

WIKINGO Project Systematic Analysis

Tables & Figures.

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September 29, 2016

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Table 1: Participant characteristics

	[ALL] N=552	N
Age	65.9 (11.0)	552
Sex: Men	377 (68.3%)	552
Tumor level:		552
0-6cm	204 (37.0%)	
7-12cm	285 (51.6%)	
13-15cm	63 (11.4%)	
Tumor stage:		552
0	54 (9.78%)	
I	151 (27.4%)	
II	169 (30.6%)	
III	178 (32.2%)	
Neoadjuvant treatment	381 (69.0%)	552
Type of resection:		552
Abdominoperineal resection	94 (17.0%)	
Anterior resection	413 (74.8%)	
Hartmann	45 (8.15%)	
Perforation	22 (3.99%)	552
Invasion circumferential margin	45 (8.15%)	552
Mesorecto quality:		552
Satisfactory	446 (80.8%)	
Partial	63 (11.4%)	
No-satisfactory	43 (7.79%)	
Recidive	22 (3.99%)	552
Months to recidive	30.0 [5.00;60.0]	552
Metastasis	54 (9.78%)	552
Months to Metastasis	29.0 [5.00;57.2]	552
Exitus	68 (12.3%)	552
Months to exitus	31.0 [5.00;60.0]	552

