

ENDOCRINE

LAB ARCHIVE

Done by:-

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Q1. The parathyroid gland is located at the:

- a. Superior border of the anterior surface**
- b. Inferior border of the posterior surface**
- c. Lateral border of the thyroid isthmus**
- d. Superior border of the posterior surface**
- e. Medial surface of the thyroid gland**

Correct answer: b. Inferior border of the posterior surface

Q2. The middle thyroid vein drains into the:

- a. Brachiocephalic vein**
- b. Subclavian vein**
- c. Internal jugular vein**
- d. External jugular vein**
- e. Superior vena cava**

Correct answer: c. Internal jugular vein

Q3. Which of the following correctly compares Epinephrine (EP) and Norepinephrine (NE)?

- a. EP mainly stimulates β -receptors, while NE mainly stimulates α -receptors**
- b. EP increases heart rate more, while NE increases blood pressure more**
- c. EP is secreted in larger amounts from adrenal medulla, while NE is secreted in smaller amounts**
- d. NE has a stronger effect on peripheral vasoconstriction compared to EP**
- e. All of the above**

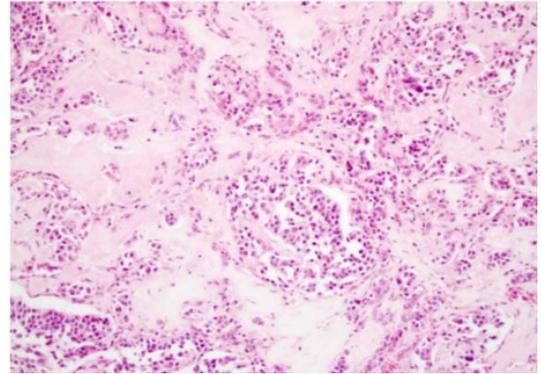
Correct answer: e. All of the above (same idea of Q)



Q4. Which of the following tumors is NOT typically associated with this condition?

- a. Pituitary adenoma
- b. Parathyroid hyperplasia
- c. Pancreatic tumors
- d. Pheochromocytoma
- e. Neuroma

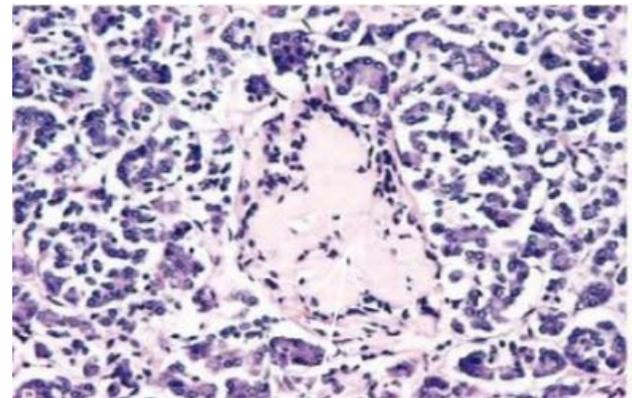
Correct answer: a. Pituitary adenoma



Q5. What is the best stain to diagnose this pathology?

- a. Congo red stain
- b. Amyloid
- c. H&E stain
- d. PAS
- e. Silver stain

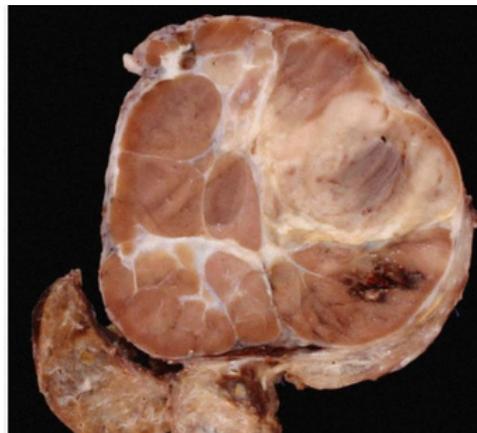
Correct answer: a. Congo red stain



Q6. What is the percentage of cases where this tumor affects the vocal cords?

- a. 20%
- b. 30%
- c. 50%
- d. 70%
- e. 100%

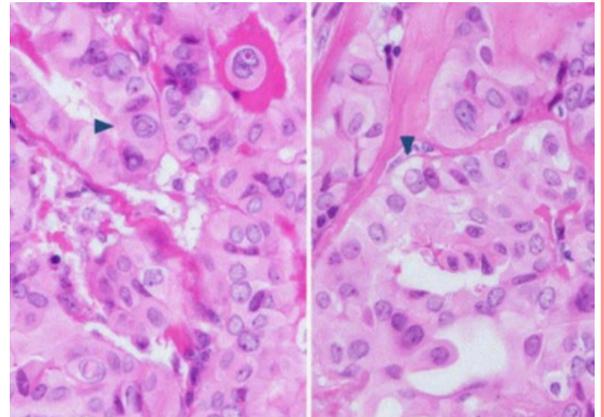
Correct answer: b. 30%



Q7. All of the following histological features can be identified in this condition except:

- a. Irregular nuclear contour
- b. Nuclear groove
- c. Nuclear inclusion
- d. Fibrovascular core
- e. Vascular invasion

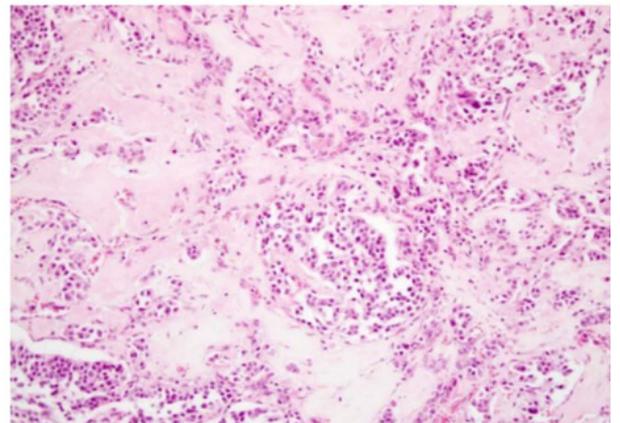
Correct answer: e. Vascular invasion



Q8. All of the following are ruled out in a patient with this neoplasm, except:

- a. Pituitary adenoma
- b. Parathyroid hyperplasia
- c. Pancreatic hyperplasia
- d. Pheochromocytoma
- e. Neuroma

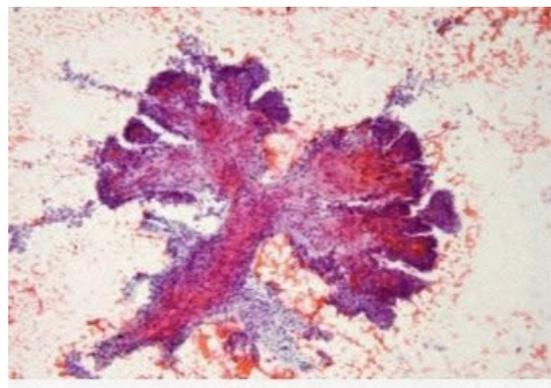
Correct answer: d. Pheochromocytoma



Q9. Which gene mutation is responsible for this condition?

- a. BRAF
- b. TP53
- c. RAS
- d. PTEN
- e. PIK3CA

Correct answer: a. BRAF



Endocrine

Q13. Which of the following microscopic findings is most likely seen in this case?

- a. Colloid scalloping
- b. Hurthle cell

Correct answer: a. Colloid scalloping



Q14. Epinephrine (EP) is than Norepinephrine (NE):

- a. Small & less electron dense
- b. Small & more electron dense
- c. Large & more electron dense
- d. Large & less electron dense
- e. No difference

Correct answer: a. Small & less electron dense

Q15. Which of the following is NOT found in the pars nervosa?

- 1. Pituicyte
- 2. Herring bodies
- 3. Astrocyte
- 4. Blood vessels

Correct answer: 3. Astrocyte

Q16. Which is the most outer layer of the adrenal cortex?

- a. Zona glomerulosa
- b. Zona fasciculata
- c. Zona reticularis
- d. Adrenal medulla
- e. Capsule

Correct answer: a. Zona glomerulosa



Endocrine

Q17. What is the DNA binding sequence for retinoic acid?

a. T' AGGTCA(N)4. AGGTA 3'

Correct answer: a. T' AGGTCA(N)4. AGGTA 3'

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Q18. Which of the following is NOT an adverse effect of thionamides?

- a. Agranulocytosis
- b. Skin rash, fever, hepatitis, nephritis
- c. Hypothyroidism
- d. Goiter

Correct answer: d. Goiter

Q19. The effector protein of DAG is:

- a. Protein kinase A (PKA)
- b. Phospholipase C
- c. Protein kinase C (PKC)
- d. Adenylyl cyclase
- e. Guanylyl cyclase

Correct answer: b. Phospholipase C

Q20. Which of the following is NOT an effector protein?

- a. Adenylyl cyclase
- b. Guanylyl cyclase
- c. Phosphodiesterase
- d. Protein kinase
- e. Ion channel

Correct answer: c. Phosphodiesterase



Q21. A patient with a dislocated shoulder was prescribed ibuprofen. He asked the doctor about glucocorticoids. What is the mechanism of action of glucocorticoids?

- a. Inhibit cyclooxygenase (COX)
- b. Reduce phospholipase A2 activity
- c. Block leukotriene receptors
- d. Inhibit histamine release
- e. Activate prostaglandin synthesis

Correct answer: b. Reduce phospholipase A2 activity

Q22. Which of the following statements about insulin is correct?

