

## Endocrinology Review

1. Please diagnose a patient with the following results

T4 ..... low

FT4 ..... low

TSH ..... high

Anti-Thyroid Peroxidase..... +

2. The major hormone product of the thyroid gland is: \_\_\_\_\_
3. The ratio of FT4:FT3 is approximately: \_\_\_\_\_
4. The most potent hormone produced by the thyroid gland is: \_\_\_\_\_

Cortisol is secreted by what region of what organ?

Adrenal insufficiency is known as: \_\_\_\_\_

7. What three classes of hormone are produced by the adrenal cortex?
8. Catecholamines are produced by what type of cancer? What are their breakdown products, and what is the best test to screen for this cancer?
9. What is the most common screening test for Cushing's? What is the confirmatory test that determines ACTH dependence or independence?

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10. What is the best test to differentiate primary and secondary Addison's
11. Please define the term "euthyroid"
12. What is the most potent androgen? Estrogen?
13. What hormone is responsible for elevated calcium in cases of hypercalcemia secondary to malignancy?
14. What are the lab findings for primary adrenal insufficiency? Secondary adrenal insufficiency?
15. What is the most likely cancer to secrete ACTH ectopically?
16. What is the purpose of dexamethasone?
17. When in relation to ovulation do FSH, LH, Estradiol, and progesterone rise/peak?
18. What hormonal abnormalities would one expect in polycystic ovarian syndrome?

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19. What is the parathyroid dysfunction responsible for pseudohypoparathyroidism?
20. Describe the etiology of Grave's disease.
21. Please describe the etiology of Hashimoto's Thyroiditis.
22. How do protein hormones travel and exert their effect? What about steroid hormones?
23. Please list the anterior pituitary hormones and their target gland.
24. What hCG would we expect in the following situations?
  - a. Pregnancy
  - b. Twins!
  - c. Ectopic pregnancy
  - d. Down's syndrome
  - e. Testicular cancer
  - f. Hydatidiform mole
25. Describe the phenomenon of nonthyroidal illness impact upon thyroid hormone levels