

WIKINGO Project Systematic Analysis

Tables & Figures.

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Table 1: Participant characteristics

	[ALL] N=246	N
Age	64.6 (10.2)	246
Sex: Men	162 (65.9%)	246
Tumor level:		246
0-6cm	89 (36.2%)	
7-12cm	126 (51.2%)	
13-15cm	31 (12.6%)	
Tumor stage:		246
0	47 (19.1%)	
I	81 (32.9%)	
II	73 (29.7%)	
III	45 (18.3%)	
Neoadjuvant treatment	208 (84.6%)	246
Type of resection:		246
Abdominoperineal resection	64 (26.0%)	
Anterior resection	144 (58.5%)	
Hartmann	38 (15.4%)	
Perforation	6 (2.44%)	246
Invasion circumferential margin	9 (3.66%)	246
Mesorecto quality:		246
Satisfactory	231 (93.9%)	
Partial	12 (4.88%)	
No-satisfactory	3 (1.22%)	
Recidive	3 (1.22%)	246
Months to recidive	15.0 [2.25;35.0]	246
Metastasis	32 (13.0%)	246
Months to Metastasis	14.0 [2.25;30.8]	246
Exitus	25 (10.2%)	246
Months to exitus	15.0 [2.25;35.0]	246

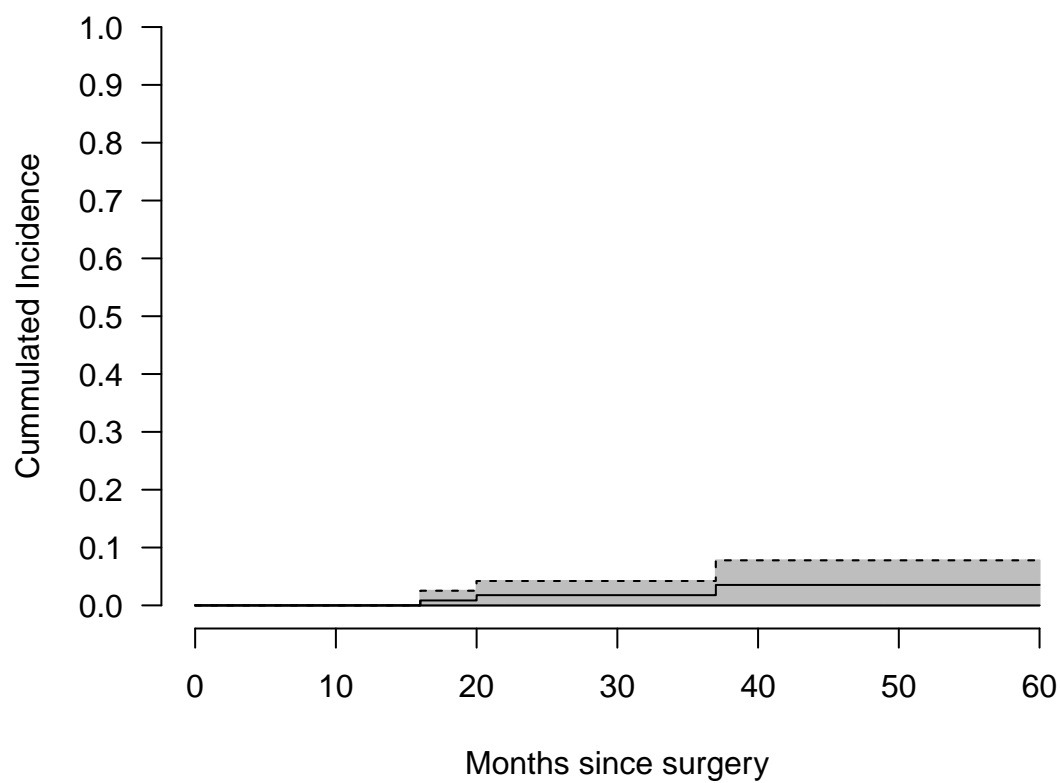
Table 2: According to Local Recurrence

	No event n= 243	Event n= 3	Crude HR	p-value	Multivariate HR
Age (10y)	6.45 (1.02)	7.50 (0.69)	5.54 [0.91;33.6]	0.063	8.91 [0; 2.875112e+46]
Sex: Men	160 (65.8%)	2 (66.7%)	0.94 [0.08;10.3]	0.957	0.22 [0; 7.518145e+62]
