

Supplementary Table S1. location of positive margin for R1 patients ($n=25$).

Location	R1 HGD ($n=9$)	R1 Carcinoma ($n=14$)
PROXIMAL MARGIN	5 (55.6)	8 (57.1)
DISTAL MARGIN	4 (44.4)	6 (42.9)
BOTH	0	0

HGD, High grade dysplasia.

Supplementary Table S2. Uni-and multivariate analysis identifying factors affecting disease free survival ($n=149$).

VARIABLE	PATIENTS (N)	5Y DFS (%)	UNIVARIATE ANALYSIS			MULTIVARIATE ANALYSIS		
			HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>
SEX								
MALE / FEMALE	104 / 45	27.9 / 40.5	0.860	0.562-1.315	0.486			
AGE								
≤ 65 / > 65	56 / 93	44.9 / 23.9	1.540	1.010-2.348	0.045	1.302	0.843-2.011	0.234
BMI								
≤ 25 / > 25	106 / 43	26.2 / 46.3	0.691	0.440-1.086	0.109			
ASA SCORE								
I	18	9.4						
II	113	37.1	0.699	0.399-1.227	0.212			
III/IV	18	18.9	1.038	0.501-2.154	0.919			
PREOP CA19-9								
≤ 35 / > 35	84 / 65	39.2 / 21.7	2.580	1.748-3.809	<0.001	2.026	1.327-3.094	0.001
T-STAGE								
T1	47	56.8						
T2	91	21.2	2.617	1.621-4.226	<0.001	1.778	1.059-2.983	0.029
T3/4	11	18.9	2.535	1.124-5.719	0.025	1.948	0.824-4.606	0.129
N STAGE								
N (-) / N (+)	107 / 42	38.2 / 15.2	2.084	1.390-3.123	<0.001	1.573	1.029-2.405	0.036
MARGIN								
R0	126	35.2						
R1 HGD	9	14.8	1.482	0.643-3.415	0.356			
R1 CARCINOMA	14	9.8	1.458	0.794-2.675	0.224			
COMPLICATIONS								
NO / YES	133 / 16	34.2 / 13.5	1.503	0.832-2.715	0.177			
CHEMOTHERAPY								
NO / YES	135 / 14	32.8 / 16.3	1.458	0.756-2.810	0.260			

DFS, Disease free survival; HGD, High grade dysplasia.