

Histology Test Bank

Endocrin system

إعداد: بشائر القواقنة & حلا البطوش



which of the following statement is correct

a-The herring bodies contain more than one hormone in same time

b-NB is where the hormone are being stored in the proximal end of the axon

c-To release the hormone from NB there is no requirement of nerve impulse

d-There is a need of carrier protein to carry the hormones ✓

اللهم اني اُتبرأ من حولي وقوتي
والتجأ إلى حولك وقوتك

اللهم أعني ولا تعن علي
وأُنصرني ولا تنصر علي
واهدني ويسر الهدى لي

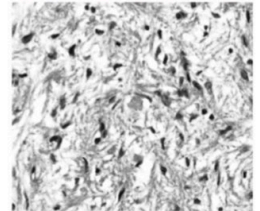
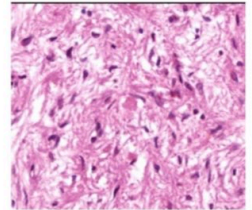
Which of the following true about pars nervosa ?

a-It has reticular fiber and you need special stain to see it

b-contain axon of unmyelinated nerve fibers ,
pituicytes and hering bodies

c-It is response for the formation of the
posterior pituitary gland

d- all of them ✓



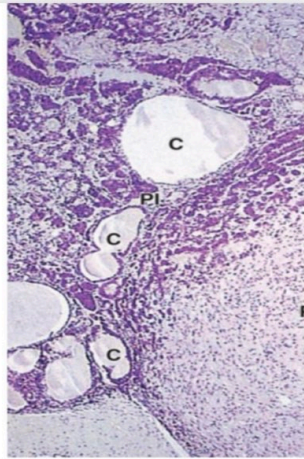
which of the following true about pars intermedialis ?

a-A narrow zone lying between pars tuberalis and pars nervosa.

b-Contains a lot of basophils (corticotrophs) ✓

c-Best-developed and active during Youth life

d-Express POMC and cleaves it in the cysts((MSH), δ -LPH, and β -endorphin).



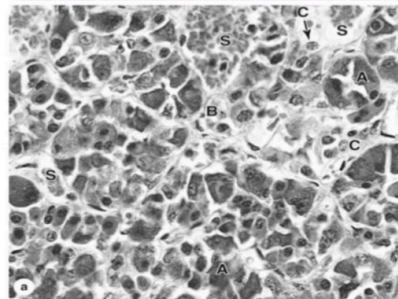
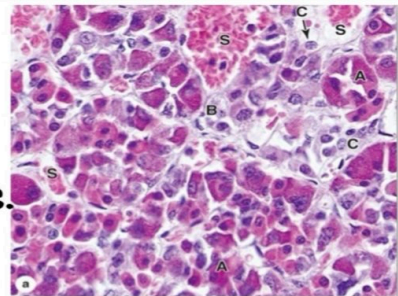
If you know that this section is pars distalis, which of the following is wrong ?

a-Acidophil cells: somatotrophs and lactotrophs.

b-Basophil cells: corticotrophs, gonadotrophs, and thyrotrophs

c-It is contain continuous capillaries ✓

d-It has Thin fibrous capsule.



Which of the following is true?

a-Pituicytes are abundant in the pars distalis.

b-Hypothalamic releasing hormones reach the pg by the systemic circulation directly.

c-MSH is produced by Pars intermedia of pituitary gland ✓

d-MSH is produced by Anterior lobe of the pituitary gland

Which of the following is a neurohormone ?

a-Vasopressin(ADH) ✓

b-Thyroid

c-Growth hormone

d-Cortisol

Which of the following statements concerning parathyroid hormone's (PTH) actions is INCORRECT?

- a. An elevated plasma calcium acts directly on the parathyroid gland to stimulate PTH secretion.
- b. PTH helps the kidneys excrete excess phosphate from the body.
- c. PTH promotes localized dissolution of bone by stimulating osteoclasts.
- d. PTH promotes the rapid movement of Ca from the bone fluid into the plasma.
- e. PTH stimulates the reabsorption of Ca from the kidney.

Answer : a

Acidophils cells of the pituitary secretes:

- a. GH
- b. TSH
- c. ACTH

Answer: a

Pituicytes are most precisely described as :

- a. modified neurons
- b. Secretory cells in the post pituitary
- c. Glial cells in the pars nervosa

answer: c

eosinophilic cytoplasm, few rER, no secretory granules and abnormally shaped mitochondria are typical characteristics of:

chief cells of the parathyroid

- a. Oxyphil cells
- b. Cells of the zona glomerulosa
- c. Cells of the zona fasciculata
- d. Cells of the zona reticularis

answer: b

Oxyphil cells derived from the ultimobranchial body:

- a. True
- b. False

Answer: b

Wrong about the parafollicular cells

- a. produce calcitonin
- b. Can occur singly
- c. originates from ectoderm

Answer: c

Parafollicular cells produce:

- a. Calcitonin
- b. Parathyroid hormone
- c. Thyrotropin
- d. Thyroxine
- e. Growth hormone

Answer: a

The herring bodies contain:

- a. FSH and LH
- b. Growth hormone
- c. Prolactin
- d. ADH and oxytocin
- e. Melatonin

Answer: d

The Para follicular cells from fourth pouch

- a. True
- b. False

Answer: b

Which of the following is true ?

a-zona glomerulosa contain capillaries more than zona fasciculata

b- zona reticularis fewer lipid droplet and more lipofuscin pigment ✓

c-zona fasciculata secret steroids are called mineralocorticoids

d-zona glomerulosa and zona reticularis originated from definitive cortex

which of the following is false ?