Tumor level:					
0-6cm	89 (36.6%)	0 (0.00%)	1.00 [0.00;.]	1.000	0.00 [0;4.567871e+159]
7-12cm	123 (50.6%)	3 (100%)	740246603 [0.00;.]	0.999	17.94 [0;6.120747e+140]
Tumor stage:					
0	47 (19.3%)	0 (0.00%)	1.00 [0.00;.]	1.000	1346.13 [0;6.885175e+210]
II	70 (28.8%)	3 (100%)	1614837337 [0.00;.]	0.999	957.84 [0;4.692362e+132]
III	45 (18.5%)	0 (0.00%)	1.00 [0.00;.]	1.000	36.62 [0;2.915872e+163]
Neoadjuvant treatment	206 (84.8%)	2 (66.7%)	0.35 [0.03;3.87]	0.392	0.01 [0; 5.643955e+89]
Type of resection:					
Abdominoperineal resection	63 (25.9%)	1 (33.3%)	933051329 [0.00;.]	0.999	4592742469.28 [0; 5.051183e+62]
Hartmann	36 (14.8%)	2 (66.7%)	4709907393 [0.00;.]	0.999	6.44 [0; 2.490827e+37]
Perforation	5 (2.06%)	1 (33.3%)	16.7 [1.51;185]	0.022	0.00 [0; Inf]
Invasion circumferential margin	8 (3.29%)	1 (33.3%)	17.1 [1.51;194]	0.022	8.44 [0;1.116254e+113]
Mesorrecto quality:					
Partial	12 (4.94%)	0 (0.00%)	0.00 [0.00;.]	0.999	7.29 [0;1.414905e+186]
No-satisfactory	2 (0.82%)	1 (33.3%)	26.0 [2.36;287]	0.008	11449351141.26 [0; Inf]

Reference categories:

- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorrecto Quality, Satisfactory

