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The usage of biomarkers in terms of biological exposure indices for health surveillance in Thailand

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Presently, the health risk assessment becomes important for health active surveillance. The significant types of chemicals residual and or metabolites in biological samples are selected to be the biomarkers for exposure assessment and susceptibility. The results of analytical laboratory of biomarkers concentration in biological samples are compared with the health surveillance standard values. This method are used as safety measure of exposure assessment to chemicals hazard and cancer susceptibility in occupations and environmental community. Besides, the combined effects of food, drug and other chemicals of daily life intake accompanied with the mistaken method of collecting, transferring and preserving biological samples act as the interference factors of laboratory analyticals results. The other important interferences are the risk behaviour and the individual differences. Thus, Department of Disease Control of Thailand has set the pilot project focused on the concentration of biomarkers, laboratory analyticals method and interfering factors of 26 chemicals (8 heavy metals, 12 volatile organic compounds, 2 pesticides, 2 gases and 2 types of radiation) for formal workers in Thailand Kingdom. This pilot project is aimed to be the tool for setting the policy of standard measure by usage of biomarkers for exposure assessment in the program of health active surveillance. This project will be involved with active surveillance and diminishment of burden diseases caused by chemicals. This tool of safety measure should be applied to prevent and control of chemicals diseases in any other risk area.

Biography

Nalinee Sripaung has completed her degrees of BSc and MSc from universities in Thailand (Mahidol University and Chulalongkorn University respectively). She has completed her PhD from Tokyo Medical and Dental University (TMDU), Japan. She has ever been the Editorial Board Member of the reputed. She has published more than 10 papers in reputed journals and government reports. Presently, She is the Director of Rayong Occupational Health and Environmental Development Center. She is serving as a Department of Disease Control of Thailand Committee on Thai Biological Indices (Thai BEIs).

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