

WIKINGO Project Systematic Analysis

Tables & Figures.

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Table 1: Participant characteristics

	[ALL] N=390	N
Age	66.7 (11.0)	390
Sex: Men	264 (67.7%)	390
Tumor level:		390
0-6cm	133 (34.1%)	
7-12cm	195 (50.0%)	
13-15cm	62 (15.9%)	
Tumor stage:		390
0	25 (6.41%)	
I	110 (28.2%)	
II	129 (33.1%)	
III	126 (32.3%)	
Neoadjuvant treatment	215 (55.1%)	390
Type of resection:		390
Abdominoperineal resection	75 (19.2%)	
Anterior resection	296 (75.9%)	
Hartmann	19 (4.87%)	
Perforation	30 (7.69%)	390
Invasion circumferential margin	34 (8.72%)	390
Mesorecto quality:		387
Satisfactory	307 (79.3%)	
Partial	46 (11.9%)	
No-satisfactory	34 (8.79%)	
Recidive	20 (5.13%)	390
Months to recidive	21.0 [1.00;41.0]	390
Metastasis	58 (14.9%)	390
Months to Metastasis	15.0 [1.00;37.0]	390
Exitus	56 (14.4%)	390
Months to exitus	23.0 [1.00;42.0]	390

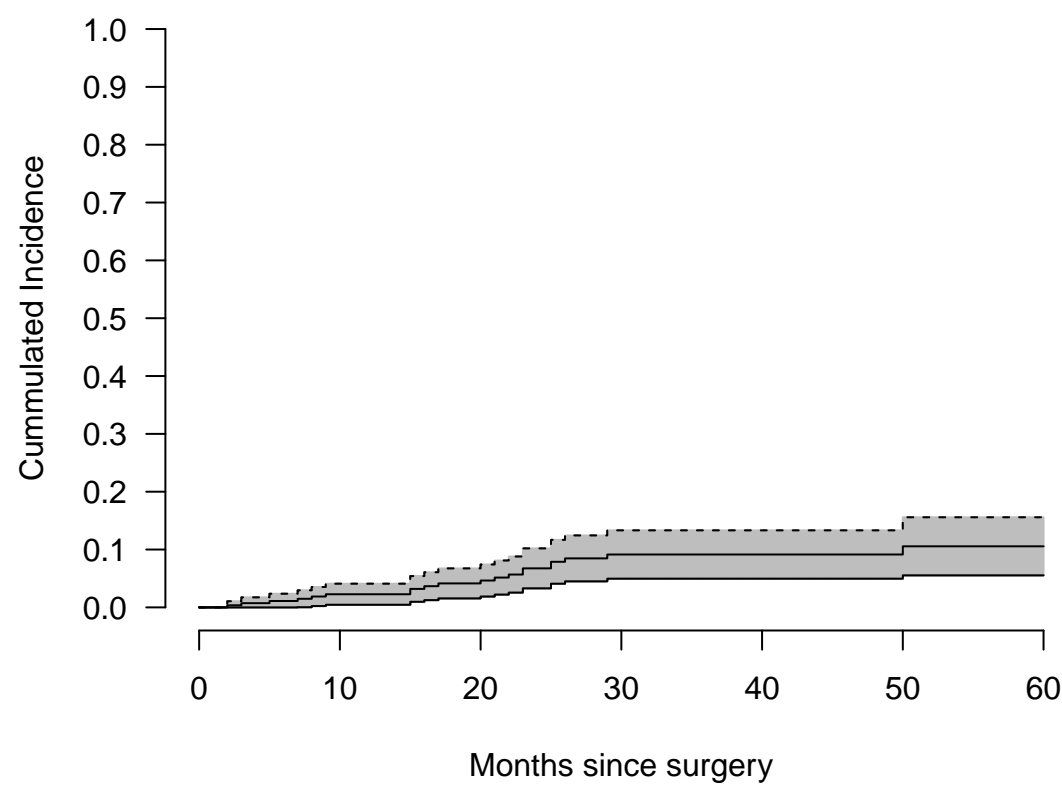
Table 2: According to Local Recurrence

	No event n= 370	Event n= 20	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.67 (1.10)	6.65 (1.02)	0.99 [0.66;1.47]	0.950	0.84 [0.49; 1.43]	0.519	390
Sex: Men	249 (67.3%)	15 (75.0%)	1.55 [0.56;4.28]	0.394	1.81 [0.58; 5.66]	0.308	390
Tumor level:							390
0-6cm	124 (33.5%)	9 (45.0%)	0.88 [0.30;2.64]	0.826	1.24 [0.20; 7.58]	0.818	
7-12cm	189 (51.1%)	6 (30.0%)	0.39 [0.12;1.28]	0.121	0.24 [0.04; 1.29]	0.096	
Tumor stage:							390
0	25 (6.76%)	0 (0.00%)	0.00 [0.00;.]	0.997	0.00 [0.00; Inf]	0.997	
II	121 (32.7%)	8 (40.0%)	3.58 [0.76;16.9]	0.107	3.46 [0.55;21.64]	0.184	
III	116 (31.4%)	10 (50.0%)	4.95 [1.09;22.6]	0.039	5.20 [0.99;27.33]	0.051	
Neoadjuvant treatment	202 (54.6%)	13 (65.0%)	1.15 [0.46;2.88]	0.767	0.84 [0.24; 2.94]	0.78	390
Type of resection:							390
Abdominoperineal resection	70 (18.9%)	5 (25.0%)	1.72 [0.60;4.88]	0.311	0.41 [0.08; 2.11]	0.286	
Hartmann	16 (4.32%)	3 (15.0%)	4.19 [1.18;14.9]	0.027	3.40 [0.58;20.08]	0.176	
Perforation	24 (6.49%)	6 (30.0%)	6.28 [2.41;16.4]	<0.001	3.35 [0.88;12.76]	0.077	390
Invasion circumferential margin	27 (7.30%)	7 (35.0%)	5.13 [2.05;12.9]	<0.001	3.56 [1.24;10.22]	0.018	390
Mesorrecto quality:							387
Partial	43 (11.7%)	3 (15.0%)	1.52 [0.42;5.52]	0.527	1.88 [0.49; 7.24]	0.362	
No-satisfactory	27 (7.36%)	7 (35.0%)	5.66 [2.15;14.9]	<0.001	5.32 [1.12;25.14]	0.035	

