ANALYSIS OF SOME INDICATORS OF TUBERCULAR MORBIDITY IN VARNA REGION IN 2008

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INTRODUCTION
Tuberculosis is a global problem with enormous medical and economic importance for all humans. According to the information from the World Health Organization (WHO) about 1/3 of the world population i.e. 2 milliard people are infected with Mycobacterium tuberculosis and they are at risk that their condition may deteriorate.

Bulgaria is a country with an average level of incidence – between 12 to 80 per 100 000.

In Varna region the number of the people infected with tuberculosis in 2008 was 143 - 37 patients more than those registered in 2007.

Aim: To make an analysis of some tubercular infection indicators in Varna region in 2008.

Materials and methods: A research was carried out in the Pneumophtissiatric Clinic in Varna, concerning the patients undergoing treatment there in 2008. Apart from that information was collected from the Center for Disease Control at the Regional Sanitary Inspection in Varna.

Results and discussion: The number of people suffering from tuberculosis in 2008 was 143 – 37 more compared to 2007. The cases of pulmonary consumption had increased by 36. There were patients infected with tuberculosis in Varna Municipality, Provadia, Dolni Chiflik, Aksakovo, Vulchi dol, etc. The highest number of patients suffering from tuberculosis were among the people over 65 years of age and the unemployed between 30 and 35 years of age especially the ones with low standard of life. In the group of the infected people there were 17 children and the youngest patient was 9 months old. Susceptible to the disease were people with weak immune system, low social status, alcoholics, smokers and unemployed. Conclusion: Reducing the incidence of tuberculosis in Varna region can be achieved by: control over the range and quality of the specific immunophrophylaxis with BCG vaccine, raising the public health awareness of tuberculosis, enhancing and monitoring the activity of the non-governmental organizations (NGOs) that work on the problem of tuberculosis in the region of Varna.

Key words: tuberculosis, morbidity, risk factors
Fig. 1. General number of cases of tuberculosis, pulmonary and extra pulmonary TB in 2008 in comparison with 2007 year.

Most of the tubercular cases are in the municipalities of Provadia - 9, Dolni Chiflik - 6 and Aksakovo - 5.

Figure 2 shows the distribution of the patients infected with tuberculosis according to their age. In 2008 the highest morbidity is registered between 55 and 59 years (16 cases), between 40 and 44 years of age – 49.40 % (15 cases) and between 30-34 years of age – 44.25 % (17 cases). The greatest number of the infected people are aged over 65 - 20 cases. Among those suffering from tuberculosis there are 17 children. In addition to this the youngest patient is nine months old.

Fig. 2. The distribution of the people infected with tuberculosis according to their age

The distribution of the infected people in accordance with clinical form of tuberculosis has been shown in figures 3 and 4.

Out of all 143 people suffering from TB, 134 are infected with pulmonary tuberculosis. Most of these people were infected with infiltrative pneumonia-103 (76.87%) and tuberculosis of the lymph nodes -15 people (11.19%). The most common form of extra pulmonary tuberculosis is the TB cervicalis lymph nodes.

An important indicator characterizing the tubercular epidemic is the bacillus secretion. The infected with tuberculosis bacillus secretors are 65 i.e. 45% of all affected by tuberculosis. (figure 5)
The number of the men infected with tuberculosis (71%) is many times bigger than the number of the women (18%). This fact is probably connected with the presence of more risk factors in their group. Children under 18 make up 18% of the people infected with tuberculosis.

**CONCLUSION.**

There has been evidence that proves the rise in the morbidity of tuberculosis and the increased number of bacillus secretors in Varna region in 2008. The growth in the number of the children infected with TB is alarming.

In relation to the collected data above, it is necessary to take the following measures:

1. The control over the range and quality of the specific immunoprophylaxis with BCG vaccine should be improved.

2. Timely diagnosis and treatment of the new patients, raising the public health awareness of tuberculosis particularly among the groups at risk should be ensured and promoted.

3. The actions of the non-governmental organizations (NGOs) that work on the problem of tuberculosis in the region of Varna should be monitored and stimulated.

**REFERENCES**


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