A fundamental problem of creating long-term nutrition system for dietary therapy is considered in the article. The results of the research directed towards the provision of a specific level of the diversity of the components of long-term nutrition system – expendable and daily diets – are laid out.

Based on the totality of twice filtered expendable diets of the third generation of various types (breakfasts and lunches, dinners, suppers) and using the designed program for projecting daily rations by means of a personal computer, a large number (10000 repetition-free daily diets providing daily needs in nutrients and energy) are designed. The level of daily needs provision in nutrients and energy (by each of daily diets) is quantitatively assessed.

It is determined that among the projected there are many rations characterized by a high level of daily needs provision in nutrients and energy. A large totality of qualitative daily diets forms conditions for the consideration of the problem concerning the improvement of long-term nutrition system – provision of a high level of the nutrition diversity through projecting cyclic multi-week diet. This diet is projected based on daily diets. Taking into consideration that the best daily diets range from 1 to 1000 (out of 10 000), this totality of daily diets can be attracted to the creation of cyclic diet of long-term nutrition system for dietary therapy.

In perspective, it is planned to project multi-day cyclic ration of the nutrition system for several weeks after the analysis of the offered target function – the sum of relative values of incomplete provision of daily diets in nutrients and energy, and with the account of the number of parameters in each daily diet characterized by the incomplete provision of daily needs.

**Keywords:** daily diets, projecting, nutrition systems, daily requirements, expendable diets, nutrients, energy value.