

## ABSTRACT

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Title of diploma thesis: Monitor the parameters of thyroid function with regard to a diagnosis of hypothyroidism in middle aged

There was proved an occurrence of the thyroid disorders with regard to hypothyreosis in humans in the middle age in the file of 15 412 patients (5753 men, 9659 women). Simultaneously there was calculated an occurrence of these disorders in the rate on men vs women. There was a file of all patients examined in VFN during the year 2012 including all patients treating at the department of endocrinology. No significant higher occurrence of thyroid disorders at women was found.

In the examined file there were 474 TSH analysis indicated by a practitioners like a steering control. There wasn't confirmed a higher incidence of an occurrence of the thyroid disorders at women. In the file indicated by practitioners there was changed the value of TSH at 7,2% women and 9,9% men. The reason can be caused by examination the men in the risk group in comparison to women, who are examined without risk factors.

There was checked the connection between hypothyreosis and diabetes mellitus and no significant higher occurrence of thyroid disorders in the watched file by level of TSH was proved. It is better to use for determination of diabetic patients the levels of anti-TPO and anti-TG antibodies in the reason of conjunction with autoimmunity diseases. There was only insignificant percent of diabetic patients who were examined these antibodies.

Pozitivity of the anti-TPO and anti-TG antibodies in the examined file was very high, there was 53,2% positive in one or both of these antibodies.