

### Isle of Man Cricket

Nutrition & Hydration



# Task: Why think about sports nutrition?



### Importance of sports nutrition?

- Maximises performance IT IS PERFORMANCE ENHANCING.
- Improves recovery and repair after a game or training.
- It limits illness and injury rate and reduces recovery time after injury.



## Task What does a healthy diet contain. What do we already know?



# "There is no such thing as bad food, only a bad diet"

## What does a healthy diet contain?







### Importance of Carbohydrates for Sport

- Exercising muscles rely on carbohydrate as their main source of fuel.
- In general, the more intense your training programme, the more carbohydrate you need.



### Carbohydrate Sources









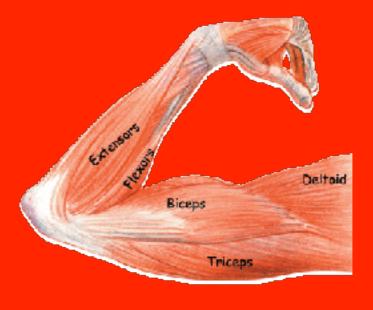






## Protein - What does it do?

- Building and repairing muscle
- Aids recovery















### Fruit and Vegetables

- Eat plenty, at least 5 portions a day (2-3 per meal).
- They provide essential vitamins and minerals to aid the immune system in fighting illness and disease and protect against muscle/ tissue damage.
- They contain dietary fibre, which aids digestion





### Milk and dairy foods

- Good source of calcium for strong bones and teeth.
- Important for growing teenagers and young people.





### Refuelling After Sport



 Eat a recovery snack containing carbohydrate and protein after exercise to boost glycogen storage, reduce muscle soreness and promote muscle repair.

Can you think of good recovery snack to be consumed after a high intensity fitness and fielding session?





### Iron

- Needed for making red blood cells which transport oxygen.
- Essential role in a healthy immune system.

What foods provide us with iron?

### Hydration in Sport



### What is the impact of poor hydration?







### H<sub>2</sub>...OH REALLY?

#### THIRST

Thirst is a useful indicator of daily fluid requirements. Unfortunately, it's not fully reliable since the body is already mildly dehydrated by the time an average person starts to notice thirst.<sup>1</sup>

#### SKIN

Dehydration results in dry skin and wrinkles.<sup>2</sup>

#### **KIDNEYS**

Higher water intake is shown to have a protective impact on the kidneys, and there is initial evidence that CKD (Chronic Kidney Disease) may be inversely related to higher water intake.<sup>3</sup>

A study by Dai et all found a strong protective effect of fluid intake in preventing kidney stone formation in men.<sup>4</sup>

### **PHYSICAL**

Studies have shown that the modest level of dehydration (2% of body mass) can result in around a 20% decrease in physical performance levels in temperate climates and up to a 40% decrease in hot temperatures.<sup>5</sup>

#### MENTAL

Dehydration can degrade specific aspects of cognitive performance including visual vigilance, tension, anxiety, fatigue and visual working memory. Dehydration was also linked to negative mood rating, impaired motor performance and shortterm memory.<sup>6</sup>

#### DEHYDRATION

A 1% loss of body mass due to fluid loss is defined as dehydration.

### WEIGHTLOSS

Opting for water instead of sugary drinks can help reduce body weight and fat levels. According to Stookey, just drinking 500 ml (17 oz) of water increases energy expenditure by 100kJ. Findings in the same study indicate that an absolute increase in drinking water to to ≥ 1l (34 oz)/day was associated with ~2 kg or 5 lbs weight loss over 12 months.

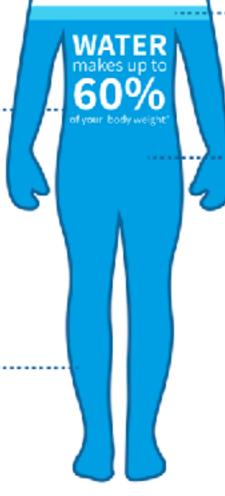
#### \*WATER

Water plays crucial roles, in transporting nutrients and waste products between our major organs and helping regulate temperature.<sup>9</sup>

2) Notice, K.M., Lackey, C.J., & Grandjean, A.C. Mydighter and Heelth promotion. Nutrition in Body: 2005; 44: 136-291.
2) Allanta dermatologist Remoth States, M.S.
3) Sentand desir, 2012) An. J. Of Rightenberg, 4) Gall dest. (2012). An. J. Of Rightenberg, 9) Gallon St. (2012). 49 Possiblantino (23) 2
5) Placement F. Ph. (1) (1) (8) Boothly Hydroxion for Physical Activity Multifrion Tedgy, Johnson, No. 63
6) Gando et al., 2009, 574c; et al., 2009; Smithert al., 2012.

E) Ganto et al., 2010; D'Acci et al., 2000; Smithet al., 2012 E) Wild set SM. Writer An executal but overlooked nutrient. J Am Districtions 1999-91 2017.

8) Stockey, J. D., Constant, F., Popido, B. M. and Gerdeor, C. B. (2000) Oberley, 14: 5481–5488. 8) Repoler E & Constant F (2014) Ser. J. Clin: Motor as pre-supertial outside.



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#### **Urine Color Chart**

1	If your urine matches these colors, you are drinking enough fluids
2	Drink more water to get the ideal color in Shade 1 and 2.
3	Dehydrated
4	You may suffer from cramps and heat-related problems
5	Health risk! Drink more water.
6	Health risk! Drink more water.
7	Health risk! Drink more water.
8	Health risk! Drink more water.





### Best drinking options

### Water



### Sport Drinks

- Low to moderate intensity exercise that lasts less than an hour i.e. when sweat losses are low - Water
- Moderate to hard sessions that last longer than an hour i.e. when sweat losses are greater - Isotonic sports drink









# Scenario Between innings in a 40 over Super 2s match. What should you bring as your lunch?

