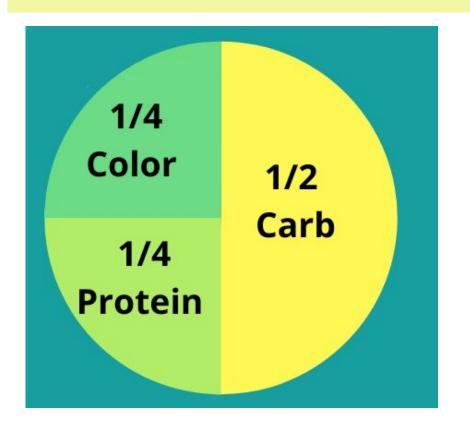


1-2 hours of moderately strenuous activity

- Conditioning
- Hard lift
- Sweating
- Elevated heart rate

# Hard Training Day / Game Day





# 2-3+ hours of strenuous activity

- Multiple training sessions
- Prolonged heavy conditioning/lifts
- Tournament play
- Reaching max heart rate at times
- 1 Day before Game

## Week Plates Example

Monday: Off day

Tuesday: 2 hour practice

Wednesday: footwork/pers. training

Thursday: 2 Hour practice

Friday: light pre-game movement

Saturday: Game

Sunday: Game

Moderate Day refueling weekend games

Moderate day plate

Moderate day plate

Moderate day plate

Hard Training day (prep for weekend)

Hard Training Day

Hard Training Day



# Tip: Build Your Performance Plates with foods YOU enjoy.

## Building Your Performance Plate



#### **Fuel Target Food List**

First fill out with protein, color, starch foods you enjoy

1. Prote	in/Fat	2. Fruits/Vegetables	3. Whole Grains Starches	Misses 10-20%
				Foods we love but body does not love

#### What does 100g of protein look like?







Bfast: egg on toast with slice of ched cheese, fruit, coffee+oatly



Snacks: apple+pb, yogurt+muesli, & dark choc covered pretzels



Lunch: 2 tbsp hummus, 1/3c edamame, 5 crackers & color



Brown Rice with 4oz skinless chicken thigh and broccoli

# How much **protein** do you need?

1.4-2.0 g/kg



20-35g

4-6x / day

Prioritizing protein at every meal & snack

#### QUICK & EASY BREAKFAST IDEAS



Oatmeal Bowl:

Oats + berries + milk + nut butter

**Yogurt Bowl:** 

Grk Yogurt + fruit + nut butter + muesli or granola

Breakfast Sandwich egg, cheese, ham, on WG english muffin

> VANS waffle or pancake topped with nut butter, fruit & little syrup



For optimal cognition function & balanced energy at school/work and training, start the day with a balanced breakfast

This will also help if extremely hungry in evening/later half of the day.

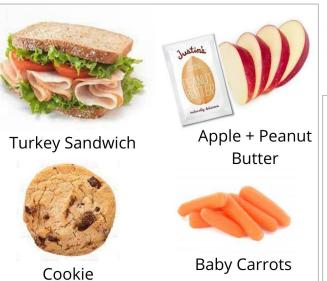
BreakFastable

cheese stick, fruit, crackers, nuts

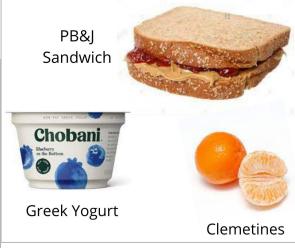
Eggs on Toast + piece of fruit

### Meals-on-the-Go: DIY Lunchables









# Protein to add to lunches at school



# Building Your Performance Plate



Begin to build meals from your target food list with each component.

