

WIKINGO Project Systematic Analysis

Tables & Figures.

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Table 1: Participant characteristics

	[ALL] N=241	N
Age	66.9 (10.9)	241
Sex: Men	163 (67.6%)	241
Tumor level:		241
0-6cm	125 (51.9%)	
7-12cm	86 (35.7%)	
13-15cm	30 (12.4%)	
Tumor stage:		241
0	35 (14.5%)	
I	73 (30.3%)	
II	71 (29.5%)	
III	62 (25.7%)	
Neoadjuvant treatment	195 (80.9%)	241
Type of resection:		241
Abdominoperineal resection	45 (18.7%)	
Anterior resection	178 (73.9%)	
Hartmann	18 (7.47%)	
Perforation	5 (2.07%)	241
Invasion circumferential margin	7 (2.90%)	241
Mesorecto quality:		241
Satisfactory	184 (76.3%)	
Partial	45 (18.7%)	
No-satisfactory	12 (4.98%)	
Recidive	12 (4.98%)	241
Months to recidive	13.0 [9.00;33.0]	241
Metastasis	24 (9.96%)	241
Months to Metastasis	12.0 [9.00;33.0]	241
Exitus	32 (13.3%)	241
Months to exitus	13.0 [9.00;36.0]	241

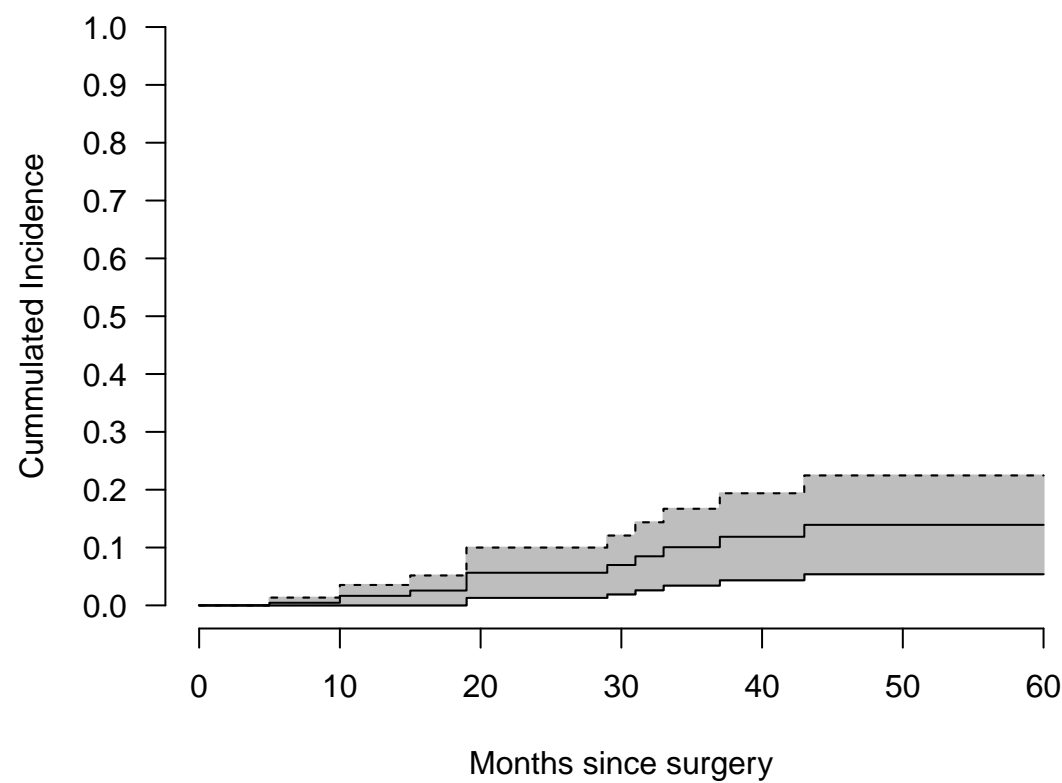
Table 2: According to Local Recurrence

	No event n= 229	Event n= 12	Crude HR	p-value	Multivariate HR	p-value
Age (10y)	6.69 (1.08)	6.75 (1.16)	1.10 [0.65;1.87]	0.719	1.15 [0.54; 2.45]	0.711
