

P 1834- MALIGNANCY RATE OF THYROID NODULES WHICH DEFINED AS FOLLICULAR LESION OF UNDETERMINED SIGNIFICANCE IN THYROID CYTOPATHOLOGY



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AIM

- ➢ In the Bethesda Classification (BC), which is used in cytopathologic evaluation of thyroid nodules, follicular lesion of undetermined significance (FLUS) does not involve sufficient cellular atypia for follicular neoplasia or malignancy, while it doesn't comprise the cytologic benign criteria.
- Therefore, there is no consensus for those nodules to follow-up and therapeutic approaches.
- ➤In this study, we aimed to determine the ultrasonographic features and histopathologic results of the thyroid nodules which are defined FLUS in BC.

METHODS

- We evaluated 64 nodules of 62 patients, who have nodular or multinodular goiter and had diagnosed FLUS at least in one nodule with fine-neddle aspiration (FNA).
- ➤ Operation endication was decided upon to the nodule size, suspected ultrasonographic feature (border irregularity, solid, hypoechoic nodule, presence of microcalcification), high elastosonographic score and strain index and family history of thyroid cancer.

RESULTS

- 87.5 % of patients were female, 12.5 % were male. Mean age was 46.5 ± 12.6 years.
- 51.6 % of nodules were located in the right lobe, 45.3 % in the left lobe and 3.1 % were in the istmus.
- According to the echogenity and component 43.8 % of nodules were hypoechoic, 57.8 % were solid.
- Microcalcification, peripheral vascularisation and border irregularity positivity were respectively; 25.5 %, 17.2 % and 59.4 % of nodules.

- After operation, 68.7 of nodules (n = 44) were benign, 31.3 % (n = 20) were malign.
- In malign nodules mean tumour size was 1.4 ± 1.3 cm.
- Vascular invasion, capsular invasion, extracapsular invasion, multicentrity and lymph node metastasis was positive respectively; 15 %, 15 %, 5 %, 35 %, 5 %.
- According to the malign or benign histopathologic features of nodules were shown in table 1.

Table 1 . Histopathologic Features of Benign and Malign Nodules

		BENIGN n=44	MALIGN n=20	р
Nodule Componet %	Solid	68,2	35	0,026
	Cystic	2,3	0	
	Mix	29,5	65	
Echogenity %	Ísoechoic	52,3	65	0,341
	Hypoechoic	47,7	35	
	Hyperechoic	0	0	
Hypoechoic Halo %	Positive	36,4	20	0,191
	Negative	63,6	80	
Microcalcification %	Positive	20,5	35	0,213
	Negative	79,5	65	
Macrocalcification %	Positive	11,4	20	0,357
	Negative	88,6	80	
Border İrregülaritty %	Positive	54,5	70	0,243
	Negative	45,5	30	

CONCLUSION

- In our study, we found malignancy rate 31,3 % in FLUS compared to the 5 – 20 % reported by different studies.
- Therefore, we think that, in the diagnostic and therapeutic approach of the FLUS nodules that challenge the clinician, this high ratio of malignancy must be kept in mind.