

Supplementary Table 1 Oncologic outcomes in rectal cancer patients

Variables	Surveillance intensity		<i>P</i> value
	Lower intensity (<i>n</i> = 659)	Higher intensity (<i>n</i> = 561)	
Circumferential resection margin, No (%)			0.006
Positive	18 (2.7)	36 (6.4)	
Unknown	7 (1.1)	8 (1.4)	
Factors	Univariate		Multivariate
	OR (95% CI)	<i>P</i> value	OR
Overall survival			
Age (years)	1.029 (1.020– 1.039)	< 0.001	1.034 (1.025– 1.044)
Sex	0.779 (0.639– 0.950)	0.013	0.779 (0.638– 0.951)
Surveillance intensity	1.207 (1.002– 1.455)	0.048	1.171 (0.968– 1.416)
Differentiation			
WD/MD	Ref.		Ref.
PD/SRC/MUC	1.935 (1.445– 2.591)	< 0.001	1.775 (1.316– 2.395)
(y) pT stage			
0-2	Ref.		Ref.
3-4	1.912 (1.439– 2.542)	< 0.001	1.514 (1.124– 2.041)
(y) pN stage			
1c	Ref.		Ref.

1	6.465 46.074)	(0.907– 0.062 45.293)	6.341 45.293)	(0.888– 0.066
2	10.706 76.418)	(1.500– 0.018 62.468)	8.712 62.468)	(1.215– 0.031
Lymphovascular invasion	1.557 1.878)	(1.291– < 0.001 1.445)	1.181 1.445)	(0.965– 0.107
Perineural invasion	1.941 2.362)	(1.596– < 0.001 1.955)	1.586 1.955)	(1.287– < 0.001
Resection margin	1.972 2.860)	(1.360– < 0.001 2.341)	1.603 2.341)	(1.097– 0.015
Recurrence-free interval				
Age (years)	1.000 1.009)	(0.991– 0.962 1.009)		
Sex	1.008 1.225)	(0.829– 0.936 1.225)		
Surveillance intensity	1.679 2.031)	(1.388– < 0.001 2.031)	1.551 1.881)	(1.279– < 0.001
Differentiation				
WD/MD	Ref.		Ref.	
PD/SRC/MUC	1.685 2.303)	(1.234– 0.001 2.303)	1.372 1.888)	(0.998– 0.052
(y) pT stage				
0-2	Ref.		Ref.	
3-4	2.122 2.850)	(1.580– < 0.001 2.850)	1.724 2.352)	(1.265– 0.001
(y) pN stage				
1c	Ref.		Ref.	
1	3.510 3.510)	(0.873– 0.077 3.510)	3.446 3.446)	(0.855– 0.082

	14.114)		13.889)
2	6.231 (1.547– 0.010		4.808 (1.186– 0.028
	25.102)		19.483)
Lymphovascular invasion	1.491 (1.232– < 0.001		1.156 (0.940– 0.169
	1.806)		1.421)
Perineural invasion	1.926 (1.579– < 0.001		1.411 (1.141– 0.002
	2.350)		1.746)
Resection margin	2.192 (1.529– < 0.001		1.565 (1.083– 0.017
	3.144)		2.262)
Post-recurrence survival			
Age (years)	1.014 (1.004– 0.005		1.013 (1.003– 0.013
	1.024)		1.023)
Sex	0.839 (0.671– 0.124		0.892 (0.707– 0.339
	1.049)		1.127)
Surveillance intensity	1.006 (0.811– 0.958		
	1.247)		
Differentiation			
WD/MD	Ref.		Ref.
PD/SRC/MUC	2.162 (1.557– < 0.001		1.988 (1.423– < 0.001
	3.004)		2.778)
(y) pT stage			
0-2	Ref.		Ref.
3-4	1.095 (0.781– 0.600		
	1.534)		
(y) pN stage			
1c	Ref.		Ref.
1	2.336 (0.327– 0.398		
	16.681)		

2	3.470 24.809)	(0.485– 0.215	
Lymphovascular invasion	1.386 1.718)	(1.118– 0.003	1.125 (0.892– 0.319
Perineural invasion	1.481 1.845)	(1.188– < 0.001	1.396 (1.100– 0.006
Resection margin	1.416 2.075)	(0.966– 0.075	1.266 (0.856– 0.237
Curative resection	0.309 0.414)	(0.231– < 0.001	0.344 (0.255– < 0.001
			0.463)

OR: Odds ratio; CI: Confidence interval; Ref: Reference; WD: Well differentiated;
 MD: Moderately differentiated; PD: Poorly differentiated; SRC: Signet ring cell type;
 MUC: Mucinous carcinoma.