

#### Sports Science Workshop - Timely Nutrition

**Nutrition Department** 

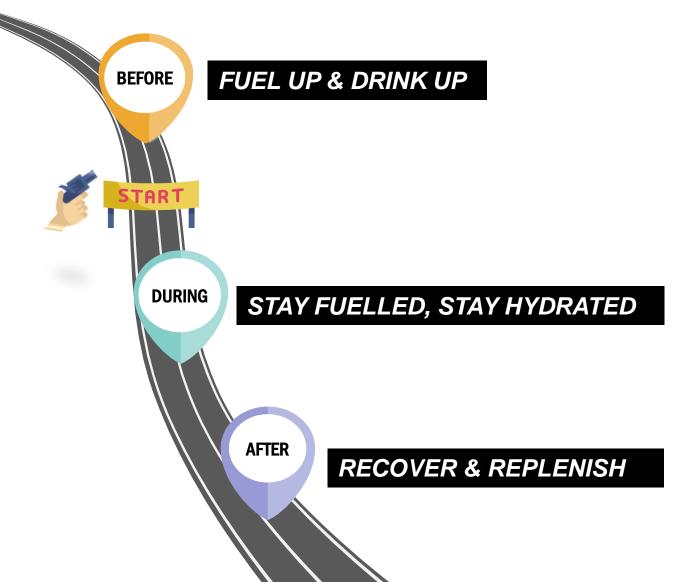
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Senior Sports Dietitian

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**Sports Dietitian** 

#### **Nutrition Goals**



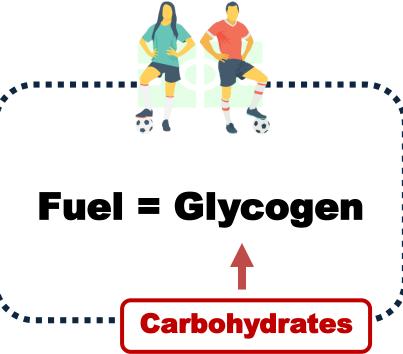


## **Key Nutrition Strategies #1: What To Eat?**





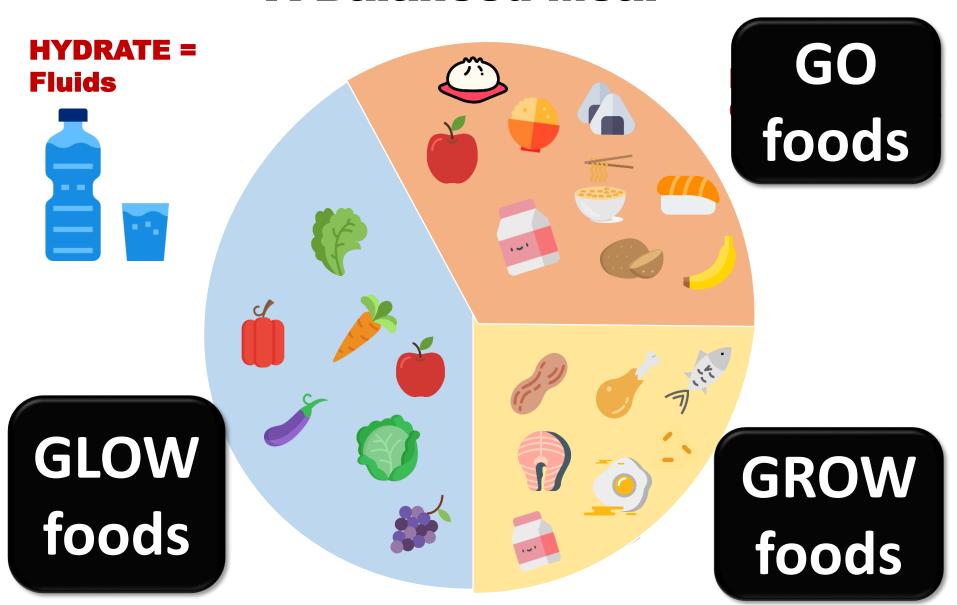
Fuel = Petrol



#### **A Balanced Meal**

**HYDRATE** = FUEL = **Fluids Carbohydrates RECOVER = REPAIR =** Fruits & **Proteins Vegetables** 

#### **A Balanced Meal**





## **Key Nutrition Strategies #2: How Much to Eat?**

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\*\*Body Mass and Stage of Puberty





