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[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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Dietary Intakes of Bismuth, Cadmium, Cobalt, Chromium, Lead and Thallium for Ukrainians

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Abstract:

Dietary intakes of six trace elements, bismuth(Bi),cadmium(Cd),cobalt(Co),chromium (Cr),lead(Pb),and thallium(Tl)in Ukrainian subjects were estimated in relation to the health effects on habitants after the Chernobyl accident. Two hundred and sixty-eight diet samples were collected from twenty-five oblasts(regions)using a duplicate portion method. The elements were determined by inductively coupled plasma mass spectrometry(ICP-MS). For Ukrainians, median daily intakes of Bi, Cd, Co, Cr, Pb and Tl were 0.368, 7.96, 9.71, 113, 33.1 and 0.372 μg per person, respectively. The intakes of Bi, Cd, Co, Pb, and Tl in Ukrainians were lower than worldwide reported values, while that of Cr was higher.

Key words: bismuth, cadmium, cobalt, lead, thallium, dietary intake, Ukrainian

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