



Department of normal physiology

# PRESENTATION

SUBJECT:

She checked:  
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Group: 15-2K

# Plan:

1) Introduction

Construction of the pancreas

Service

Gonads

2) Conclusion

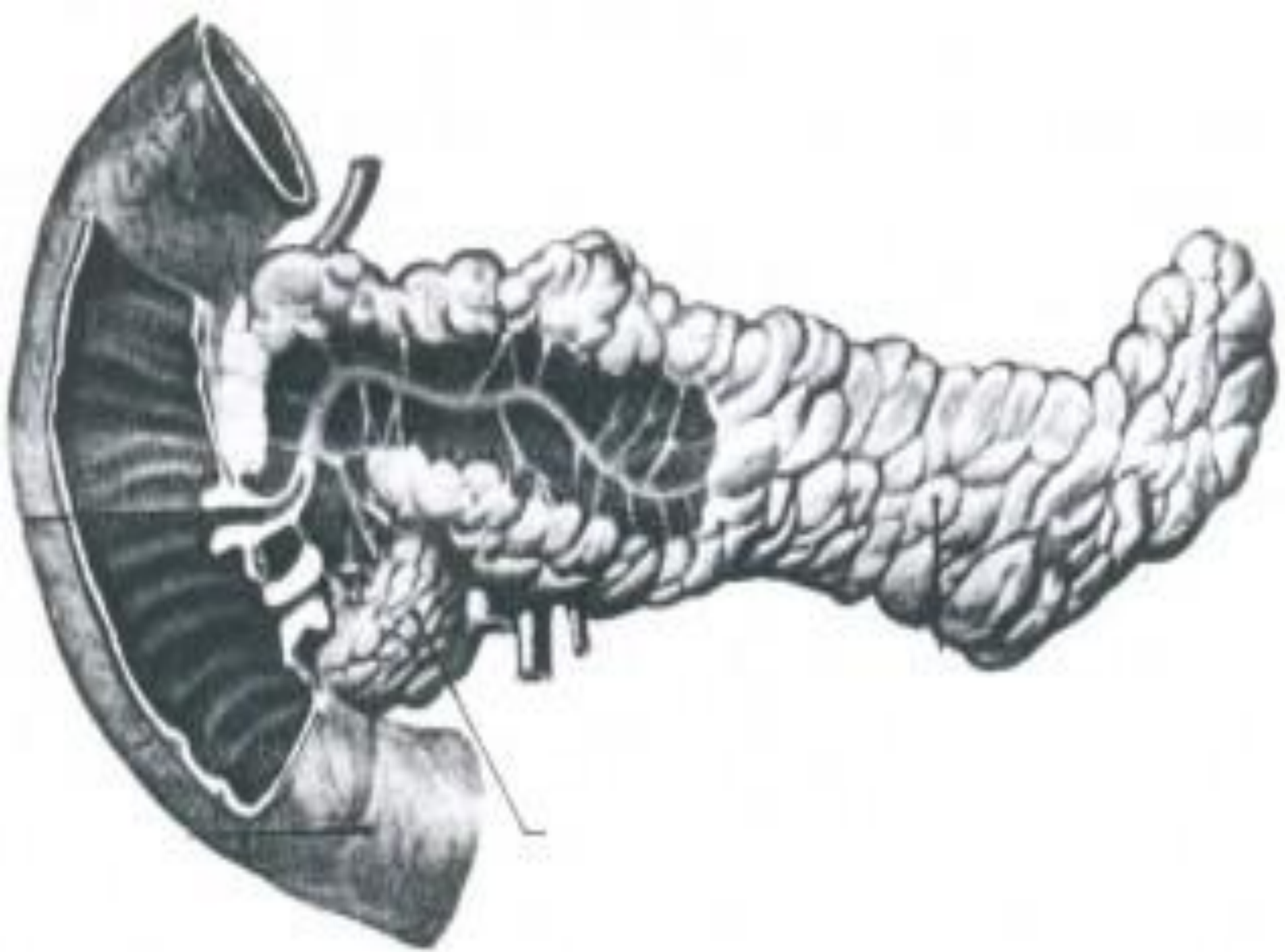
**3) References**

# Introduction

Combination hormone secretion glands and isolated. Members located through the succulent kernels, and hormones directly into the bloodstream. Therefore, these glands and external and internal secretion breasts. Mixed glands, pancreas and sex glands

# Construction of the pancreas

Pancreas pink color, length of 15-22 cm, the abdominal cavity is located at the bottom of the left side of the stomach. The secretion of external pancreas (exocrine): pancreas juice from him (pancreatin) is poured directly through the core duodenum. Endocrine (endocrine): different parts of the pancreas from the group due to a special set of cells



# Service

Consisting of hundreds of glucose in the glycogen molecule polysaccharides. It is insoluble in water and therefore can not be in the blood. From the food more than the amount of carbohydrates as glycogen in the liver, muscles Fund are collected.

