

75 year old female complaining of dizziness

Carotid ultrasound:

"Within the right neck there is an approximately 1 cm nodule identified. This is removed from the thyroid and deep to it. The findings favor a parathyroid adenoma...."

Serum calcium, ionized calcium, PTH all normal on 3 occasions

Thyroid ultrasound:

Normal sized left thyroid with a 3mm nodule Enlarged right lobe with 3 nodules – 2.6 cms, 1.4 cms and 0.8 cms

## Prevalence by Ultrasound

50% of the population will have one or more thyroid nodules seen on U/S.

Mazzaferri, NEJM 1993

Only 6% of 1 cm nodules are palpable

Only 50% of 1-2cm nodules are palpable

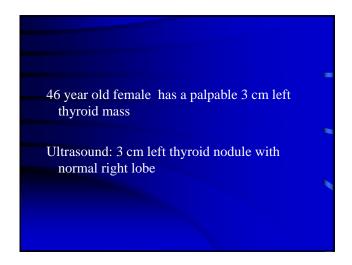
Even 50-60% of >2 cm nodules are not detected clinically

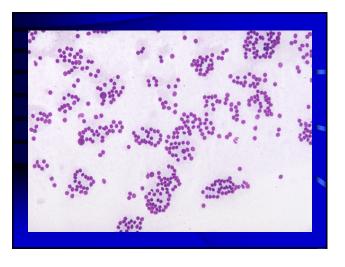
Brander et al, J Clin Ultrasound 1992 U/S identifies multiple nodules in 16%-48% of clinically solitary nodules

Tan et al, Ann Intern Med 1997

Brander et al, J Clin Ultrasound 1992

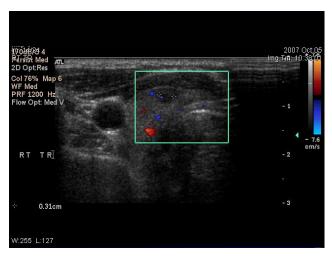
Walker et al, Br J Radiol 1985





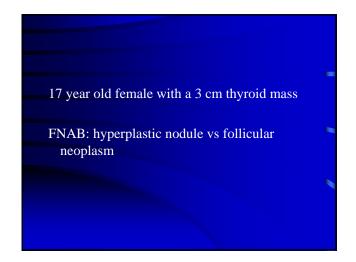
Left thyroid lobectomy: Follicular adenoma and an incidental 5 mm papillary cancer, completely excised 10 years later, she had a repeat ultrasound showing a 3mm nodule in the right lobe of the thyroid and normal looking lymph nodes on both sides of the central neck





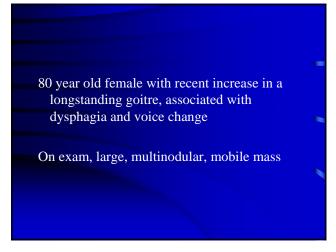
## Thyroid Incidentaloma Ultrasound features of malignancy • Hypoechoic • Irregular • Microcalcifications • Intra nodular vascularity • Incomplete halo



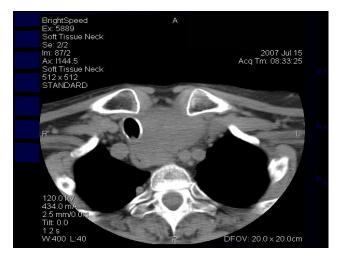


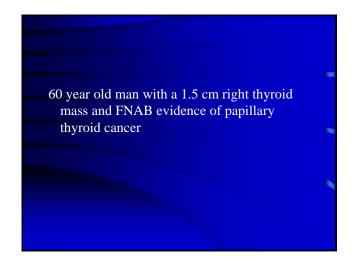


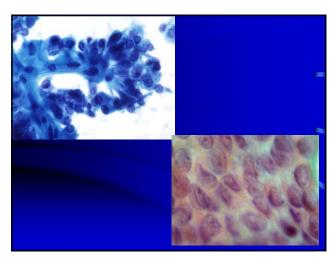




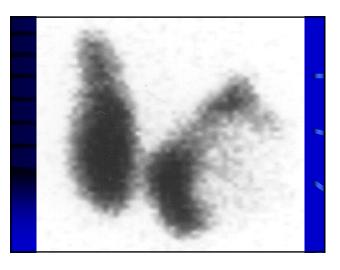




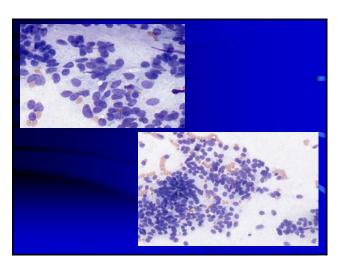




75 year old female had a doppler carotid study for possible TIA – 3 cm left thyroid nodule On exam, well circumscribed, firm, mobile left thyroid mass with no other findings









35 year old female with a 3 cm right thyroid mass that is asymptomatic and easily palpable

Mantle radiation at age 17 for Hodgkin's disease