	Breakfast	Lunch	Snacks	Dinner
1				

Breakfast	Lunch	Dinner	Snacks
1/3c Oats, water, milk, cinnamon, ½ banana, berries, nuts/pb butter, hemp seeds, chia seeds	Bistro Box: hard boiled egg(s), fruit, cucumbers, mini peppers, crackers	Chicken, ½ Baked Potato w/sour cream/grk yogurt, cheese & broccoli + zucchini	-88 acre bars, Lara Bars Macro Bars -crackers+cheese+fruit
2 eggs, slice cheese on whole grain toast with piece of fruit	Bistro Box 2: Hummus + veggies + tortilla chips + fruit + cheese	3/4c cooked lentil pasta, tomato sauce, ground chicken, roasted veg	-Skinny Pop(+choc.chp) -toast with pb -2 Eggs w/fruit
Greek yogurt with ¼ cup cereal/muesli or 2 tbsp granola + berries		Burrito bowl with quinoa, ground turkey, corn, salsa, avocado	-Mini meal (smaller breakfast or lunch) -Hummus+pretzel+veg
1 egg, Van waffles with nut butter and berries on top	Loaded salad (greens, chickpeas, hemp seeds, tomatoes, hb egg etc.)	Asian Bowl: Rice, teriyaki chicken, carrots, snap peas, cucumbers	-Yogurt w/ 2 tbsp cereal/muesli + berries -Trail mix or pb/fruit



# Section 4 Performance Plate & Snacks

*Lecture 3* 

## **EATING ENOUGH:** Keeping a Full Gas Tank





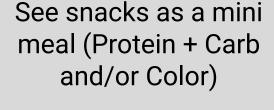
#### How keep gas in your tank?

- 1. Performance plate /balanced meals
- 2. Fueling snacks, packing snacks
- 3. Meal Planning
- 4. Eating every 2-3 hours

## Snacks for Athletes

fitplate NUTRITION

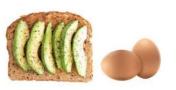
- Banana/Apple + Nut/Seed Butter
- Cheese Stick + WG Crackers
- Chobani Greek Yogurt + Trail Mix, Muesli, Granola, Nuts or Dried Fruit
- Trail Mix + Piece of Fruit
- Pretzels + Carrots + Hummus
- 88 Acres Seed Bar / RX Bar / Lara Bar
- Rice Cake + Peanut butter + Fruit
- Energy Balls
- Egg & Cheese on open-face WW English Muffin
- 1/2 PBJ or Turkey Cheese Sandwich
- Hard Boiled Eggs + Fruit



It is difficult to get optimal fuel just in the three typical meals (BLD)

Snack between meals or eat multiple snacks for a meal

# Snacks for Athletes prioritizing protein



Sprouted Grain Toast with Avocado & 2 Eggs



Fruit and Protein Smoothie



Protein Waffles with Nut Butter



"Snack Plate" Raw Veggies, Hummus, Shredded Chicken



Edamame with Fruit



Greek Yogurt with Fruit and Nuts

#### **Benefits of Protein Between Meals:**

- Aids in satiety
- Assists in meeting daily protein needs
- Promotes MPS

#### **Protein Food Sources:**

Chicken, turkey, fish, eggs, jerky, Greek yogurt, cheese, milk (dairy, Ripple, soy), nuts, nut butters, tofu, edamame

# Protein to add to Snacks



#### **After School Snack Ideas**

**FIT PLATE NUTRITION** 



Apple Slices + Peanut Butter



Yogurt + Granola and Berries



Pretzels + Hummus



Cheese + Crackers

#### **Snack to Fuel athletes**

Yogurt, pb, frozen berry smoothie

Celery + pb + raisins

Peaches + cottage cheese

Banana + nuts/nut butter (on toast/rice cake)

Pears + cheese

Greek yogurt + fruit

English muffin pizza

#### **On-The-Go Snack Ideas**

FIT PLATE NUTRITION



Banana + NutButter



Trail Mix



Bars



Drinkable Yogurt

#### **Bar Recommendations**

KIND bars, 88 acres (nut free), Gomacro, ClifBars, BOBO Bars, RX bars, Lara Bars

#### **Travel Snacks to pack**

Apple sauce packets, dried fruit, trail mix, instant oatmeal, beef jerky, nut butter packets, nuts, granola, rice cakes, snack bars, whole wheat crackers/pretzels, shelf stable protein shakes

