DEPARTMENT OF PATHOLOGICAL PHYSIOLOGY
FACULTY OF MEDICINE, P. J. ŠAFARIK UNIVERSITY, KOŠICE

Topics and study materials for the 5th credit test
General medicine
2021/2022
Endocrinology and diabetes mellitus, gastrointestinal tract, liver and pancreas

1. Endocrinology and diabetes mellitus

a) General endocrinology, classification, etiology
b) Hypothalamic-pituitary syndromes; hypo-, hyperpituitarisms – causes, symptoms; posterior, anterior pituitary syndromes
c) Thyroid disorders; hypo-, hyperthyroidism – etiopathogenesis, forms, symptoms, goitre
d) Adrenal cortex disorders; adrenocortical hypofunction – Addison´s disease – etiopathogenesis, symptoms; hypercortisolism – Cushing´s disease and syndrome - etiopathogenesis, symptoms; hyperaldosteronism – Conn´s sy. - etiopathogenesis, symptoms; congenital adrenal hyperplasia
e) Disorders of adrenal medulla
f) Parathyroid gland disorders; hypo-, hyperparathyroidism - classification, etiopathogenesis, symptoms; hormonal regulation of calcium homeostasis – incl. calcitonin, calcitriol
g) Diabetes mellitus (DM),definition, classification, symptoms, diagnosis
   - Type 1 DM – etiopathogenesis, genetic background, epidemiology, symptoms, LADA
   - Type 2 DM – etiopathogenesis, genetic background, epidemiology, symptoms, insulin resitance
   - Other types of DM – MODY, gestational DM
   - Acute complications of DM – hypo- and hyperglycemic
   - Chronic complications of DM – micro- and macrovascular

Study materials

- Unit 9 Endocrine system; Ch31 Mechanisms of Endocrine Control, p. 753 – 766; Ch32 Disorders of Endocrine Control of Growth and Metabolism, p. 767 – 792; Ch33 Diabetes Mellitus and the Metabolic Syndrome, p. 793 – 820 In: Porth, C.M. (Ed.) Essentials of pathophysiology, 4rd Edition, Wolters Kluwer/Lippincot Williams & Wilkins, 2011, ISBN-13: 978-1-4511-9080-9.
- Unit VI Ch21 Mechanisms of Hormonal Regulation, p. 689 – 716; Ch22 Alterations of Hormonal Regulation, p. 717 – 767 In: McCance, K.L., Huether, S.E. (Ed.) Pathophysiology, 7thEdition, Mosby, Elsevier Inc., 2014, ISBN: 978-0-323-08854-1.
- Recommended: lectures, tutorials, data on dept. web; Other reading: pract. seminars, internet resources (Wikipedia, etc.).

2. Gastrointestinal tract, liver, pancreas, gall bladder

a) Disorders of oral cavity, pharynx and esophagus; caries, periodontitis, manifestation of systemic diseases in oral cavity; dysphagia, gastroesophageal reflux disease
b) Peptic ulcer, classification, etiology, symptoms, complication; gastric vs. duodenal ulcer
c) Inflammatory bowel diseases, classification, etiopathogenesis, symptoms; Crohn´s disease, ulcerative colitis
d) Intestinal motility disorders, classification, etiopathogenesis, symptoms; diarrhea, constipation, irritable bowel syndrome
e) Malabsorption and maldigestion, classification, etiopathogenesis, symptoms; specific disorders of nutrient absorption and digestion; Celiac disease
f) Exocrine pancreas disorders; acute and chronic pancreatitis, pancreatic insufficiency
g) Liver disorders; hyperbilirubinemia, jaundice – classification, etiology, clinical signs; acute and chronic viral hepatitis; hepatic insufficiency - classification, etiology, clinical signs, hepatic encephalopathy and coma. liver cirrhosis, ascites, portal hypertension
h) Disorders of gallbladder and bile ducts, gallstones

Study materials

- Unit 8 Gastrointestinal and Hepatobiliary Function Ch 28 Structure and Function of the Gastrointestinal system, p. 675 – 695; Ch29 Disorders of the Gastrointestinal Function, p. 696 – 723; Ch30 Disorders of Hepatobiliary and Exocrine Pancreas Function, p. 724 – 752 In: Porth, C.M. (Ed.) Essentials of pathophysiology, 4rd Edition, Wolters Kluwer/Lippincot Williams & Wilkins, 2011, ISBN-13: 978-1-4511-9080-9.
- Unit XII, Ch40 Structure and Function of the Digestive System, p. 1393 – 1422; Ch41 Alterations of Digestive Function, p. 1423 – 1485 In: McCance, K.L., Huether, S.E. (Ed.) Pathophysiology, 7thEdition, Mosby, Elsevier Inc., 2014, ISBN: 978-0-323-08854-1.
- Recommended: lectures, tutorials, data on dept. web; Other reading: pract. seminars, internet resources (Wikipedia, etc.).

Composition of the test

Multiple choice (30). Approximate composition:

1. Endocrinology and diabetes mellitus
   a) General endocrinology, classification, etiology
   b) Hypothalamic-pituitary syndromes
   c) Thyroid disorders
   d) Adrenal cortex disorders; Addison´s disease, Cushing´s disease and syndrome, Conn´s sy., congenital adrenal hyperplasia
   e) Disorders of adrenal medulla
   f) Parathyroid gland disorders
   g) Diabetes mellitus, type 1 DM, type 2 DM, other types of DM, acute and chronic complications
2. Gastrointestinal tract, liver, pancreas, gall bladder
   a) Disorders of oral cavity, pharynx and esophagus
   b) Peptic ulcer
   c) Inflammatory bowel diseases
   d) Intestinal motility disorders, diarrhea, constipation, irritable bowel syndrome
   e) Malabsorption and maldigestion
   f) Exocrine pancreas disorders
   g) Liver disorders
   h) Disorders of gallbladder and bile ducts

Open questions. Approximate composition:

a) Hypothalamic-pituitary syndromes
b) Thyroid disorders
c) Adrenal cortex disorders
d) Disorders of adrenal medulla
e) Parathyroid gland disorders
f) Diabetes mellitus, type 1 DM, type 2 DM, other types of DM, acute and chronic complications
g) Disorders of oral cavity, pharynx and esophagus
h) Peptic ulcer
i) Inflammatory bowel diseases
j) Intestinal motility disorders, diarrhea, constipation, irritable bowel syndrome
k) Malabsorption and maldigestion
l) Exocrine pancreas disorders
m) Liver disorders
n) Disorders of gallbladder and bile ducts

In multiple choice test (via Rogo system) each question consists of 5 independent choices (a-e) to which students answer by Yes or No. Every one choice is awarded by 1 point. Altogether it is possible to achieve 150 points in multiple-choice part of test.

Test rating grade - %
A - 100 - 93
B - 92 - 85
C - 84 - 77
D - 76 - 69
E - 68 - 60
Fx - 59 and less

Each open question is credited by certain maxima of points, which can differ in various questions according to importance, content and difficulty.

2 May 2022

Doc. MUDr. Roman Beňačka, CSc., mim. prof.
Head of Department