Sex: Men	156 (68.1%)	7 (58.3%)	0.71 [0.22;2.24]	0.557	1.49 [0.41; 5.43]	0.543
Tumor level:						
0-6cm	119 (52.0%)	6 (50.0%)	73067807 [0.00;.]	0.998	123126393.08 [0.00; Inf]	0.998
7-12cm	80 (34.9%)	6 (50.0%)	107722802 [0.00;.]	0.998	36648205.26 [0.00; Inf]	0.998
Tumor stage:						
0	35 (15.3%)	0 (0.00%)	0.00 [0.00;.]	0.998	0.00 [0.00; Inf]	0.998
II	69 (30.1%)	2 (16.7%)	2.23 [0.20;24.6]	0.513	2.24 [0.14;36.05]	0.57
III	53 (23.1%)	9 (75.0%)	8.82 [1.11;69.8]	0.039	5.20 [0.42;64.81]	0.2
Neoadjuvant treatment	186 (81.2%)	9 (75.0%)	0.79 [0.21;2.93]	0.727	0.97 [0.17; 5.57]	0.97
Type of resection:						
Abdominoperineal resection	44 (19.2%)	1 (8.33%)	0.40 [0.05;3.13]	0.386	0.28 [0.02; 3.59]	0.327
Hartmann	18 (7.86%)	0 (0.00%)	0.00 [0.00;.]	0.998	0.00 [0.00; Inf]	0.999
Perforation	5 (2.18%)	0 (0.00%)	0.00 [0.00;.]	0.998	5.07 [0.00; Inf]	1
Invasion circumferential margin	4 (1.75%)	3 (25.0%)	21.2 [5.51;81.7]	<0.001	2.98 [0.45;19.72]	0.257
Mesorrecto quality:						
Partial	37 (16.2%)	8 (66.7%)	15.8 [4.59;54.3]	<0.001	12.96 [2.89;58.07]	<0.001
No-satisfactory	12 (5.24%)	0 (0.00%)	0.00 [0.00;.]	0.998	0.00 [0.00; Inf]	0.998