# Smaller meal can be a snack Multiple snacks can be a meal





Turkey Sandwich



Cookie



Apple + Peanut Butter

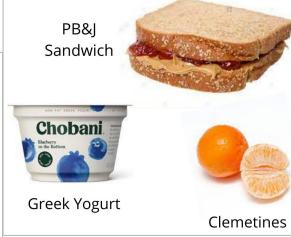


Baby Carrots

- ½ sandwich
- Apple + nut butter
- Carrots + deli meat + toast

- Cheese stick + apple
- Cheese stick + crackers
- Trail mix + apple





- yogurt
- ½ pbj
- Halo orange + pb toast

# Night Snacks for Athletes

#### PRIORITIZE PROTEIN



#### SATISFY CRAVINGS



#### **BONUS: ANTIOXIDANTS**



#### **Goals:**

- Fiber rich carb
- Protein
- Satisfying

#### **Bonus Nutrients**

- Melatonin
- Magnesium
- Tryptophan



Yogurt topped with fruit and/or granola





YOGURT, BERRIES, CRUSHED
GRAHAN CRACKERS & NUTS



**PB BANANA TOAST** 



Hot chocolate or a turmeric latte with milk or a protein-rich plant-based milk



Trail mixsweet or salty!



Fruit with nuts or cheese

#### CHOCOLATE PROTEIN OATMEAL



EDAMAME + CHOCOLATE CHIPS





Handful of crackers with peanut

butter or cheese

Glass of milk or smoothie

\*Hard-boiled eggs with fruit

\*Almonds, dark chocolate & raspberries

Image Cred: @kellyjonesrd

## Building Your Performance Plate



Begin to build meals from your target food list with each component.

Breakfast	Lunch	Snacks	Dinner
	Breakfast	Breakfast Lunch	Breakfast Lunch Snacks



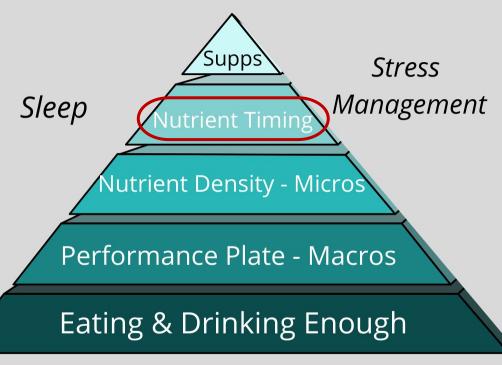
# Section 5 Nutrient Timing

Lecture 1

Michele Fumagalli, RD, LDN

What athletes eat and how much needs to change the closer he/she gets to warm up

# **Nutrition For Athletes**



Relationship with food & body

## **Nutrient Timing**



- **3-4 hours before warm-up**: Fuel with Performance Plate Meal
- **1-2 hours before warm-up:** Less food, fiber & fat. Carbs are King.
- **15-30 minutes before & during:** Simple, easily digestible carbs, fluids and electrolytes
- <60 minutes after: Carbs, Protein and Fluids
- <3 hours after: Fuel with Performance Meal

# Hydration Timeline





## Pre Training/Game Goals



- 1. Avoid GI distress
- 2. Top off muscle energy stores (glycogen) with Carbohydrates
- 3. Maximize hydration with fluids + sodium
- 4. Eat enough to prevent feelings of hunger



## The 3 F's to decrease the closer we get to go time



#### Fat

slowest energy source to breakdown

#### **Fiber**

Filling, harder to breakdown

### Food Volume

Full stomach

\*to limit GI distress

## Pre Training/Game Fuel

60-90 MIN

#### 1-2 HOURS BEFORE CARBS ARE KING

**BEFORE** 



**Nutrition Bars** or Energy Balls



Salty Snacks





1/4c Oatmeal with fruit



PB&1



Carbohydrate rich with Less fiber & fat and more snacks vs meals.

Plus hydration & possible electrolytes

## Pre Training/Game Fuel

15- 30 MIN BEFORE

#### PRE & DURING FUEL

Easily digestable carbs shortly before a workout can provide an energy boost to the body for longer or greater intensity workouts



1/2 Banana or piece of fruit

Applesauce (pouch)



Gummie Bears / Fruit Snacks



#### **Other Options:**

- Dates
- Carb rich granola bar
- Sport Gels / Blocks & Waffles
- Carbohydrate Drinks
- Low fiber Fruit
- ½ Nutrigrain Bar
- ½ Fig Bar

## During Training & Half Time

- Hard training days over 60-90 minutes water alone does NOT cut it.
- We need to **REfuel** (carbs) &
   **REhydrate** (water + electrolytes)
- Easiest way to do this = Sports
   Drinks
  - Body Armour does not have sufficient sodium amount





\*During is same as 15-30 min before

## Refueling/Hydrating at Half Time

\*\*Soccer's ONLY break is during half-time (unlike volleyball, basketball etc.)
Thus, Halftime is even MORE important for continued energy 2nd half.