( Duration of Training/Competition



## LIGHT TRAINING ODERATE TRAINI

# MODERATE TRAINING HEAVY TRAINING





Training volume and intensity vary along the course of your training plan.

Fueling your workout or race should also be cycled according to the intensity of the day or event.

This ensure that you meet your needs for that day or event.

#### Light Intensity

Easy workout Tapering Weight Management

#### Moderate Intensity

Baseline Typical day for most

#### Hard Intensity

Competition Two hard workouts





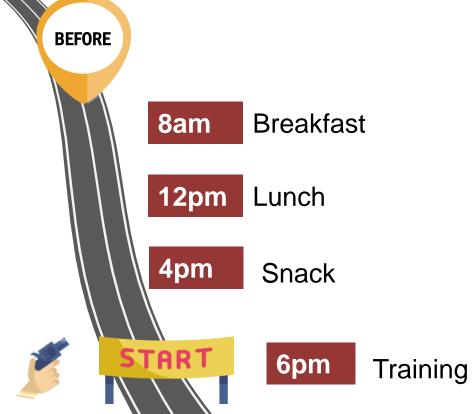




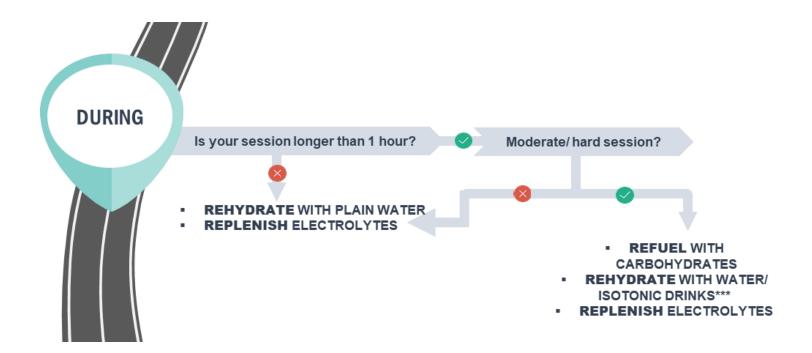
## **Key Nutrition Strategies #3: When to Eat?**

