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ENDOCRINOLOGY

Question 1

At a resting heart rate:

- In a serial dilution, acetylcholine was added to the heart. This addition causes an (increase/decrease) in heart rate, and a (increase/decrease) in the force exerted on the heart.
- In a serial dilution, epinephrine was added to the heart. This addition causes an (increase/decrease) in heart rate, and a (increase/decrease) in the force exerted on the heart.
- Which gland increases in size due to stress?

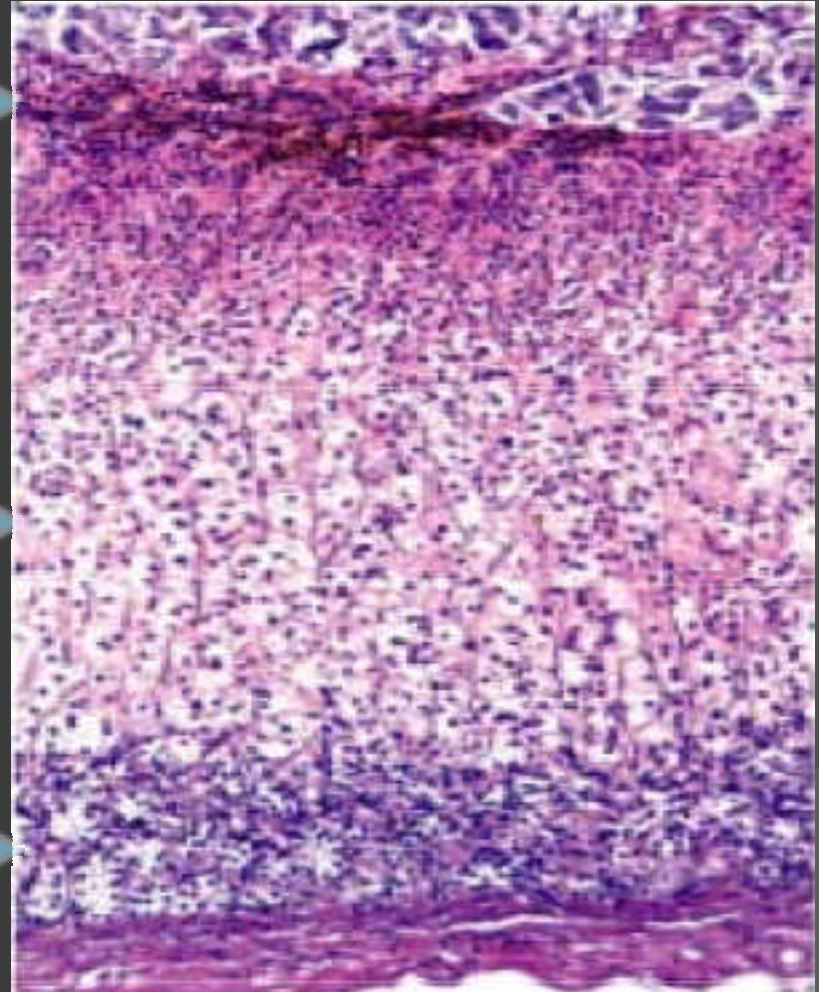
Question 2

- A. What is this picture pointing to?
- B. What is its function?
- C. What type of gland is this?



