Compared to last year, the demand for the specialty «Public Administration» increased in the TOP-10.

Thus, there is a steady demand for economic specialties in the market of educational services of Ukraine, especially high demand is observed for the specialty «International Economic Relations».

References:

PROTEIN CONSUMPTION LIKE A FOOD SECURITY INDEX OF THE COUNTRY

Natela Kordzaia¹
Bogdan Iegorov²

DOI: https://doi.org/10.30525/978-9934-588-39-6-49

A global food security problem today is more than ever.
There is no country in the world that is concerned with food security. This includes food products production, their distribution, domestic consumption, imports and exports, etc. However, each country has its own features of

¹ Odessa National Academy of Food Technologies, Ukraine
² Odessa National Academy of Food Technologies, Ukraine
improving the food supply of its population, depending on the level achieved in solving this problem and the impact of various factors [1].

According to the Food and Agriculture Organization of the United Nations (FAO) experts «Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life» [1-3].

The term «food security» includes quite a few major elements of which recognized the quality of foods that people consume [1]. And the basic food products quality is its physicochemical properties, namely the chemical composition, that is the content and ratio of the main nutrients – proteins, fats, carbohydrates, micro and macronutrients, vitamins and others.

The greatest attention is always paid, primarily protein compounds (proteins), because they are the basis of all the cells of living beings.

The problem of protein nutrition in the modern world is quite important, but unfortunately, this problem is not given proper attention in the territory of our country and its neighboring countries.

Among the most famous scientists who deal with the regulation of the consumption of the necessary substances of the human body substances can be distinguished Ukrainian Professor Smolyar V. [4], American scientists Guoyao Wu [5], Millward, D.J. [6], Rand W. [7]; Australian scientist Nowson C. [8]; researchers from the UK Lonnie M. [9]; the Swedish scientist Hörmell A. [10] and others.

Today, there are many recommendations from the world organizations and well-known scientists on the correct protein nutrition, which can ensure the proper functioning of the human body. At the same time, there are almost no common guidelines for protein intake for the different age groups.

According to the collaborative work of a team of scientists such as J. Amaya-Farfán, B. Beauprè, N. Butte et al., as well as by scientists and specialists from WHO, FAO and the UN, the optimal level of protein consumption by children from birth to 4 months should be from 1.77 g/kg body weight per day at the age of 1 month to 1.24 g/kg body weight per day at the age of 4 months [11]. For children age of 1, 5 and 10 years, protein intake recommendations are 1.31; 0.85 and 0.91 g/kg body weight per day, respectively [11].

As for the features of protein nutrition in adolescence, it can be said that the existing recommendations in the world today are quite different.

Thus, according to research by scientists of the Institute of Medicine of the National Academy of Sciences of the USA, the need for protein for young people aged 18 years is on average 0.93 g/kg body weight per day [12]. And according to the Ministry of Health of New Zealand, boys aged 15… 18 years
should consume protein at 0.99 g/kg body weight per day, girls of the same age – 0.77 g/kg respectively [13].

For adults, according to the recommendations of WHO, FAO and the UN can be considered the minimum level of protein intake on level 0.83 g/kg body weight per day [11], although in the studies of American scientists Rand W., Pellett P. and Young V. was found a minimum need for protein consumption by adults at the level of 0.66 g/kg body weight per day [7]. These results are consistent with the results of studies by another American at the Institute of Medicine of the US National Academy of Sciences, who also established a protein requirement for adults at 0.66 g/kg body weight per day [12].

It should be noted that based on age and gender, the need for not only total protein but also protein of animal origin is changing [10; 14]. Thus, at the beginning of life, the human body, regardless of gender, requires the same amount of animal protein. The proportion of animal protein in the daily requirement, both for boys and girls aged 0-3 months is 100%. Further, this amount decreases a little and is at the following levels: at the age of 4-6 months – 96%, at the age of 1-3 years – 79%, at the age of 4-7 years – 70%, at the age of 7-10 years – 71%. Then, girls' need for protein before reaching the age of 18 does not change and is at 71%, and for boys this need increases to 73-74% aged of 11-17. For adults, the proportion of protein of animal origin should be at level of 50%, regardless of age, gender and physical activity [10; 14]. Although such recommendations are contrary to the results of Guoyao Wu research [5]. Thus, it can be said that the average need for protein of animal origin for children aged one year to 17 years is 71.8% for boys and 70.8% for girls, for adults this figure for the entire lifetime is 50% [10; 14]. But the results of studies conducted by a team of British scientists, such as Lonnie M., Hooker E., Brunstrom J., Corfe B.M., the actual average daily intake of animal protein adults was 60% [9].

As a result of a careful analysis of the world-wide recommendations on protein nutrition of the population of the country, and in particular of protein intake, we can speak of the following. As a result of a careful analysis of the world-wide recommendations on protein nutrition of the population of the country, and in particular of protein intake, we can speak of the following. To calculate the needs for high-protein foods to ensure the nutritional status of the Ukrainian population at the physiological needs, the average norms of daily protein intake can be taken at the following levels:

- 1.34 g/kg body weight per day for boys and 1.39 g/kg body weight per day for girls up to 1 year old inclusive;
- 0.96…1.0 g/kg of body weight per day for children aged 2…3 years;
- 0.85…0.94 g/kg body weight per day for children aged 4…6 years;
- 0.86…0.88 g/kg body weight per day for children aged 7…10 years;
– 0.97… 0.94 g/kg body weight per day for children aged 11… 14 years;
– 0.92… 0.87 g/kg body weight per day for boys and girls aged 15… 18 years;
– 0.78 g/kg body weight per day for adults (19… 59 years);
– 1.02 g/kg body weight per day for people aged 60… 64 years;
– 1.17 g/kg body weight per day for body weight for people 75 years and older.

Also it should be taken into account that the need for animal protein (as a percentage of total consumption) will be at the following levels: 79% for children from birth to 1 year inclusive; 70… 74% for children aged 2….18 years; 50% for adults and seniors.

Defined norms of protein nutrition of the population of the country will allow to provide quality and benefit of domestic food products, thereby increasing its competitiveness in comparison with imported counterparts. And the high quality and competitiveness of the country's food is the key to improving its food security.

In the future, the continuation of this study can be a calculation of the average actual population protein consumption in Ukraine and to compare these values with recommended.

References:
10. Hörnell A., Lagström H. Lande B., Inga Thorsdottir I. Protein intake from 0 to 18 years of age and its relation to health: a systematic literature review for the
FORMATION OF THE UNION MARKET OF PRODUCTS OF THE EU: EVOLUTION AND LIBERALIZATION

Inna Ukhanova¹

DOI: https://doi.org/10.30525/978-9934-588-39-6-50

The common market of the countries of Europe was established by the Treaty of Rome, according to which, the opportunities for free trade of goods within the European Community should be formed. Such step has made it possible to create a strong foundation for the formation of a common economy, however, as in any movement towards integration, the formation of a single market of goods was accompanied by certain problems. That is why, although today it is believed that the EU common goods market has already been formed, there remain outstanding issues that require the development of additional regulatory documents and an agreed policy among EU governments.

Initially, the free movement of goods was an element of the customs union, later emphasis was placed on removing all barriers to the freedom of

¹ Odessa National Economic University, Ukraine