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MFDS's national laboratory system of food and nutrient: Focus on quality control**Soo-Jung Hu, Kyung-Mi Hwang, Jae-Myoung Oh, Bu-Young Jo and Keum-Soon Oh**

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The Ministry of Food and Drug Safety (MFDS)'s National Laboratory System (NLS) is originated to establish reliable national database of nutrients on actually consumed food in Korea. The fundamental purpose of the NLS is securing database for promoting national nutrition policies such as reducing sodium intake, expansion of nutrient labeling in restaurant foods and improvement of national health care. (MFDS)'s nutrient database contains data for about 1,600 foods for 53-79 compounds including vitamins, minerals, fatty acids, amino acids and sugars since 2009. The overall system of the NLS to produce data is as follows. First, target foods are selected among the National Health and Nutrition Examination Survey. Second, the selected food is collected according to the standardized principle. Third, for the food the analytical institution carries out quality control to ensure the reliability of the data. At here describes more about data quality control. Quality control includes: (1) Participation in FAPAS that international quality management programs, (2) analysis of CRMs (Certified Reference Materials) and (3) in house control analysis. The strength of the NLS was a rigorous quality control program that enabled independent verification of the accuracy and precision of analytical results. Data for materials were used to monitor analytical work, to identify end result suspected analytical problems, to ensure the accuracy and precision of results for the food samples.

Biography

Soo-Jung Hu has completed her PhD majored in Analytical Chemistry from Sungshin Women's University. She is a Senior Scientific Officer in the Ministry of Food and Drug Safety (MFDS) since 1997. Currently, she is responsible for functional health food and nutrition related work in MFDS.

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