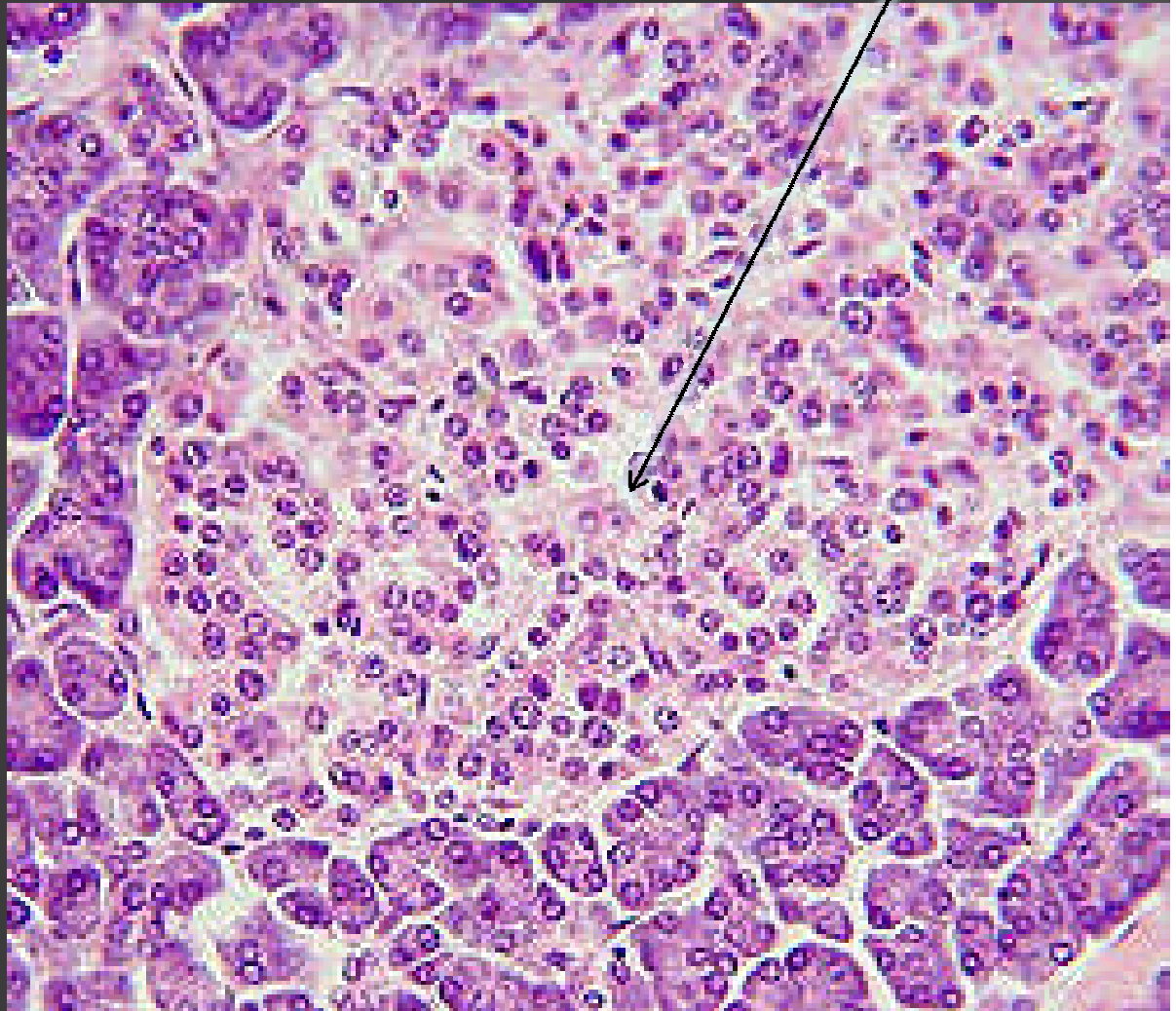
Question 3

- What histology slide is this?
- Name the three regions
- Which of the three zones is responsible produces androgens?



Question 4

- What is this region known as?
- What gland is this found in?

