# Nutrition for High School Athletes



## Keep it Simple

Michael Pollan's, <u>In Defense of Food, an Eater's Manifesto</u>

Eat food

- Edible food like substances
- Real food

Not too much

Mostly plants

### Real Food

- Whole Food
- Unprocessed
- Ingredients?
  - Sugar
  - High fructose corn syrup
  - Oils
    - Saturated fats
    - Omega-6 fatty acids vs omega-3's

### Not too much?

### Timing:

- Breakfast
- Lunch
- Snack
- Recovery
- Dinner

Not too much junk food

• empty calories, high saturated fat, sugar

### **Fats**

### Trans fats

- Heat to a high temperature
- Inhibit body's ability to use healthy fats
- In many mass-produced commercial products

### **Healthy fats**

flaxseed, extra-virgin olive oil, coconut oil, avocado, fish

Omega 6 to omega 3(fish, flaxseed, walnuts) 2:1 or 1:1

## Carbohydrates

- Brown rice
- Quinoa
- Millet
- Sweet potatoes
- Potatoes
- Yams
- Fruit (dates)

## Protein

- Lean meats
- Fish
- Eggs
- Cheese
- Quinoa
- Beans
- Nuts

# **Mostly Plants**

- Green leafy vegetables
- Sprouts
- Fruit
- Seeds
- Fibrous vegetables

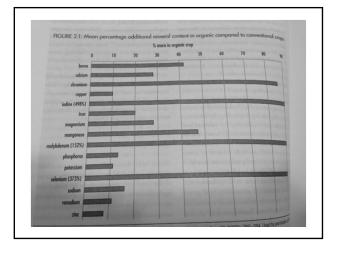
## **Anti-inflammatory**

- Berries
- Fish
- Walnuts
- Flaxseed
- Omega-3's
- Ginger
- Garlic
- Green vegetables

# Organic vs Conventional

- Pesticides
- Nutrition
- Local farmer markets





# Hydration

Water
packaging
Electrolytes
coconut water
Hyponatremia
color of urine
drink to thirst

### Pre and Post Workout Snacks

Pre:

2 hours before

Post:

15 to 45 minutes after boys vs girls

## Muscles, Recovery, Metabolism

### Women

- Smaller muscle mass
- Use more fat when below AT, 39% fat fuel
- Deplete glycogen slower
- Less protein breakdown
- Use less protein in exercise
- Replenish carbs to recover

#### Men

- Larger muscle mass
- Use less fat when below AT, 22% fat fuel
- Deplete glycogen faster
- More protein breakdown due to lack of glycogen
- Need more protein, carbs
- Replenish carbs & protein to recover

### Whole Foods

- No part removed, natural state, minimally processed, nothing added
- Raw fruits and vegetables
- · Home-made foods



## Dirty Dozen

Apples
 Strawberries
 Grapes/raisins
 Celery
 Acucumbers
 cherry tomatoes
 10.potatoes
 11.Kales/greens/

5. Peaches/nectarines lettuce6. Spinach 12.zucchini7. Sweet bell peppers 13.blueberries

### Clean Foods

1. Avocados 9.onions

2. Pineapple 10.sweet corn (GMO)

Kiwi 11.asparagus
 Papayas (50% GMO) 12.eggplant
 Mango 13.cabbage
 Cantaloupe (US) 14.watermelon
 Grapefruit 15.sweet potatoes

8. mushrooms

### Get Real!

- High school eating habits
- Journal (food and exercise)
- Look for trends best running days follow best nutritional days
- Reduce junk food, sodas, sugary processed snacks, fried foods, fast foods, high fructose corn syrup
- Increase healthy food: home-made foods, green leaf salads, smoothies, whole foods, nuts, fruits and vegetables, whole grains, organic food

# 2016 HOKA SuperClinic Tena Harms – Nutrition for High School Athletes

## Sources

- The Athlete's Plate by Adam Kelinson
- The Athlete's Guide to Recovery by Sage Rountree
- <u>Thrive Fitness, Vegan Based Training Program</u> by Brendan Brazier
- <u>In Defense of Food, An Eater's Manifesto</u> by Michael Pollan