

Table S1 The diagnostic accuracy assessment of the conventional CT and CAD

Examination	Indefinite	Accuracy	Diagnostic error		χ^2	P	Total
			Under-diagnosis	Over-diagnosis			
Conventional CT	83 (24.3)	218 (63.7)	9 (2.6)	32 (9.4)	29.63	0.000	342
CAD	53 (15.5)	277 (81.0)	2 (0.6)	10 (2.9)			

CT, computerized tomography; CAD, computer-aided diagnosis.

Table S2 The diagnostic accuracy of conventional chest CT with different infiltration

SPN	Indefinite	Accuracy	Diagnostic error		Total	Fisher	P
			Under-diagnosis	Over-diagnosis			
AAH	32 (50.8)	9 (14.3)	9 (14.3)	13 (20.6)	63	178.85	0.000
AIS	25 (48.1)	16 (30.8)	0 (0.0)	11 (21.2)	52		
MIA	18 (31.6)	35 (61.4)	0 (0.0)	4 (7.0)	57		
IA	8 (4.7)	158 (92.9)	0 (0.0)	4 (2.4)	170		
Total	83 (24.3)	218 (63.7)	9 (2.6)	32 (9.4)	342		

CT, computerized tomography; AAH, atypical adenomatous hyperplasia; AIS, adenocarcinoma in situ; MIA, minimally invasive adenocarcinoma.

Table S3 The diagnostic accuracy of CAD with different infiltration

SPN	Indefinite	Accuracy	Diagnostic error		Total	Fisher	P
			Under-diagnosis	Over-diagnosis			
AAH	30 (47.6)	28 (44.4)	2 (3.2)	3 (4.8)	63	103.73	0.000
AIS	15 (28.8)	33 (63.5)	0 (0.0)	4 (7.7)	52		
MIA	6 (10.5)	49 (86.0)	0 (0.0)	2 (3.5)	57		
IA	2 (1.2)	167 (98.2)	0 (0.0)	1 (0.6)	170		
Total	53 (15.5)	277 (81.0)	2 (0.6)	10 (2.9)	342		

CAD, computer-aided diagnosis; AAH, atypical adenomatous hyperplasia; AIS, adenocarcinoma in situ; MIA, minimally invasive adenocarcinoma.

Table S4 The diagnostic accuracy of conventional chest CT with different maximum diameter

Maximum diameter	Indefinite, n (%)	Accuracy, n (%)	Diagnostic error	Total	χ^2	P
d ≤10 mm	46 (41.1)	44 (39.3)	22 (19.6)	112	56.562	0.000
10 mm < d ≤20 mm	27 (22.9)	76 (64.4)	15 (12.7)	118		
d >20 mm	10 (8.9)	98 (87.5)	4 (3.6)	112		
Total	83	218	41	342		

CT, computerized tomography.

Table S5 The diagnostic accuracy of CAD with different maximum diameter

Maximum diameter	Indefinite	Accurate	Diagnostic error	Total	Fisher	P
d ≤10 mm	33 (29.5)	73 (65.2)	6 (5.4)	112	51.524	0.000
10 mm < d ≤20 mm	20 (16.9)	94 (79.7)	4 (3.4)	118		
d >20 mm	0	110 (98.2)	2 (1.8)	112		
Total	53	277	12			

CAD, computer-aided diagnosis.

Table S6 The diagnostic accuracy assessment of the conventional CT and CAD with different infiltration

SPN	conventional CT (%)	CAD (%)	Fisher	P
AAH	14.3	44.4	9.09	0.33
AIS	30.8	63.5		
MIA	61.4	86.0		
IA	92.9	98.2		

CT, computerized tomography; CAD, computer-aided diagnosis; AAH, atypical adenomatous hyperplasia; AIS, adenocarcinoma in situ; MIA, minimally invasive adenocarcinoma.

Table S7 The diagnostic accuracy assessment of the conventional CT and CAD with different diameter

Maximum diameter	Conventional CT			CAD			χ^2	P
	Indefinite	Accurate	Diagnostic error	Indefinite	Accurate	Diagnostic error		
d ≤10 mm	46 (41.1)	44 (39.3)	22 (19.6)	33 (29.5)	73 (65.2)	6 (5.4)	18.47	0.000
10 mm < d ≤20 mm	27 (22.9)	76 (64.4)	15 (12.7)	20 (16.9)	94 (79.7)	4 (3.4)	9.317	0.009
d >20 mm	10 (8.9)	98 (87.5)	4 (3.6)	0 (0.0)	110 (98.2)	2 (1.8)	12.457	0.001

CT, computerized tomography; CAD, computer-aided diagnosis.