

Increased Total Thyroxine

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FOR MORE

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- ▶ Hypoglycemia
- ▶ Epistaxis
- ▶ Regurgitation
- ▶ Decreased Total Thyroxine

Following are differential diagnoses, listed in order of likeliness, for patients presented with increased total thyroxine (T4).

- ▶ Hyperthyroidism
 - Functional benign adenomatous hyperplasia
 - Functional thyroid carcinoma
 - Thyroxine oversupplementation
 - Dietary causes
- ▶ Analytical error (eg, false positive) ■

References

- Aldridge C, Behrend EN, Martin LG, et al. Evaluation of thyroid-stimulating hormone, total thyroxine, and free thyroxine concentrations in hyperthyroid cats receiving methimazole treatment. *J Vet Intern Med.* 2015;29(3):862-868.
- Broome MR, Peterson ME, Kempainen RJ, Parker VJ, Richter KP. Exogenous thyrotoxicosis in dogs attributable to consumption of all-meat commercial dog food or treats containing excessive thyroid hormone: 14 cases (2008-2013). *J Am Vet Med Assoc.* 2015;246(1):105-111.
- Peterson ME, Melián C, Nichols R. Measurement of serum concentrations of free thyroxine, total thyroxine, and total triiodothyronine in cats with hyperthyroidism and cats with nonthyroidal disease. *J Am Vet Med Assoc.* 2001;218(4):529-36.
- Thompson M. *Small Animal Medical Differential Diagnosis*. St. Louis, MO: Elsevier Saunders; 2007.