#### **BEFORE TRAINING**

## Not more than 2 hours without fuel!

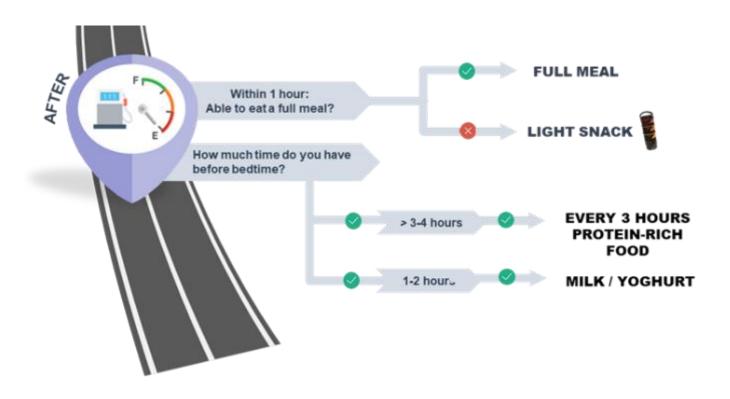


#### **DURING TRAINING**



#### **AFTER TRAINING**

Critical Window: 30-60 mins





## Planning & Preparing Ahead As An Athlete













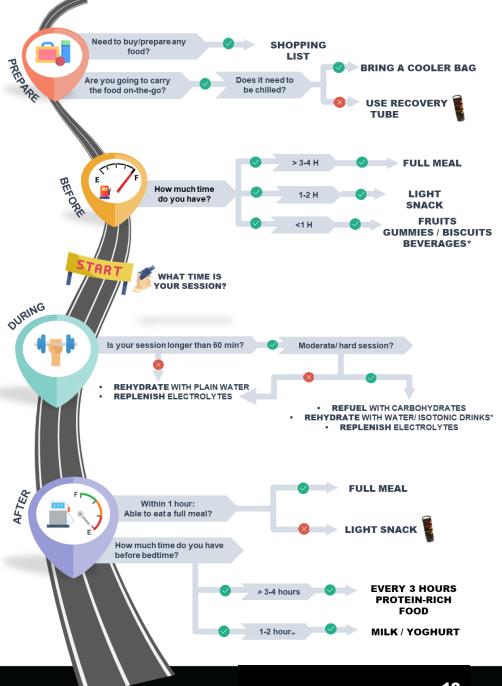






### Some food need to be chilled: Cooler bag is needed

#### **Practical Application #1: Planning Ahead**



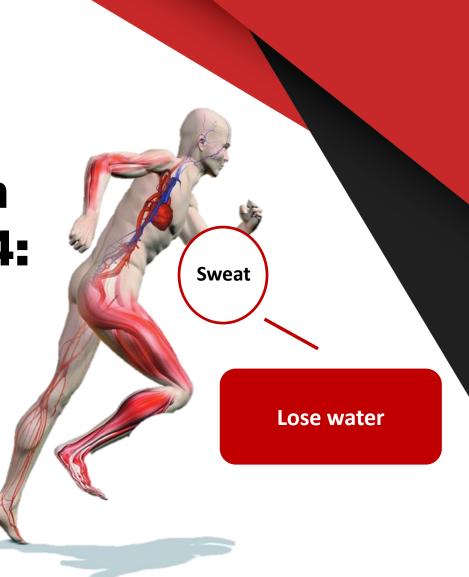
## Practical Application #1: Planning Ahead as an Athlete

- Break into groups of 4-5
- Complete the table in booklet
- Use the flowchart & snack ideas to help you

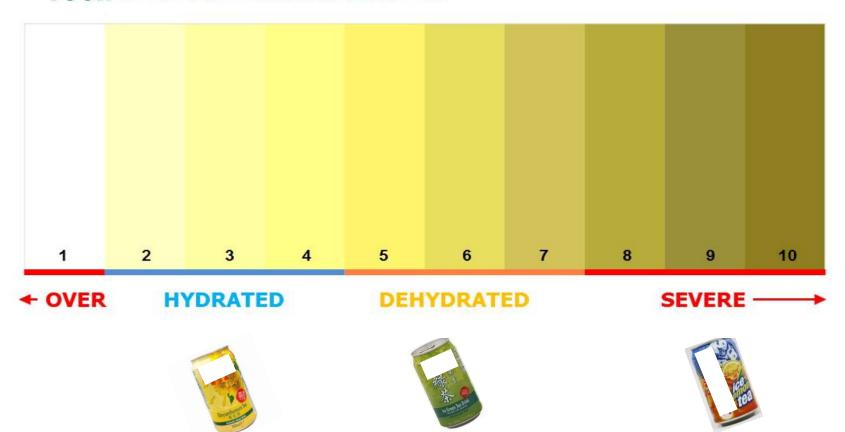
Nutrition Strategy	Planning Needed
Before training/competition	
2-4 hours before:	
Proper meal	
30-60 minutes before:	
Light snack	
During training/competition	
Adequate hydration	
Additional carbohydrates if needed	
After training/competition	
Immediate – 2 hours: Consumption of proper meal with adequate carbohydrates and protein	
Every 3 hourly:	
Consumption of high-quality protein	
Before bed:	
Caesin-rich food item	



