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Diagnostic value of computed tomography (CT) histogram analysis in thyroid benign solitary coarse calcification nodules

Key words: Thyroid nodule, thyroid cancer, coarse calcification, computed tomography

Research Summary

This study investigate the diagnostic value of the CT histogram in thyroid benign solitary coarse calcification nodules.

- Calcification is common in thyroid nodules.
- The density of calcifications is correlated with benign or malignant nodules.
- The CT histogram can reflect the pixel density of the calcifications.



Innovation points

- Firstly use CT histogram for the differential diagnosis of MSCN and BSCN.
- Different cut-off value and area percentage can provide different accuracy, sensitivity and specificity.
- This can provide an important basis for reducing the misdiagnosis, and unnecessary surgical trauma.