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Харківський регіональний благодійний протираковий фонд  
Головне управління охорони здоров'я Харківської  
обласної держадміністрації

## **МАТЕРІАЛИ**

науково-практичної конференції з міжнародною участю  
присвяченої дню науки

## **ВНЕСОК МОЛОДИХ ВЧЕНИХ У РОЗВИТОК МЕДИЧНОЇ НАУКИ І ПРАКТИКИ: НОВІ ПЕРСПЕКТИВИ**

16 травня 2013 року

Харків 2013

УДК: 616.001.8-25.12  
В 33

Редакційна рада  
В.А. Вінніков (голова)  
В.С. Сухін (заступник голови)  
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Відповідальний секретар: В.С. Кулініч

В 33 Внесок молодих вчених у розвиток медичної науки і практики: нові перспективи: Матеріали науково-практичної конференції з міжнародною участю присвяченої Дню науки 16 травня 2013 р. / Ред. рада В.А. Вінніков (голова) та ін.; НАМН України та ін. – Х., 2013. – 203 с.

Адреса редколегії:  
ДУ «Інститут медичної радіології ім. С.П. Григор'єва НАМН України»  
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significant optimisation of regulatory systems during biofeedback series, which leads to its high effectiveness in the control of blood pressure with subsequent improving of the patients' quality and duration of life.

**CO-INFECTION OF TB/HIV/AIDS IN UKRAINE:  
EPIDEMIOLOGY, CLINICAL DIAGNOSIS AND  
PATHOMORPHOLOGY**

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In Ukraine, as in the whole world for many years, the epidemic rages HIV-infection/AIDS and tuberculosis (TB). As it turned out, both diseases are closely linked, as the most common cause of death for people living with HIV is just TB diagnostics which in the later stages of HIV is difficult.

Purpose: to investigate and explore epidemiology, feature of clinic and diagnostics and pathomorphology of tuberculosis on the background of HIV/IDS by the literary sources.

Material and methods: analysis of the literature.

The results of the study: in an investigation we found that as of 31.10.2011, Ukraine recorded 17,021 new cases of HIV-infection, 7348 AIDS cases and 2,928 deaths. The incidence of HIV/AIDS-associated TB is 13.1 per 100 thousand of population. Also it was noted that over the past 4 years (since 2008) the predominance of heterosexual transmission of parenteral is observed.

According to the literature, the severity and atypical course of tuberculosis against HIV infection is inversely proportional to the number of CD4<sup>+</sup>-blood cells. In the early stages of HIV when the level of T-helper cells maintained in the normal range (over 500), clinical manifestations, diagnosis and pathomorphology of tuberculosis are classical and do not differ from those in HIV-negative patients. At the terminal stage of HIV (AIDS) when the range of T-helper cells decreases below 200, generalization of tuberculous processe develops involving the membranes of cerebrum and other serous membranes. Along with pulmonary forms of TB more often we can find extrapulmonary forms. Pulmonary tuberculosis is characterized by atypical localization – in middle and lower sections of lungs, and may occur as a primary TB. The authors suggest that clinically severe intoxication syndrome prevails over bronchopulmonary one at patients with TB/AIDS. Diagnosis is complicated by the fact that complaints and physical data are similar to those of HIV / AIDS or are masked by symptoms of other opportunistic infections. Roentgenologically there are detected monomorphic and confluent foci, which can be mistakenly diagnosed as pneumonia, it can be also found basal

adenopathy and pleural exudate. Mantaex testing is almost always negative, microscopically mycobacteria of tuberculosis are rarely found, which complicates diagnostics. Pathomorphologically authors frequently see granulomas, which are formed mainly by plasmatic and reticular cells, macrophages and lymphocytes, epithelioid and giant cells are almost completely absent. Lesions are usually soft and monomorphic with domination of alternative reactions upon exudative-proliferative one.

Conclusion: Tuberculosis on the background of HIV infection at the stage of AIDS is atypical, malignant, generalized and difficultly diagnosed.

**IMPACT OF LECITHIN-CALCIUM SUPPLEMENTS  
ON ACID-BASE STATUS OF ORAL FLUID IN YOUNG  
PERSONS  
WITH CARIES**

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The problem of prevention of dental caries is extremely actually. Today, one of the tasks of dentistry is need for effective and accessible to all sections of the population of preventive measures.

The aim of our study was to investigate the influence of prevention scheme with the addition of "Lecithin-2", which contains calcium citrate and lecithin on acid-base status of oral fluid in patients with multiple caries.

Materials and methods. The criteria for the selection of young people in primary (51 persons) and comparison group (46 persons) was the presence of high and very high intensity of dental caries (year from 0.31 to 0.6 and YEAR>0.6). For individual oral hygiene during the year of observations used: toothpaste – Colgate "Triple effect with fluoride", containing 1450 ppm NaF, 2 times a day, rinse "Colgate Plax" complex action "Delicate mint" used 2 times a day after brushing, at 1 month, twice a year. Patients referred to the main group except the first day of the survey received additive "Lecithin-2", produced APP "Odessa Biotechnology" (TU 15.8-13903778-82-2000) in a daily dose of 1 tab. 3 times a day for half an hour before meals to complete resorption in the mouth for 1 month. Course prevention held 2 times a year. There were collected unstimulated saliva in patients on the first day of the test, and then at 3, 6, 12 months.

Results. There were revealed that 12 months after the start of preventing instability pH of oral fluid in patients of the main group tended to significant increase by 0.11 m. pH – (7,00±0,02) versus baseline (p<0.01) compared to the comparison group, while there was oluzhennya mixed saliva (p<0.001). While in the comparison group saliva pH varied from an