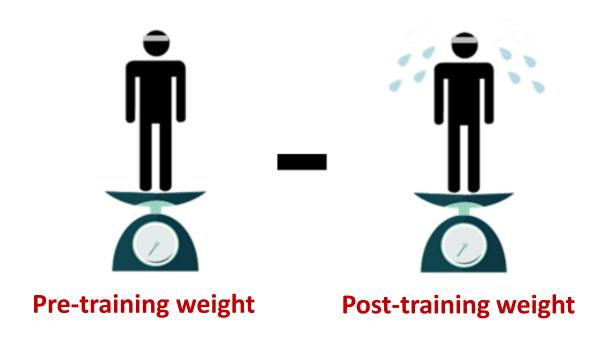
Key Nutrition
Strategies #4:
Preventing
Dehydration



#### CHECK HYDRATION



#### **DEHYDRATION**





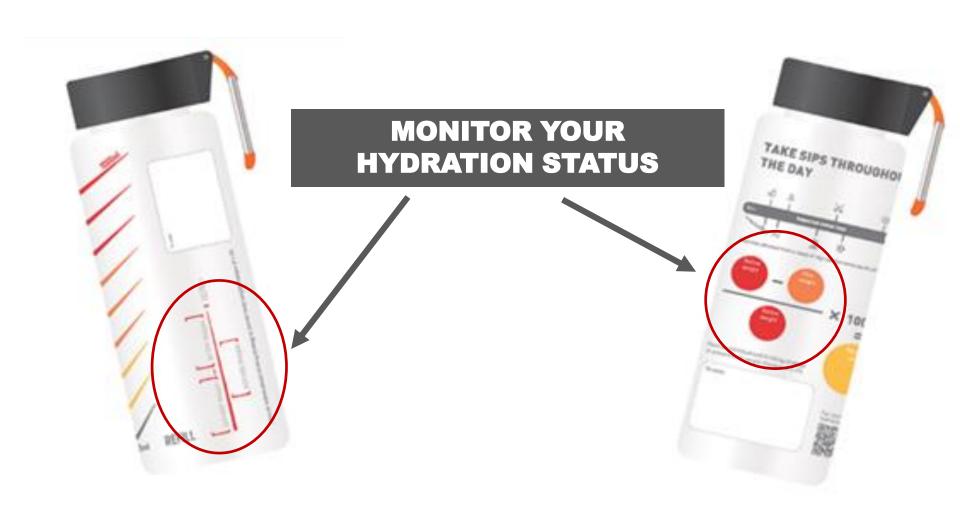
#### Try it out!

#### Pre- & post-training weight

My pre-training weight	60
My post-training weight	58
% body weight loss	3.3%

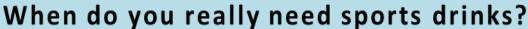
#### **FORMULA:**

```
BEFORE Weight AFTER Weight X 100% =
```



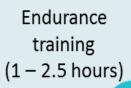








Sustained high intensity training (45- 75 min)



Ultra-endurance training (>2.5 – 3 hours)

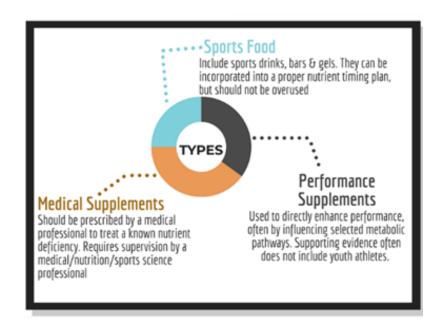




- If required, take sports drink in sips
- Overconsumption of sports drinks may result in excess energy intake

#### SUPPLEMENTS

Supplements are NOT encouraged for youth athletes, and should not be consumed unless necessary. Know the different types, and the risk involved.



Estrogenic Endocrine Disruptors – only 1 part of the danger!





#### THE END