

講義ユニット名 Title of Lecture	Endocrinology		所属科目名 Title of Course	Clinical diagnosis and treatment I
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授業方法 Lesson Style	Lectures using Power Point slides.			
概要 Overview	<p>Endocrine-metabolic disorders are caused by an abnormality in hormones. Organs secreting hormones are located throughout the body and hormones affect an extensive variety of tissues. Endocrine-metabolic disorders include a wide range of conditions from common disorders that affect many people, such as diabetes and dyslipidemia, to rare diseases. Symptoms and signs appear throughout the body and therefore many clinical departments need to be involved. You need to acquire adequate knowledge of this subject as a clinician.</p> <p>The objective of this unit is to deepen understanding of a wide variety of endocrine-metabolic disorders and acquire basic knowledge necessary for a clinician.</p>			
講義ユニットの到達目標 Academic Goals	<p>You are expected to explain:</p> <ul style="list-style-type: none"> -the structure and function of the breast. -the change in the breast according to the growth and development. -the function of hormones involved in lactation. -an outline of diagnostic imaging (mammography, ultrasonography, and CT) of breast tumors. -an outline of the cytological and histological diagnosis of breast tumors. -major causes of breast tumors, abnormal lactation (bleeding breast), and swelling, pain and deformation of the breast. -the types of benign mammary gland diseases. -the risk factors, symptoms, diagnosis, treatment, and prognosis of breast cancer. -an outline of gynecomastia. -the classification of hormones by their structure and their mechanism of action. -an outline of the mechanism for regulating hormone secretion. -the location of all endocrine organs and list hormones secreted from them. 			

- the names and functions of hypothalamic hormones and pituitary hormones and their interrelationships.
- the function of hormones secreted from the thyroid and parathyroid glands and the secretory modulation mechanism.
- the structure of the adrenal gland and the function of hormones secreted from the adrenal gland and the mechanism for regulating the secretion of these hormones.
- the functions of hormones secreted from the pancreatic islets.
- the synthesis and metabolism pathways and functions of androgens and estrogens.
- the metabolic pathways of saccharides, proteins and lipids and their interactions.
- the somatic symptoms caused by hormone excess or deficiency.
- the factors that affect serum hormone concentrations.
- an outline of tests for thyroid and adrenal diseases.
- the examples of circadian rhythms of hormones and explain them.
- the principles of and the types of responses to hormone-secretion stimulation tests and hormone suppression tests.
- the definition of obesity and emaciation and the causes for each of them.
- the important points in treating patients with obesity or emaciation.
- the diseases resulting in short stature and explain their pathophysiology.
- the classification of goiters.
- the pathology and diagnosis of Cushing's disease.
- an outline of acromegaly.
- an outline of panhypopituitarism.
- an outline of diabetes insipidus.
- an outline of growth hormone deficiency dwarfism.
- the significance and indications of hypothalamo-hypophyseal imaging.
- an outline of hyperprolactinemia.
- an outline of the syndrome of inappropriate antidiuretic hormone secretion (SIADH).
- the pathology, symptoms, diagnosis and treatment of Basedow's disease.
- an outline of thyroiditis (chronic, subacute).
- the symptoms, diagnosis, and treatment of hypothyroidism.
- the classification thyroid tumors and their characteristics.
- the indications and complications of surgical therapy of thyroid diseases.
- the abnormalities of calcium metabolism.
- the causes, pathology, symptoms, and diagnosis of hyperparathyroidism and hypoparathyroidism.
- an outline of adrenal tumors.
- an outline of multiple endocrine neoplasia (MEN).
- an outline of hypercalcemia associated with a malignant tumor.

	<ul style="list-style-type: none"> -an outline of pseudohypoparathyroidism. -the pathology, symptoms and diagnosis of Cushing's syndrome. -an outline of primary aldosteronism. -an outline of pheochromocytoma. -the causes, pathophysiology, symptoms, diagnosis, and treatment of adrenal insufficiency (acute, chronic). -the causes, pathophysiology, classification, symptoms, and diagnosis of diabetes. -the acute complications of diabetes. -an outline of the chronic complications of diabetes. -an outline of the treatment (diet, exercise, medication) for diabetes. -an outline of hypoglycemia. -the classification, causes, and pathology of dyslipidemia (hyperlipidemia). -the prevention and treatment of dyslipidemia (hyperlipidemia). -an outline of abnormalities of serum proteins. -the causes and pathology of hyperuricemia and gout. -an outline of vitamin deficiency and hypervitaminosis.
講義日程 Class Schedule	See the attached schedule.
出席の取り扱い Class Attendance Policy	Attendance is taken every lecture using the Student Attendance Management System. Some instructors may give a small test during a class to additionally confirm students' attendance. A student whose attendance is less than two-thirds of all the classes is not eligible for taking the final examination.
評価項目 Evaluation Item	Achievement level of goals (basic understanding and application of knowledge)
評価法 Evaluation Method	Examination (in the form of a national examination)
履修上のアドバ イス Advice for Taking the Lecture	
推奨参考書 Recommended Reference Books	