- a. Insulin has 51 amino acids: A chain 20 aa and B chain 31 aa
- b. Insulin has 60 amino acids: A chain 30 aa and B chain 30 aa
- c. A and B chains are not connected
- d. Insulin is a single polypeptide chain
- e. Insulin is a steroid hormone

Correct answer: a. Insulin has 51 amino acids: A chain 20 aa and B chain 31 aa

Q23. Which of the following statements about Pioglitazone and Nateglinide is WRONG?

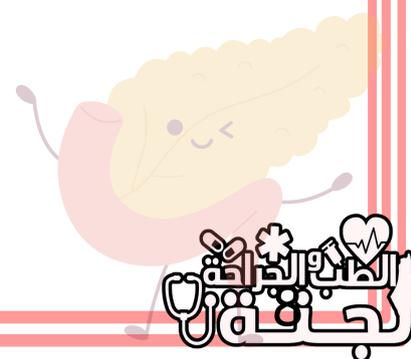
- a. Nateglinide manages mealtime glucose rise
- b. Nateglinide has rapid onset and short duration
- c. Pioglitazone's primary action is to reduce lipolysis
- d. Pioglitazone is contraindicated in angina or heart failure
- e. Pioglitazone reduces peripheral insulin resistance

Correct answer: — None; all statements are correct

Q24. What is the active form of thyroid hormone?

- a. Thyroxine bound to thyroxine-binding globulin (TBG)
- b. Thyroxine bound to thyroxine-binding pre-albumin
- c. Thyroxine bound to albumin
- d. Unbound (free) thyroid hormone

Correct answer: d. Unbound (free) thyroid hormone



Q25. Which of the following is NOT an adverse effect of Thiazolidinediones?

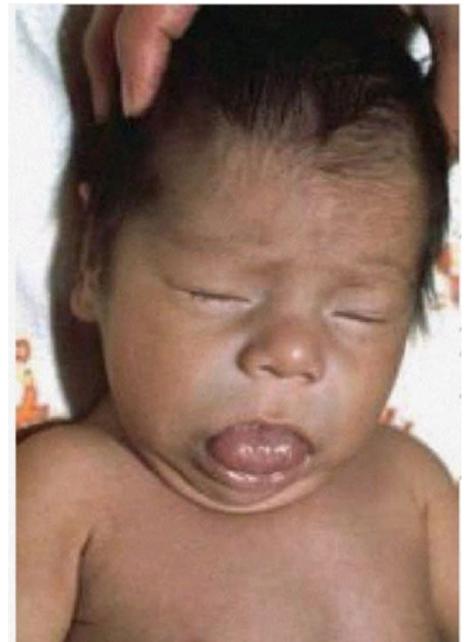
- a. Mild anaemia
- b. Weight gain
- c. Hypoglycaemia
- d. Fluid retention
- e. Disulfiram-like reaction with ethanol

Correct answer: e. Disulfiram-like reaction with ethanol

Q26. What is the most likely cause of this condition?

- a. Ionizing radiation
- b. Dietary iodine deficiency

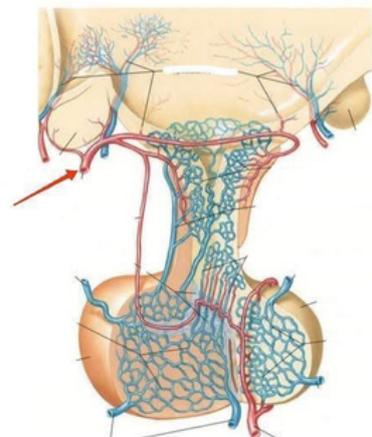
Correct answer: b. Dietary iodine deficiency



Q27. The artery indicated by the red arrow originates from which of the following?

- a. Ophthalmic artery
- b. Basilar artery
- c. Internal carotid artery
- d. Inferior hypophyseal artery

Correct answer: c. Internal carotid artery



Q28. What substance is accumulating in the skin of this patient?

- a. Mucopolysaccharides
- b. Amyloid
- c. Edema
- d. Fat

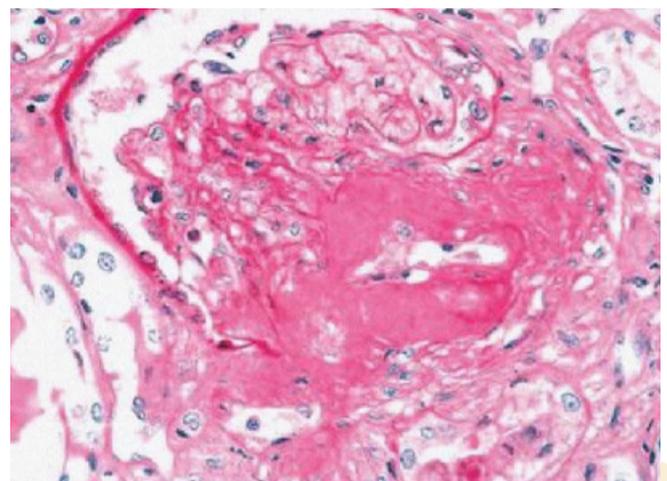
Correct answer: a. Mucopolysaccharides



Q29. Which of the following is NOT a pathological effect associated with the condition in the picture?

