## **Supplementary Table 1.** Relationship between thyroid entities, US nodule characteristics

and CAD accuracy in the FNAB-only group

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Thyroid entities*		Rate  CAD¹ CAD  Correct Incorrect group group		p <sup>2</sup>	CAD TIRAD		4 5		Malignancie s/ diagnosed <sup>4</sup>	
Mimicking	Focal inhomogeneity (thyroiditis)	0	7	0.0032	0	0	0	0	7	0/0
lesions	Pseudonodule in thyroiditis	0	1	0.267	0	0	0	1	0	0/0
	True nodule in thyroiditis	1	1	0.879	0	0	0	2	0	1/1
True nodules	Macrocalcification non- coarse	3	4	0.553	0	0	2	2	3	0/0
	Coarse macrocalcification	0	7	0.0004	0	0	0	0	7	0/0
	Inspissated colloid cystic nodule	0	4	0.03	0	0	0	3	1	0/0
US features*								•		
Composition	Solid	24	17	0.729	0	0	12	10	19	12/12
	Partially cystic	23	13	0.738	0	1	23	8	4	1/0
	Cystic	5	3	0.934	0	3	2	3	0	0/0
Echogenicity	Hyper/isoechoic	37	28	0.482	0	3	35	17	10	1/0
	hypoechoic	15	5	0.205	0	1	3	4	13	12/12
Orientation Margin	Parallel	43	32	0.495	0	4	37	20	14	4/3
	Non-parallel	10	1	0.043	0	0	1	1	9	10/10
	Well-defined	40	30	0.489	0	4	36	19	11	2/1
	Microlobulated	4	3	0.826	0	0	1	2	4	3/3
	III-defined	8	0	0.023	0	0	0	0	8	8/8
Spongiform	Appearance	6	1	0.183	0	1	4	0	2	0/0
~1	Non-appearance	46	32	0.689	0	3	33	21	21	13/12
Shape	Ovoid to round	45	33	0.528	0	4	37	19	18	6/5
	Irregular	7	0	0.035	0	0	0	2	5	7/7
Microcalcification		5	1	0.265	0	0	1	1	4	6/5

## **Supplementary Table 2.** Diagnostic parameters of human and CAD detections in the total

and screened subgroup for malignancies in the FNAB-only group

					P values of comparisons <sup>4</sup>				
	Human,	CAD, all	CAD,	Human,	Human	Human vs	CAD all vs	Human all	
	all		screened	screened	vs CAD all	CAD screened	screened	vs screened	
Sensitivity	86.67%	80%	78.57%	85.71%	1	1	0.92	0.94	
Specificity	80.20%	43.56%	54.32%	76.54%	<0.0001	0.0005	0.15	0.55	
Accuracy	81.03%	48.27%	57.89%	77.89%	<0.0001	0.0003	0.19	0.47	
PPV <sup>5</sup>	39.39%	17.39%	22.92%	38.71%					
NPV <sup>6</sup>	97.59%	93.617%	93.61%	96.87%					
AUROC <sup>7</sup>	0.834	0.618	0.664	0.811	<0.0001	0.0059	0.589	0.753	