Figure 1: Local Recurrence



Months	0	12	24	36	48	60
N:	246	134	96	57	32	12

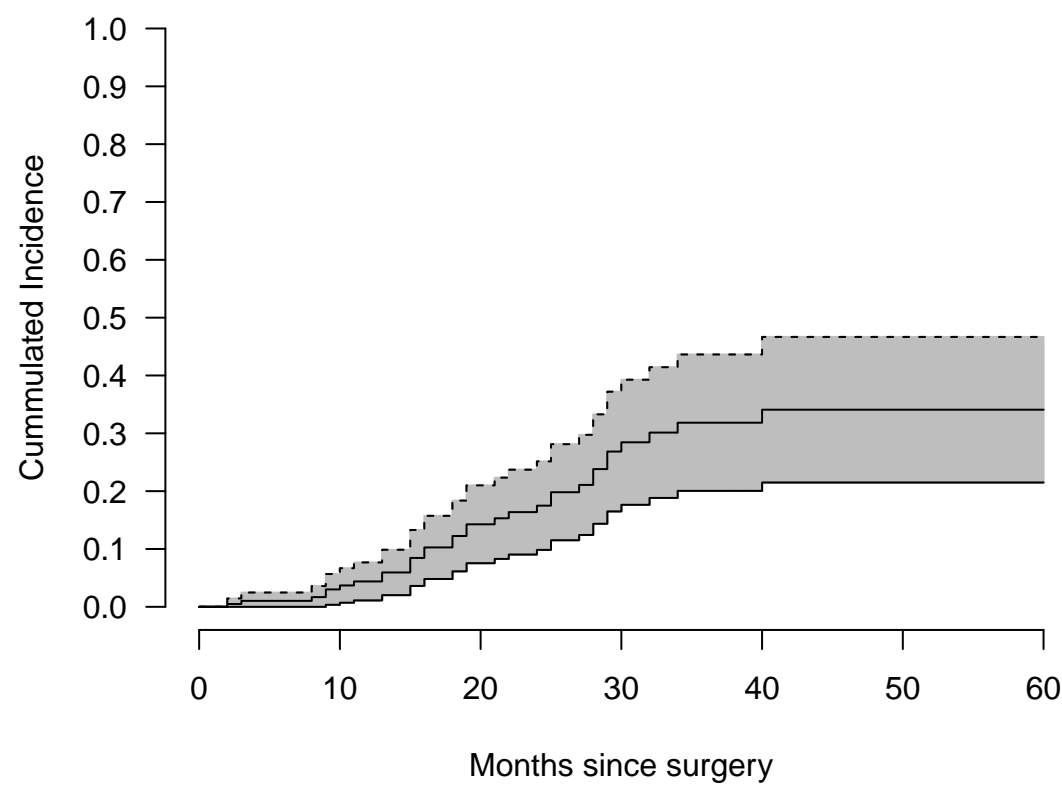
Table 3: According to Metastasis

	No event n= 214	Event n= 32	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.46 (1.01)	6.49 (1.11)	1.21 [0.86;1.71]	0.280	1.28 [0.87; 1.90]	0.208	246
Sex: Men	144 (67.3%)	18 (56.2%)	0.62 [0.31;1.25]	0.182	0.66 [0.32; 1.38]	0.268	246
Tumor level:							246
0-6cm	74 (34.6%)	15 (46.9%)	2.09 [0.60;7.22]	0.244	1.54 [0.26; 9.27]	0.635	
7-12cm	112 (52.3%)	14 (43.8%)	1.73 [0.50;6.01]	0.391	2.16 [0.53; 8.83]	0.286	
Tumor stage:							246
0	46 (21.5%)	1 (3.12%)	0.27 [0.03;2.21]	0.223	0.37 [0.04; 3.24]	0.367	
II	56 (26.2%)	17 (53.1%)	2.63 [1.09;6.35]	0.031	3.11 [1.20; 8.06]	0.019	
III	38 (17.8%)	7 (21.9%)	2.27 [0.79;6.47]	0.126	2.53 [0.80; 8.02]	0.114	
Neoadjuvant treatment	181 (84.6%)	27 (84.4%)	1.01 [0.39;2.62]	0.985	1.47 [0.41; 5.23]	0.555	246
Type of resection:							246
Abdominoperineal resection	51 (23.8%)	13 (40.6%)	1.87 [0.89;3.94]	0.098	2.34 [0.59; 9.35]	0.228	
Hartmann	34 (15.9%)	4 (12.5%)	1.55 [0.51;4.69]	0.441	0.97 [0.27; 3.49]	0.968	
Perforation	6 (2.80%)	0 (0.00%)	0.00 [0.00;.]	0.997	0.00 [0.00; Inf]	0.998	246
Invasion circumferential margin	7 (3.27%)	2 (6.25%)	2.75 [0.66;11.5]	0.167	5.85 [0.84;40.60]	0.074	246
Mesorecto quality:							246
Partial	10 (4.67%)	2 (6.25%)	1.06 [0.25;4.42]	0.941	1.46 [0.31; 6.84]	0.629	
No-satisfactory	3 (1.40%)	0 (0.00%)	0.00 [0.00;.]	0.997	0.27 [0.00; Inf]	1	

Reference categories:

- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorecto Quality, Satisfactory