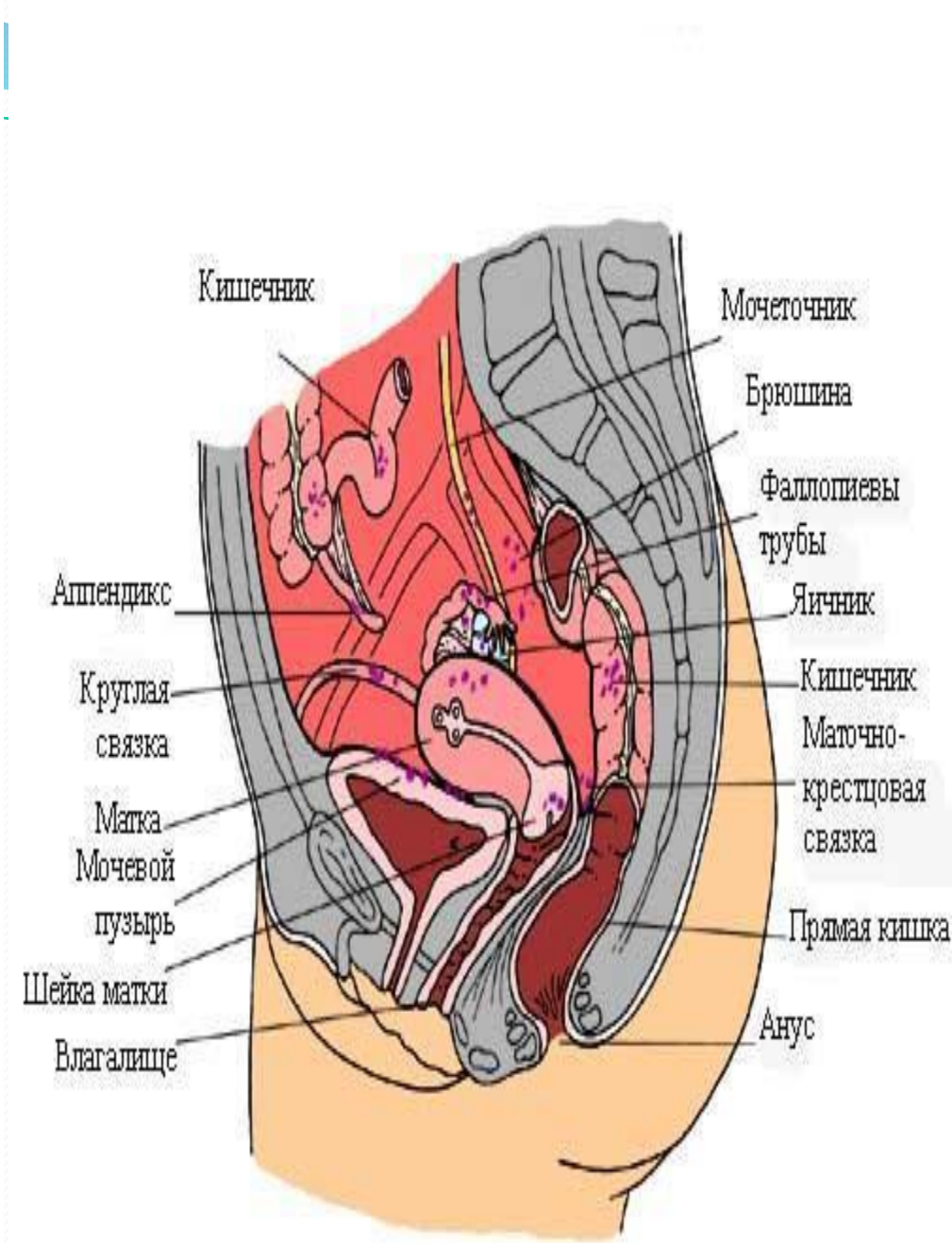
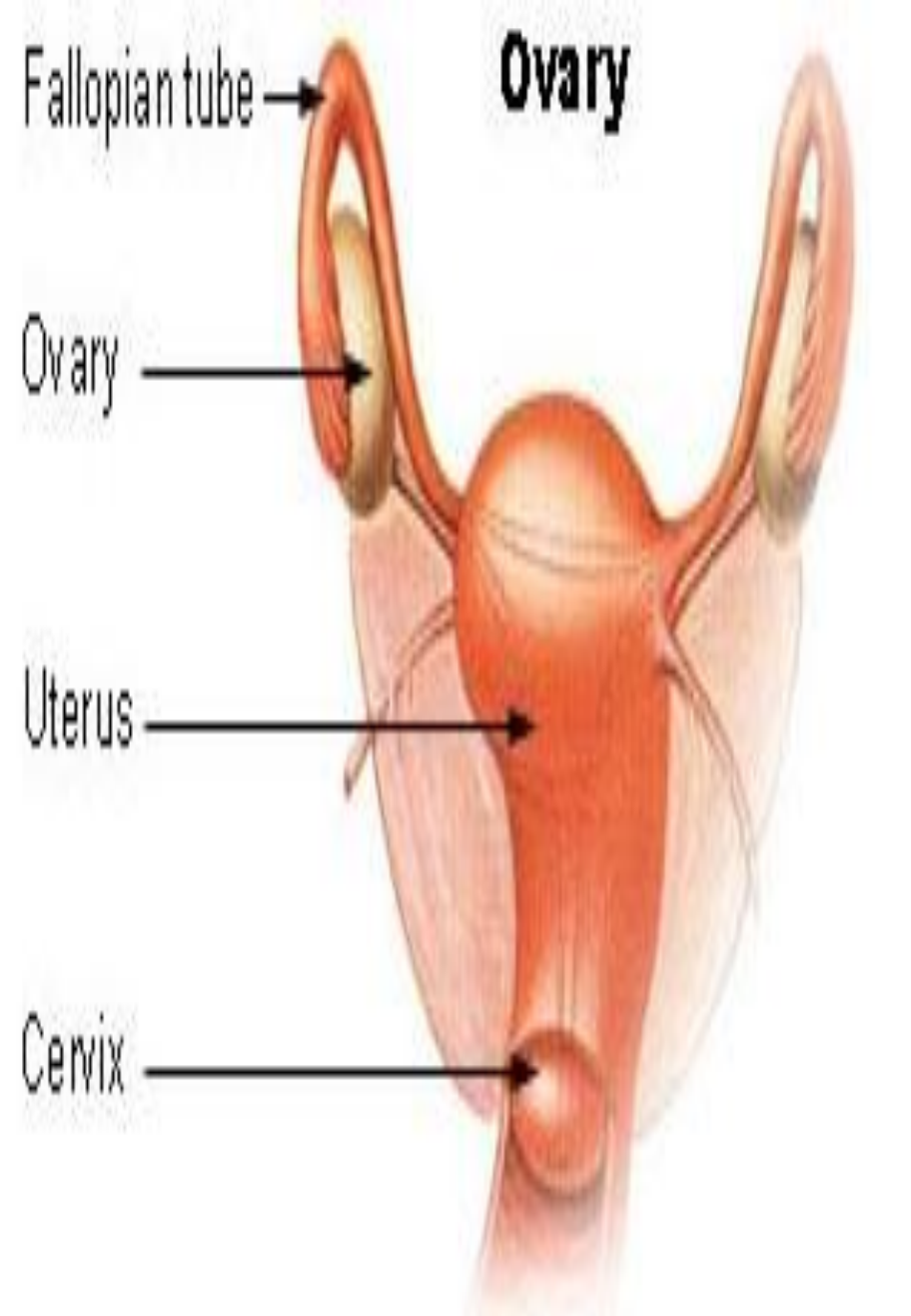
The size of a healthy person's blood glucose 4,6-6,7 millimoles / liter. Glucose is the body's energy and plastic material. Affects the metabolism of fats and proteins. The formation of proteins in the cell membrane enhances the transport of amino acids. Many of metabolism of insulin reaction.

