

Managing Thyroid Disease in Primary Care – Tips & Tricks

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Topics

1. New Thyrotoxicosis – what to do
2. Hypothyroidism – Tips on common issues
3. Pregnancy issues

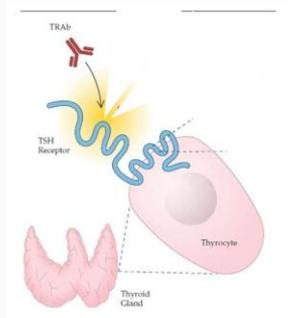
1. New Thyrotoxicosis

New Thyrotoxicosis – Graves' Disease



Graves' disease

Cause



Antibodies to TSH Receptor (TRAb)

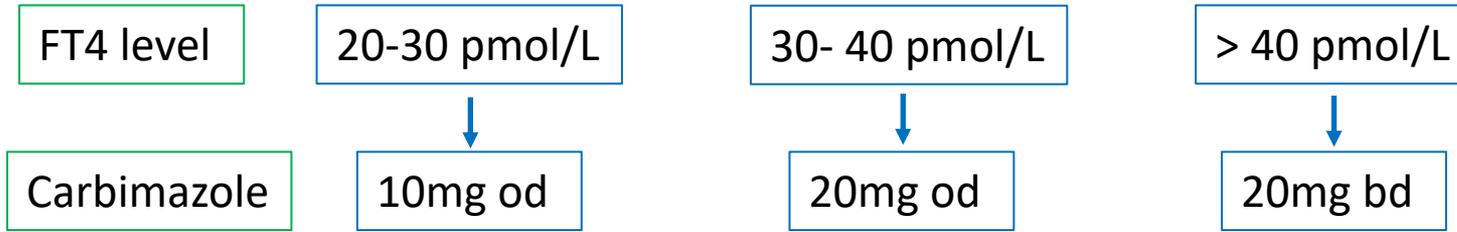
Notes/Clues

F>M
20-50 y.o
Family Hx of TD
Previous Graves'
Goitre +/-
Eye disease
TRAb positive (>95%)

Treatment

Anti-Thyroid Drugs (ATD)
Course 18months
Trial off: 50% relapse
Consider RAI/Surgery if relapses

Managing Graves' disease



Side effects

- Rash – use anti-histamine, usually settle within a few days
- Birth Defects – not common, but advise not to conceive
- Severe liver abnormalities, pancreatitis - rare
- Agranulocytosis Advice

STOP medication if:

- Sore throat
- Flu-like illness
- Mouth ulcers
- Fever

Have FBC within 24 hours – if normal WCC, restart



Managing Graves' disease – additional advice

Advice

Thyroid Eye Disease

Stop smoking

Ensure in sinus rhythm

Consider beta blocker (propranolol 10mg tds – 20mg tds)



EUGOGO TED Atlas

Repeat TFTs

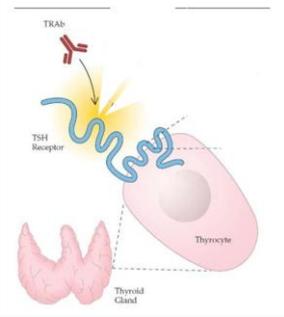
4-6 weeks; if FT4 mid range or lower*, halve carbimazole dose

Repeat TFTs

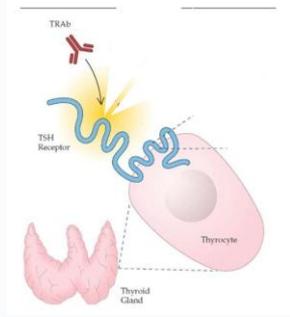
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*TSH stays low!!!

