

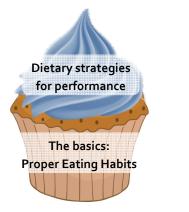
Download 🐖 NYSI app for an activity later





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What we will cover today







Let's talk about ...





(Pressection)



Carbohydrate

- ✓ Key source of energy for training and competition
- Helps build fuel reserves, delay fatigue and improve recovery
- ✓ Helps with concentration

Contains **B vitamins** & iron



We recommend

That athletes eat their normal nutrient requirements + extra for their training and competition

Protein contains essential amino acids to build and repair muscle cells

NATIONA NOTITI SPORTS What do athletes need to eat to keep their bones strong?

We recommend

encouraging athletes to have calcium rich food such as low-fat milk, cheese, yogurt, calcium-fortified soymilk, sardines, ikan billis, tofu



1. Pritchett K, Pritchett R. Chocolate milk: a post-exercise recovery beverage for endurance sports. Med Sport Sci. 2012;59:127-34



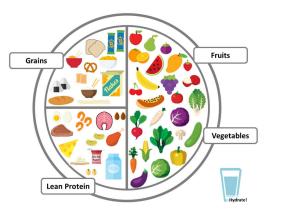


KEY MESSAGE



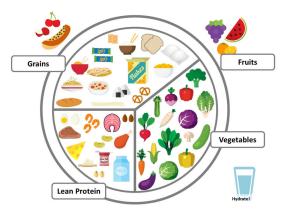
Eat a **RAINBOW!**





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Moderate Training

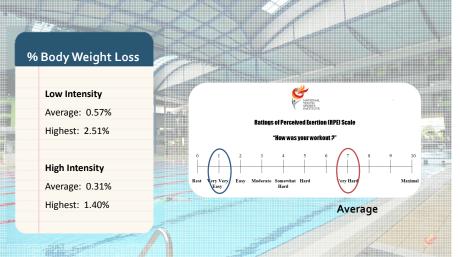




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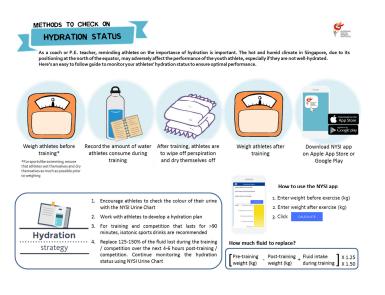






Urine Colour Chart





Activity



Let's calculate the amount of water required!

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Possible strategy to help to keep hydrated



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Makes the strong base







Food First

- Proper eating habits- 5 food groups
- Optimal body functions





NYSI's Nutrition Philosophy – Food First



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Dietary Dietary strategies for performance

The basics: Proper Eating Habits

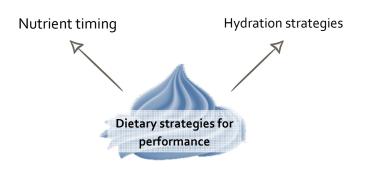
Dietary Strategies

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Dietary strategies are dependent on the purpose

- Training adaptation?
- Recovery?

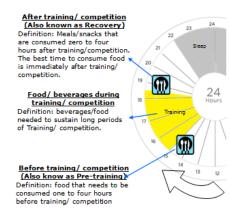
• Refueling/ energy? and so on...



Dietary Strategies



Definition





Training/ competition	Before	During	After
Stay hydrated		\checkmark	
Replenish/ maintain energy		\checkmark	
Repair Training adaptation (only applicable for training)	\checkmark	Х	\checkmark
			P

Before training/ competition



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Purpose

Training/ competition	Before	During	After
Stay hydrated			
Replenish/ maintain energy		\checkmark	
Repair Training adaptation (only applicable for training)	\checkmark	Х	\checkmark

Nutrients Required

Training/ competition	Before	
Stay hydrated	Fluid	
Replenish/ maintain energy	Carbohydrates, vitamins and minerals	
Repair Training adaptation (only applicable for training)	Repairs: Protein, vitamins and minerals Training adaptation: Protein and Carbohydrates	

Pre-exercise meal / snacks



✓ Have your main meals
✓ Best to accompany your meals with water to help with hydration





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Pre-exercise meal / snacks



✓ Snacks*

*Only when hungry / did not fuel enough







During training/ competition

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> NATIONAL FOUTH SPORTS

Purpose

Training/ competition	Before	During	After
Stay hydrated			
Replenish/ maintain energy			
Repair Training adaptation (only applicable for training)		Х	

During - Hydration

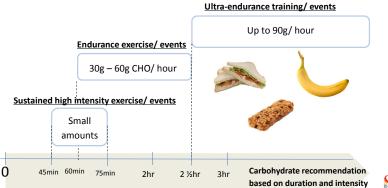


strategy

1. Check athletes' hydration status prior training and competition (See handouts)

- 2. Give athletes enough water breaks
- 3. Remind athletes to take sips of water throughout the day
- 4. Work with the athletes to develop a hydration plan
- 5. For training and competition that lasts for >90 minutes, isotonic sports drinks are recommended
- 6. Speak to a NYSI nutritionist if athletes are constantly dehydrated