#### **Simple Carbs**

\*Fresh Fruit

\*Dried Fruit

Fruit Snacks

**Apple Sauce** 

**Fruit Squeezes** 

**H2O + Fruit Juice** 

H2O/Carb/Electrolytes
Low fat/fiber Granola Bars

KIND Fruit pressed

\*too much could cause GI upset



# Section 5 Nutrient Timing

Lecture 2

## The 3 R's Post-Game/Training



#### **ReHYDRATE**

Fluids + Electrolytes

#### **ReFUEL**

Energy stores with calories & carbs

#### **RePAIR**

Muscles with Protein & Carbs

## The 3 R's Post-Game/Training



- <u>Rehydrate</u> with 16-24 oz of water for every 1 hour of intense activity or every 1lb of body weight lost if you're getting really sweaty.
- 2. **Refuel** carbs with about 1.5g/kg in the hour post-exercise (especially if you went in fasted). Your body uses glycogen aka stored carbs for energy while you workout? Just like our get more gas in car when low, we need to refill our tank aka refuel
- 3. **Repair** with protein to help your muscles recovery and repair from all the crazy, fun things your muscles did in the workout. Aim for at least 15 to 30 grams post-workout.

## Post-Game/Training Recovery



Consume snack or meal 30-45 minutes after training and again 2 hours after exercise for optimal recovery

Low appetite? Try liquids like chocolate milk or smoothie



## Post Training/Game Fuel

QUICK & EASY

#### **POST-WORKOUT FUEL**

Smoothie/Shake

Greek Yogurt & frozen fruit





Yogurt w/ fruit
\* granola







Low Fat Chocolate Milk



Post workout can be a snack, a substantial snack, or full meal if you are really hungry.

The key is to get in some sort of carbohydrate (starch/color) and protein with fluids

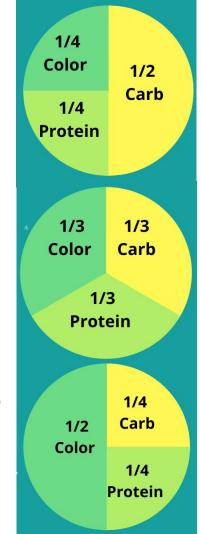
Eat Protein & Carb rich snack 30-45 minutes after training and a meal within 2.5-3 hours

### Post Workout Meal Ideas

Focus on Starchy Carbs & Leaner Protein, Color is a plus!

Don't forget the performance plate

- Baked Salmon, brown rice, roasted asparagus
- Breakfast scrambler (2 Eggs, deli ham, sauteed peppers/onions, tbsp shredded cheese) on 2 toast
- Chicken sausage, whole grain noodles, pesto sauce, sauteed zucchini or broccoli on top.
- Burrito bowl chicken/shrimp with rice, cheese, beans, tomatoes/salsa, lettuce
- Baked sweet potato with shredded chicken sauteed in buffalo sauce, tbsp butter, chopped celery & carrots
- Shrimp stir-fry (grilled shrimp, sauteed peppers, onions, cauliflower, brown rice noodles & soy sauce





# Section 5 Nutrient Timing

Lecture 3

## Evidence-Based Sports Nutrition: WHAT?





#### Susie

- 3 days of soccerper week
- Picky eater
- Lactose Intolerant
- 3-4:30pm Practicetime + 1-2weekend games



#### Abby

- 5 days of soccer per week
- Likes all food
- Allergic to nuts
- 4-6:30pm practice + weekend tournaments

Do you think these athletes have the same fueling needs?

