

# INFLUENCE OF ANABOLIC DRUGS ON ADRENOCORTICAL SYSTEM FUNCTION IN PATIENTS WITH TUBERCULOSIS/HIV CO-INFECTION

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## *Abstract*

**Aim:** to study the effect of insulin and retabolil on the adrenocortical system function in patients with tuberculosis (TB) / HIV co-infection.

**Materials and methods.** Patients with newly diagnosed TB associated with HIV were divided into 3 groups. Patients of group 1 (20 patients) received only antimycobacterial therapy; group 2 (30 patients) — antimycobacterial therapy in combination with insulin; group 3 (31 patients) — antimycobacterial therapy in combination with retabolil. Prior to start of treatment and two months after its completion cortisol concentration and adrenocorticotrophic hormone levels were measured.

**Results and discussion.** Function of adrenocortical system in patients with TB / HIV is characterized by exhausted stress adaptation mechanisms. After treatment in patients of all groups there was a decrease of basal cortisol level, but only in patients of group 2 this reduction was significant. Normal cortisol concentration as observed in healthy individuals was not achieved even in patients of this group.

Similar disturbances were revealed for adrenocorticotrophic hormone concentration as well. In patients from all groups there was a decrease in its concentration. But only in patients from groups 2 and 3 it was significant comparing with baseline value before treatment. Only in group 2 patients adrenocorticotrophic hormone concentration reached a normal range. A significant decrease in the dissociation between hormones was observed after treatment with anabolic drugs. The results confirmed a restoration of adrenal cortex function.

**Conclusion.** Complex treatment of patients with newly diagnosed pulmonary TB associated with HIV using insulin and retabolil improved the adrenocortical system function and restored the function of adrenal cortex. Insulin or retabolil are indicated in these patients during the intensive phase of chemotherapy.

**Key words:** tuberculosis, HIV infection, adrenocortical system, insulin, retabolil.

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