During – Carbohydrates Intake



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After training/ competition

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Purpose

Stay hydrated Replenish/ maintain energy			\checkmark
Replenish/ maintain energy		1	
	V	\checkmark	\checkmark
Repair Training adaptation (only applicable for training)	\checkmark	Х	

Post-exercise meal / snacks

Window of Opportunity

Within 45 minutes post training and competition







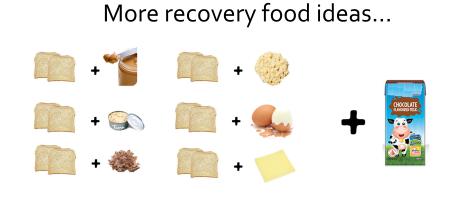
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More recovery food ideas...



Store perishable food in a cooler bag + ice pack if left out for more than 1 hour

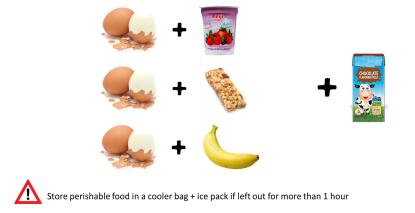




Store perishable food in a cooler bag + ice pack if left out for more than 1 hour

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More recovery food ideas...



Activity



/!\

Try to think of one competition event or training sessions within a day.

Let's plan when meals and snacks should be consumed.

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Case Study: Football Competition



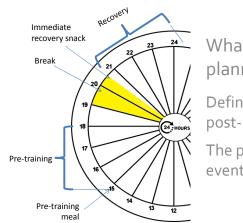
Competition starts at 7pm and ends at ~8:30.

Game is played:

- 90 min game with 45min halves
- Half time: 15min break



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What you need when planning:

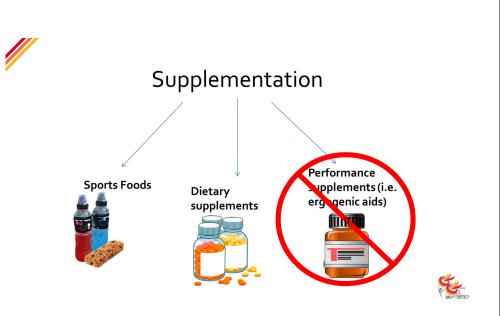
Definition of pre-, during and post- training

The practical needs of the event/individual









- Youth athletes have the potential to have greater performance enhancement through maturation and experience in their sport.
- As youth athletes are yet to be seasoned and welltrained, performance supplements should not be encouraged.

Performance supplements (i.e. ergogenic aids)



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Dietary

• Should be medically warranted. supplements • Used to treat clinical issues but cannot

compensate for poor food choices and inadequate intakes





• Specialized products used to provide a practical source of nutrients when it is impractical to consume at that point in time.

 Requires individual assessment

Summary....

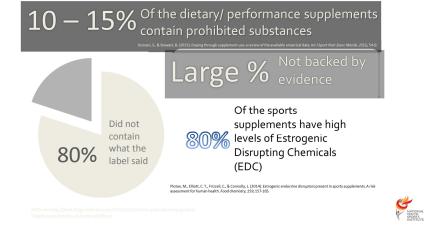
- Claims on the label may not mean it contains or not contain • certain substances/ingredients.
- Blends do not have to list the amount of each ingredients so • unable to determine how much of the ingredients are in the product.
- Look out for ingredients ending in ol, -diol or -stene or ingredients that contain a lot of numbers – these may be steroids, stimulants, etc.





If something seems to be too good to be true, it usually is

Did you know....



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What are EDCs?

- Substances that can interfere with normal functioning of the body's endocrine system
- Endocrine system controls the way the body develops and functions
- Examples:
 - BPA
 - Dioxin
 - Lead
 - Arsenic
 - Mercury, etc...



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WADA



- The WADA prohibited list is updated every year
- 2017s Prohibited list is out.
 Please spend the time to look at the updates – just to get familiar

https://www.wada-ama.org/en/what-we-do/prohibited-list

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Therapeutic Use Exemptions (TUEs)

		Anti- Singa	Doping pore		
			0	TUE Case No:	
		THERAPEUTIC USE APPLICATION	ON FORM		
7. Physicia	ns are required to (n capital letters. Athlet complete sections 2, 3 s will need to re-submit	and 4. All ille		
		1. Athlete	information		
Sumame:		Given Nar	ie:		
Male	Female	Date of Bi	th (ddmm/yyy)	£	
Address:					
Country:			Postal Co	fe:	
Telephone:		(H)		(0)	(HF
Email:					
Sport:			Disciple	14: 1	
National Spr	orts Association (NSA	W:			
International	Federation (IF):				
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		apore's Registered Testin			
		Sports Excellence Card			
required'	topating in a NSA's	National Championship fi	or which a TUE	granted pursuan	t to the NSA's rules is
Name of Co					
	vels, please state:				
If you are an indicate the	athlete with impairm impairment:	ent, please			
	Minely				

www.antidoping.org.sg.

