

Title : Role of ultrasonography in thyroid nodules with pathological correlation

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Asbtract :

Introduction: Thyroid nodules are commonly detected pathology. ultrasound has emerged as the most useful imaging modality for evaluation of these lesions. The purpose of this study was to identify the accuracy of various imaging features in thyroid nodules that are associated with benignity and malignancy and the overall accuracy of ultrasound in determining malignant nodules.

Material and methods: Fifty seven patients who were referred to our department for ultrasound assessment of thyroid nodules and their pathological findings were available were included in the study.

Results: Out of the 57 seven patients, 25 patients had malignant nodules and 32 patients had benign nodules. Nodules were assessed on the basis of echogenicity, central vascularity, calcification, cystic areas, background thyroid changes and lymphadenopathy.

Conclusion: Ultrasound is a sensitive and specific modality in assessment of thyroid nodules with good overall accuracy. The most sensitive parameter in suspecting malignancy is hypo echogenicity of the nodule, the most specific features are lymphadenopathy and micro calcification.