- a. Glycation end product accumulation
- b. Elevated NO levels
- c. Smooth muscle cell dysfunction
- d. Overproduction of endothelial growth factors
- e. Chronic inflammation

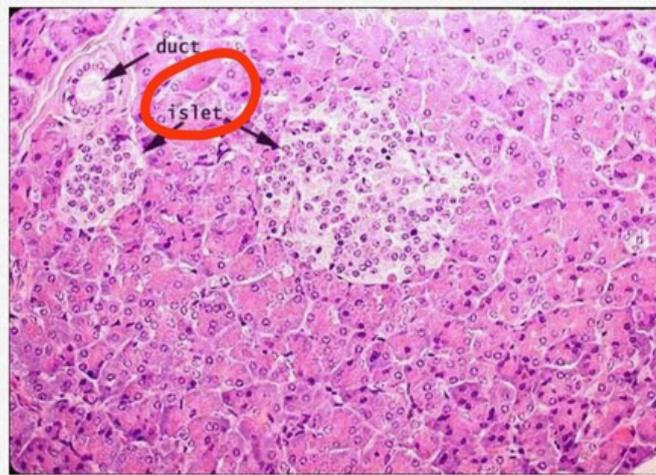
Correct answer: b. Elevated NO levels



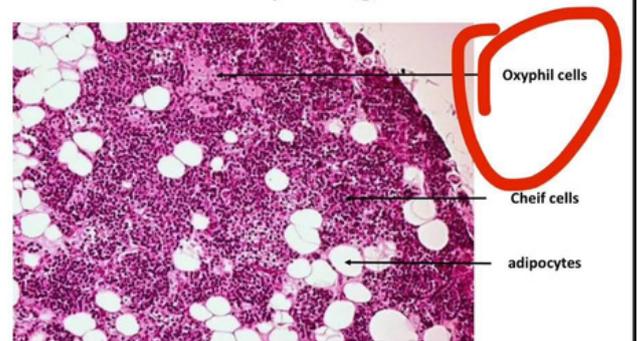
Q30. What structure does the arrow in the image indicate?
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Correct answer: الاسم على الصورة كان مخفي وفي خيارات [الجواب حسب الصورة المرفقة]

Pituitary gland



Parathyroid gland



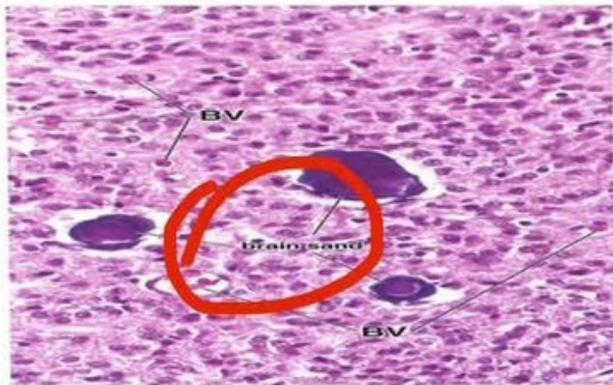
Pituitary gland



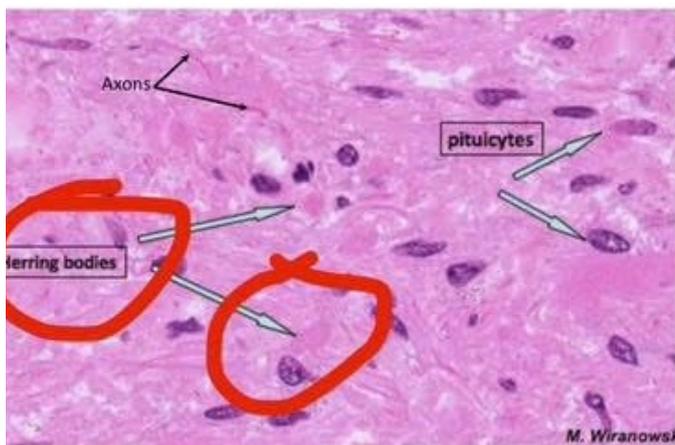
D= Pars dista
C= Cleft
I= Pars interr
T= Pars tubei
N= Pars nerv
F= Infundibu



Pineal gland (corpora arnatae)



Pars nervosa



Adrenal (suprarenal) gland