Figure 2: Metastasis



Months	0	12	24	36	48	60
N:	246	130	87	47	27	11

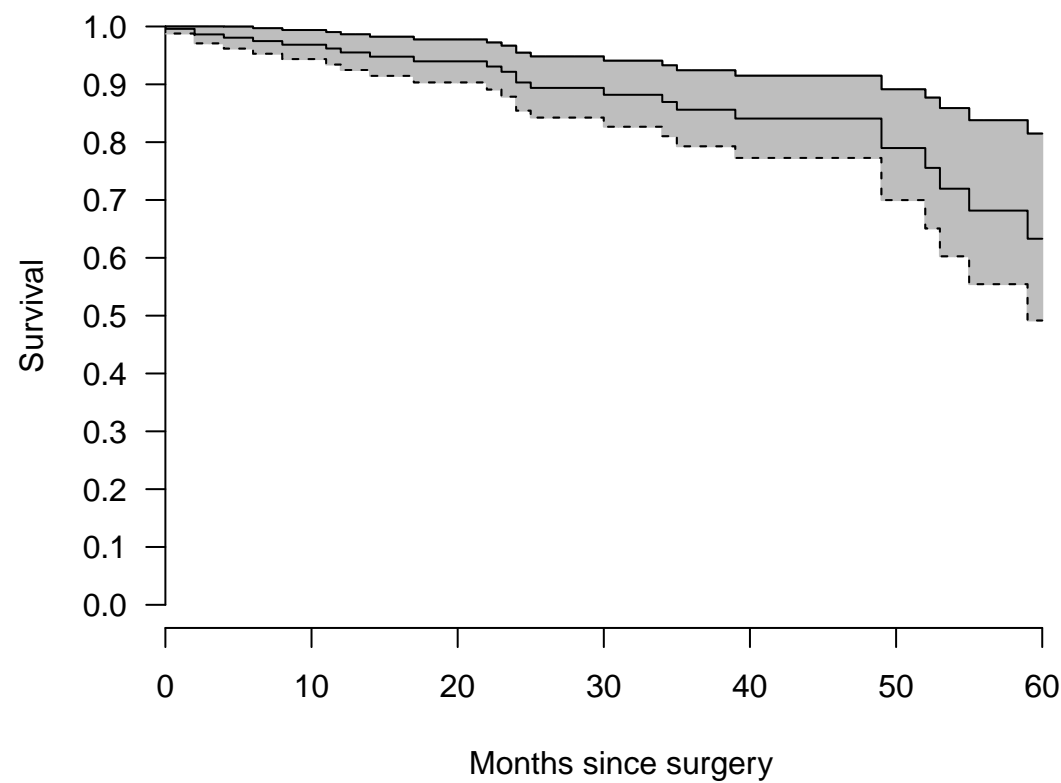
Table 4: According to Exitus

	No event n= 221	Event n= 25	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.40 (0.99)	7.05 (1.08)	2.32 [1.45;3.70]	<0.001	2.38 [1.40; 4.03]	0.001	246
Sex: Men	146 (66.1%)	16 (64.0%)	0.86 [0.38;1.94]	0.708	0.90 [0.36; 2.22]	0.816	246
Tumor level:							246
0-6cm	82 (37.1%)	7 (28.0%)	1.24 [0.26;5.98]	0.791	0.43 [0.05; 4.02]	0.462	
7-12cm	110 (49.8%)	16 (64.0%)	2.22 [0.51;9.76]	0.290	1.61 [0.31; 8.28]	0.57	
Tumor stage:							246
0	44 (19.9%)	3 (12.0%)	1.89 [0.42;8.57]	0.407	4.74 [0.93;24.18]	0.061	
II	61 (27.6%)	12 (48.0%)	3.06 [0.98;9.49]	0.053	3.22 [0.94;10.97]	0.062	
III	39 (17.6%)	6 (24.0%)	3.08 [0.87;10.9]	0.081	5.16 [1.28;20.82]	0.021	
Neoadjuvant treatment	188 (85.1%)	20 (80.0%)	0.81 [0.30;2.15]	0.665	1.84 [0.51; 6.64]	0.353	246
Type of resection:							246
Abdominoperineal resection	58 (26.2%)	6 (24.0%)	1.28 [0.47;3.46]	0.630	4.22 [0.71;24.95]	0.113	
Hartmann	30 (13.6%)	8 (32.0%)	5.15 [1.98;13.4]	0.001	2.26 [0.68; 7.43]	0.181	
Perforation	4 (1.81%)	2 (8.00%)	2.44 [0.57;10.5]	0.230	0.00 [0.00; Inf]	0.997	246
Invasion circumferential margin	7 (3.17%)	2 (8.00%)	3.94 [0.91;17.0]	0.066	1.19 [0.09;15.68]	0.897	246
Mesorrecto quality:							246
Partial	11 (4.98%)	1 (4.00%)	0.68 [0.09;5.08]	0.710	1.05 [0.12; 8.76]	0.967	
No-satisfactory	1 (0.45%)	2 (8.00%)	3.78 [0.87;16.5]	0.076	52601920.16 [0.00; Inf]	0.997	

Reference categories:

