

# CLINICAL POLICY

Thyrotropin alfa

# Clinical Policy: Thyrotropin alfa (Thyrogen)

Reference Number: PA.CP.PHAR.95

Effective Date: 01/2018 Last Review Date: 07/2025

#### **Description**

Thyrotropin alfa (Thyrogen®) is a recombinant human thyroid stimulating hormone (TSH).

### FDA Approved Indication(s)

Thyrogen is indicated for:

- Diagnostic: Use as an adjunctive diagnostic tool for serum thyroglobulin (Tg) testing with or without radioiodine imaging in the follow-up of patients with well-differentiated thyroid cancer who have previously undergone thyroidectomy.
- Ablation: Use as an adjunctive treatment for radioiodine ablation of thyroid tissue remnants in patients who have undergone a near-total or total thyroidectomy for well-differentiated thyroid cancer and who do not have evidence of distant metastatic thyroid cancer.

# Limitation(s) of use:

- Diagnostic:
  - O Thyrogen-stimulated Tg levels are generally lower than, and do not correlate with, Tg levels after thyroid hormone withdrawal.
  - Even when Thyrogen-stimulated Tg testing is performed in combination with radioiodine imaging, there remains a risk of missing a diagnosis of thyroid cancer or of underestimating the extent of disease.
  - o Anti-Tg antibodies may confound the Tg assay and render Tg levels uninterpretable.
- Ablation: The effect of Thyrogen on thyroid cancer recurrence greater than 5 years post-remnant ablation has not been evaluated.

#### Policy/Criteria

It is the policy of PA Health & Wellness that thyrotropin alfa (Thyrogen) is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

- A. Thyroid Cancer (must meet all):
  - 1. Diagnosis of well-differentiated thyroid cancer;
  - 2. Age  $\geq$  18 years;
  - 3. Thyrogen will be used for one of the following (a or b):
    - a. Adjunctive treatment for radioiodine ablation of thyroid tissue remnants and both of the following are met (i and ii):
      - i. Member has undergone a near-total or total thyroidectomy;
      - ii. There is no evidence of distant metastatic thyroid cancer;
    - b. Adjunctive diagnostic tool for serum Tg testing in members who have previously undergone thyroidectomy;
  - 3. Prescribed dose of Thyrogen does not exceed an initial 0.9 mg intramuscular (IM) injection followed by a second 0.9 mg IM injection 24 hours later.

**Approval duration: 6 months (2 injections)** 

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## **B. Other diagnoses/indications:** Refer to PA.CP.PMN.53

# **II. Continued Approval**

### A. Thyroid Cancer (must meet all):

- 1. Currently receiving medication via of PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
- 2. Member is responding positively to therapy;
- 3. Thyrogen will be used as an adjunctive diagnostic tool for serum Tg testing;
- 4. If request is for a dose increase, new dose does not exceed an initial 0.9 mg IM injection followed by a second 0.9 mg IM injection 24 hours later.

Approval duration: 6 months (2 injections)

### **B.** Other diagnoses/indications (must meet 1 or 2):

- 1. Currently receiving medication via of PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies; or
- 2. Refer to PA.CP.PMN.53

### III. Appendices

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration Tg: thyroglobulin IM: intramuscular T3: triiodothyronine

TSH: thyroid stimulating hormone T4: thyroxine

*Appendix B: Therapeutic Alternatives* 

Not applicable

#### Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): If Thyrogen is administered with radioiodine, the contraindications to radioiodine also apply to this combination regimen.
- Boxed warning(s): none reported.

#### IV. Dosage and Administration

Indication	<b>Dosing Regimen</b>	<b>Maximum Dose</b>
Adjunctive diagnostic tool for serum	0.9 mg IM injection to the	See regimen
thyroglobulin testing in well	buttock followed by a	
differentiated thyroid cancer	second 0.9 mg IM injection	
Adjunct to treatment for ablation in well	to the buttock 24 hours later	
differentiated thyroid cancer		

#### V. Product Availability

Single-dose vial lyophilized powder: 0.9 mg



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## VI. References

- 1. Thyrogen Prescribing Information. Cambridge, MA: Genzyme Corporation; February 2023. Available at: https://www.thyrogen.com/. Accessed April 15, 2025.
- 2. National Comprehensive Cancer Network. Thyroid Carcinoma Version 1.2025. Available at https://www.nccn.org/professionals/physician gls/pdf/thyroid.pdf. Accessed May 23, 2025.

## **Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

<b>HCPCS Codes</b>	Description
J3240	Injection, thyrotropin alpha, 0.9 mg, provided in 1.1 mg vial

Reviews, Revisions, and Approvals	Date
References reviewed and updated.	04/2018
3Q 2019 annual review: No changes per Statewide PDL implementation	07/2019
01-01-2020	
3Q 2020 annual review: added age limit; references reviewed and updated.	07/2020
3Q 2021 annual review: no significant changes; references reviewed and	07/2021
updated.	
3Q 2022 annual review: no significant changes; references reviewed and	07/2022
updated.	
3Q 2023 annual review: no significant changes; references reviewed and	07/2023
updated.	
3Q 2024 annual review: no significant changes; references reviewed and	07/2024
updated.	
3Q 2025 annual review: no significant changes; references reviewed and	07/2025
updated.	