

Table S1 Subgroup analyses of EUS in T/N staging for ATs

	Sensitivity	I^2 (%)	Specificity	I^2 (%)	PLR	I^2 (%)	NLR	I^2 (%)	DOR	I^2 (%)
<i>EUS (T1)</i>										
Before 2000	0.85 (0.75, 0.92)	60.5	0.91 (0.85, 0.95)	35.7	6.93 (4.27, 11.24)	0.0	0.21 (0.13, 0.33)	21.9	36.64 (15.84, 84.77)	0.0
After 2000	0.90 (0.85, 0.93)	81.1	0.83 (0.76, 0.89)	77.9	3.34 (2.41, 4.63)	66.7	0.21 (0.15, 0.30)	68.4	32.95 (16.29, 66.68)	6.9
East	0.87 (0.82, 0.91)	71.7	0.86 (0.80, 0.91)	71.3	3.60 (2.57, 5.05)	65.2	0.26 (0.19, 0.37)	33.2	26.78 (13.62, 52.68)	0.0
West	0.91 (0.84, 0.96)	76.8	0.88 (0.81, 0.93)	64.2	5.36 (3.48, 8.26)	7.0	0.16 (0.10, 0.26)	71.0	48.37 (19.29, 121.30)	38.1
Radial EUS only	0.77 (0.68, 0.85)	41.2	0.92 (0.84, 0.96)	40.5	6.51 (3.78, 11.23)	2.0	0.35 (0.25, 0.49)	0.0	23.39 (10.47, 52.28)	0.0
Radial and linear	0.94 (0.90, 0.97)	68.4	0.82 (0.75, 0.88)	74.5	3.66 (2.69, 4.98)	71.8	0.11 (0.06, 0.18)	71.3	48.05 (23.21, 99.47)	43.8
Retrospective	0.90 (0.87, 0.94)	67.4	0.87 (0.82, 0.90)	68.1	4.10 (3.14, 5.35)	58.7	0.19 (0.14, 0.26)	48.4	35.14 (20.20, 61.12)	2.7
Prospective	0.57 (0.36, 0.77)	39.1	0.97 (0.86, 1.00)	0.0	11.64 (1.90, 71.47)	0.0	0.48 (0.31, 0.75)	68.4	26.71 (3.90, 182.96)	0.0
<i>EUS (T2)</i>										
Before 2000	0.77 (0.65, 0.86)	39.9	0.90 (0.84, 0.94)	58.2	5.45 (3.34, 8.87)	29.4	0.31 (0.21, 0.47)	0.0	24.02 (10.15, 56.85)	0.0
After 2000	0.75 (0.66, 0.83)	44.0	0.92 (0.88, 0.95)	71.5	4.76 (3.34, 6.77)	55.7	0.35 (0.26, 0.47)	16.1	19.13 (10.10, 36.23)	0.0
East	0.69 (0.59, 0.79)	19.3	0.92 (0.89, 0.95)	60.1	4.49 (2.95, 6.82)	9.1	0.41 (0.30, 0.56)	0.0	14.19 (7.29, 27.62)	0.0
West	0.81 (0.72, 0.89)	45.3	0.90 (0.84, 0.94)	76.7	5.52 (3.72, 8.18)	68.1	0.26 (0.18, 0.39)	5.8	32.91 (14.40, 75.20)	0.0
Radial EUS only	0.73 (0.63, 0.82)	31.6	0.91 (0.86, 0.94)	47.5	5.12 (3.25, 8.06)	0.0	0.36 (0.26, 0.49)	9.6	17.42 (8.73, 34.75)	0.0
Radial and linear	0.78 (0.68, 0.86)	49.2	0.92 (0.88, 0.95)	80.3	4.91 (3.42, 7.05)	67.5	0.31 (0.22, 0.45)	0.0	25.52 (11.88, 54.81)	0.0
Retrospective	0.77 (0.69, 0.84)	37.3	0.92 (0.89, 0.94)	67.7	5.16 (3.77, 7.08)	45.8	0.32 (0.24, 0.42)	0.0	21.59 (12.35, 37.74)	0.0
Prospective	0.69 (0.50, 0.84)	54.9	0.89 (0.77, 0.96)	80.5	4.37 (2.19, 8.70)	55.5	0.41 (0.25, 0.65)	16.7	17.77 (4.96, 63.67)	0.0
<i>EUS (T3)</i>										
Before 2000	0.82 (0.70, 0.90)	19.4	0.90 (0.84, 0.95)	54.2	6.72 (4.20, 10.77)	0.0	0.24 (0.15, 0.38)	0.0	36.96 (15.74, 86.78)	0.0
After 2000	0.81 (0.69, 0.90)	0.0	0.95 (0.92, 0.98)	62.4	7.41 (4.19, 13.10)	41.4	0.22 (0.13, 0.38)	0.0	38.20 (14.71, 99.18)	0.0
East	0.80 (0.68, 0.89)	9.1	0.94 (0.90, 0.97)	62.7	7.71 (4.55, 13.08)	9.6	0.24 (0.15, 0.38)	0.0	47.58 (18.12, 125.03)	0.0
West	0.83 (0.71, 0.91)	0.0	0.93 (0.89, 0.96)	64.6	6.42 (3.89, 10.59)	19.1	0.22 (0.13, 0.37)	0.0	30.72 (13.26, 71.33)	0.0
Radial EUS only	0.85 (0.74, 0.92)	11.3	0.82 (0.82, 0.93)	49.3	6.32 (3.99, 9.99)	0.0	0.20 (0.12, 0.34)	3.4	46.04 (18.06, 117.33)	0.0
Radial and linear	0.78 (0.65, 0.88)	0.0	0.96 (0.93, 0.98)	56.0	8.16 (4.50, 14.79)	36.0	0.26 (0.17, 0.42)	0.0	30.58 (12.88, 72.60)	0.0