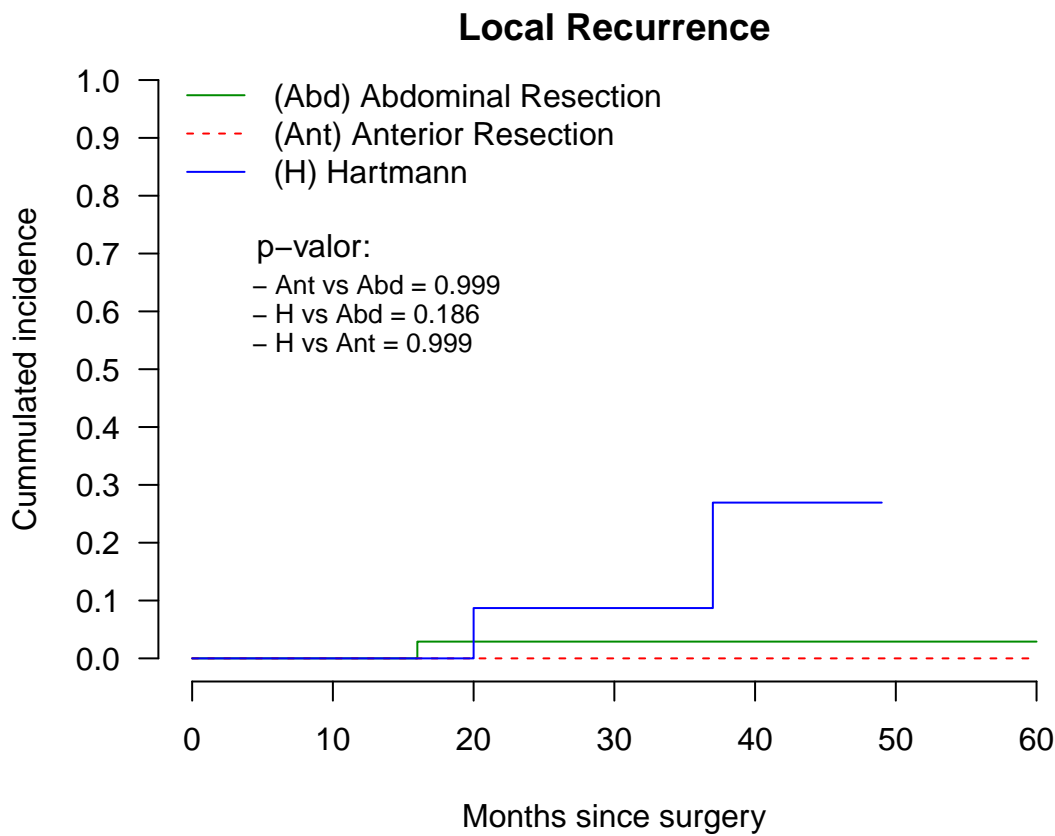
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorrecto Quality, Satisfactory

Figure 3: Exitus



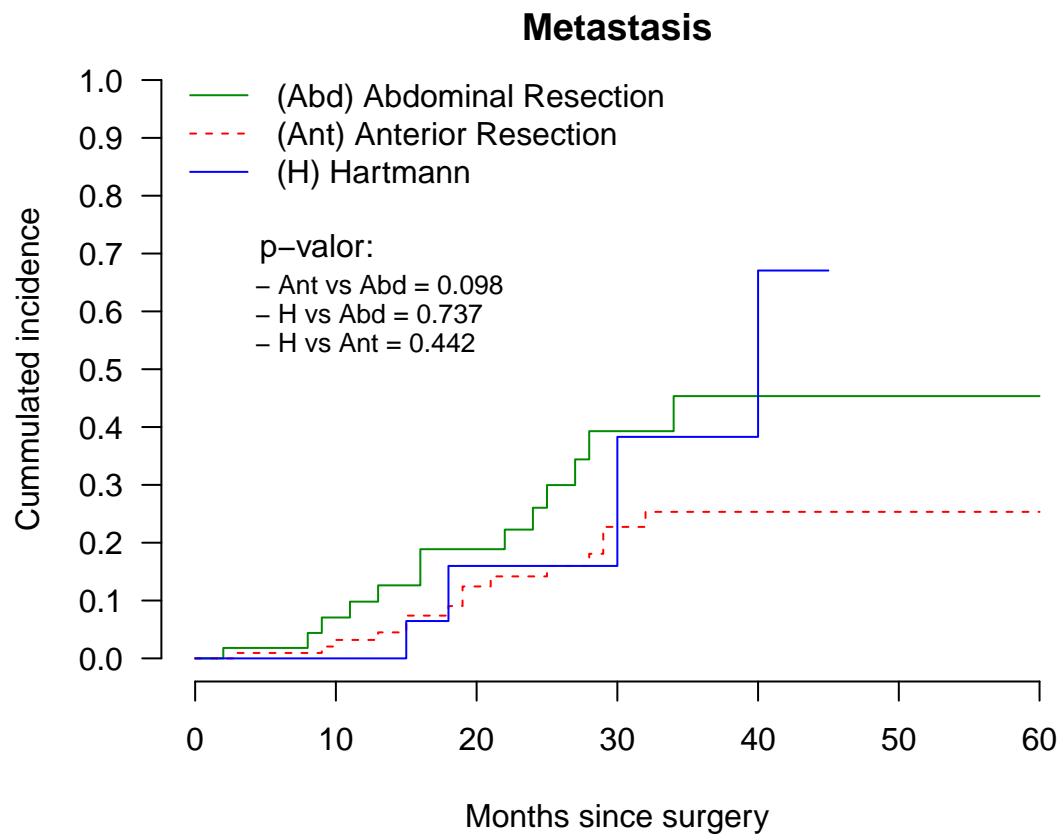
Months	0	12	24	36	48	60
N:	246	134	96	57	33	12