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:	390	232	177	112	75	43

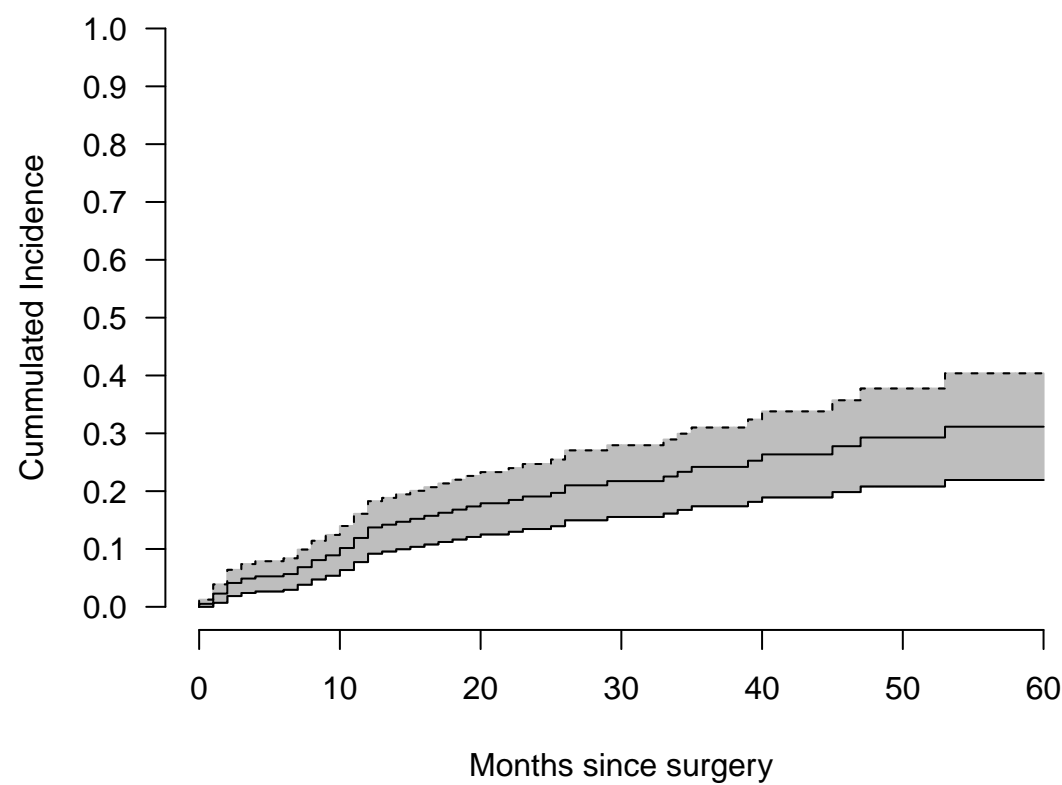
Table 3: According to Metastasis

	No event n= 332	Event n= 58	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.66 (1.11)	6.70 (1.01)	1.04 [0.82;1.32]	0.763	1.00 [0.75; 1.33]	0.98	390
Sex: Men	223 (67.2%)	41 (70.7%)	1.16 [0.66;2.05]	0.602	1.05 [0.57; 1.93]	0.872	390
Tumor level:							390
0-6cm	108 (32.5%)	25 (43.1%)	1.30 [0.61;2.78]	0.503	0.92 [0.34; 2.53]	0.874	
7-12cm	171 (51.5%)	24 (41.4%)	0.86 [0.40;1.85]	0.692	0.37 [0.15; 0.92]	0.033	
Tumor stage:							390
0	25 (7.53%)	0 (0.00%)	0.00 [0.00;.]	0.995	0.00 [0.00; Inf]	0.995	
II	111 (33.4%)	18 (31.0%)	2.08 [0.90;4.80]	0.085	2.29 [0.89; 5.89]	0.086	
III	94 (28.3%)	32 (55.2%)	4.39 [2.02;9.54]	<0.001	5.48 [2.39;12.53]	<0.001	
Neoadjuvant treatment	172 (51.8%)	43 (74.1%)	1.96 [1.09;3.53]	0.025	2.16 [1.09; 4.28]	0.028	390
Type of resection:							390
Abdominoperineal resection	64 (19.3%)	11 (19.0%)	1.12 [0.58;2.19]	0.732	0.87 [0.37; 2.04]	0.748	