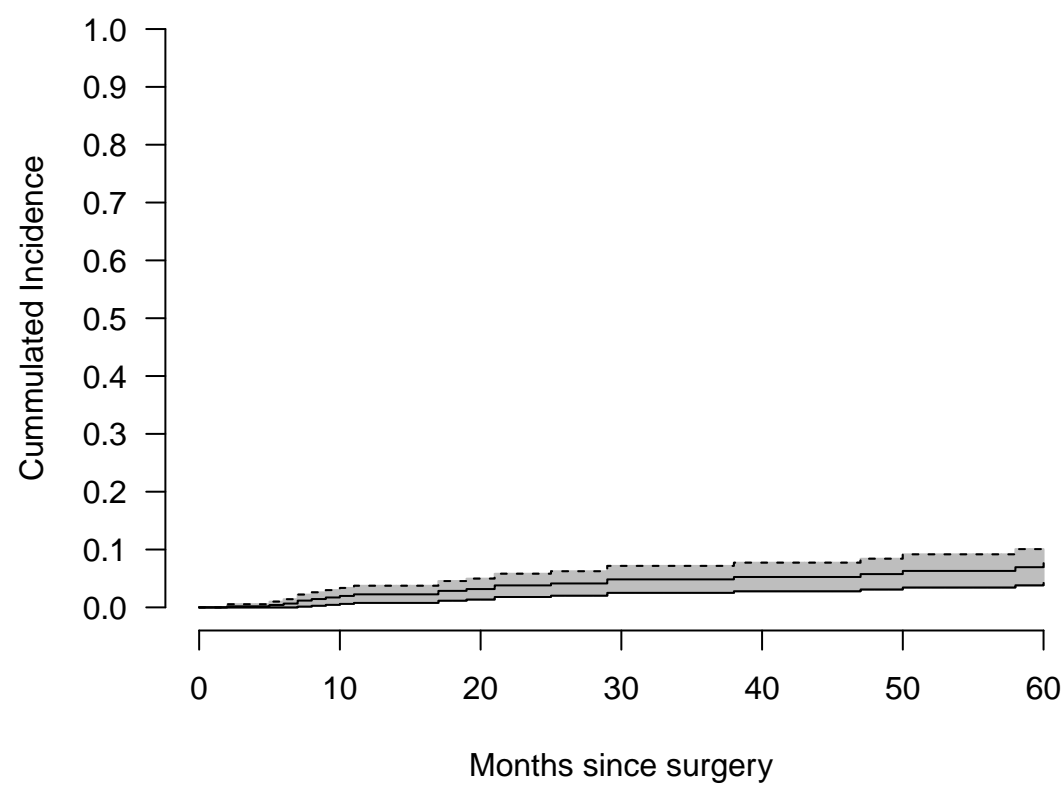
Table 2: According to Local Recurrence

	No event n= 530	Event n= 22	Crude HR	p-value	Multivariate HR	p-value
Age (10y)	6.59 (1.10)	6.63 (1.05)	1.13 [0.76;1.68]	0.542	1.15 [0.74; 1.78]	0.533
Sex: Men	361 (68.1%)	16 (72.7%)	1.18 [0.46;3.02]	0.729	0.81 [0.28; 2.34]	0.694
Tumor level:						
0-6cm	190 (35.8%)	14 (63.6%)	136267321 [0.00;.]	0.997	220956160.42 [0.00; Inf]	0.998
7-12cm	277 (52.3%)	8 (36.4%)	55220319 [0.00;.]	0.998	70070160.07 [0.00; Inf]	0.998
Tumor stage:						
0	53 (10.0%)	1 (4.55%)	0.90 [0.09;8.61]	0.924	1.05 [0.10;10.72]	0.969
II	162 (30.6%)	7 (31.8%)	1.88 [0.49;7.27]	0.361	1.81 [0.44; 7.46]	0.409
III	167 (31.5%)	11 (50.0%)	3.16 [0.88;11.3]	0.077	1.79 [0.43; 7.42]	0.421
Neoadjuvant treatment	366 (69.1%)	15 (68.2%)	0.87 [0.36;2.15]	0.769	0.45 [0.16; 1.27]	0.131
Type of resection:						
Abdominoperineal resection	88 (16.6%)	6 (27.3%)	2.29 [0.86;6.10]	0.098	0.86 [0.26; 2.86]	0.807
Hartmann	41 (7.74%)	4 (18.2%)	3.89 [1.25;12.1]	0.019	2.02 [0.53; 7.70]	0.302
Perforation	17 (3.21%)	5 (22.7%)	9.55 [3.51;26.0]	<0.001	6.52 [1.68;25.33]	0.007
Invasion circumferential margin	37 (6.98%)	8 (36.4%)	6.61 [2.77;15.8]	<0.001	3.13 [1.02; 9.61]	0.047
Mesorecto quality:						
Partial	62 (11.7%)	1 (4.55%)	0.31 [0.04;2.39]	0.264	0.15 [0.02; 1.35]	0.09
No-satisfactory	36 (6.79%)	7 (31.8%)	3.61 [1.45;9.03]	0.006	1.72 [0.56; 5.30]	0.344

