

From the series:
Best Practice Sharing of
Innovative and Disruptive
Field Hockey Skills Erasmus+
Program 2019 - 2020













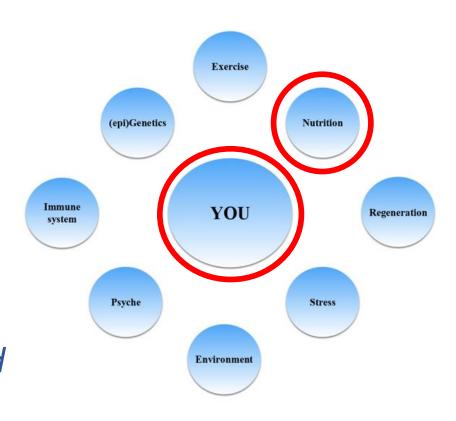




A collaboration between

- Every part around YOU is important and plays a role in your performance
- Holistic approach exercises, stress, health and NUTRITION
- Food should be your medicine
- Teach and explain the basics of nutrition to young athletes

"Like a car, putting in the best fuel will help lead to good performance"









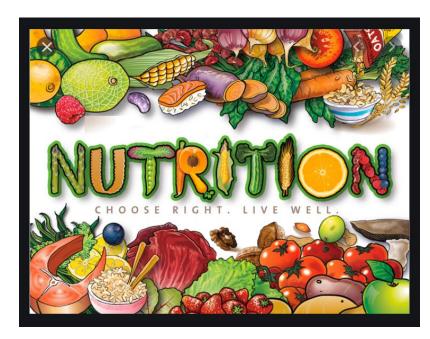








What are the benefits of balanced nutrition?



- √ Higher energy level
- ✓ Better muscle strength
- ✓ More flexibility
- ✓ Optimal concentration
- ✓ Injury prevention
- ✓ Less illness



TASK – write down a sample of your food on a regular day

(food and drinks as well....BE HONEST)















Anne, girl, 14 years old, 9th grader hockey and dance



Breakfast: 1 glass orange juice, 1 slice of bread with cheese/banana

1st break: 1 rice cake, 1 bottle of water

2nd break: 2 slices of bread, Bolagna sausage

16.00: apple and a glass of milk

18.30: spaghetti, (Greek yogurt (Danone) and water

20.00: cookie and tea















Nutrients can be divided into 2 categories:

 MICRONUTRIENTS - nutrients that the body needs in smaller amounts (<u>vitamins</u>, minerals)

 MACRONUTRIENTS - nutrients that the body needs in large amounts. These provide the body with energy (calories)













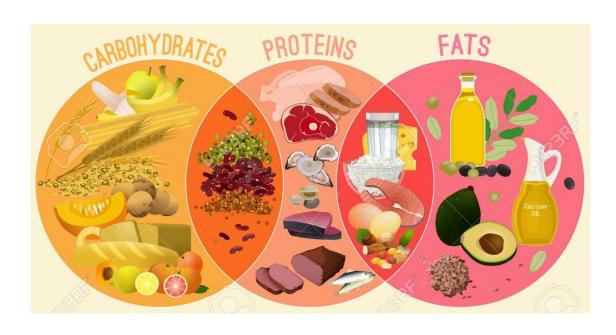




MACRONUTRIENTS

IMPORTANT **MACRONUTRIENTS** TO KNOW:

- 1. PROTEIN
- 2. CARBOHYDRATES
- 3. FATS



MACRONUTRIENTS = ENERGY FOR THE BODY













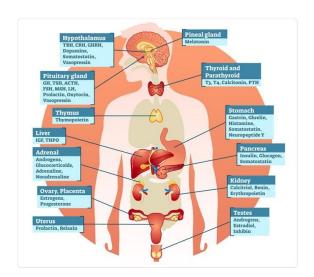


1) PROTEIN

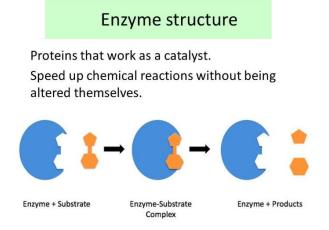
does a variety of jobs in the human body