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:	241	126	85	56	42	25

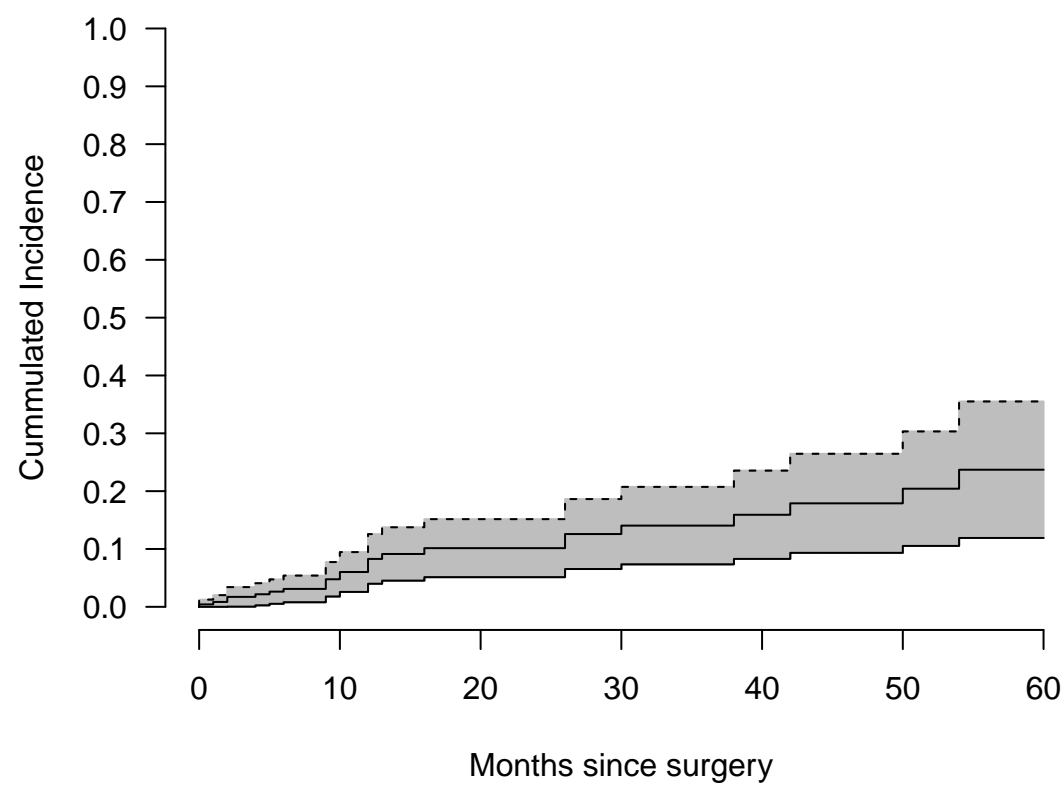
Table 3: According to Metastasis

	No event n= 217	Event n= 24	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.70 (1.09)	6.66 (1.03)	1.00 [0.69;1.43]	0.979	0.97 [0.64; 1.45]	0.865	241
Sex: Men	145 (66.8%)	18 (75.0%)	1.51 [0.60;3.80]	0.383	1.56 [0.59; 4.12]	0.371	241
Tumor level:							241
0-6cm	114 (52.5%)	11 (45.8%)	1.01 [0.28;3.62]	0.993	1.04 [0.24; 4.40]	0.96	
7-12cm	76 (35.0%)	10 (41.7%)	1.35 [0.37;4.92]	0.651	1.23 [0.29; 5.17]	0.777	
Tumor stage:							241
0	32 (14.7%)	3 (12.5%)	1.79 [0.40;7.99]	0.448	1.97 [0.42; 9.23]	0.391	
II	64 (29.5%)	7 (29.2%)	1.81 [0.53;6.20]	0.343	1.85 [0.52; 6.59]	0.34	
III	52 (24.0%)	10 (41.7%)	2.60 [0.81;8.32]	0.107	2.02 [0.57; 7.12]	0.276	
Neoadjuvant treatment	176 (81.1%)	19 (79.2%)	1.07 [0.40;2.86]	0.898	1.00 [0.34; 2.94]	0.996	241
Type of resection:							241
Abdominoperineal resection	42 (19.4%)	3 (12.5%)	0.72 [0.21;2.45]	0.602	0.93 [0.23; 3.74]	0.921	
Hartmann	16 (7.37%)	2 (8.33%)	1.79 [0.41;7.88]	0.439	2.70 [0.48;15.09]	0.258	
Perforation	5 (2.30%)	0 (0.00%)	0.00 [0.00;.]	0.997	0.00 [0.00; Inf]	0.997	241
Invasion circumferential margin	4 (1.84%)	3 (12.5%)	7.79 [2.29;26.5]	0.001	8.59 [1.71;43.27]	0.009	241
Mesorecto quality:							241
Partial	41 (18.9%)	4 (16.7%)	1.16 [0.39;3.45]	0.788	0.63 [0.18; 2.23]	0.474	
No-satisfactory	10 (4.61%)	2 (8.33%)	1.29 [0.30;5.58]	0.735	1.83 [0.36; 9.21]	0.463	

