

Foodomics, SR Legacy, and Foundation Foods Databases

Patients undergoing Precision Ketogenic Therapy (PKT) are required to keep close track of the specific nutrient composition of everything that they eat. The PKT Program provides these families with PKT using precise nutrient amounts from the Foodomics Database. The nutrient information for non-branded foods in the Foodomics Database comes from a database (SR Legacy) maintained by the USDA that is being retired and replaced with a new database called Foundation Foods. This study compares the macronutrient data available in the SR Legacy with that in the new Foundation Foods for 62 of the foods commonly used in recipes by patients undergoing PKT. It was hypothesized that there would be slight differences in the protein, fat, and carbohydrate composition per 100g of these items, but more differences were found than expected. There was a difference in specificity of foods between the two databases. For example, instead of just "onions" (SR Legacy), the Foundation Foods database consisted of different types of onions (red, white, and yellow). For 44 of the 62 items which were analyzed, no data were currently available in the Foundation Foods, but this may be because the database is new and is not yet complete. In conclusion, the lab cannot yet transition fully to the Foundation Foods due to the lack of available items, but data from the newer database should be used when possible due to its increased specificity and precision.

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