Endocrinology I

**Laboratory exercise and seminar in medical physiology**

Home preparation, study materials and learning objectives

**Learning objectives – what you should learn?**

* The student is able to describe and explain the general properties of hormones depending on their chemical composition.
* The student is able to describe the functioning and feedback regulation of the hypothalamic-pituitary axis.
* The student is able to describe and explain the production and function of thyroid hormones and to describe and explain the symptoms of hypothyroidism and hyperthyroidism (including effects on prenatal development) based on the physiological function of thyroid hormones.
* The student is able to describe and explain the production and function of glucocorticoids and, based on their physiological function, describe the potential risks of their therapeutic use.

**Study materials**

* Lectures Adrenal glands, corticoids including clinical use, Thyroid gland
* Textbook L. Constanzo – Physiology, 6th or 7th edition, Chapter 9 (p.407-440)

**Topics of student’s presentations**

1. Summarize and justify the tissue effects of thyroid hormones.

2. Summarize and justify the tissue effects of glucocorticoids.