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:	241	117	84	55	42	24

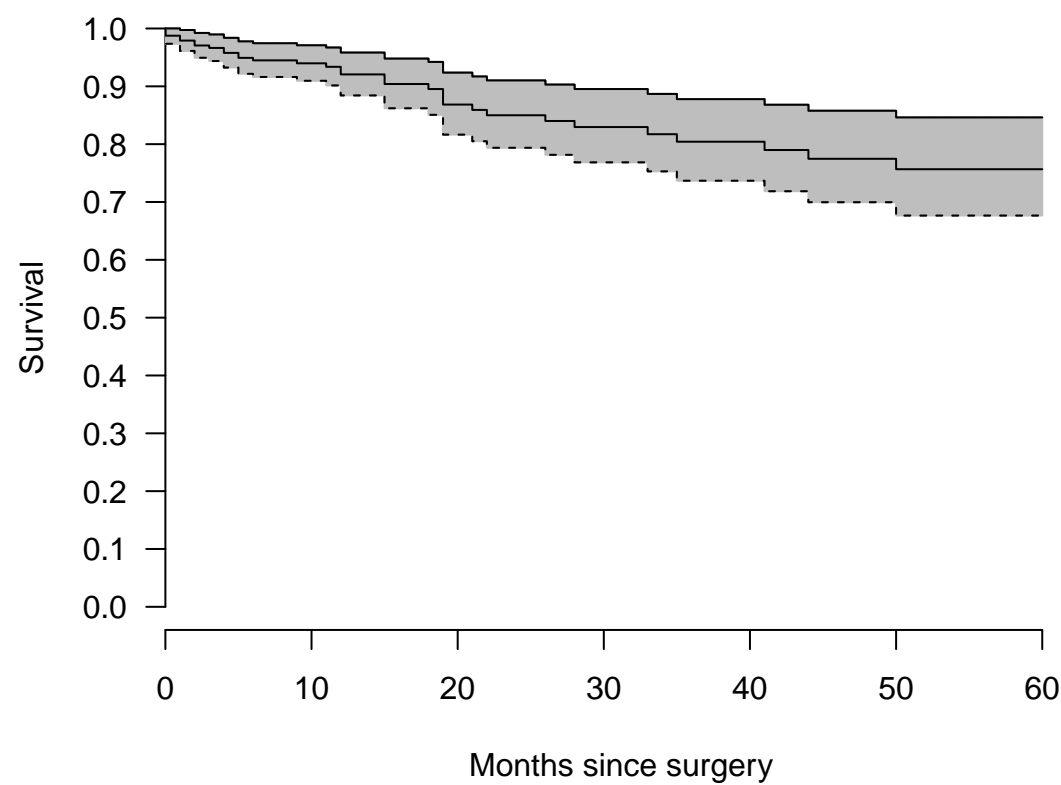
Table 4: According to Exitus

	No event n= 209	Event n= 32	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.67 (1.10)	6.85 (0.96)	1.18 [0.85;1.64]	0.329	1.19 [0.79; 1.78]	0.402	241
Sex: Men	139 (66.5%)	24 (75.0%)	1.49 [0.67;3.33]	0.325	1.51 [0.63; 3.57]	0.354	241
Tumor level:							241
0-6cm	110 (52.6%)	15 (46.9%)	0.64 [0.25;1.64]	0.350	0.34 [0.11; 1.11]	0.075	
7-12cm	75 (35.9%)	11 (34.4%)	0.68 [0.25;1.85]	0.454	0.45 [0.14; 1.42]	0.171	
Tumor stage:							241
0	32 (15.3%)	3 (9.38%)	0.90 [0.24;3.39]	0.875	1.24 [0.31; 4.99]	0.759	
II	66 (31.6%)	5 (15.6%)	0.67 [0.22;2.04]	0.479	0.55 [0.17; 1.80]	0.324	
III	46 (22.0%)	16 (50.0%)	2.07 [0.88;4.84]	0.095	1.49 [0.56; 3.97]	0.428	
Neoadjuvant treatment	172 (82.3%)	23 (71.9%)	0.67 [0.31;1.45]	0.313	0.74 [0.31; 1.75]	0.492	241
Type of resection:							241
Abdominoperineal resection	37 (17.7%)	8 (25.0%)	1.71 [0.75;3.86]	0.199	3.31 [1.13; 9.73]	0.029	
Hartmann	15 (7.18%)	3 (9.38%)	2.52 [0.73;8.68]	0.142	4.26 [0.96;18.85]	0.056	
Perforation	5 (2.39%)	0 (0.00%)	0.00 [0.00;.]	0.997	0.00 [0.00; Inf]	0.997	241
Invasion circumferential margin	2 (0.96%)	5 (15.6%)	8.71 [3.31;23.0]	<0.001	14.93 [3.72;59.94]	<0.001	241
Mesorrecto quality:							241
Partial	37 (17.7%)	8 (25.0%)	1.88 [0.83;4.25]	0.129	0.83 [0.31; 2.23]	0.71	
No-satisfactory	10 (4.78%)	2 (6.25%)	1.00 [0.23;4.27]	0.999	1.25 [0.26; 6.05]	0.78	

Reference categories:

