

Abstract

This Bachelor's thesis examines the effect of elevated level of corticoid hormones on growing organism. The negative effect of glucocorticoid hormones and their derivatives is evidenced especially on child growth and growth of bone density. Primary source of the elevated level of corticoids in organism are medicaments. The anti-inflammatory and immunosuppressive effects of the glucocorticoids are used in medical treatment of various diseases (infections, chronic diseases – especially GIT, autoimmune diseases etc.). The rare source of the hypercorticism in childhood are hormonally active tumors (the tumor of the adrenal cortex). The main part of the Bachelor's thesis deals with impact of long-term inhalation of glucocorticoid hormones on body height and quality of bone tissue of the patients with asthma bronchiale.