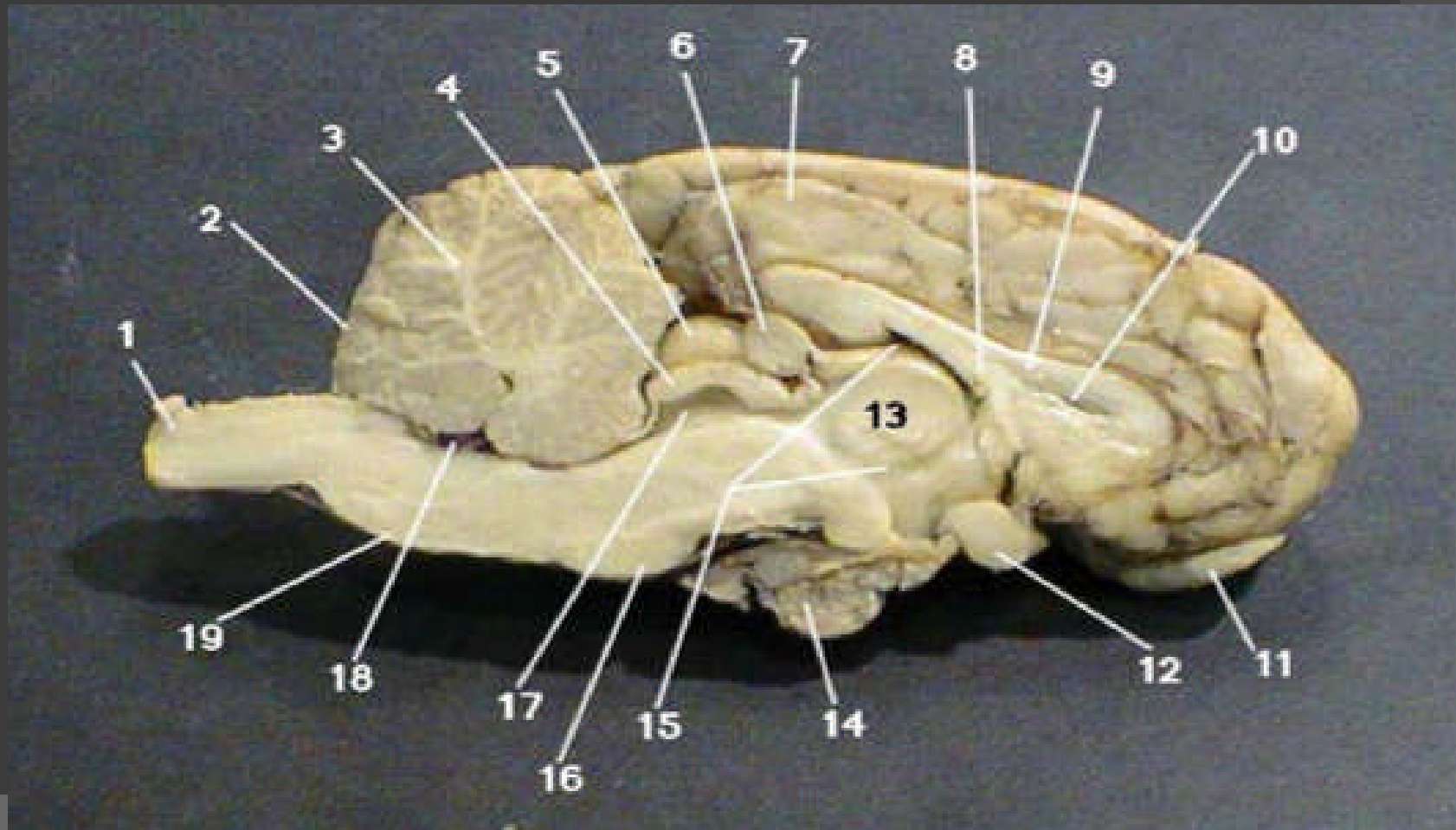


Question 5

- ⦿ Is the Islet of Langerhan considered to be exocrine or endocrine?
- ⦿ Name three cells in the Islet of Langerhan.
 - What do each of the cells produce?

