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Title of the master thesis: Changes of thermal thresholds in patients treated with hypothyroidism.

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Abstract:

Disorders of thyroid gland together with diabetes are most common endocrine diseases in Czech Republic and worldwide, too. Myopathy and neuropathy, caused by reduced amount of thyroid hormones, are mentioned in current literature, however pathophysiological mechanisms stay unclear. To evaluate the state of small nerve fibers that should be affected first, we use thermal threshold testing, setting the thermal threshold for warm and cold stimuli in different locations. Patients with hypothyroidism show in most of the measured locations higher thermal threshold than that of the control group, however these results are not significant. Significant change of thermal sensation of cold stimulus is demonstrated in location thenar. Patients with hypothyroidism also have a higher degree of inaccuracy detection of thermal stimuli. A greater number of significant conclusions can not seem to reach for a small number of probands participating in our study or due to ongoing therapy and the resulting normal state of thyroid hormones.

Keywords: thyroid gland, hypothyroidism, thermal threshold, myopathy, small fibre neuropathy, thermal sense

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