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Dietary intakes of Sr, Cs, ^{232}Th and ^{238}U in north Ukraine, polluted by the Chernobyl accident

[Susumu Ko](#)¹⁾, [Kunio Shiraishi](#)¹⁾, [Sarata K. Sahoo](#)¹⁾, [Hideki Arae](#)¹⁾, [Kyoko Ayama](#)¹⁾, [Ivan P. Los](#)²⁾, [Vitarly N. Korzun](#)²⁾, [Nikolay Y. Tsigankov](#)³⁾ and [Pavlo V. Zamostyan](#)³⁾

1) Section of Microanalysis, Division of Dose Assessment, National Institute of Radiological Sciences

2) Institute of Hygiene and Medical Ecology of the Academy of Medical Science of Ukraine

3) Research Center for Radiation Medicine of Academy of Medical Science of Ukraine

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Abstract:

Within the framework of a comprehensive study on trace element intakes of Ukrainian residents after the Chernobyl accident, an investigation was made for Cs, Sr, ^{232}Th and ^{238}U with respect to radiation exposure from released radionuclides. From 1997 to 2001, the north part of Ukraine had median daily dietary intakes of Sr, Cs, ^{232}Th and ^{238}U which were 1.9mg, 6.3 μg , 0.53 μg and 0.58 μg per person, respectively. Intakes of Sr and Cs were about same as the global averages, while those of ^{232}Th and ^{238}U were about half the global averages. The variation of Cs intake among districts may indicate that high ^{137}Cs exposure was accompanied by high Cs intake.

Key words: [Chernobyl](#), [Ukraine](#), [dietary intake](#), [ICP-MS](#), [elements](#), [radionuclides](#)



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