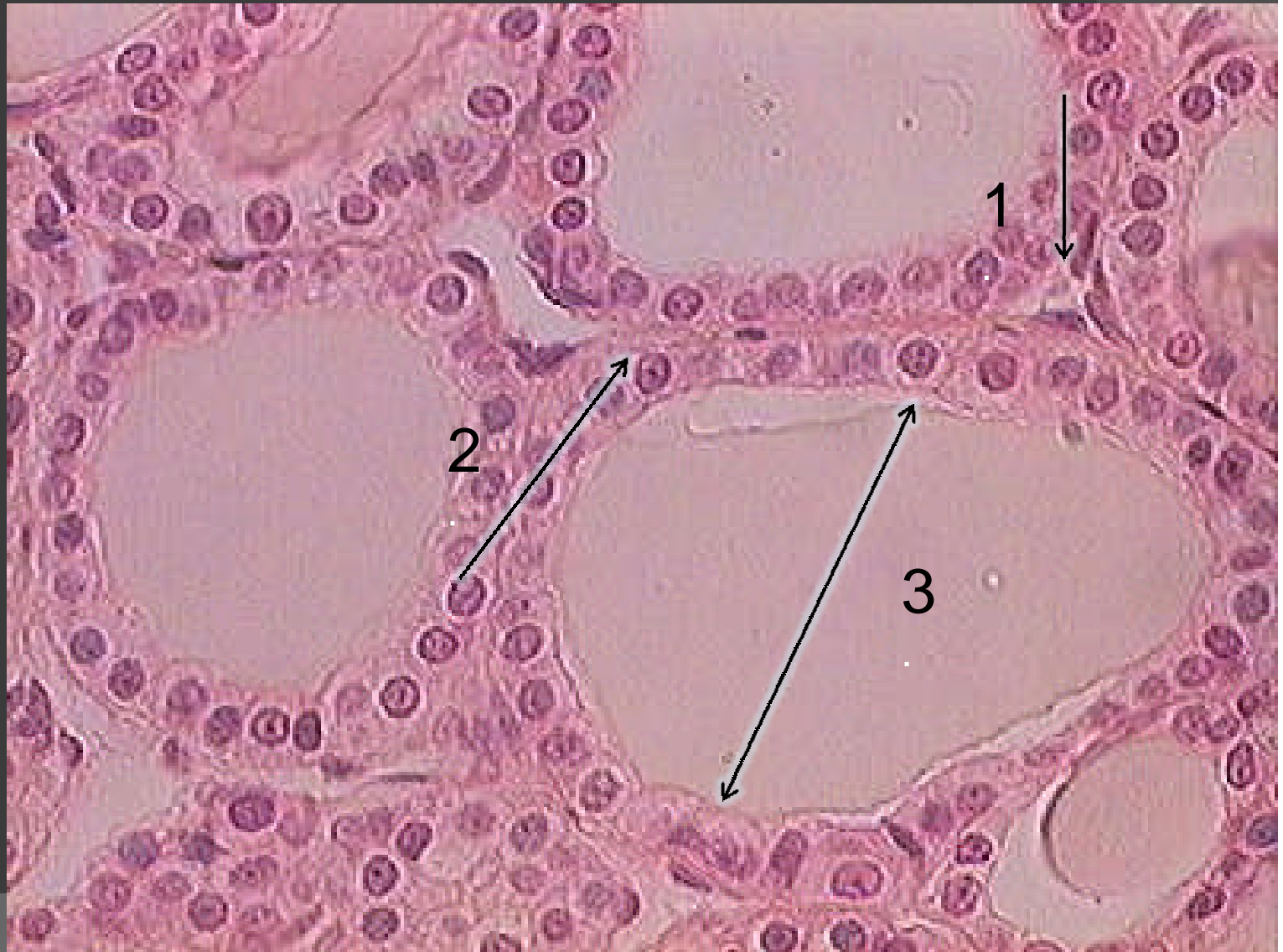
Question 6

- What is number 6 pointing and 14 pointing to?
- What region of the diencephalon do these fall under?



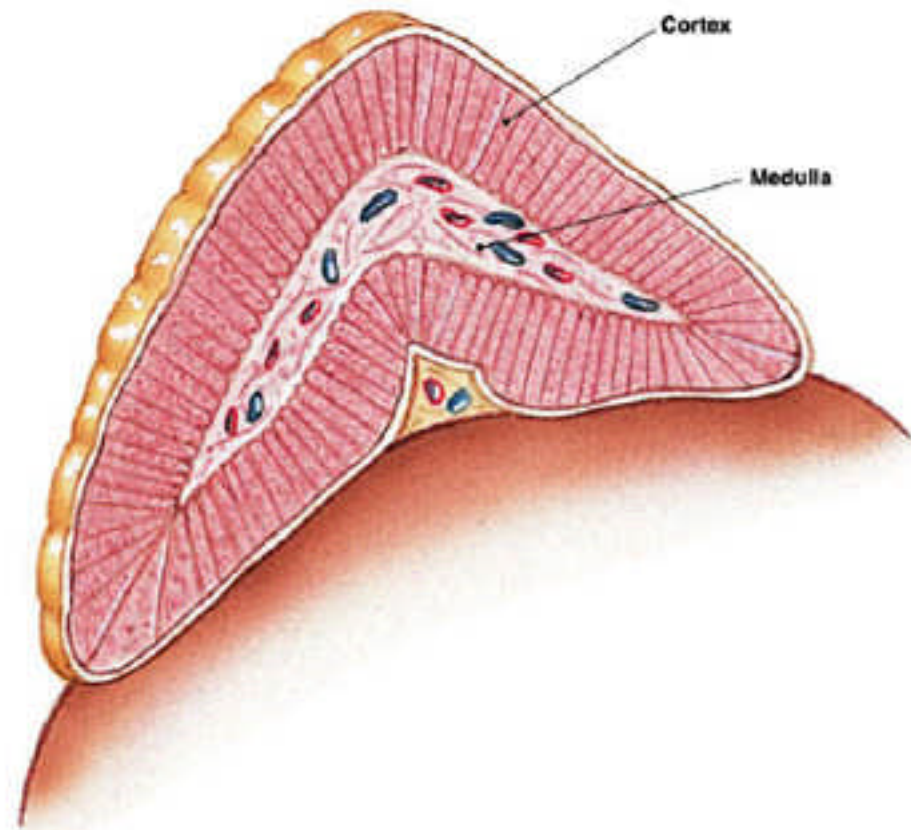
Question 7

- What gland is this?
- What type of epithelial tissue surrounds the follicle cells
- Define 1-3



Question 8

Name the three parts of the adrenal cortex.