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Retrospective	0.82 (0.73, 0.89)	0.0	0.94 (0.91, 0.96)	62.8	7.57 (5.07, 11.26)	16.1	0.23 (0.16, 0.33)	0.0	42.20 (20.94, 85.04)	0.0
Prospective	0.80 (0.56, 0.94)	0.0	0.83 (0.63, 0.95)	0.0	4.76 (1.91, 11.87)	0.0	0.24 (0.10, 0.59)	0.0	21.23 (4.49, 100.47)	0.0
<i>EUS (T4)</i>										
Before 2000	0.80 (0.28, 1.00)	55.2	0.99 (0.93, 1.00)	0.0	28.83 (6.87, 121.02)	0.0	0.29 (0.09, 0.95)	23.0	122.67 (11.52, 1305.9)	0.0
After 2000	0.69 (0.39, 0.91)	19.8	0.98 (0.95, 0.99)	42.1	26.24 (9.27, 74.32)	35.2	0.37 (0.18, 0.70)	33.9	59.51 (15.30, 231.46)	21.9
East	0.33 (0.01, 0.91)	4.4	0.97 (0.93, 0.99)	0.0	9.21 (1.91, 44.39)	0.0	0.65 (0.30, 1.40)	0.0	13.25 (1.68, 104.80)	0.0
West	0.80 (0.52, 0.96)	0.0	0.99 (0.96, 1.00)	38.8	36.67 (12.67, 94.87)	15.9	0.27 (0.13, 0.57)	0.0	140.88 (27.55, 720.33)	0.0
Radial EUS only	0.67 (0.09, 0.99)	4.4	0.98 (0.89, 1.00)	53.6	13.41 (3.12, 57.65)	0.0	0.42 (0.14, 1.22)	0.0	41.76 (3.32, 525.00)	0.0
Radial and linear	0.73 (0.45, 0.92)	41.1	0.98 (0.96, 0.99)	28.0	35.59 (12.36, 102.46)	14.3	0.31 (0.16, 0.63)	51.6	85.23 (21.87, 332.18)	28.1
Retrospective	0.71 (0.44, 0.90)	27.5	0.98 (0.96, 1.00)	22.9	35.03 (12.94, 98.86)	0.0	0.34 (0.19, 0.63)	31.9	81.76 (23.22, 287.90)	4.6
Prospective	–	–	–	–	–	–	–	–	–	–
<i>EUS (N)</i>										
Before 2000	0.58 (0.47, 0.68)	14.2	0.78 (0.71, 0.85)	68.3	2.34 (1.67, 3.29)	51.2	0.57 (0.44, 0.74)	5.0	4.18 (2.45, 7.15)	33.0
After 2000	0.66 (0.53, 0.77)	33.0	0.75 (0.65, 0.84)	69.0	2.29 (1.58, 3.31)	83.2	0.51 (0.36, 0.72)	0.0	5.14 (2.58, 10.24)	15.9
East	0.55 (0.43, 0.67)	33.5	0.80 (0.71, 0.87)	13.1	2.66 (1.73, 4.10)	8.9	0.57 (0.44, 0.74)	30.2	4.44 (2.44, 8.08)	26.8
West	0.66 (0.55, 0.76)	0.0	0.75 (0.66, 0.82)	80.7	2.10 (1.55, 2.83)	81.4	0.52 (0.38, 0.72)	0.0	4.60 (2.54, 8.34)	28.8
Radial EUS only	0.62 (0.51, 0.72)	49.4	0.75 (0.67, 0.83)	79.1	2.03 (1.50, 2.75)	77.9	0.58 (0.44, 0.75)	7.1	3.99 (2.30, 6.91)	37.2
Radial and linear	0.60 (0.46, 0.72)	0.0	0.79 (0.70, 0.87)	3.1	2.93 (1.87, 4.59)	0.0	0.51 (0.37, 0.71)	0.0	5.40 (2.79, 10.45)	2.0
Retrospective	0.58 (0.49, 0.66)	0.0	0.78 (0.72, 0.83)	54.7	2.45 (1.84, 3.27)	39.0	0.56 (0.45, 0.70)	0.0	4.37 (2.81, 6.78)	20.7
Prospective	0.82 (0.60, 0.95)	43.2	0.68 (0.45, 0.86)	93.4	1.79 (1.14, 2.80)	94.4	0.40 (0.16, 0.99)	0.0	6.39 (1.57, 25.99)	62.2

EUS, endoscopic ultrasound; ATs, ampullary tumors; PLR, positive likelihood ratio; NLR, negative likelihood ratio; DOR, diagnostic odds ratio