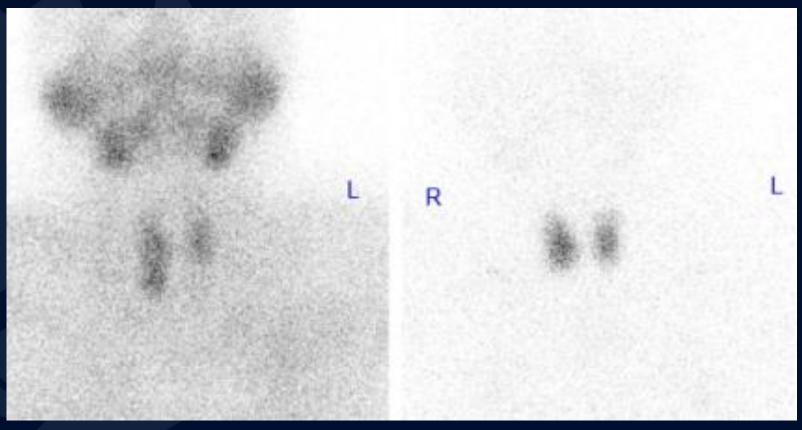
31 y/o male with hypercalcemia

Atul Kumar, MD, MS



Planar images of neck



Sestimibi

I-123



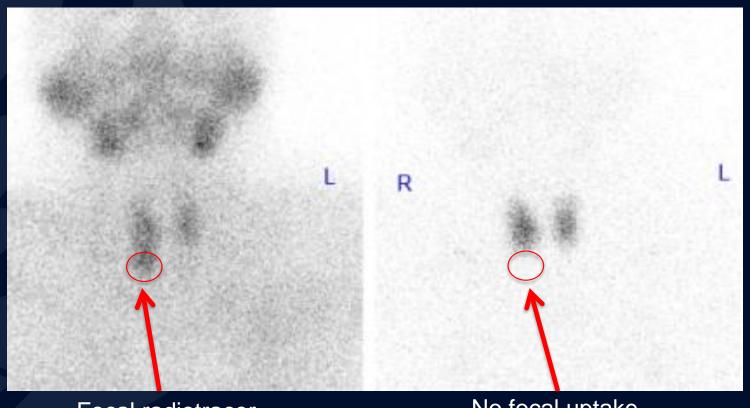




Parathyroid Adenoma



Planar images of neck Sestimibi I-123



Focal radiotracer uptake with Sestimibi

No focal uptake with I-123



Parathyroid Adenoma

- Enlarged parathyroid gland
- Normal cellular structure
- Causes 75-80% of primary hyperparathyroidism
 - Leads to symptomatic or asymptomatic hypercalcemia
- DDx
 - Thyroid adenoma
 - Parathyroid carcinoma
- Sporadic 95% of time
- Associated with MEN1 or MEN2a 5% of time
- Imaging
 - Ultrasound: can localize approximately 80% of time
 - I-123
 - Taken up by thyroid gland
 - Tc-99m Sestimibi
 - Taken up by thyroid and parathyroid tissue
 - Thyroid activity washes out on delayed images
- Treatment: surgery

