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### POLLUTED ENVIRONMENT AND ITS IMPACT ON PUBLIC HEALTH IN THE INDUSTRIAL CITY OF ZAPOROZHYE

*Pukhalsky N.P., 3 course, First medical faculty, ZSMU,  
Zaporozhye, Ukraine*

*Sokolovska I. A., c. med. s., Senior Lecturer, ZSMU,  
Zaporozhye, Ukraine*

*Scientific supervisor: Sokolovska I. A., c. med. s., Senior Lecturer  
Department of Hygiene and Ecology*

**Introduction.** Most environmental-hygienic studies show that polluted environment affects the health figure of the population negatively. Practice experience gives data that children are the most sensitive to the effects of pollution.

**Urgency.** Due to the deterioration of the quality of atmospheric air, drinking water, the soil of regions, adequacy of the population nutrition, and social living conditions, the ecological and hygienic situation in Ukraine and its regions is assessed as tense.

**Results.** Laboratories of Sanitary and Epidemiological Service of Zaporizhzhya region conducted 13,445 researches of atmospheric air. The most polluted air was in Ordzhonikidzevsky district (33% of the total number of exceedances), Zavodskoy district (12%) and Shevchenko district (10%) of the city. According to the complete research about assess the health risks associated with air pollution, priority pollutants in the atmospheric air of the city of Zaporozhye are: suspended substances, nitrogen dioxide, phenol, hydrogen fluoride, hydrogen sulfide, carbon disulphide, sulfurous anhydride, copper and its compounds, manganese and its compounds, Aluminum oxide, chlorine and its compounds, acrolein, vanadium, sulfuric acid, chromium and benzpyrene.

Especially polluted air was in Ordzhonikidzevsky district (33% of the total number of exceedances), Zavodskoy district (12%) and Shevchenko (10%) district of the city in 2013. For the preceding years, atmospheric pollution in Zhovtnevy, Leninsky, Khortitsky and Kommunarovsky areas was lower than the average city figure.

**Conclusions.** The atmosphere of Ukraine receives at least 10 million tons of chemical substances each year, with the largest share of sulfur dioxide (up to 35%), carbon monoxide (up to 30%), hydrocarbons (1.2%), nitrogen oxides (1 %) and up to 2% of specific pollutants. The main sources of pollutants for the atmospheric air of Zaporozhye are represented by the industrial enterprises of the city and by motor transport.

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#### РАЗВИТИЕ «ЗИМНЕЙ ДЕПРЕССИИ» У СТУДЕНТОВ ГРГМУ

*А.А. Гапанович, 2 курс, лечебный факультет*

*А.Б. Раджапов, 2 курс, факультета иностранных учащихся  
УО «Гродненский государственный медицинский университет»,*

*г. Гродно, Республика Беларусь*

*Научный руководитель - старший преподаватель Саросек В. Г.*

*Кафедра лучевой диагностики и лучевой терапии*