

**MODEL OF PERFECT CHEMICAL COMPOSITION
OF THE PRODUCT ACCORDING TO
THE REQUIREMENTS OF NUTRICIOLOGY**

The solution to the problem of nutrition of the population should be based on modern theories and concepts of food that give the answer to the question of what requirements must meet the modern food ration. In accordance with the requirements of nutriology, for each population established norms of daily requirement of chemicals, taking into account age, physical activity and health.

The proposed model of the chemical composition of a perfect food product, that meets the requirements of nutriology to chemical composition of the food, and presented in the form of a three-level hierarchical tree. At the first level of the hierarchical tree shows the chemical composition of proteins, fats and carbohydrates in 100 g of a food product according in a ratio of 1:1,1:5,5. On the second level of the hierarchical tree, the total number of proteins is divided into essential and non-essential amino acids, fat is divided into saturated, monounsaturated and polyunsaturated fatty acids, carbohydrates divided by the content of mono- and disaccharides, organic acids and polysaccharides. At the third level of the hierarchical tree of indicators of the chemical composition, the total content of essential amino acids into individual amino acids, polyunsaturated fatty acids are classified on the content of fatty acids w-6 and w-3. The total amount of polysaccharides is divided by the content of soluble polysaccharides and content of dietary fiber. To assess compliance of the chemical composition of real food the ideal food, you must use the formulas for the calculation of complex indicators at the first, second and third levels. Using the model of an ideal food product to provide a quantitative comparative assessment of the impact of new raw ingredients on the chemical composition of the product in the development of new formulations and improvement of existing food products with biologically active substances.

KEY WORDS: *nutriology, qualimetry, chemical composition, calories, diet*