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 1: Local Recurrence



Months	0	12	24	36	48	60
N:	552	359	302	244	189	142

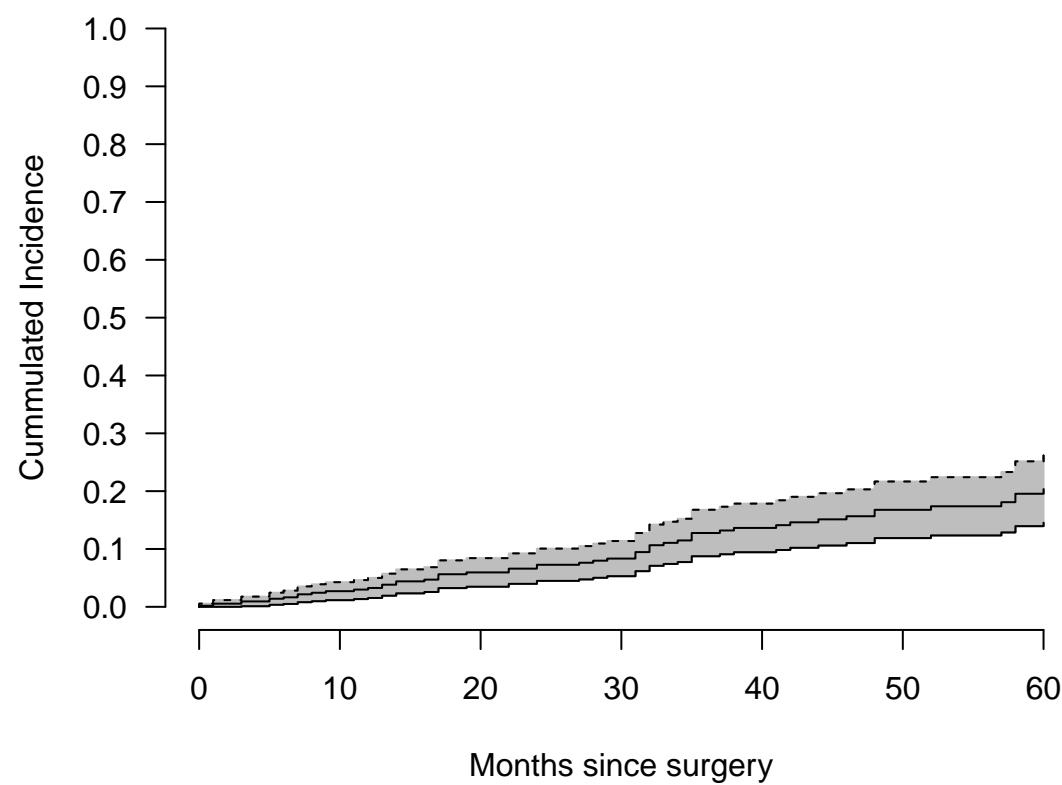
Table 3: According to Metastasis

	No event n= 498	Event n= 54	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.59 (1.12)	6.56 (0.82)	1.07 [0.84;1.37]	0.583	1.22 [0.93; 1.61]	0.155	552
Sex: Men	338 (67.9%)	39 (72.2%)	1.17 [0.65;2.13]	0.602	1.34 [0.70; 2.58]	0.379	552
Tumor level:							552
0-6cm	176 (35.3%)	28 (51.9%)	4.17 [0.99;17.5]	0.051	3.87 [0.75;19.95]	0.105	
7-12cm	261 (52.4%)	24 (44.4%)	2.48 [0.59;10.5]	0.218	2.16 [0.43;10.91]	0.352	
Tumor stage:							552
0	54 (10.8%)	0 (0.00%)	0.00 [0.00;.]	0.995	0.00 [0.00; Inf]	0.997	
II	154 (30.9%)	15 (27.8%)	6.12 [1.40;26.8]	0.016	4.78 [1.07;21.29]	0.04	
III	141 (28.3%)	37 (68.5%)	18.4 [4.43;76.4]	<0.001	14.33 [3.38;60.80]	<0.001	
Neoadjuvant treatment	336 (67.5%)	45 (83.3%)	2.09 [1.02;4.28]	0.044	1.54 [0.67; 3.54]	0.311	552
Type of resection:							552
Abdominoperineal resection	80 (16.1%)	14 (25.9%)	1.80 [0.97;3.33]	0.062	0.78 [0.35; 1.72]	0.536	
Hartmann	41 (8.23%)	4 (7.41%)	1.27 [0.45;3.57]	0.651	0.88 [0.28; 2.70]	0.818	
Perforation	18 (3.61%)	4 (7.41%)	2.76 [1.00;7.67]	0.051	1.37 [0.43; 4.32]	0.595	552
Invasion circumferential margin	29 (5.82%)	16 (29.6%)	5.45 [3.03;9.78]	<0.001	3.34 [1.69; 6.61]	<0.001	552
Mesorecto quality:							552
Partial	55 (11.0%)	8 (14.8%)	0.84 [0.39;1.79]	0.647	0.72 [0.31; 1.70]	0.457	
No-satisfactory	37 (7.43%)	6 (11.1%)	1.09 [0.46;2.57]	0.850	0.52 [0.20; 1.34]	0.177	