## **Tournament Nutrition**

#### **GOAL:**

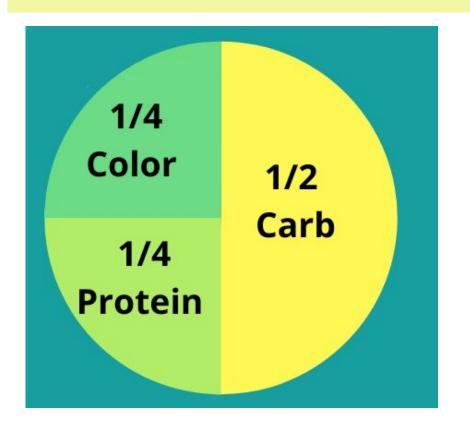
- Recover body as best so last game is as close to performance of first game to decrease risk of injury, cramping, heat stroke, depleted energy stores
- Replenish body with proper hydration & nutrition post game (recovery) PLUS ReFuel & Rehydrate for upcoming game
- Avoid gastric distress

#### TIPS:

- Day before fuel and hydration
- Think (big/small) snacks through day if multiple day games with fuelng breakfast & recovery dinner meal.
- Sports drink to help reach carbohydrate and hydration goals
- Create Fuel Plan
- Pack snacks/meals to bring with you just like you bring equipment.

## Hard Training Day / Game Day





# 2-3+ hours of strenuous activity

- Multiple training sessions
- Prolonged heavy conditioning/lifts
- Tournament play
- Reaching max heart rate at times
- 1 Day before Game

## Making Your Fueling Plan

- 1. What time is your practice/game(s)?
- Think about the fueling and hydration you need before, during, and after.
- 3. Make sure you have these foods and drinks prepared and ready to go!
- 4. Commit to your plan.
- 5. And lastly, analyze how it went & what other changes could be made. Learn & improve



# Hydration Timeline





\*If you do not have 2.5-3 hours to eat before game

Day before Lunch, Dinner and hydration is even more important.

Think 60-90 minute smaller meal/snacks before game.

Less fat, fiber & food volume



**Pre-game meal** 2.5-3 hours before warm-up

**Snack(s)** 60-90 min before warm-up + electrolytes

Rehydrate & Refuel at halftime

Post Game Snack 30-45 min after + Game day plate 2 hours later

Large snack/mini meal followed by another small snack (esp if game next day)



- 6:30am Wake up
- 7:30 School starts

- 3:30-5:30 Practice
- 6:00 Home
- 8:00 Homework/relax

## **Fuel**

Glass of water + breakfast (Bring water bottle, lunch & snacks)

10:00 Snack (if later lunch) 10:30-1:15 Lunch (refill water)

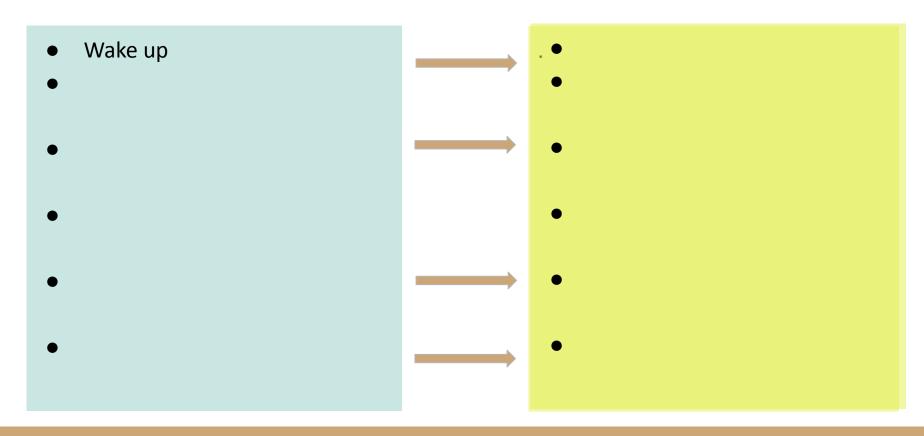
1:00 snack (if early lunch)

3:00 Pre-practice snack

6:00 Dinner or post practice snack

8:30 Evening snack

## Fuel



- 6:30am Wake up
- 7:30 School starts

- 3:00 Home
- Practice 5-7:00
- 7:30 Home
- 8:00 Homework/relax

## **Fuel**

Glass of water + breakfast (Bring water bottle, lunch & snacks)

10:00 Snack (if later lunch)

10:30-1:15 Lunch (refill water)

1:00 snack (if early lunch)

3:15 Pre training mini meal

7:10 Post training Snack

8:00 Dinner

9:30 Evening snack (if hungry)

