

The Athlete Plate (s): Educating and Feeding Olympians

Alicia Kendig, MS, RD, CSSD
USOC Sports Dietitian
USOC Sports Nutrition Department



Team USA Sports Nutrition Department



USOC Sportfolios

- Combat and Acrobat
- Team and Technical
- Strength and Power
 - Winter
 - Summer
- Endurance (Boats and Paddles)
- Paralympic





The Sports Dietitian

- Board Certified Specialist in Sports Dietetics
 - RD, CSSD
- Best athlete support
 - Interdisciplinary work
 - USOC Service Providers
 - Psychology, Strength and Conditioning, Technology, Sports Medicine
 - Local Sport Dietitians
 - International Sport Dietitians
 - www.pinesnutrition.org







What we do:

- Athlete Nutrition/Hydration Assessments
- Team/Athlete Travel Support
- Travel Nutrition Planning/Education
- Meal Planning
- Food Service/Dining Hall Nutrition Integration
- Work with USOC Sponsors to support Team USA





Interdisciplinary Integration

Interdisciplinary work

Sports Dietitian

Physician

Coaches

Athlete

Psychologist

Family

Physiologist

Physical Therapist

Friends



Our Team USA Athletes

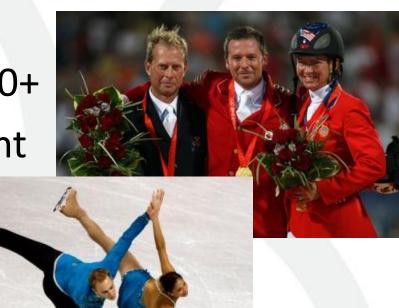
As young as 14, as old as 50+

Living/Training Environment

- Home
- College
- Apartment/House
- **—** ??







Periodized Training >> Periodized Nutrition!



Easy

Moderate

Hard

Competition

Recovery

Adjustment:

Energy

Macronutrients

Micronutrients

Fluids

Supplements

Yearly Plan - Monthly Plan - Weekly Plan

Weight Management, Environmental Factors, Individual areas...



Nutrition for Health, Fitness, and Performance







Health

Fitness

Adjustment:

Energy Macronutrients Micronutrients Fluids Supplements

Performance

Yearly Plan - Monthly Plan - Weekly Plan

Weight Management, Environmental Factors, Individual areas...



Exercise Meals: Performance, Health & Weight Management

- USDA MyPlate
 - www.choosemyplate.gov
- Volumetrics
 - www.volumetricseatingplan.com









Athletes' Plates

Grains

Fresh Fruit Slewed Fruit Dried Fruit

Flavored

Mustard



Collaboration between USOC Sport Dietitians And UCCS Sport Nutrition Graduate Program

Butter

Team USA: Athlete Plates



General Nutrition Guidelines

- Athlete Eating Guidelines
 - · Athlete Plates Easy Day
 - · Athlete Plates Moderate Day
 - · Athlete Plates Hard Day
- · Dietary Fat and Cholesterol
- · Eating Breakfast Hydration
- · Reading Food Labels
- Recovery Nutrition
- Sport Drinks
- Sport Nutrition Products
- · The Vegetarian Athlete
- Travel Nutrition General Guidelines

http://www.teamusa.org/About-the-

USOC/Athlete-Development/Sport-

Performance/Nutrition/Resources-and-Fact-

Sheets.aspx



Donate >

Pre-Exercise Meals: Health & Weight Management

EASY TRAINING / WEIGHT MANAGEMENT:



Examples: Easy Training Plate

- Breakfasts
 - Yogurt Parfait
 - Plain Greek yogurt
 - Fresh seasonal fruit
 - Granola sprinkles
 - Veggie Omelet
 - Local eggs
 - Spinach
 - Goat cheese
 - Olive oil
 - Crispy Rye bread

- Lunches
 - Athlete Salad
 - Dark greens
 - Seasonal veggies
 - Fresh fruit/dried fruit
 - Black beans
 - Grilled tilapia
 - Olive oil, balsamic
 - Open faced turkey or hummus sandwich
 - Seasonal veggies on side
 - Fresh fruit & nuts



2-4 hrs

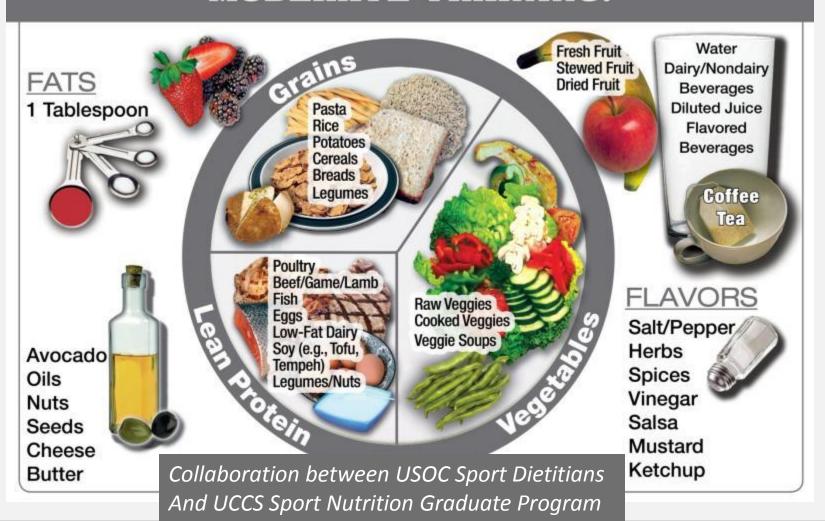


EXERCISE

Timing

Pre-Exercise Meals: *Fitness & Moderate Training*

MODERATE TRAINING:



Examples: Moderate Plate

- Breakfasts
 - Hot cereal
 - 9-grain cereal cooked in milk/soy milk
 - Seasonal fruit or berries
 - Greek yogurt
 - Poached Eggs Florentine
 - Poached free range eggs
 - Spinach & tomatoes
 - Olive oil
 - Whole grain toast

- Lunches
 - Sandwich Box
 - Whole grain sandwich w/ turkey, mustard, cucumber, cranberry
 - Seasonal raw veggies
 - Fresh seasonal fruit
 - Stir Fry
 - Free range chicken stir fry
 - Seasonal veggies
 - Brown rice
 - Fresh seasonal fruit



2-4 hrs



EXERCISE

Timing

Pre-Exercise Meals:Performance Training Load



Examples: Performance Plate

- Breakfasts
 - Oatmeal & Eggs
 - Cooked in organic milk/soy milk
 - Apple sauce
 - Honey
 - Toast w/ eggs and salsa
 - Oatmeal Pancakes
 - Pancakes w/ oats
 - Seasonal fruit
 - Syrup, butter
 - Smoothie w/ kefir & frozen berries

- Lunches
 - Sandwich box
 - Sonoran white wheat bread, turkey, mustard, lettuce/tomato
 - Minestrone
 - Apple sauce
 - Honey grahams
 - Pasta bowl
 - White, al-dente pasta
 - Sautéed carrots, zucchini
 - Pan seared white fish, chicken or turkey
 - Apple sauce



2-4 hrs



EXERCISE

Timing

Fueling Strategies

Before/PREPARE!

Sport drink Sport bar Bread/jam Oatmeal Banana

During/OPTIMIZE!

Sport drink
Gels
Blocs
Sport bar
Breads, rice balls

Post/RECOVER!

Sport drink
Sport bar
Smoothie
Flavored milk
Yogurt

EASY TRAINING

- 1 session/day
- · Technical/skill-based training
- · Cross-training
- · Weight loss
- · Recovery/off-season



MODERATE TRAINING

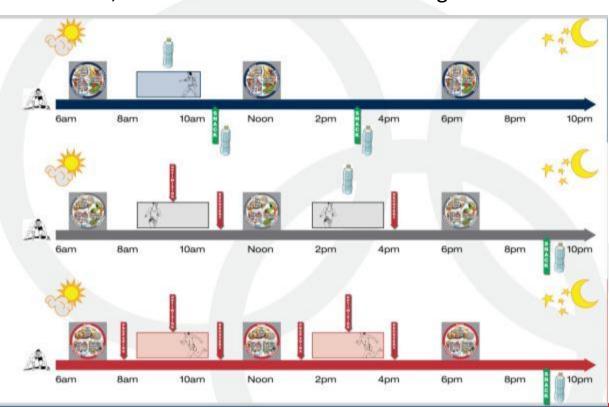
- 1-2 sessions/day
- Technical/skill-based training
- 1 cross-training session
- 1 moderate to hard training with longer recovery



HARD TRAINING

- 2 or more sessions/day
- High volume/intensity
- Heavy lifting
- Altitude training
- Race or trials
- Intense training periods





Summary & Conclusion

- Athlete Plates are just one tool to use, as part of a comprehensive nutrition plan.
- Fueling before, during and after exercise requires knowledge and awareness of training load.
- For most situations, exercisers can use water and their meals to prepare for and recover from a workout. Athletes may need more.
- For weight management, a higher protein intake is recommended to preserve muscle mass under energy restriction.
- Size of the plate, or the amount of calories needs to be educated on an individual level



Additional Education & Skill Building



Newly Launched USOC Sports Dietitian Registry

- Purpose: To have an available roster of pre-screened sport dietitians as resources for National Governing Bodies of Olympic, Paralympic, and Pan American Sports"
- Entrants must be:
 - Registered dietitian w/ CSSD
 - Minimum two years of experience working with Olympic, collegiate, professional or competitive recreational athletes
 - Liability insurance and willingness to enter into an consulting contract
 - Master's degree or higher in nutrition or exercise science (or similar e.g. IOC diploma sport nutrition)
 - Two professional references within the field of sport
 - Excellent presentation and communication skills
- Time available

Willingness to provide initial four hours of service pro bono

Newly Launched USOC Sports Dietitian Registry

Access by going to: www.teamusa.org

- ➤ Choose "About the USOC" tab
- ➤ Select "Athlete Development"
- ➤ Choose "Sport Performance"



- ➤ Then "Nutrition"
- ➤ Last, select "Sport Nutrition Registry"



Newly Launched USOC Sports Dietitian Registry

- Purpose: To have an available roster of pre-screened sport dietitians as resources for National Governing Bodies of Olympic, Paralympic, and Pan American Sports"
- Entrants must be:
 - Registered dietitian w/ CSSD
 - Minimum two years of experience working with Olympic, collegiate, professional or competitive recreational athletes
 - Liability insurance and willingness to enter into an consulting contract
 - Master's degree or higher in nutrition or exercise science (or similar e.g. IOC diploma sport nutrition)
 - Two professional references within the field of sport
 - Excellent presentation and communication skills

Time available

Willingness to provide initial four hours of service pro bono