

## Lec 2

### Quiz on the anterior pituitary (1)

1. Which of the following is not an endocrine gland?

- A) Pituitary gland
- B) Thyroid gland
- C) Spleen
- D) Pineal gland

**Answer: C) Spleen**

2. The pituitary gland is located in:

- A) Cerebral cortex
- B) Sella turcica
- C) Ventricles
- D) Medulla oblongata

**Answer: B) Sella turcica**

**3. Which part of the pituitary gland is connected to the hypothalamus by the portal circulation?**

- A) Anterior lobe
- B) Posterior lobe
- C) Intermediate lobe
- D) All of the above

**Answer: A) Anterior lobe**

**4. Growth hormone is secreted by which type of anterior pituitary cells?**

- A) Thyrotropes
- B) Gonadotropes
- C) Somatotropes
- D) Corticotropes

**Answer: C) Somatotropes**

**5. Which hormone stimulates the release of thyroid-stimulating hormone (TSH)?**

- A) GH
- B) TRH
- C) CRH
- D) PRH

**Answer: B) TRH**

**6. The anterior pituitary does not regulate which of the following?**

- A) Gonads
- B) Adrenal cortex
- C) Parathyroid gland
- D) Thyroid gland

**Answer: C) Parathyroid gland**

**7. Which hormone is released from alpha cells of the pancreas?**

- A) Insulin
- B) Somatostatin
- C) Glucagon
- D) Pancreatic polypeptide

**Answer: C) Glucagon**

**8. Which of the following is a trophic hormone?**

- A) Prolactin
- B) Growth hormone
- C) ACTH
- D) Melanocyte-stimulating hormone

**Answer: C) ACTH**

**9. Prolactin secretion is inhibited by:**

- A) Dopamine
- B) GHRH
- C) Estrogen
- D) TSH

**Answer: A) Dopamine**

**10. The hypothalamo-hypophyseal tract connects the hypothalamus to:**

- A) Anterior pituitary
- B) Posterior pituitary
- C) Pineal gland
- D) Thyroid gland

**Answer: B) Posterior pituitary**

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**11. What is the major hormone secreted by the adrenal medulla?**

- A) Cortisol
- B) Aldosterone
- C) Epinephrine
- D) Testosterone

**Answer: C) Epinephrine**

**12. What does somatomedin-C (IGF-I) mediate?**

- A) Glucagon secretion
- B) GH anabolic action
- C) TSH release
- D) Oxytocin release

**Answer: B) GH anabolic action**

**13. The anterior pituitary constitutes approximately what percentage of the total pituitary weight?**

- A) 25%
- B) 50%
- C) 75%
- D) 100%

**Answer: C) 75%**

**14. Which factor increases growth hormone secretion?**

- A) Obesity
- B) Hyperglycemia
- C) Deep sleep
- D) High cortisol

**Answer: C) Deep sleep**

**15. ACTH stimulates the secretion of hormones from:**

- A) Adrenal cortex
- B) Adrenal medulla
- C) Pancreas
- D) Thyroid

**Answer: A) Adrenal cortex**

**16. What type of cells are chromophobes?**

- A) Inactive, with no granules
- B) Active acidophils
- C) Basophils
- D) Cells that release oxytocin

**Answer: A) Inactive, with no granules**

**17. GH increases bone length by stimulating:**

- A) Lipolysis
- B) Bone resorption
- C) Epiphyseal cartilage proliferation
- D) Parathyroid hormone

**Answer: C) Epiphyseal cartilage proliferation**

**18. Which hormone has an anti-insulin effect?**

- A) Insulin
- B) Growth hormone
- C) TSH
- D) Somatostatin

**Answer: B) Growth hormone**

**19. GH secretion is inhibited by:**

- A) Arginine
- B) Hypoglycemia
- C) Sleep
- D) Obesity

**Answer: D) Obesity**

**20. The trophic hormones of the anterior pituitary do NOT control:**

- A) Thyroid
- B) Gonads
- C) Pancreas
- D) Adrenal cortex

**Answer: C) Pancreas**