- 6:30am Wake up
- 7:30 School starts

- 3:00 Home
- Practice 7:00-9:00
- 7:30 Home
- 8:00 Homework/relax

## **Fuel**

Glass of water + breakfast (Bring water bottle, lunch & snacks)

10:00 Snack (if later lunch)

10:30-1:15 Lunch (refill water)

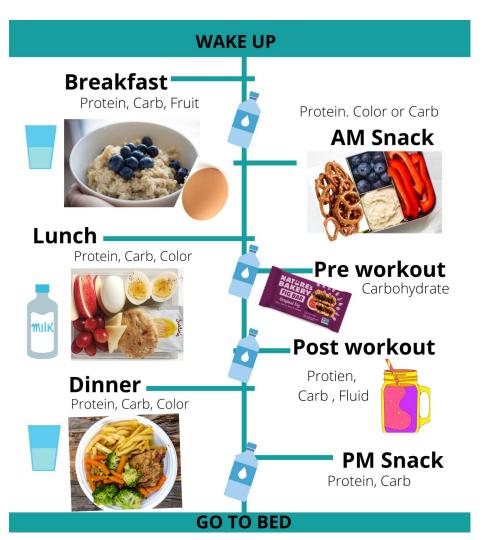
1:00 snack (if early lunch)

3:15 Snack

4:30-5:00 Meal (smaller dinner)

9:00 Post workout snack/meal or...

9:30 Mini recovery meal



## Create a Routine



- 1. Set an alarm: What time to start your day
- 2. Get dressed in real, clean clothes.
- 3. Eat regular meals rather than grazing to maintain energy levels & focus.
- 4. Eat to Train
- 5. Go to bed to get 7-9 hours of sleep each night

## Game/Practice Fuel Bag





Heading to practice/game...
You pack your gear i.e. shin guards, running shoes, cleats, socks, additional clothes etc BUT what about your fuel?
Your hydration?

This needs to begin to be top of mind for optimal performance

## In Summary...



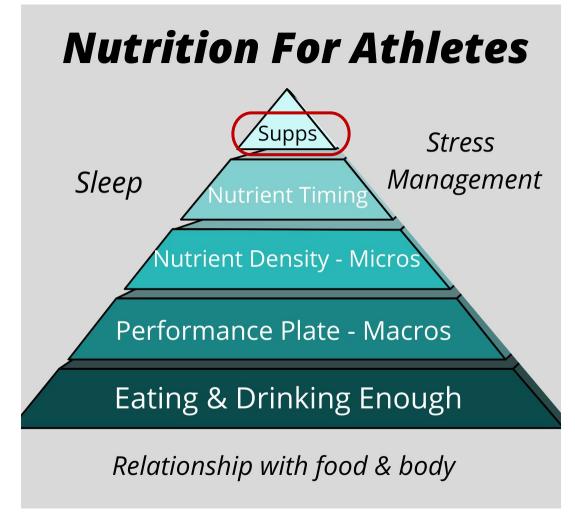
- **Eating regularly** every 2-3 hours
- Follow **Performance Plate** (no skipping meals)
  - Alter carb intake around activity level/intensity
  - Protein at every meal & snack
  - Variety of foods to get variety M&V
- Connect how you feel with what did or did not eat/drink\*\*
- Plan Ahead: Alter what eating around training/competition
- Constantly Hydrate: water & electrolytes
- Practice Makes Progress! Practice Makes Permanent



# Section 6 Supplements & Extras

Lecture 1

When we can't get enough energy, protein or certain minerals and vitamins into our diet



## Supplements







- What are they? A manufactured product intended to supplement one's diet by pill, powder, or liquid.
- Do you need them?
  - Do you have any vitamin/mineral deficiencies?
    - Lab tests
- Safety NSF Certified
- Certain populations
  - Injured athletes / vegetarians/vegans