Protein functions as:

hormone



enzyme



antibody in the immune system

ANTIBODY CLASSIFICATION IgG IgB IgA Joining chain protein









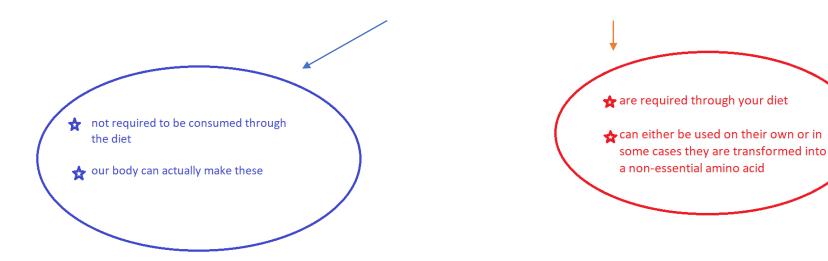






1) PROTEIN

- allows your body to grow, build and repair tissues, and protect lean body mass (your muscle mass)
- is composed of amino acids (building blocks of protein)
- 2 types of amino acids: non-essential and essential

















1) PROTEIN

1 to 1,5 gram per kg of body weight



For example 50 kilo; 50-75 gram; you all 75 gram

1 egg = 10 gram
100 gram fish = 20 gram
100 gram meat = 20 gram
100 gram greek yoghurt = 7-10 gram
100 gram nuts = 15 gram
100 gram legumes = 4-10 gram

HIGH-PROTEIN FOODS:

- Meat
- Fish and seafood
- Milk and dairy products
- Eggs
- Legumes
- Grain products
- Nuts
- Soy products



Consuming **protein after exercise** helps the muscles to heal and prevents the loss of lean mass.















1) WHAT ABOUT ANNE?



Was Anne protein intake sufficient?



Anne is 1,62 m and weighs 53 kilo, very active in sports, so we'll take 1,5 gr per kg body weight = **79.5** gram protein per day!!!

Anne, girl, 14 years old, 9th grader hockey and dance

Breakfast: 1 glass orange juice, 1 slice of bread with cheese/banana

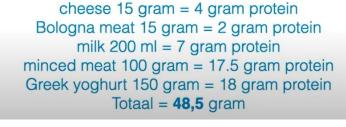
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What about you based on your daily food sample?















2) CARBOHYDRATES

- All carbohydrates are eventually broken down into glucose, which is the main energy source for your body
- In fact, specific organs, such as your brain, need glucose in order to function properly
- 2 types:
 - ✓ SIMPLE CARBOHYDRATES
 - ✓ COMPLEX CARBOHYDRATES

















2) CARBOHYDRATES

SIMPLE CARBOHYDRATES

- are broken down fairly quickly in the body.
- have a quick and fleeting impact on blood sugar levels
- blood sugar (and energy) levels typically rise quickly then drop after consuming simple carbs



COMPLEX CARBOHYDRATES

- take longer to break down for use in the body
- have a steady impact on blood glucose levels
- particularly fiber, can help the body to maintain healthy digestive function and cholesterol levels

Don't forget to eat ideally 2-2 1/2 cups of VEGGIES a day and 2-3 pcs of FRUIT a day.















2) WHAT ABOUT ANNE?



Let's have a look at her daily carbs intake:



Anne is 1,62 m en weighs 53 kilo, plays lots of, so we'll take 4 gr per kg body weight = **212** gram carbohydrates per day!!!

Anne, girl, 14 years old, 9th grader hockey and dance

Breakfast: 1 glass orange juice, 1 slice of bread with cheese/banana

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fresh orange juice 200 ml = 18 gram KH
3 slices of bread = 45 gram KH
1 rice cake = 6 gram KH
2 pieces of fruit = 50 gram KH
250 gram spaghetti = 80 gram KH
Greek yoghurt 100 gram = 19 gram KH
1 cinnamon biscuit = 10 gram KH
Total 228 gram

Now is your turn to look at how much carbohydrates do you consume a day.

And don't forget to also check which type of carbs you choose ©.















3) FATS

- are nutrients in food that the body uses to build nerve tissue (including the brain and nerves)
- makes certain hormones
- absorbs fat soluble vitamins
- helps with <u>cell membrane integrity</u>
- are used as a fuel for the body
- gives food flavor and texture











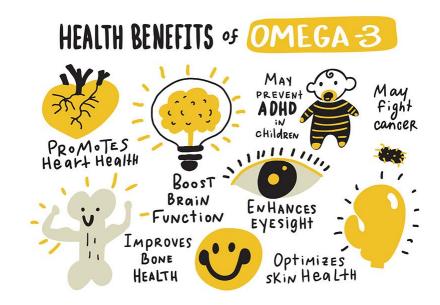




3) FATS

Fatty acids are classified in the following 3 categories. Some are much more healthful than others.

