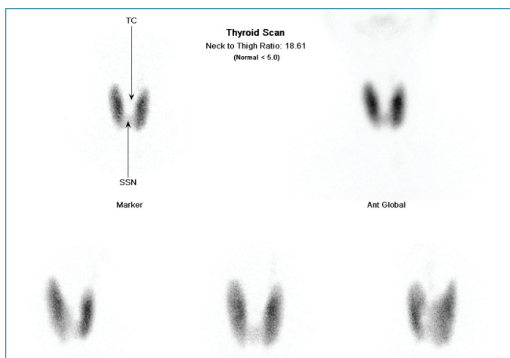


MOLECULAR IMAGING Thyroid Scan

To assess the thyroid function, shape, location and size

Differentiate Graves from thyroiditis



Scan details

- The patient is injected with a small amount of a radioactive tracer into a vein in the arm.
- The thyroid is imaged to assess overall function of the thyroid gland.

Patient symptoms

- Abnormal TFTs: TSH, T3, T4
- Clinical or subclinical hyperthyroidism
- Assess nodules found on U/S
- Goitre

Patient prep

- No CT contrast 4 weeks prior to scan
- No thyroid meds prior to scan (speak to technologist about duration of ceasing)
- Certain heart medications may be required to cease i.e. amiodarone

GP referral

- A GP can refer for thyroid U/S + nuclear medicine thyroid scan to assess function
- Useful before sending patient to a specialist

Duration of scan

- Approximately 45 mins

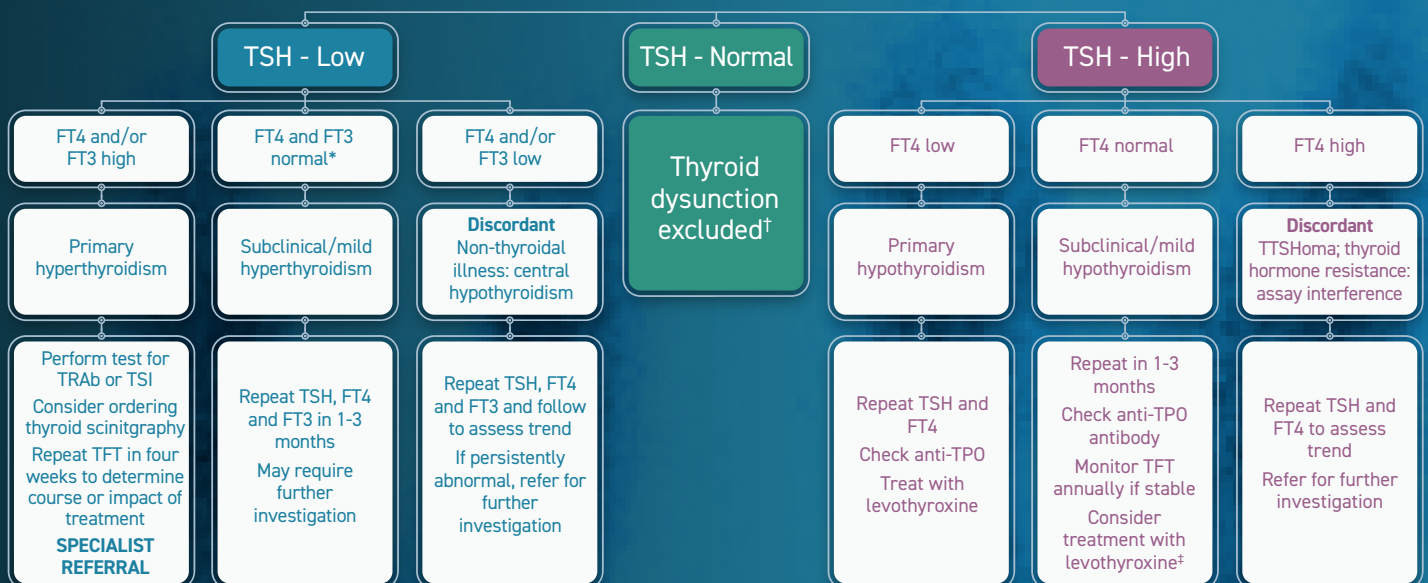


Figure 1. Investigation of abnormal TSH in non-pregnant adults

Note: Non-thyroidal illness can cause several patterns of thyroid hormone disturbance; however, the abnormalities are usually mild and resolve over time. Amiodarone can cause several patterns of thyroid dysfunction and abnormal thyroid function tests within six months of amiodarone use require specialist evaluation.

* This pattern can be seen in non-thyroidal illness or rarely in central hypothyroidism

[†] If suspicion of underlying pituitary or hypothalamic disease or specific factor affecting TSH interpretation, perform TSH, FT4 +/- FT3

[‡] May require treatment, especially in younger patients and those planning pregnancy

FT3, free triiodothyronine; FT4, free thyroxine; TFT, thyroid function test; TPO, thyroid peroxidase; TRAb, thyroid stimulating hormone receptor antibody; TSH, thyroid stimulating hormone; TSHoma, thyrotropinoma; TSI, thyroid stimulating immunoglobulin



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Nuclear Medicine
Brochures



Nuclear Medicine

A safe and non-invasive imaging modality, nuclear medicine scans provide early detection of a range of pathologies from heart disease, bone and joint disorders, to functionality of organs – as well as skeletal imaging for cancer.

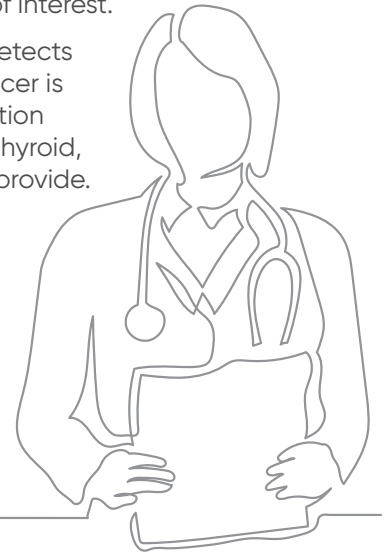
Early detection is crucial for faster and most appropriate treatment, allowing a better overall prognosis.

Nuclear medicine is a specialised, highly sensitive medical imaging technique that uses a small amount of a radioactive tracer for imaging. The tracers are designed either for whole body studies or to target specific organs, providing functional images of the organ of interest.

Images are produced by a gamma camera that detects gamma rays emitted from the patient after the tracer is administered. These images demonstrate the function of different organs (including kidney, gall bladder, thyroid, lymph nodes) that other imaging modalities can't provide.

Improving technology means doses are always optimised and minimised, delivering procedures that are safe and non-invasive – and are suitable for patients with low renal function.

Generally speaking, nuclear medicine injections will not cause any side effects.



Why Choose PRP

An established reputation for excellence

PRP nuclear medicine physicians have specialty knowledge in all facets of nuclear medicine.

This unique depth of subspecialty expertise allows for a valuable second opinion and expert consultation, ensuring an excellent level of care and accuracy for every investigation performed.

We utilise the latest technology and expertise to provide high-quality imaging with precise and detailed reporting to support diagnosis through to long-term health management plans.


Additionally, PRP offers urgent consultations via our DrLine service, to support diagnosis and health care management plans.

We understand that time matters

PRP offers an easy referral process through our website, including fast reporting to reduce anxiety for patients and allow prompt action where required.

Our goal is to ensure all patients can access timely, world-class radiology services with all nuclear medicine scans bulk billed – based on MBS referral criteria.

We also offer free, local parking with patient drop-off facilities with disabled access at our practices.



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