Thyroid Function Ordering Algorithm

Nonhospitalized patients without known or suspected pituitary disease

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Begin evaluation by ordering either the cascade approach
- THSCM / Thyroid Function Cascade, Serum
  (all appropriate tests are performed automatically)
or order each test individually, beginning with
- TSHCO / Thyroid-Stimulating Hormone-Highly Sensitive, Serum

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hs-TSH
- Functional sensitivity: 0.01 mIU/L

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<0.10 mIU/L	0.10–0.358 mIU/L	0.358–3.74 mIU/L	>3.74 mIU/L
Hyperthyroid suspect	Borderline low TSH	No further testing unless clinically indicated	Hypothyroid suspect

<0.10 mIU/L → Hyperthyroid suspect

Order Free T4:
FT4P / T4 (Thyroxine), Free, Serum

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If Free T4 is normal

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Order Total T3:
TT3 / T3 (Triiodothyronine), Total, Serum

0.10–0.358 mIU/L → Borderline low TSH

Order Free T4:
FT4P / T4 (Thyroxine), Free, Serum

>3.74 mIU/L → Hypothyroid suspect

Order Free T4 and TP0:
- FT4P / T4 (Thyroxine), Free, Serum
- TPOM / Thyroperoxidase (TPO) Antibodies, Serum