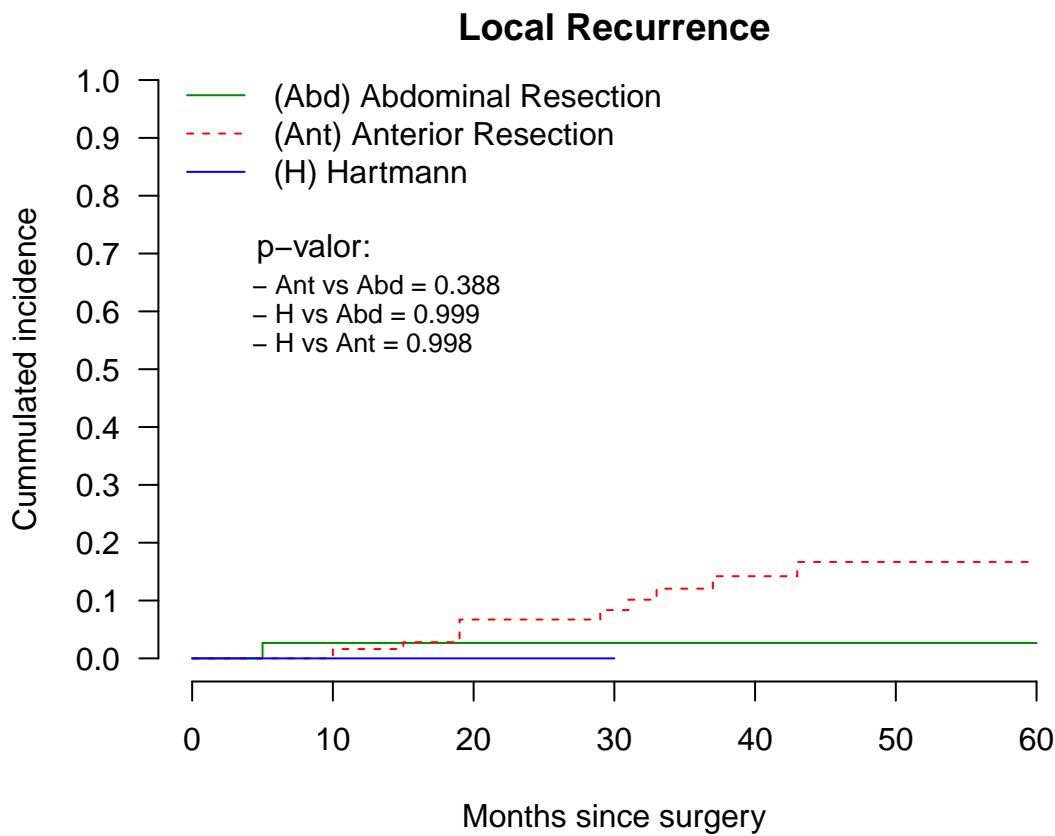
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorrecto Quality, Satisfactory

Figure 3: Exitus



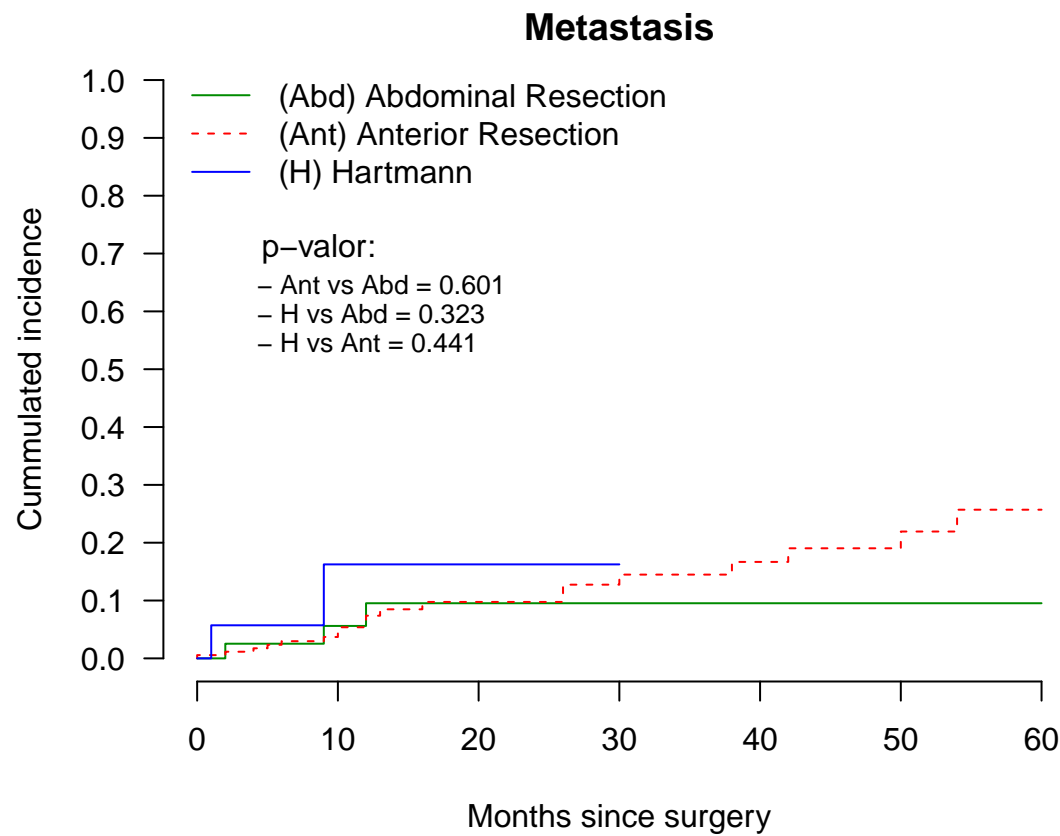
Months	0	12	24	36	48	60
N:	241	127	88	59	45	27