Question 9

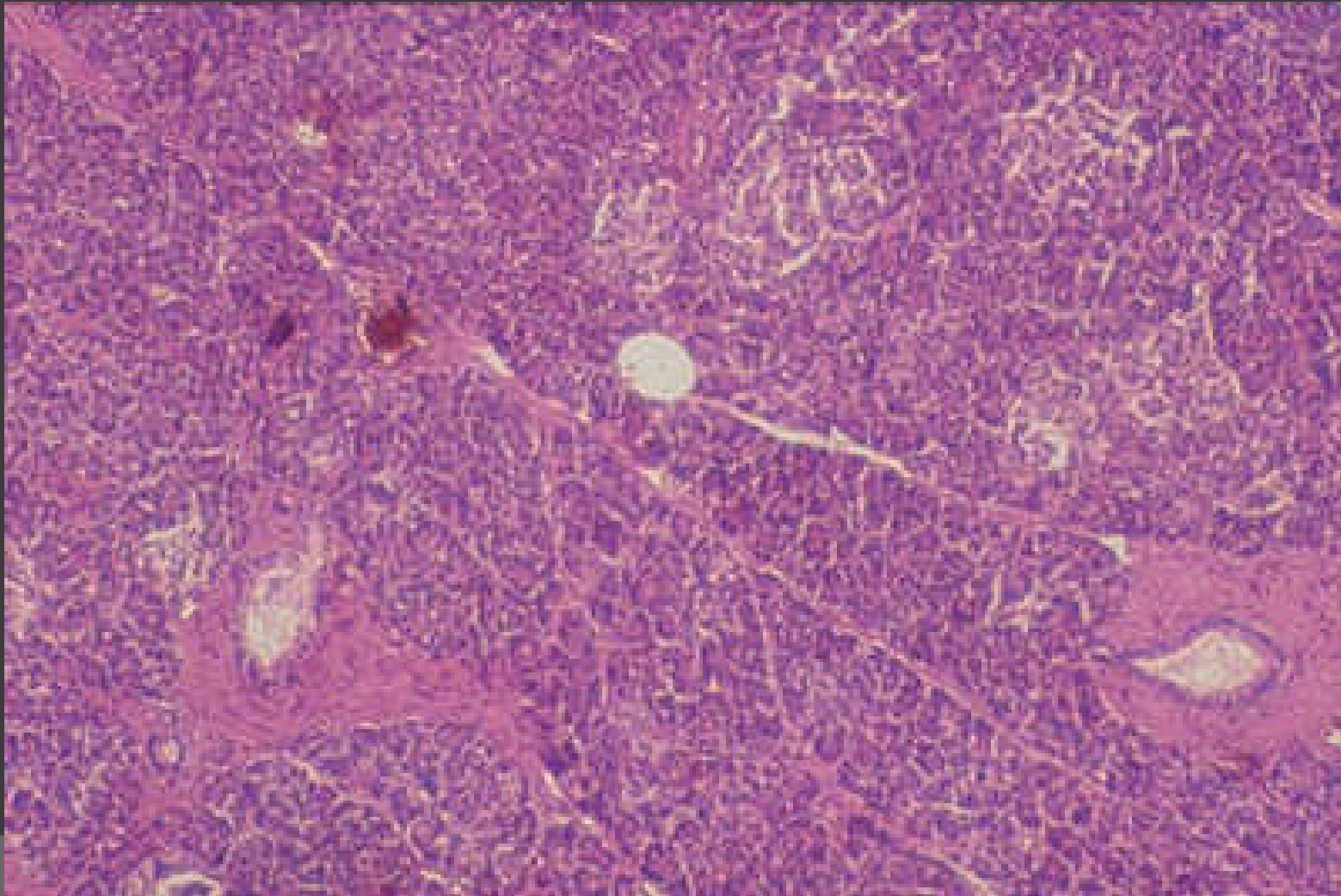
- What type of hormone does the pancreas secrete?

Question 10

- ⦿ What type of hormone does the pineal gland secrete?

Question 11

- What does this image represent?



Question 12

Where is the Pituitary gland located?

- A. Around the trachea, just below the larynx.
- B. On the superior lobes of the kidneys.
- C. Just below the hypothalamus, in the small depression of the sphenoid bone.
- D. In the abdominal cavity, adjacent to the upper part of the small intestine.

Question 13

Which of the following are the most numerous hormone-producing cells of the anterior pituitary?

- A. Gonadotropes.
- B. Corticotropes.
- C. Lactotropes
- D. Somatotropes.

Question 14

Over production of growth hormone can result in:

- A. Cretinism
- B. Acromegaly
- C. Cushing's Disease
- D. Addison's Disease

Question 15

The functional cells of the thyroid gland are called:

- A. Islets of Langerhans
- B. Follicles
- C. Supraoptic nuclei
- D. Thyrotropes

Question 16

A distinctive feature of a person suffering from hyperthyroidism is:

- A. Protrusion of the eyeballs
- B. Abnormal growth of the long bones of the skeleton
- C. Increased fat deposits on the face
- D. Onset of diabetes insipidus

Question 17

The endocrine system:

- A. releases chemicals into the bloodstream for distribution throughout the body
- B. releases hormones that alter the metabolic activities of many different tissues and organs
- C. produces effects that can last for hours, days, or even longer
- D. can alter gene activity of cells
- E. all of the above