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:	552	355	296	230	171	124

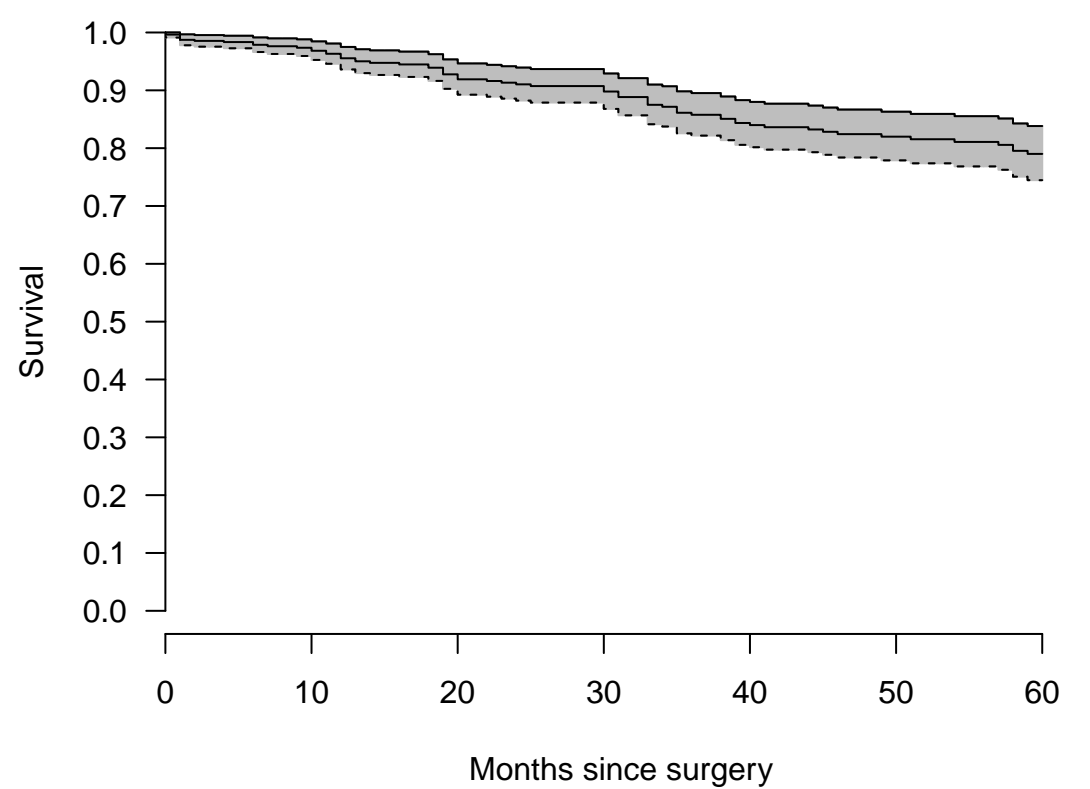
Table 4: According to Exitus

	No event n= 484	Event n= 68	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.52 (1.08)	7.04 (1.13)	1.72 [1.34;2.21]	<0.001	1.77 [1.35;2.32]	<0.001	552
Sex: Men	330 (68.2%)	47 (69.1%)	0.99 [0.59;1.66]	0.979	0.94 [0.55;1.63]	0.836	552
Tumor level:							552
0-6cm	173 (35.7%)	31 (45.6%)	1.25 [0.55;2.84]	0.595	1.67 [0.63;4.43]	0.307	
7-12cm	255 (52.7%)	30 (44.1%)	0.85 [0.37;1.93]	0.697	0.76 [0.30;1.91]	0.562	
Tumor stage:							552
0	54 (11.2%)	0 (0.00%)	0.00 [0.00;.]	0.996	0.00 [0.00; Inf]	0.994	
II	150 (31.0%)	19 (27.9%)	1.70 [0.77;3.76]	0.190	1.70 [0.75;3.83]	0.2	
III	138 (28.5%)	40 (58.8%)	3.89 [1.89;8.03]	<0.001	3.86 [1.79;8.33]	<0.001	
Neoadjuvant treatment	342 (70.7%)	39 (57.4%)	0.54 [0.33;0.87]	0.012	0.67 [0.38;1.18]	0.162	552
Type of resection:							552
Abdominoperineal resection	82 (16.9%)	12 (17.6%)	1.43 [0.75;2.73]	0.281	0.70 [0.32;1.53]	0.371	
Hartmann	27 (5.58%)	18 (26.5%)	5.53 [3.15;9.70]	<0.001	2.92 [1.54;5.52]	0.001	
Perforation	15 (3.10%)	7 (10.3%)	3.69 [1.68;8.07]	0.001	2.08 [0.80;5.45]	0.135	552
Invasion circumferential margin	28 (5.79%)	17 (25.0%)	3.82 [2.21;6.62]	<0.001	2.10 [1.10;4.01]	0.025	552
Mesorecto quality:							552
Partial	50 (10.3%)	13 (19.1%)	1.27 [0.68;2.36]	0.450	0.82 [0.41;1.65]	0.579	
No-satisfactory	33 (6.82%)	10 (14.7%)	1.61 [0.81;3.20]	0.176	0.68 [0.32;1.42]	0.305	

Reference categories:

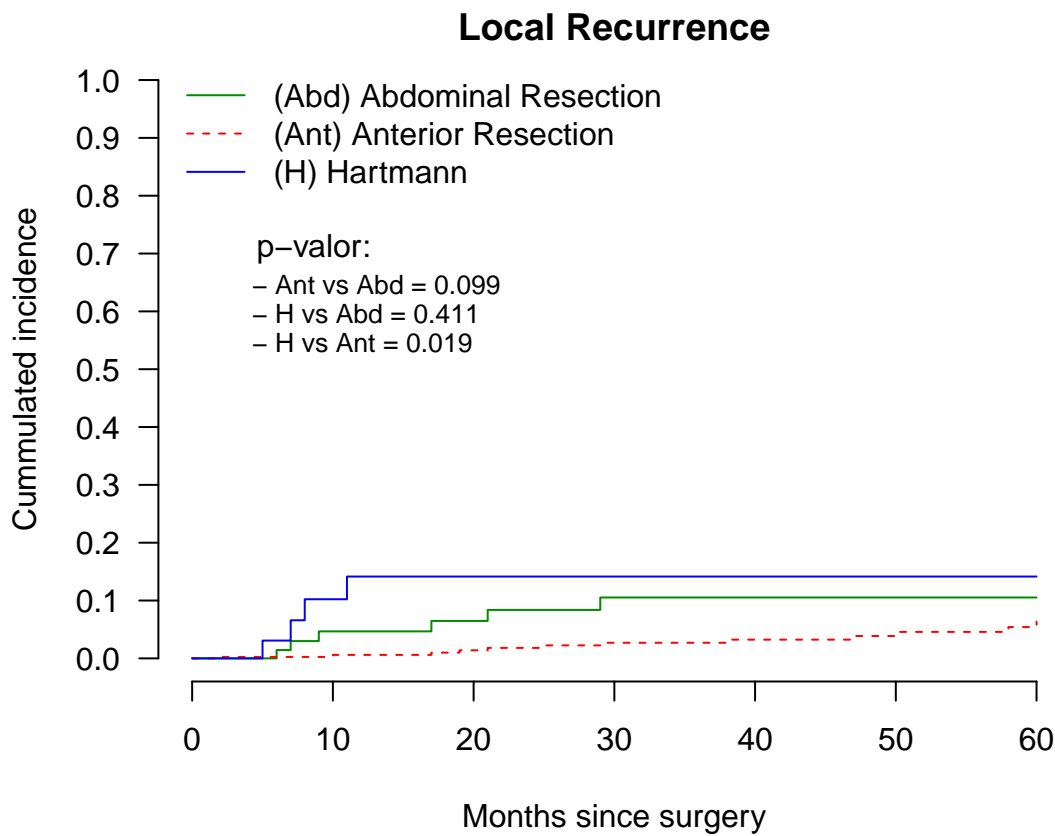
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorecto Quality, Satisfactory

Figure 3: Exitus



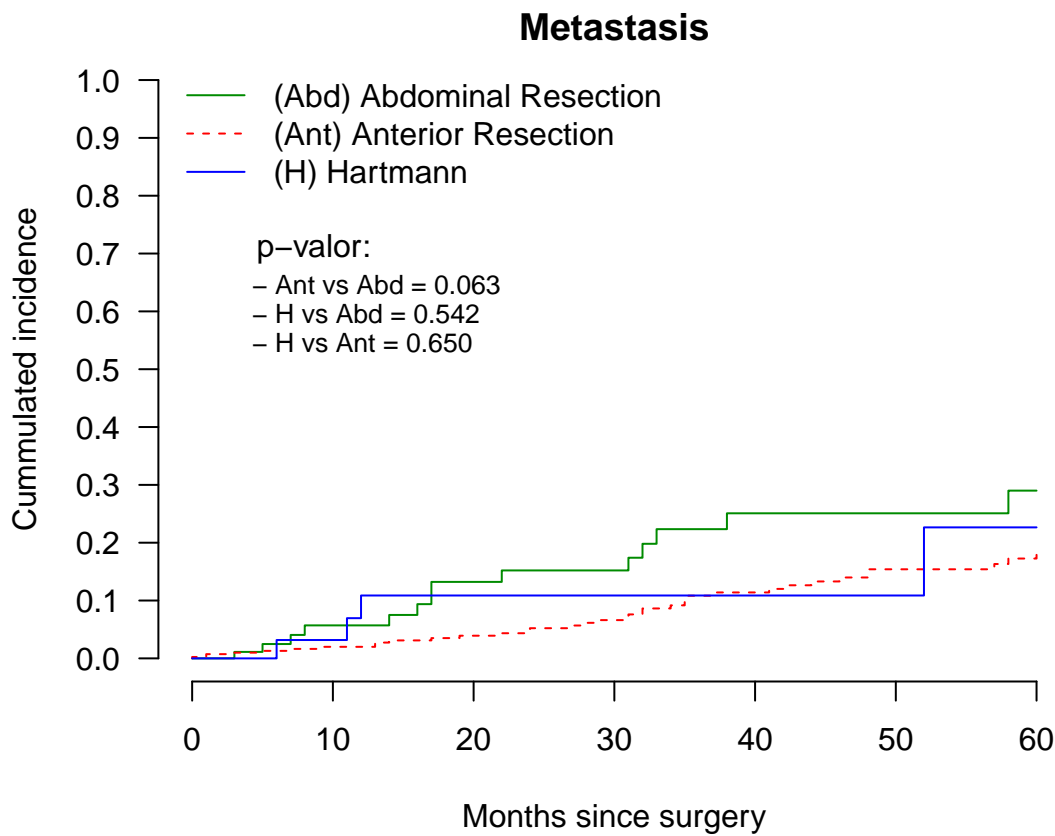
Months	0	12	24	36	48	60
N:	552	364	309	247	189	142

