

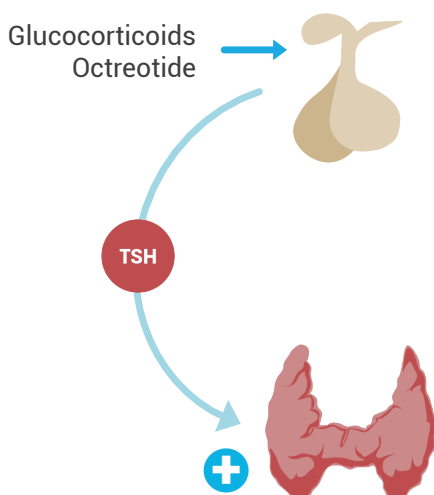
OTHER CAUSES OF ABNORMAL THYROID LAB VALUES

Checking for drug interference

Medications affect multiple steps in thyroid hormone production and regulation.

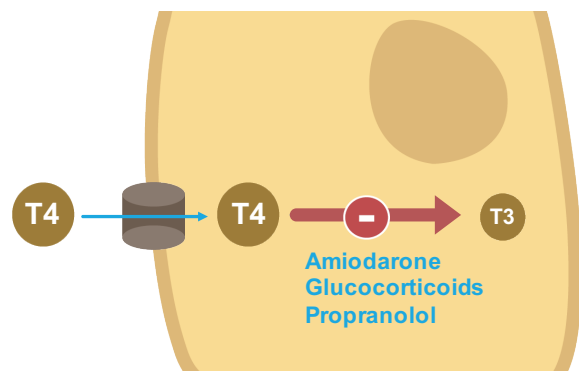
Impaired TSH secretion

Results in low TSH with low normal thyroid hormone levels.



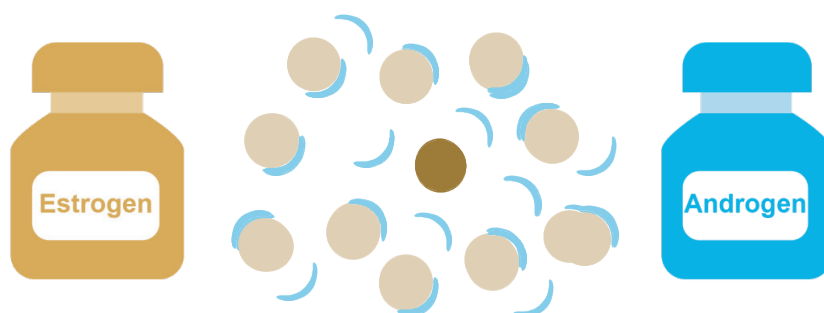
Impaired T4 → T3 conversion

Results in low T3, and elevated reverse T3 (rT3).



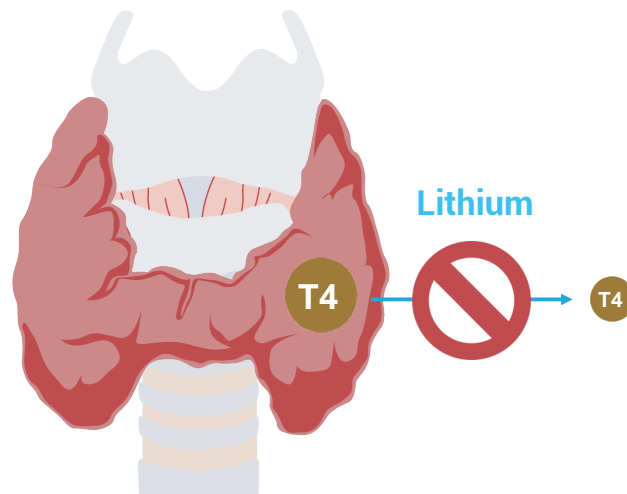
Changes in binding proteins

Can result in increased (estrogen) or decreased (androgen) total thyroid hormone levels.



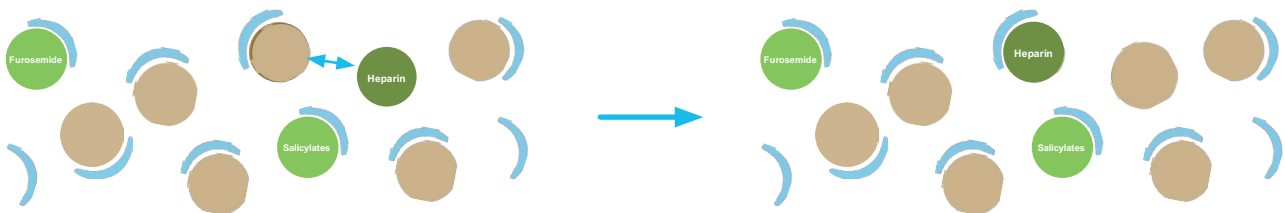
Impaired thyroid hormone release

Can cause hypothyroidism with low T3/T4 and elevated TSH.



Altered thyroid hormone binding to binding proteins

Can cause changes in free thyroid hormone levels.



Further reading

Surks MS. Drug interactions with thyroid hormones. www.uptodate.com/contents/drug-interactions-with-thyroid-hormones. Updated Aug 6, 2015.