Short of the insulin hormone (separated) in the body of the anomalies: the hormone insulin in the body are missing, ñantawrwina (diabetes) suffer. The incidence of diabetes (diabetes saxarniy) rule of carbohydrate metabolism disorders. Blood glucose concentration of 10 millimoles / l increases. A person suffering from this disease decreased liver glycogen stockpiles increased blood glucose and fatty acids. The reaction of the amino acids in the cell is damaged, navigate to the formation of protein. The amount of glucose in the blood increased by 0.1% to 0.4%, appears in the zördiñ glucose

# Gonads

Sexual secretions, organs of sex cells (eggs and sperm) and animal and human forms of sexual hormones. Animals androgynous male sex glands, the male gland, ewes, uterine cancer, for example: a flat blade or less kurttar, leeches, mustache-legged scorpions, darağında develop male and female gonads





# Signs of external endocrine glands in the endocrine glands

1. No rods

2. distributors fluid hormone mud

on top of the body or bodies with blood 3.

Place a moist sölinetin

milligramdap litrlep (mg l) 4. size

mikrogramdap released (mg)

5. performs the role of humoral

implementation of the regulation do not carry out

Distribution of insulin, affects the activity of the thyroid gland and the gonads. Endocrine glands regulate the secretion of hormones in the central nervous system. Because of inter-connected with the central nervous system glands centers in our brains. Regulated by the nervous system is very fast and it will be under the direct control of the nervous system. Hormones are subject to regulation by the nervous slower. Regulation of humoral regulation by the members of the body's hormones. Humoral (Latin liquid) regulation of the body's internal environment (blood, lymph tissue fluid) from the cells and tissues is carried out by means of biologically active substances. Plays a key role in humoral regulation of hormones..

Nervous and humoral regulation of humoral regulation of nerve subject to regulation. Due to the nerves and the pituitary connection will be nervous and humoral regulation. On the other hand, affects the hormones in the nervous system. Cooperation between the two system breaks down, the work of all members violated. Through the regulation of nerve and humoral regulation of body adapt to the constantly changing environment

# References

1. [https://ru.wikipedia.org/wiki/Иммунная\\_система](https://ru.wikipedia.org/wiki/Иммунная_система)
2. <http://human-physiology.ru>
3. <http://baby-i-mama.ru/zdorovia/vidu-immyniteta.php>
4. <http://www.psyworld.ru/for-students/lectures>
5. <http://humbio.ru/humbio/immunology/imm-gal/0008e88f.htm>