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HALOTHANE (2-BROMO-1,1,1-TRIFLUORO-2-CHLOROETHANE) AS AN EXAMPLE IN THE DISCIPLINE “FORENSIC CHEMISTRY” FOR UKRAINIAN STUDENTS OF PHARMACY

Elena Welchinska¹

Abstract: The quantity of pharmaceutical preparations, which are used in medicine and different areas of the economy increased because of the development of the chemical and pharmaceutical industries. These substances can cause poisonings in certain situations. The sources of poisonings are: sewage of industrial enterprises; pesticides (chemical poisons) for fighting agricultural pests; soil; vegetables and fruits; chemical substances for fights against rodents and insects. The use of chemical substances in the economy increases the quantity of poisons as objects of forensic toxicological analysis. “Forensic chemistry” — is a science which studies methods for the isolation, purification, qualitative analysis and quantitative analysis of toxic and poisonous substances and their metabolites in objects of various origins: animal and plant biological materials, industrial waste, emissions of waste water, the air of industrial enterprises, soil and agricultural crops, etc. The aim of this work is to study the importance of chemicals, namely fluorine-containing organic compounds, which are strong toxic substances, during the study of “Forensic Chemistry” throughout the academic period at the Pharmaceutical Faculty in Ukraine.

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Keywords: forensic chemistry, halothane, toxicity, poison.

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