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ABSTRACT: There has been estimated exposure of chemical contaminants in samples of poultry of regional producers sold in one of the largest hypermarkets in Ivanovo. Food consumption was studied in a cross-sectional study using the method of 24-hour food reproduction. Priority pollutants of the samples of poultry meat forming the risk of development of non-carcinogenic and carcinogenic effects in the population were nitrates, compounds of lead, cadmium, arsenic and mercury. The exposure value estimated on the basis of the median values for nitrate compounds, lead, cadmium, arsenic, mercury constituted respectively $8.64\times10^{-2}$; $1.12\times10^{-3}$; $1.12\times10^{-4}$; 2.80×10^{-4}; 7.98×10^{-6}$ mg/kg of body weight. The coefficients of risk (HQ) have been calculated according to the prevailing contaminants. A dependence has been found of the decreasing series of heavy metal contamination in poultry meat, which had the following distribution pattern: Pb→ As→ Cd→ Hg.

AUTHOR KEYWORDS: Chemical contaminants; Exposure estimation; Food