## Evidence Based & Safe Supplements



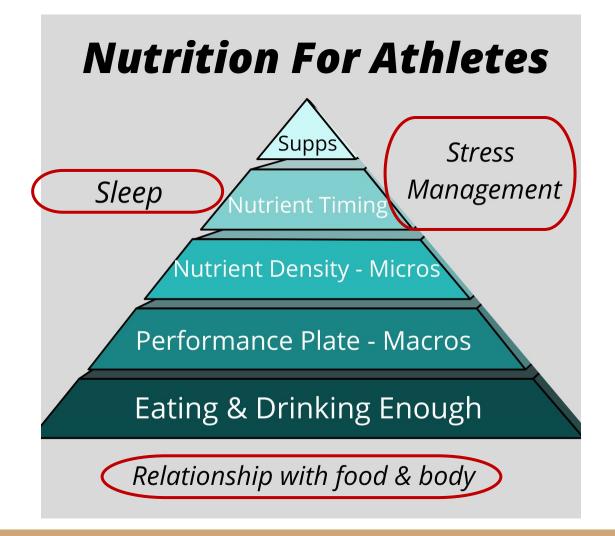
## Supplements

- Multi-vitamin
- Vitamin D3 (if deficient)
- Omega 3 (if not eating cold water fish 1-2x/week)
- Collagen + OJ for injured players
- NSF certified Protein shake if unable to get adequate protein in
- Electrolytes for hydration

## Vegetarian / Vegan Athletes

- Vegetarian/Vegan athletes at all levels can meet their energy and nutrient needs when consuming a variety of foods, including grain products, fruits, vegetables, protein-rich plant foods, and (if desired) dairy products & eggs.
- Important to pay attention to fiber & fat (veg, nuts, seeds, beans) with nutrient timing
- Nutrients found less abundantly in plants and thus, potential needed to supplement:
  - Protein, omega-3 fatty acids, calcium, vitaminD, iron, zinc, iodine, vitamin B12





## Sleep

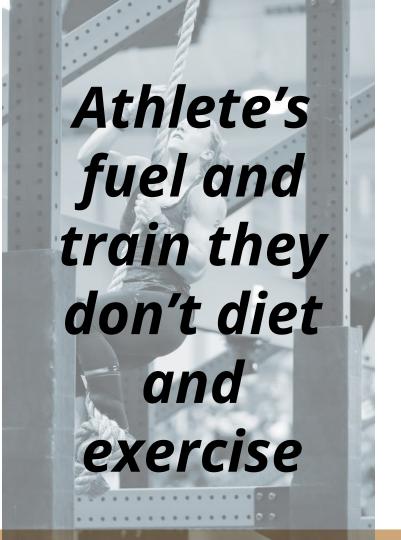
- Why is sleep important?
  - Recovery
  - Prevent injury/illness
  - Mental clarity
- Goal: 7-9 hours of sleep per night
- Tips:
  - Bedtime routine
  - Quiet, dark room
  - Limit screens and bright light before bed



## Relationship with Food & Body

- Diet culture worshipping certain look, size, body type etc. etc.
- All different body types on your team
- Body neutrality, acceptance & appreciation

Eat to Train don't Train to Eat



## Relationship with Food & Body

My low-point in my nutrition & performance

- Pressured to look a certain way in order to be successful
- Poor body image
- Restricting then later binging
- Not seeking professional help from a nutrition expert
- Not understanding the what & why of nutrition



## Stress Management

#### What's in your stress management tool box?

 Journal, breathing exercises, call up a friend, go for a walk, bake, comfort foods, out with friends, yoga, get outside etc. etc.

#### Growth Mindset

 We are human, we will make mistakes, it is learning from them and striving to be better, take risks, be open to failure.

Self Compassion

"Failure is an opportunity to grow" "I can learn to do anything I want" "Challenges help me to grow" "My effort and attitude determine my abilities" "Feedback is constructive" "I am inspired by the success of others" "I like to try new things'

"Failure is the limit of my abilities" "I'm either good at it or I'm not" "My abilities are unchanging" "I can either do it "I don't like to be challenged" 'My potential is predetermined' "When I'm frustrated l give up" "Feedback and criticism stick to what I know

## CONGRATS on Completing the Course!



- Section 2: The What & Why of Sports Nutrition (specific to soccer)
- Section 3: Hydration & Fueling body with enough energy
- Section 4: Building your Performance Plates
  - Fueling Snacks
- Section 5: Nutrient Timing
  - Pre & During Nutrition
  - Post-Training Nutrition
  - Game Day & Tournament Nutrition
- Section 6: Supplements & Extras