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



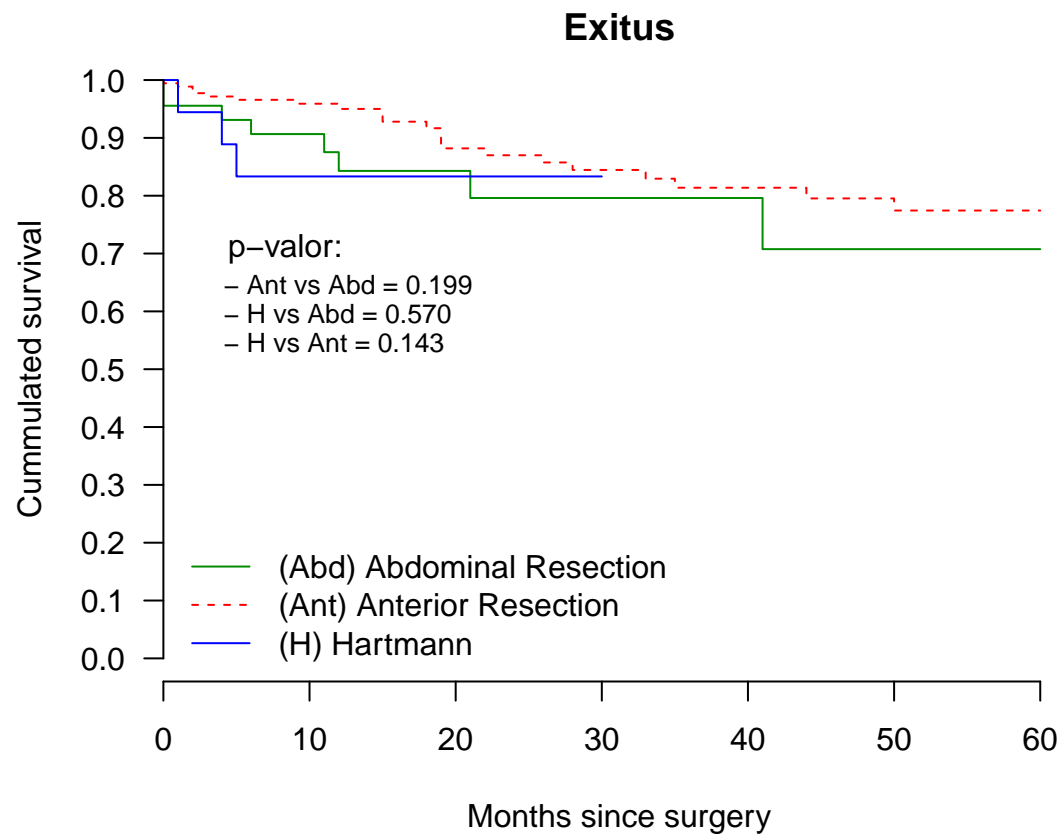
Tiempo	0	12	24	36	48	60
Abd	45	27	16	9	5	3
Ant	178	105	67	49	38	22
H	18	8	2	0	0	0

Figure 5: Metastasis, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	45	26	14	8	5	3
Ant	178	101	68	49	37	21
H	18	7	2	0	0	0

Figure 6: Survival, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	45	27	16	9	5	3
Ant	178	107	70	52	41	24
H	18	8	2	0	0	0

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	1.63 [3.46; 0]	7.95 [11.81; 3.91]	7.94 [11.56; 4.17]
23	5.48 [9.5; 1.29]	9.65 [14.06; 5]	15 [20.62; 8.98]
36	9.57 [15.37; 3.37]	13.1 [18.72; 7.09]	19.58 [26.32; 12.22]
48	13 [20.11; 5.25]	16.38 [23.24; 8.91]	22.53 [30.03; 14.23]
60	13 [20.11; 5.25]	21.1 [29.88; 11.23]	24.33 [32.33; 15.39]