



GE HealthCare

Reliability, productivity and image quality:

The role of Versana Premier in otolaryngology

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Clinical case of parathyroid adenoma

2024

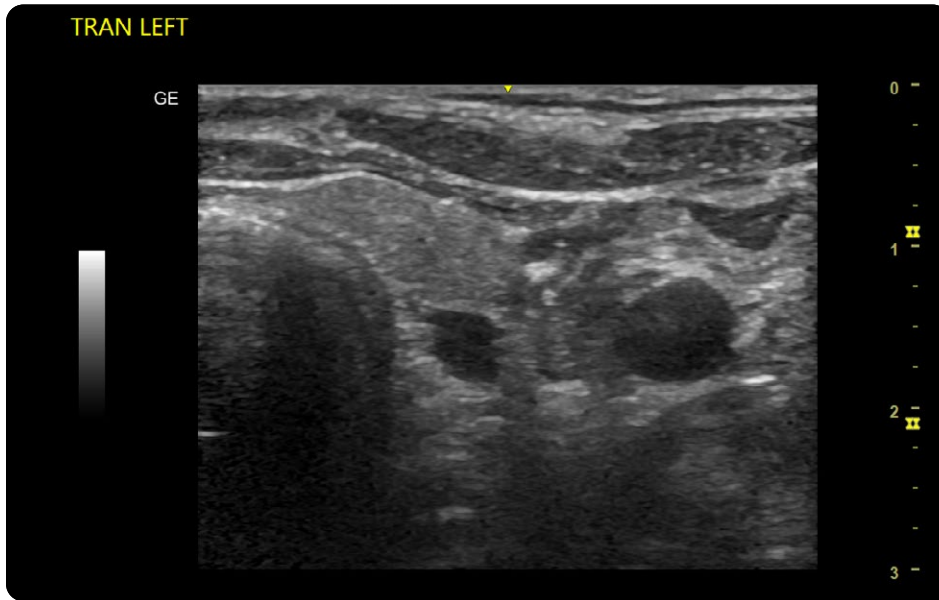
The following case was obtained by
Dr. Dhingra using a Versana Premier.™

Dr. Dhingra is a paid consultant for GE HealthCare and was compensated for participation in this case study. The statements by Dr. Dhingra described here are based on his own opinions and on results that were achieved in his unique setting. Since there is no "typical" hospital and many variables exist, i.e. hospital size, case mix, etc., there can be no guarantee that other customers will achieve the same results.



A case of parathyroid adenoma

Clinical presentation

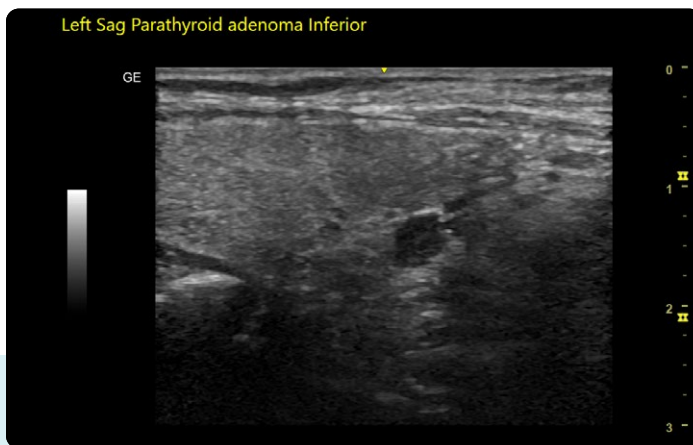


- 74-year-old female with progressive osteoporosis
- Ultrasound in the transverse plane shows a well-defined, solid, homogeneous, hypoechoic mass located postero-inferior to the left lobe of the thyroid. The mass detail was best seen in sagittal plane.

Laboratory results were positive for:

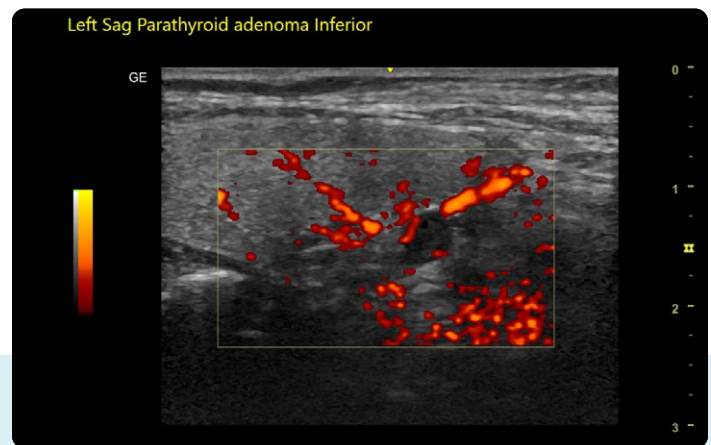
- Elevated serum and urinary calcium
- Elevated PTH levels
- Normal vitamin D levels
- Consistent with primary hyperparathyroidism
- Sestamibi scan equivocal

Key findings



Utilized feature: Ultrasound imaging characterized a clear, hyperechoic line between the extrathyroidal nodule indicative of a left parathyroid adenoma.

Key takeaway: Parathyroid adenoma is a benign tumor of the parathyroid gland. Preoperative localization of a parathyroid adenoma is key to a successful surgery, which is curative in over 90% of patients.



Power Doppler Imaging showed hypervascularity in the region of the mass with a couple of prominent blood vessels feeding the parathyroid adenoma.

Conclusion

Ultrasound is an inexpensive, low-risk, and effective tool for evaluating thyroid and parotid lesions. Its accessibility and accuracy in predicting the nature of lesions compares favorably to that of more expensive and invasive cross-sectional imaging. Fine needle biopsies can be performed at the same visit, thus expediting care. These images taken on a Versana Premier suggest that ultrasound imaging in clinical settings can often be confidently used as an initial, and perhaps sole, imaging modality for thyroid and parotid masses.



Dr. Jagdish K Dhingra is an Otolaryngologist in Massachusetts with over 20 years of experience in the practice of otolaryngology head and neck surgery.

Dr. Dhingra did his initial training in India and the UK before moving to the US, where he did his residency training at Tufts Medical Center in Boston, Massachusetts before joining ENT specialists, Inc. in 2002.

For the last 10 years, he has focused his practice on diseases of the thyroid and parathyroid glands and has performed over 4,000 office-based ultrasound-guided thyroid procedures. He regularly teaches at courses sponsored by the American Head and Neck Society and American Academy of Otolaryngology – Head and Neck Surgery. He is also an associate professor at Tufts University School of Medicine.

Since 2005, Dr Dhingra has led 15 surgical missions to Rwanda, Africa and performed over 300 surgeries on patients with large goiters.

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