研究業績 英文表記

和文	
表題	日本食品標準成分表の改訂が 1600kcal 糖尿病食(エネルギーコントロール食)に及ぼ す影響について
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英文	
Title	Effects of revising the standard food composition tables in Japan to 1600 kcal menus (energy-controlled diet) for patients with diabetes
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Abstract	Objectives: In December 2020, the standard food composition tables in Japan were revised from the 7th to the 8th revised edition. In view of this revision, nutrient values of the diabetic menus altered from the standard menus served in Japanese hospitals were re-assessed. Methods: The energy was adjusted from under 1989 kcal to 1600 ± 40 kcal by altering the amount of rice in 719 one-day menus offered in 11 hospitals in the Kyushu, Shikoku, Tyugoku, Kinki, and Hokuriku areas in Japan. We selected 379 menus for analysis. These menus fulfilled the required protein-fat-carbohydrate energy ratio. Protein-energy ratios and fat-energy ratios, as determined by conventional methods, were in the ranges of $13-20\%$ and $20-30\%$, respectively. The carbohydrate-energy ratio determined by conventional methods and calculating the remaining difference was $50-65\%$. Results: Energy decreased by 96 kcal from the 7th to the 8th version. Calcium, phosphorus, retinol activity equivalents, and alpha-tocopherol levels did not change significantly. However, there was a significant difference in the levels of other nutrients. The [7th value – 8th value]/7th values for energy-productive nutrients were in the range of 6.0% to -20.8% ; total dietary fiber, -16.6% . The [7th value – 8th value]/7th values for vitamins mere in the range of 24.0% to -11.3% . The individual values are as follows: triacyl-glycerol equivalents, -20.8% ; total dietary fiber, -16.6% . The protein-fat-carbohydrate-energy ratio calculated using the difference were significantly different. Discussion: In the menus for diabetic patients based on the revised edition, the energy value was reduced by 96 kcal. These differences were restricted to ± 40 kcal because of the necessity for diabetes care; -96 kcal was larger than recommended. We hypothesized that the menus may have to be altered. The reason for the decrease in energy may be due to the changes in the calculation methods of protein using nitrogen as a reference and as the sum of amino acid residu
	provide a nutritionally balanced diet (% energy) was evaluated by the Japanese government using the conventional method. It may be necessary to consider these
	differences during the revision discussions in 2025. This report may be a useful
	reference when discussing the necessity of rearranging menus.
keywords	revision of standard tables of food composition in Japan, nutrition management for diabetic patients, energy-controlled diet, protein-fat-carbohydrate energy ratio

※本データの英文表記は実際の論文上の表記とは異なります。