**PROLIFERATION OF LUNG CANCER AMONG THE POPULATION**

**OF KHARKIV REGION**

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Economic and political changes in Ukraine caused a big number of medical and social problems connected with the health of different stratums of population. In our country, according to the Register of National Cancer Institute of Ukrainian Academy of Medical Sciences pulmonary cancer annually is defined for nearly 16 183 male patients and more than 3 344 female ones. This tumor gives high level of mortality. Europe has similar situation.

Analysis of the results of interdisciplinary comprehensive programme “Health of the Nation” defined the negative dynamic of prevalence and incidence of cancer between 2001 and 2011. This is typical point for all regions of Ukraine, including Kharkiv and its region.

Investigation of the prevalence of pulmonary cancer among the inhabitants of city and region we have found growth rate of morbidity. In 2001 it was 44,4 % (per a thousand of population), in 2006 it was 46,2 %, and in 2011 it was 48,3 %. There is the same data all over the republic. Since 2001 the total level of morbidity had been increased up to 21 %.

Authors established that the per cent of patients, who had health disorders before the diagnosis not more than 2 years accomplished 51,09±3,0 % in 2001, and in 2011 the same trend preserved.

So, in conclusion we have to underline that the prevalence of lung cancer has a stable tendency to grow. The data, we have got, show that the part of patients with non-diagnosis cancer is increasing. It makes the process of treatment more complicated and the general vital prognosis negative. We offer a new optimized model for early detection of lung cancer.