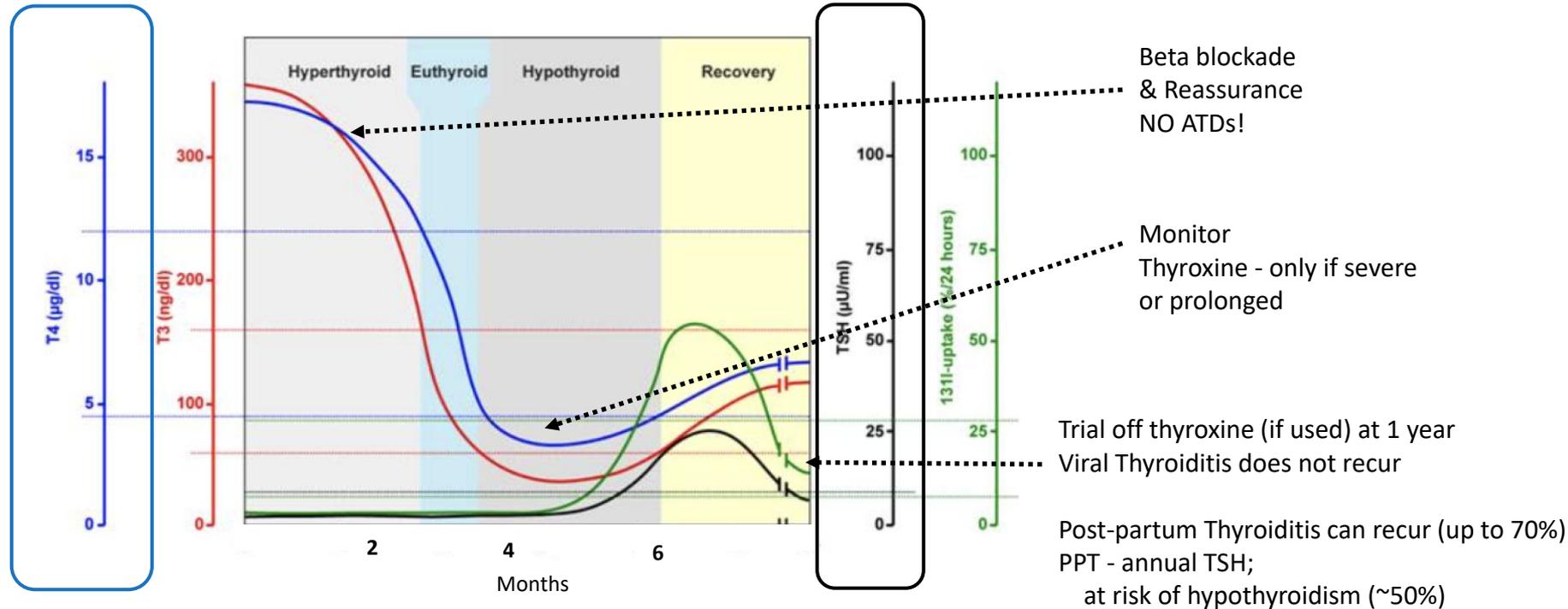
New Thyrotoxicosis – Other Causes

	Cause	Notes/Clues	Treatment
 <p>Graves' disease</p>	 <p>Antibodies to TSH Receptor (TRAb)</p>	<p>F>M 20-50 y.o Family Hx of TD Previous GD Goitre +/- Eye disease TRAb positive (>95%)</p>	<p>Anti-Thyroid Drugs (ATD) Course 18months Trial off: 50% relapse Consider RAI/Surgery if relapses</p>
<p>Thyroid Nodule(s)</p>	<p>One or more autonomous thyroid nodules</p>	<p>F>M, Older Nodular gland +/- TRAb negative</p>	<p>ATD....but... Never remit RAI > Surgery</p>

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<p>Thyroiditis</p>	<p>Inflammation</p> <ul style="list-style-type: none"> - Viral - Post-partum (PPT) - Drugs (Lithium, oncology) 	<p>Recent viral illness/ Neck pain/ High ESR/abn LFT OR Post-partum (<6m) TRAb negative</p>	<p>See following slide....</p> 

Thyroiditis - Dynamic Course of Thyroid Dysfunction



2. Hypothyroidism

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TSH remains high on thyroxine

1. Check administration is correct
 - First thing in morning
 - On empty stomach
 - Do not eat or drink anything other than water for at least 30 mins
 - Some medications require further time spacing; calcium, iron, sevelamer, cholestyramine
2. Increase dose by 25mcg daily
3. Consider anti-TTG (even if no symptoms)
4. Repeat TSH in 6-8 weeks
5. If remains high following numerous dose adjustments, refer to endocrinology

Other Tips

- No need to repeat TPO antibodies if previously positive
- No need to reduce thyroxine dose if TSH normal and FT4 high
- If misses dose, can take double next day

3. Pregnancy

3. Women ON THYROXINE - Hypothyroidism Prior to/in Pregnancy



If already on thyroxine and planning pregnancy OR pregnant,
aim TSH <2.5mU/L
(irrespective of anti-TPO status)

Women ON THYROXINE - Hypothyroidism Prior to/in Pregnancy

Prior to conception

Check TSH; aim TSH 2.5mU/L or lower; check q3m
Inform pt to increase dose if positive pregnancy test

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Prior to conception	Check TSH; aim TSH 2.5mU/L or lower; check q3m Inform pt to increase dose if positive pregnancy test
Trimester 1	Positive Test: PATIENT should increase thyroxine by 30% (25mcg – 50mcg daily; “dbl dose on 2 days per week”) Check TSH; aim TSH 2.5mU/L or lower Repeat TSH every 4 weeks

Women ON THYROXINE - Hypothyroidism Prior to/in Pregnancy

Prior to conception	Check TSH; aim TSH 2.5mU/L or lower; check q3m Inform pt to increase dose if positive pregnancy test
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Trimester 2 & 3	Check TSH once per trimester
Post-partum	Reduce Thyroxine dose by 25-50mcg Recheck TFTs at 6 weeks

Women **NOT** ON THYROXINE – Pre-Pregnancy & Pregnancy



Planning Pregnancy Not on Thyroxine	TSH Normal range mU/L	TSH ULN – 10mU/L	TSH >10mU/L
TPO + OR Neg	NO LT4	+/- LT4*	Rx LT4

ULN= Upper limit normal

*Could repeat before treating; personally, I treat

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** ideally need trimester-specific RR

RCOG Guidelines
2025, PMID: 40240075

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Planning Pregnancy Not on Thyroxine	TSH Normal range mU/L	TSH ULN – 10mU/L	TSH >10mU/L
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**If NOT on thyroxine and planning pregnancy OR pregnant,
Only start thyroxine if TSH elevated
(irrespective of anti-TPO status)**



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Key points

1. Thyrotoxicosis:

Graves' disease

- Most likely to be Graves' disease
- If checking any antibody; check TRAb
- Consider starting carbimazole; counsel re: agranulocytosis & Repeat thyroid function in 4-6 weeks & adjust dose

Thyroiditis

- Watch for expected dynamic course
- Manage symptomatically
- PPT patients at risk of relapse & later hypothyroidism

2 & 3. Hypothyroidism & Pregnancy

- Administration of thyroxine important
- Only start thyroxine if TSH elevated peri-conception/pregnancy
- If on LT4 peri-conception/pregnancy, aim for TSH ≤ 2.5 mU/L & increase immediately on + test

Useful website:



Beacon Thyroid Fellowship Programme

Referral Information

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Dr Martin-Grace
Thyroid Fellow
July 24 to July 25



Dr Samah Idriss
Thyroid Fellow
July 25 to July 26

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Thank you