

On-line Table 1: Sonographic findings of 213 partially cystic thyroid nodules

Sonographic Features	Benign (n = 202) (%)	Malignant (n = 11) (%)	P Value
Configuration			
Concentric	109 (53.7)	2 (0.9)	<.001 ^a
Eccentric and blunt angle	67 (29.6)	3 (1.4)	.484
Eccentric and acute angle	11 (4.7)	8 (3.8)	<.001 ^a
Multiseptate	9 (4.2)	0 (0)	.615
Calcification			
Microcalcifications	0 (0)	7 (3.3)	<.001 ^a
Macrocalcifications	2 (0.9)	0 (0)	.899
Margin			
Smooth	163 (76.5)	0 (0)	<.001 ^a
Microlobulated	30 (14.1)	5 (2.4)	.020
Macrolobulated	5 (2.4)	5 (2.4)	<.001 ^a
Irregular	0 (0)	0 (0)	0
Perinodular infiltration	0 (0)	1 (0.5)	.052
Vascularity			
Nonvasculature	63 (29.6)	1 (0.5)	.119
Peripheral	112 (52.6)	0 (0)	<.001 ^a
Centripetal in pedicle	6 (2.9)	2 (0.9)	.057
Mildly increased	18 (8.5)	7 (3.3)	<.001 ^a
Moderately increased	3 (1.4)	1 (0.5)	.192
Spongiform or daughter cyst			
Spongiform appearance	117 (54.9)	0 (0)	.244
Daughter cysts	25 (11.7)	0 (0)	.310
Colloid crystal	31 (14.6)	0 (0)	.169
Nodule shape			
Ovoid or flat	184 (86.4)	9 (4.2)	.276
Round	18 (8.5)	2 (0.9)	.276
Echogenicity of the solid component			
Isoechogenicity	147 (69.0)	5 (2.4)	.054
Hypoechoogenicity	40 (19.0)	6 (2.8)	.016
Marked hypoechoogenicity	9 (4.2)	0 (0)	.613

^a Statistically significant value.

On-line Table 2: Comparison of prospective sonographic diagnosis with cytopathologic diagnosis

Sonographic Classification	Final Diagnosis		Pathology (No.)
	Benign	Malignant	
Benign features	182	0	NH (37), FA (1)
Probably benign	16	3	PTC (3)
Suspicious for malignancy	4	3	PTC (3), NH (4)
Malignant features	0	5	PTC (5)
Subtotal	202	11	53

On-line Table 3: Diagnostic index and odds ratio for individual sonographic features

Sonographic Features	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Accuracy (%)	Odds Ratio
Malignant						
Eccentric and acute angle	72.7	94.1	66.7	98.5	93.0	42.222
Microcalcifications	63.6	100	100	98.1	98.1	UA
Macrolobulation	45.5	2.5	50	97.0	94.8	32.833
Perinodular infiltration	9.1	100	100	98.5	95.3	UA
Centripetal vascularity in pedicle	18.2	97.0	25.0	95.6	93.0	7.259
Hypoechoogenicity	54.5	97.7	12.8	97.0	78.4	UA
Benign						
Concentric configuration	54.0	100	10.6	100	56.3	UA
Eccentric and blunt angle	33.2	72.7	5.6	95.7	35.2	0.756
Smooth margin	80.7	100	22.0	100	81.7	UA
No vascularity	30.2	90.9	6.2	98.4	33.3	2.231
Peripheral vascularity	54.5	100	10.7	100	56.8	UA
Spongiform appearance	10.4	100	5.9	100	16.9	UA
Daughter cysts	89.6	100	5.7	100	15.0	UA
Colloid crystal	15.4	100	6.0	100	19.7	UA
Ovoid or flat	91.4	18.2	95.3	10.0	87.3	0.440
Isoechoogenicity	73.3	54.5	10.0	96.7	7	0.304
Marked hypoechoogenicity	4.5	100	100	4.4	9.4	UA

On-line Table 4: Diagnostic index in combination of malignant sonographic features

Malignant Sonographic Features	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Accuracy
A or B	90.9	94.1	45.5	99.5	93.9
A or C	54.5	92.6	28.6	97.4	90.6
A or D	72.7	93.1	36.4	98.4	92.0
B or C	63.6	97.5	58.3	98.0	95.8
B or D	63.6	98.0	63.6	98.0	96.2
C or D	63.6	95.0	41.2	98.0	93.4
A or B or C	90.9	92.6	40.0	99.5	92.5
A or B or D	90.9	93.1	41.7	99.5	93.0
A or C or D	72.7	91.1	30.8	98.4	90.1
B or C or D	72.7	95.0	44.4	98.5	93.9
A or B or C or D	90.9	90.1	33.3	99.5	90.1