

Table S1 Sensitivity analysis for OS

Excluding study	HR and 95%CI	P value	Heterogeneity (%)	P value for heterogeneity
Okada	0.63 (0.41–0.96)	0.030	76.6	<0.001
Okada	0.60 (0.43–0.85)	0.003	67.0	0.001
Yamato	0.71 (0.49–1.02)	0.066	74.0	<0.001
Shapiro	0.69 (0.48–0.99)	0.045	77.8	<0.001
Sugi	0.69 (0.48–0.99)	0.041	78.1	<0.001
Nakamura	0.75 (0.54–1.04)	0.085	70.8	<0.001
Soukiasian	0.65 (0.46–0.94)	0.021	78.4	<0.001
Yamashita	0.66 (0.46–0.96)	0.029	78.5	<0.001
Zhong	0.63 (0.43–0.93)	0.019	77.5	<0.001
Zhang	0.67 (0.47–0.96)	0.027	78.5	<0.001
Dziedzic	0.71 (0.49–1.02)	0.066	73.9	<0.001

Table S2 Sensitivity analysis for DFS

Excluding study	HR and 95% CI	P value	Heterogeneity (%)	P value for heterogeneity
Okada	1.13 (0.89–1.44)	0.301	0.0	0.967
Okada	0.99 (0.78–1.25)	0.936	0.0	0.990
Shapiro	1.07 (0.88–1.30)	0.482	0.0	0.919
Sugi	1.07 (0.88–1.30)	0.475	0.0	0.926
Yamashita	1.08 (0.89–1.31)	0.452	0.0	0.931
Zhong	1.07 (0.87–1.33)	0.517	0.0	0.916
Zhao	1.06 (0.87–1.29)	0.551	0.0	0.955
Zhang	1.07 (0.88–1.30)	0.490	0.0	0.918

Table S3 Subgroup analysis for OS

Factors	Group	HR and 95% CI	P value	Heterogeneity (%)	P value for heterogeneity	P value between groups
Publication year	Before 2010	0.78 (0.47–1.29)	0.336	84.4	<0.001	0.005
	2010 or after	0.59 (0.37–0.93)	0.025	59.5	0.022	
Country	Eastern	0.72 (0.48–1.07)	0.101	78.5	<0.001	0.005
	Western	0.49 (0.35–0.70)	<0.001	0.0	0.480	
Mean age (years)	≥65.0	0.57 (0.35–0.94)	0.028	74.3	0.002	0.069
	<65.0	0.80 (0.46–1.39)	0.428	79.2	0.001	
Percentage male (%)	≥50.0	0.70 (0.47–1.02)	0.065	82.2	<0.001	0.288
	<50.0	0.52 (0.25–1.11)	0.091	0.0	0.472	
Control	Segmentectomy	0.85 (0.66–1.08)	0.187	3.5	0.406	<0.001
	Wedge	0.32 (0.23–0.44)	<0.001	0.0	0.619	
Study quality	High	0.54 (0.33–0.91)	0.020	82.4	<0.001	0.006
	Low	0.98 (0.79–1.21)	0.819	0.0	0.954	
Study design	Prospective study	0.68 (0.56–0.83)	0	0	0.648	<0.001
	Retrospective study	0.67 (0.59–0.76)	<0.001	0	1.000	

Table S4 Subgroup analysis for DFS

Factors	Group	HR and 95% CI	P value	Heterogeneity (%)	P value for heterogeneity	P value between groups
Publication year	Before 2010	1.08 (0.86–1.36)	0.492	0.0	0.538	0.838
	2010 or after	1.03 (0.72–1.49)	0.853	0.0	0.943	
Country	Eastern	1.07 (0.88–1.30)	0.482	0.0	0.919	0.844
	Western	0.95 (0.29–3.12)	0.933	–	–	
Mean age (years)	≥65.0	0.95 (0.71–1.28)	0.738	0.0	0.985	0.305
	<65.0	1.16 (0.90–1.50)	0.236	0.0	0.915	
Percentage male (%)	≥50.0	1.07 (0.88–1.30)	0.514	0.0	0.842	0.964
	<50.0	1.09 (0.47–2.53)	0.843	0.0	0.729	
Study quality	High	1.18 (0.88–1.58)	0.263	0.0	0.889	0.373
	Low	0.99 (0.77–1.28)	0.941	0.0	0.942	
Study design	Prospective study	1.04 (0.89–1.20)	0.638	0	0.619	0.079
	Retrospective study	1.08 (0.99–1.17)	0.080	0	0.999	