Figure 4: Local Recurrence, according to Type of Resection:



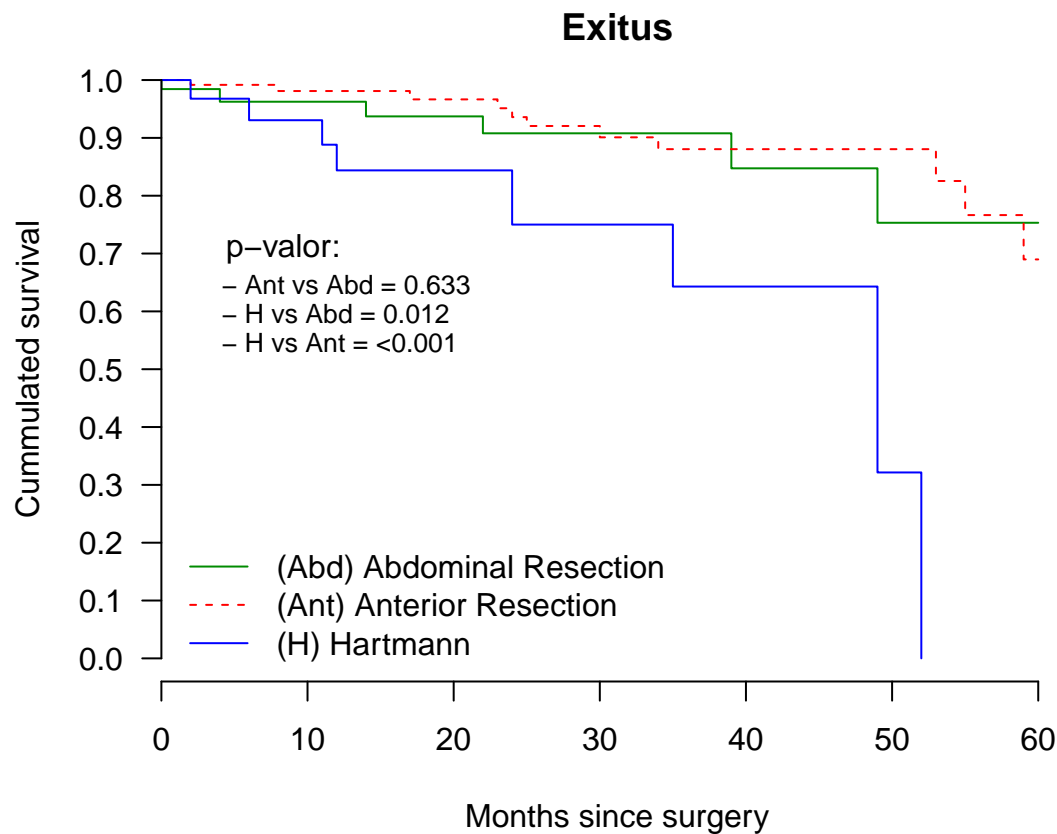
Tiempo	0	12	24	36	48	60
Abd	64	38	29	15	9	4
Ant	144	83	62	38	24	8
H	38	20	8	6	2	0

Figure 5: Metastasis, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	64	36	27	12	8	4
Ant	144	81	56	33	20	7
H	38	20	7	4	0	0

Figure 6: Survival, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	64	38	29	15	9	4
Ant	144	83	62	38	24	8
H	38	20	9	6	3	0

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	0 [0; 0]	4.29 [7.38; 1.11]	4.49 [7.52; 1.35]
24	1.75 [4.12; 0]	16.05 [22.23; 9.38]	9.68 [14.54; 4.54]
36	1.75 [4.12; 0]	27.27 [35.35; 18.17]	14.39 [20.7; 7.57]
48	3.47 [7.48; 0]	28.88 [37.29; 19.35]	15.92 [22.72; 8.52]
60	3.47 [7.48; 0]	28.88 [37.29; 19.35]	36.7 [50.82; 18.53]