	SOURCES
SATURATED FAT	Meat products, dairy products, butter, coconut butter
MONO- AND POLY- UNSATURATED FAT	Olive oil, flaxseed oil, canola oil, safflower oil, wheat germ oil, coldwater fish, nuts, avocados
TRANS FAT	Baked goods, fried foods, some types of margarine



Getting enough healthy fats is **essential for growth and development**. Young kids, in particular, need enough of them in their diet to help the brain and nervous system develop normally.















3) FATS

TIPS FOR GOOD CHOICES:

- Olive oil add it to your salads, 2 tsp/day, good as an energy source, for skin and flexibility
- Avocado
- Fish 2 a week, 1 a week choose an oily fish (salmon, macrel)
- As a spread on bread consider butter instead of margarine

Around 30g/per day is recommended



Did you know that omega-3 reduce inflammation?















3) WHAT ABOUT ANNE?



Time to look at fat intake:



Anne is 1,62 m and weighs 53 kilo, fat needs to be spread over the day ... 3 times about 30 gram

"good" non

> "in between" Bologna sausage

Anne, girl, 14 years old, 9th grader hockey and dance

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1st meal 10 gram cheese = 2 gram fat 3e meal none.

total 6 gram....

And where are you standing when looking at fat consumption per day?

Try to take smart choices and reach for the healthier fats.















cookie

2nd meal 10 gram suasage = 4 gram fat

EVALUATION OF AN EXAMPLE OF A FOOD DIARY

Anne – enough CARBS, low on PROTEIN and FAT





solution: eat more healthy fats and more protein

TIME TO EVALUATE YOUR FOOD CHOICES

- Are you getting enough nutrients?
- What could you change?















Remember the **food** you eat have big effects on your **health and performance**

For children/athletes:

- ✓ Eat plenty of vegetables and 2-3 pics of fruit plus the "in between" carbohydrates best before training/game (2 hours) and directly after
- √ Make sure you get enough protein 1,5g/per kg and as quick as possible after training/game (like handfull of nuts)
- ✓ Make smart choices when it comes to fat and try to spread it through the day (with your every meal for example 3 x day)

If your food is balanced, is there anything else that can be effecting your performance?SLEEP, STRESS, SCHOOL, WORK, REGENERATION















HOW TO HELP YOUR TEAM?

How is your team doing in the area of nutrition?

How can you help your team to make better choices?

Pre Sport Snacks Tips

https://halsanutrition.com/wp-content/uploads/2019/09/Pre-Sport-Snacks-For-Teens-Halsanutrition.pdf

https://www.stack.com/a/pre-game-snacks-for-athletes

https://www.eatright.org/fitness/sports-and-performance/tips-for-athletes/gameday-nutrition-tips-for-young-athletes

- Tips for wellbeing applications
- https://healthy-kids.com.au/kids/high-school-2/apps-for-wellbeing/















Key messages

Every part around YOU is important and plays role in your performance

Holistic approach – exercises, stress, health and NUTRITION

Food should be your medicine, make the right choices

 Educate young athletes to understand and be aware that they can start making healthy choices and influence their own wellbeing and performance















Reference materials

- Session with Sascha van Lith Erasmus Programme
- https://www.runtastic.com/blog/en/what-are-macronutrients/
- https://mynutrition.wsu.edu/nutrition-basics
- https://healthy-kids.com.au/kids/high-school-2/macronutrients/
- https://www.verywellfit.com/macronutrients-2242006
- https://www.heart.org/en/healthy-living/healthy-eating/eat-smart/fats/4-ways-to-get-good-fats-infographic
- Find all presentations from this program on :















Thanks

This ready-to-share-presentation is a joint result of cooperation between 6 hockey coaches from Poland, Austria and Czech Republic, Hockey Club Den Bosch, the Dutch Hockey Federation and the EHF. This program is supported by the Erasmus+ program.

Big thanks to:

- Sascha van Lith for her inspiration on this topic. Sascha is a trained physiotherapist with over 25 years experience. She is also a trainer and coach.
- The 6 participants Alicja Koperska, Karolina Paterson, Sabine Blemenschütz, Łukasz Kosmaczewski, Vojta Kolář, Gerhard Kubassa who put their time, energy and passion into preparing materials and programs for sharing throughout the country
- Claudine Schiefer from HC Den Bosch for coordination and support
- Tom Pedersen from the EHF for teaming up and providing advice in this program
- Gino Schilders from the Czech Hockey Federation for leading the program
- Jana Janotová and Miguel Romero from Erasmus+ for their kind guidance and support















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What is more pure then giving without expecting something in return?















Thank you

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