TUE application must be made by the athlete to the ADS:

- carded athletes under Sport Singapore
- Athletes participating in NSA's National Championships (dependent on NSAs' rules)
- Other levels where TUE is required



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Therapeutic Use Exemptions (TUEs)



ww.antidoping.org.se

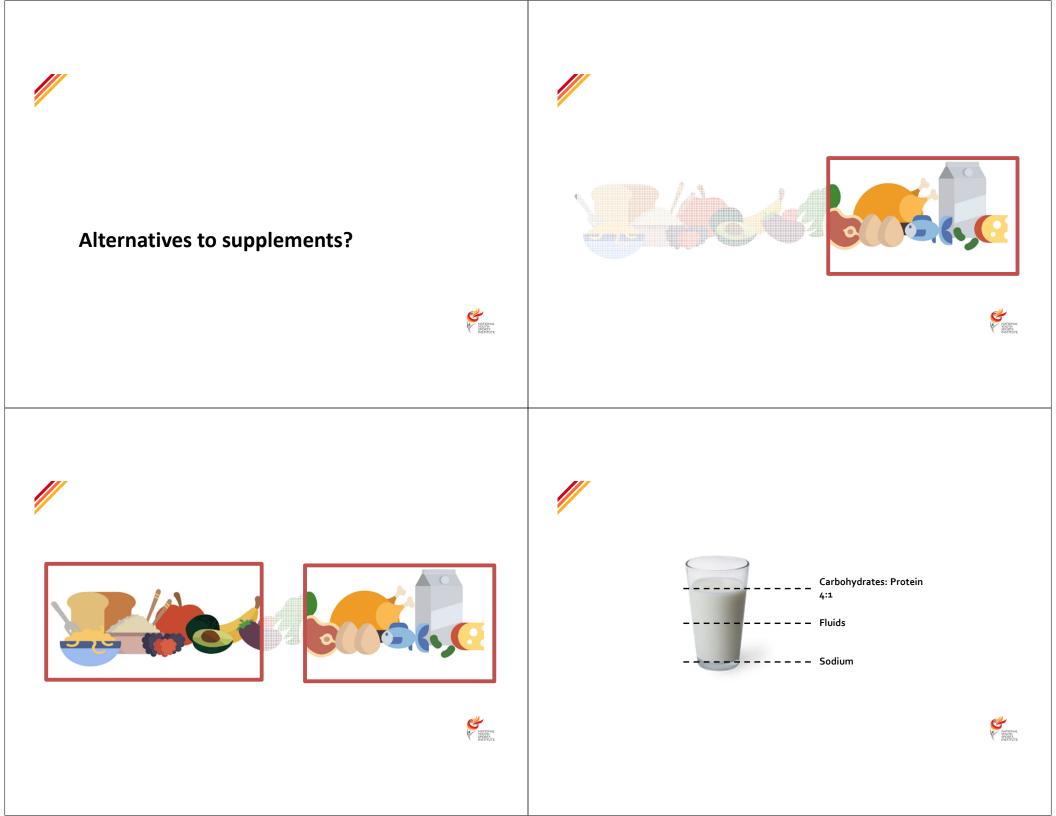
MUST submit their applications within <u>30 days</u> prior to participating in an event.

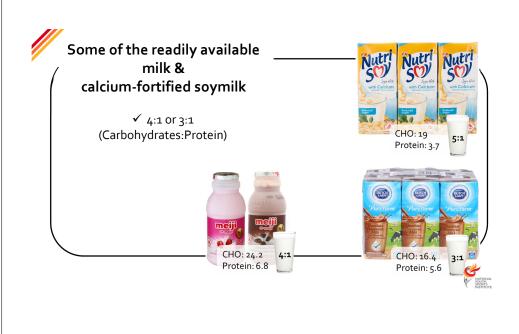
 Recommended: submit TUEs as soon as medical condition that requires the use of prohibited substances or methods is diagnosed. Those that have the privilege to know, have the duty to act

~Albert Einstein~











NATION

So How much does my athlete need?

Carbohydrates

• These amounts depends on the intensity, duration and environmental conditions

Activity level	Carbohydrate target
Low intensity or Skilled-based activities	3—5g /kg/ day
Moderate exercise programme (~1 hour per day)	5—7g/kg/day
Endurance programme (e.g. 1 to 3 hours per day of moderate to high intensity exercise	6—10g/kg/day
Extreme commitment (i.e. > 4—5 hours per day of moderate to high intensity exercise)	8—12g/kg/day

So How much does my athlete need? Protein

• Take note that these estimated intakes can be generally be met through diet alone.

Group	Protein intake (g/kg/day)
Sedentary men and women	0.8-1.0
Competitive/ elite Youth athletes	~1.3-1.8
Youth athletes: during periods of intensified training/ reduced energy intakes	Up to 2.5