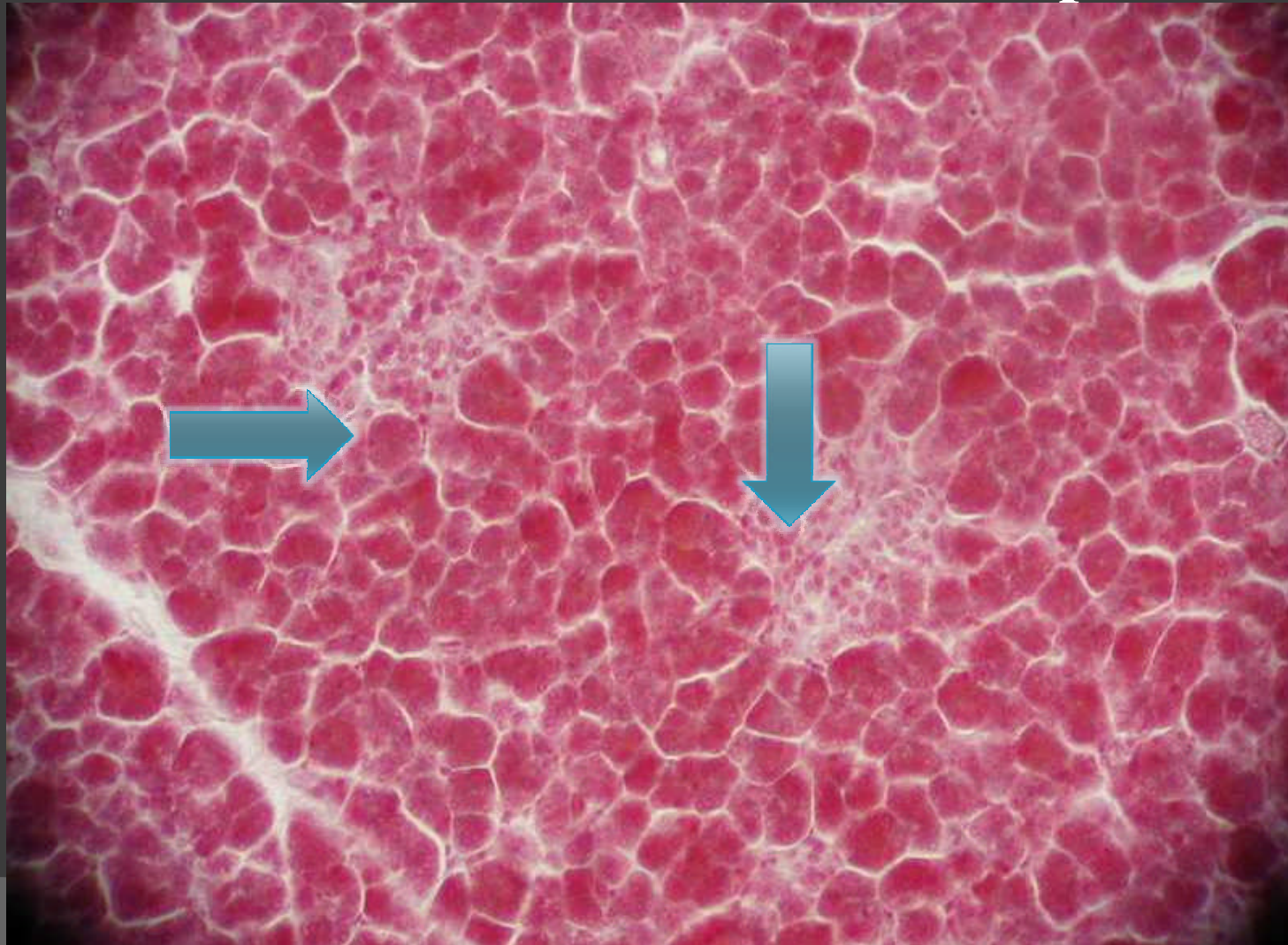
Question 18

Identify the condition from which this man is suffering:



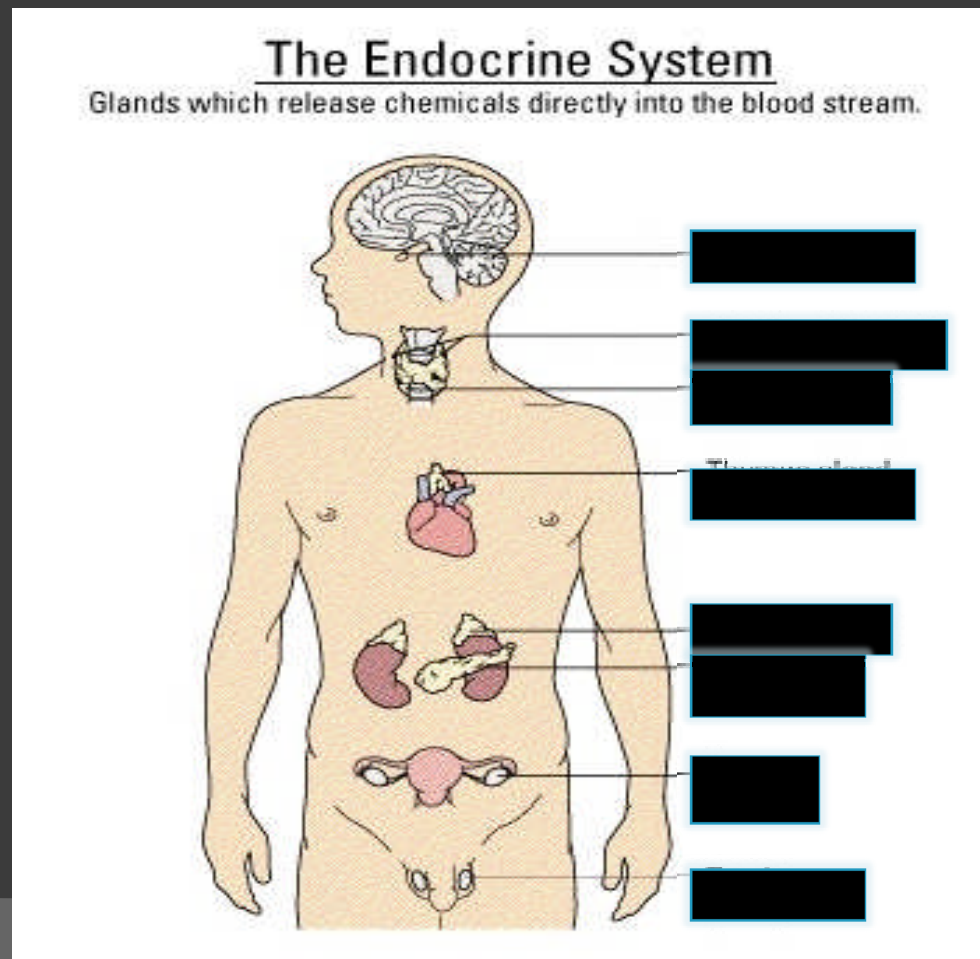
Question 19

Name this structure located within the pancreas:



Question 20

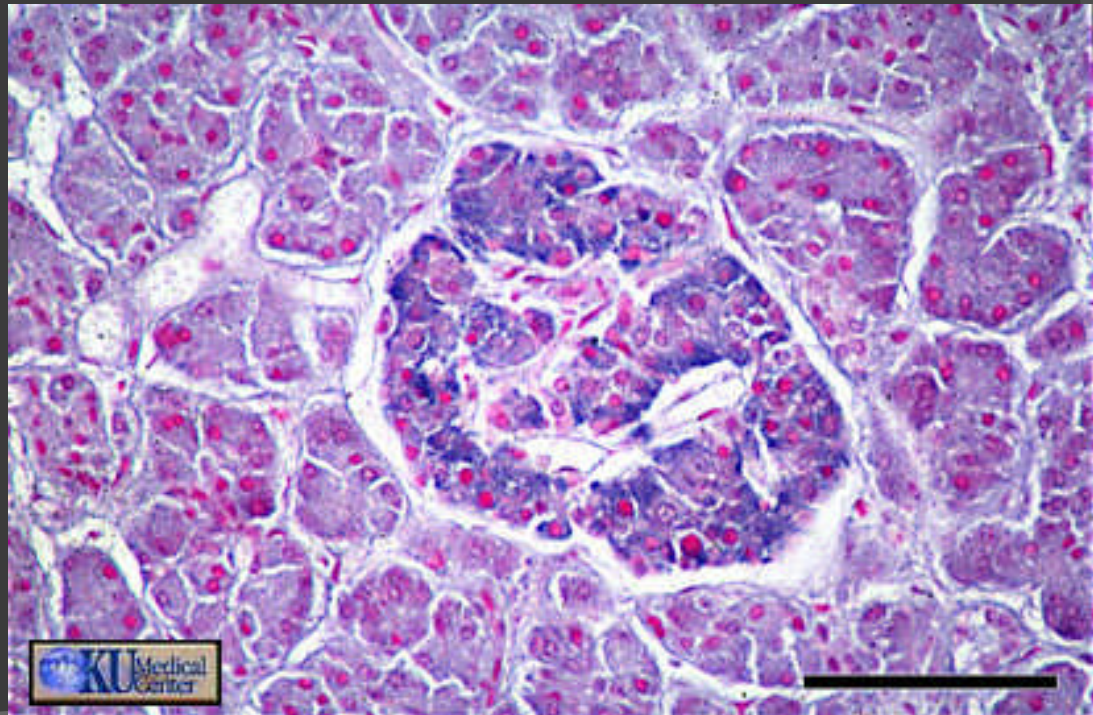
List the major organs that compose the Endocrine System:



Question 21

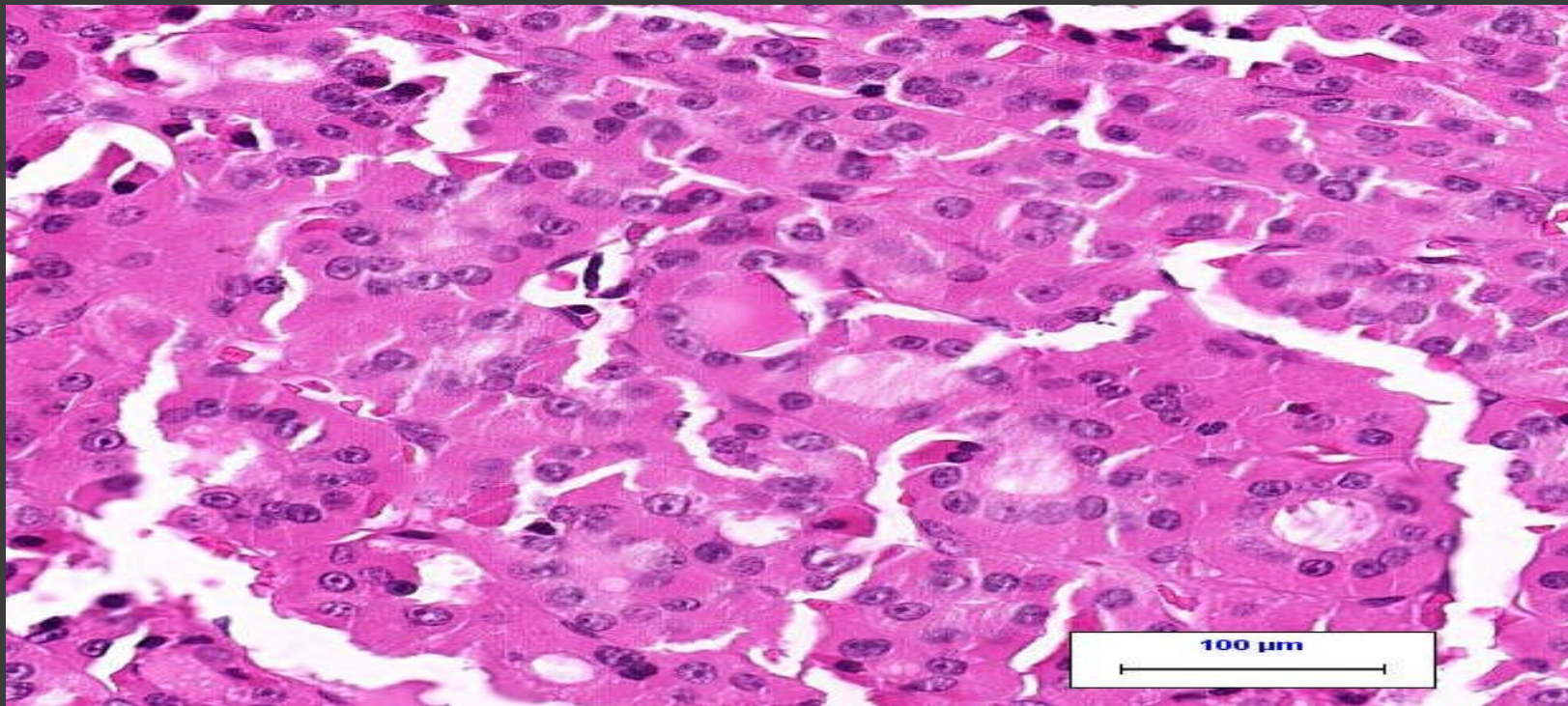
Which type of tissue is pictured below:

- A) Hypothalamus
- B) Pituitary Gland
- C) Lung
- D) Pancreas



Question 22

Name the gland that is pictured below, as well as the type of tissue that it is composed of:



Question 23

The general adaptation syndrome (GAS) is activated by this structure, seen here:



Question 24

- ⦿ The parathyroid produces PTH, or parathyroid hormone.
 - What is the function of PTH?

Question 25

- How does PTH increase calcium in the bone?

Question 26

- ⦿ What is the hormone that plays an opposite role than that of PTH?
- ⦿ Where is it located?
- ⦿ What do they produce?

Question 27

- ⦿ C Cells produce Calcitonin.
 - How do these hormones decrease the calcium in the body?
 - *By decreasing what?*

Question 28

- ① Name the hormone that is produced by the kidney and stimulates red blood cells.
 - If this hormone is not present, what could result from this?
 - *(Hint: Has to deal with iron levels)*