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



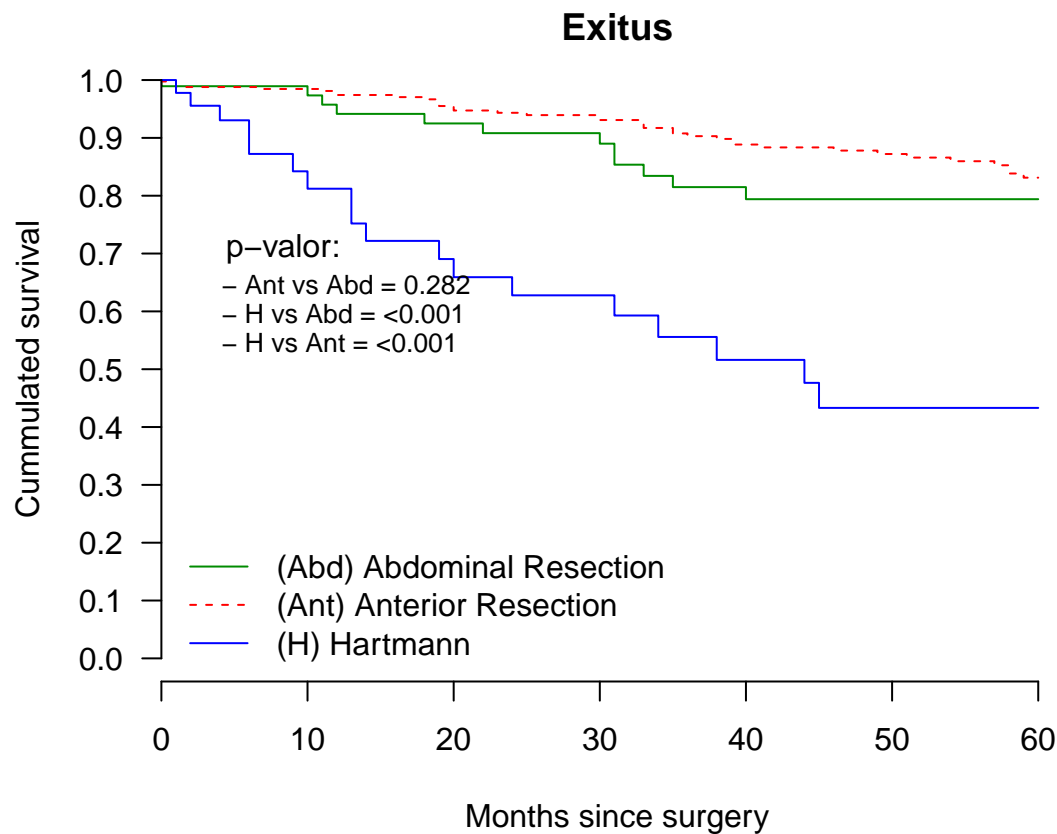
Tiempo	0	12	24	36	48	60
Abd	94	59	51	42	32	26
Ant	413	281	233	189	155	109
H	45	25	21	15	10	7

Figure 5: Metastasis, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	94	57	50	38	29	22
Ant	413	276	230	178	142	96
H	45	26	21	15	10	6

Figure 6: Survival, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	94	60	54	42	32	26
Ant	413	283	237	192	156	109
H	45	27	21	15	10	7

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	2.23 [3.66; 0.77]	3.21 [4.87; 1.52]	4.46 [6.38; 2.5]
24	3.73 [5.64; 1.78]	7.01 [9.56; 4.38]	8.97 [11.77; 6.08]
36	4.72 [6.92; 2.48]	11.98 [15.44; 8.38]	14.23 [17.82; 10.48]
48	5.59 [8.06; 3.05]	15.44 [19.47; 11.21]	17.57 [21.6; 13.34]
60	7.37 [10.48; 4.14]	18.42 [23.03; 13.54]	20.99 [25.53; 16.18]