THE SURVEILLANCE OF ORGANOCHLORINATED PESTICIDES AND HEAVY METALS RESIDUES IN ANIMALS’ PRODUCTS, BETWEEN 2001 AND 2005 IN MURES COUNTY

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Key words: organochlorinated pesticides, heavy metals, animal’s products

SUMMARY

The contamination of animal products like milk and meat with different chemical substances represents a major risk at present (3,4). There are a great number of substances that can contaminate the food: antiseptics, antibiotics, pesticides, heavy metals, hormones, etc., all these causing health problems to consumers. (1,2)

The goal of this study was to evaluate the values of organochlorinated pesticides and heavy metals (lead, copper and zinc) residues in meat, milk and other animal products.

Material and method. The data were procured from Analysis Bulletins of meat, milk and other products received by Residues Laboratory. The samples were obtained in conformity with “the strategic veterinary programme” between 2001 and 2005 from Mures County. The samples analyzed in this study were represented by meat and meat-products resulted after animal slaughtering and also by milk and milk-products from Mures County. The laboratory analyzes were performed with standardized methods. (5)

Results. The parameters that registered frequently exceeded values were β-HCH, Cu and Cd.

The products with frequent exceeding of maximum allowed levels were: milk (2,64% for β –HCH), bovine internal organs (14,81% for Cu and 11,11% for Cd), swine internal organs (19,35% for Cu and 12,90% for Cd).

The period of time with the highest levels was represented by 2004 for β-HCH, Cu and Cd and 2005 for Zn and Pb.

Overlimits for Lindan and DDT were not registered.

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