a-Zona fasciculata Originated from definitive cortex

b-The outer zone is slightly less whitish than middle zone and more pinkish

c-Zona reticularis Originated from fetal cortex

d- zona glomerulosa comprising about 30 % of the cortex ✓

which of the following is false ?

a- The origin of medulla is chromaffin cells—neural crest

b- Medullary COs are innervated by preganglionic sympathetic neurons.

c- The adrenal medulla with no parasympathetic ganglion. ✓

d- chromaffin cells are modified sympathetic postganglionic neurons

which of the following is not secreted by basophilic cell:

A-LH

B-TSH

C-ACTH

D-GH-E-FSH

Answer: d

Thyroid hormones stored in the follicular cells ?

a. True

b. False

Answer: b (out of the follicular cells within the colloid)

Which one of the following is secreted by acidophilic cells of the pituitary gland?

a. Growth hormone

b.LH

c.ACTH

d. TSH

e.FSH

Answer: a

Which of the following is INCORRECT concerning PTH, calcitonin, and vitamin D?

a.Both calcitonin & PTH are produced in the follicle cells of the thyroid gland.

b. Vitamin D is actually a hormone that increases calcium absorption in the intestine.

c.Vitamin D deficiency is the cause of rickets.

d.PTH is the most important hormone in the control of calcium metabolism. e.Parathyroid hormone is essential for life.

Answer: a

Which one of the following cell types of the anterior pituitary gland has the second largest percentage of the total population of cells?

- a. Gonadotropes
- b. Somatotropes
- c. Lactotropes
- d. Corticotropes
- e. Thyrotropes

Answer: d

MSH is produced by:

- a. Anterior lobe of the pituitary gland
- b. Posterior pituitary gland
- c. Parathyroid
- d. Pars intermedia of pituitary gland

Answer: d

Why are parathyroid hormone and calcitonin considered to be antagonists of one another?

- a. When parathyroid hormone puts calcium back in the blood, calcitonin works alongside it to accomplish the task.
- b. When parathyroid hormone puts calcium in the blood, calcitonin clears calcium out of the blood.
- c. Calcitonin always dictates how parathyroid hormone will behave.
- d. Parathyroid hormone and calcitonin do not have any effect on each other.

Answer: b

Calcitonin has which of the characteristics?

- a. It stimulates the action of osteoclasts.
- b. Its absence or its excess can be fatal.
- c. The blood iron level directly controls the secretion of calcitonin.
- d. It helps maintain the homeostasis of calcium & phosphate in the blood.
- e. It is produced by the parathyroid glands.

Answer: d

Which one of the following is secreted by acidophilic cells of the pituitary Gland?

- a. Growth hormone
- b. LH
- c. ACTH
- d. TSH
- e. FSH

Answer: a

How does the body restore itself to normal when calcium levels are too low?

- A) PTH will stimulate osteoclasts to store calcium in bone
- b) PTH will stimulate osteoblasts to break down bone, and calcium will enter the blood to restore the level to normal
- C) PTH will stimulate osteoblasts to store calcium in bone
- d) PTH will stimulate osteoclasts to break down bone, and calcium will enter the blood to restore the level to normal

Answer: D

Adrenal cortical hormones essential for sodium and potassium regulation is?

- a. Progesterone.
- b. Epinephrine and norepinephrine.
- c. Cortisol
- d. Androgens.
- e. Aldosterone.

Answer: e

Which of the following statements concerning parathyroid hormone's (PTH) actions is INCORRECT?

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- d. PTH promotes the rapid movement of Ca from the bone fluid into the plasma.
- e. PTH stimulates the reabsorption of Ca from the kidney.

Answer: a

Although the adrenal cortex secretes at least _____ different hormones, about 95% of the mineralocorticoid activity is due to _____

- A) 3/Aldosterone.
- B) 2/Cortisol.
- C) 4/Gonadocorticoids.
- D) 5/Epinephrine.
- E) 7/Norepinephrine

Answer: A

Pituitary gland, choose the correct answer:

- a. neurohypophysis has chromophobe and chromophilic cells
- b. neurohypophysis has secretory cells
- c. located lateral to cavernous sinus
- d. pars tuberalis supplied by superior hypophyseal art.

Answer: D

Pituitary gland, choose the wrong match:

- a. Bitemporal hemianopsia... pituitary adenoma
- b. craniopharyngioma.... embryonic squamous remnants of Rathke pouch
- c. portal circulation.... pars tuberalis
- d. pars nervosa... diencephalon

Answer: c

The hormone that controls the level of calcium and phosphorus in blood is secreted by

- A) Thyroid gland
- B) Parathyroid gland
- C) Pituitary gland
- D) Thymus

Answer: B

Which of the following is not involved in regulation of plasma Ca^{++} levels

- a. Thyroid.
- b. Small intestine.
- c. Lungs.
- d. Kidneys.

Answer: c

PTH has which of the following primary actions ?

- a. It decreases renal tubular calcium reabsorption.
- b. It increases bone resorption.
- c. It increases gastrointestinal calcium absorption.
- d. It increases 24,25-(OH)₂-vitamin D synthesis.
- e. It decreases urinary phosphate excretion.

Answer: b

Regarding parathyroid glands, which is TRUE:

- a. PTH is secreted in response to high glucose
- b. PTH is secreted in response of high T₄
- c. PTH is secreted from the thyroid glands in response to a low plasma concentration of ionized (free) calcium
- d. PTH is secreted from the parathyroid glands in response to a high plasma concentration of ionized (free) calcium
- e. PTH increases rates of dietary calcium absorption

Answer: E

the adrenal medulla is a modified parasympathetic ganglion?

- a. True
- b. False

Answer: b (modified sympathetic ganglion)