Hartmann	12 (3.61%)	7 (12.1%)	3.28 [1.47;7.33]	0.004	5.86 [2.26;15.19]	<0.001	
Perforation	21 (6.33%)	9 (15.5%)	2.75 [1.35;5.63]	0.005	4.09 [1.73; 9.66]	0.001	390
Invasion circumferential margin	25 (7.53%)	9 (15.5%)	1.86 [0.91;3.79]	0.087	1.18 [0.55; 2.52]	0.678	390
Mesorrecto quality:							387
Partial	40 (12.1%)	6 (10.5%)	0.72 [0.31;1.69]	0.454	0.69 [0.28; 1.66]	0.407	
No-satisfactory	27 (8.18%)	7 (12.3%)	1.26 [0.57;2.80]	0.570	0.59 [0.22; 1.56]	0.285	

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 2: Metastasis



Months	0	12	24	36	48	60
N:	390	209	160	101	64	35

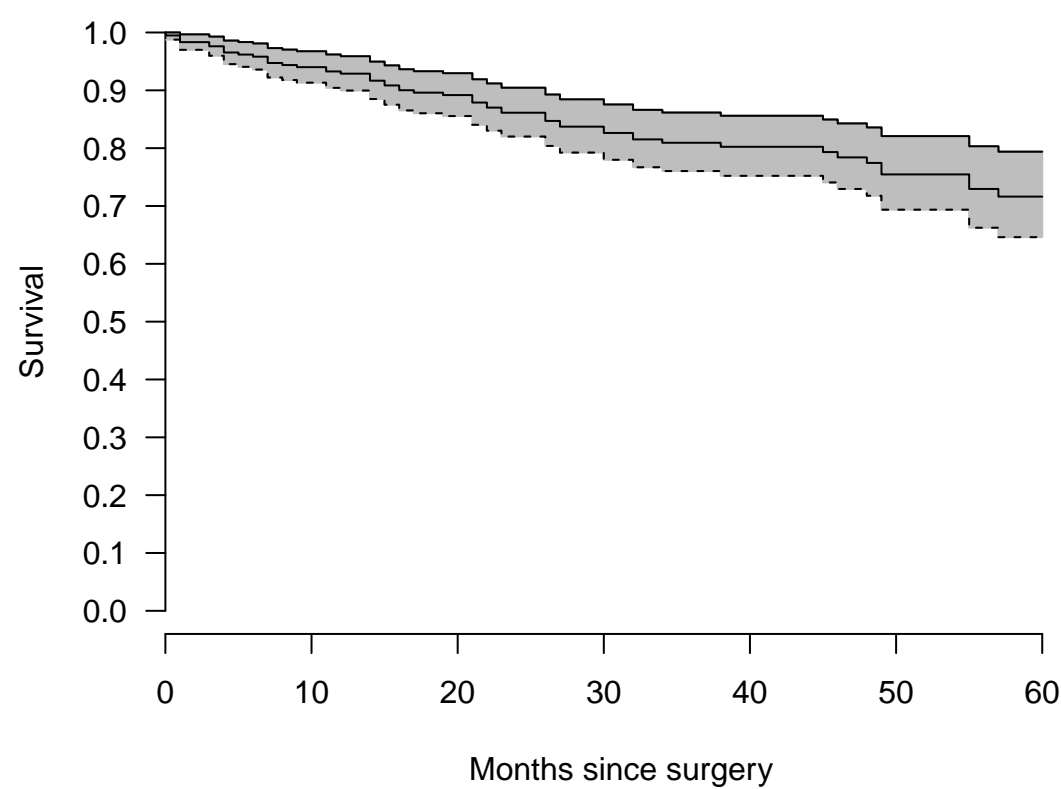
Table 4: According to Exitus

	No event n= 334	Event n= 56	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.61 (1.12)	7.04 (0.89)	1.42 [1.10;1.85]	0.008	1.53 [1.13;2.07]	0.006	390
Sex: Men	224 (67.1%)	40 (71.4%)	1.24 [0.70;2.22]	0.462	1.21 [0.65;2.27]	0.551	390
Tumor level:							390
0-6cm	109 (32.6%)	24 (42.9%)	1.87 [0.76;4.58]	0.170	1.84 [0.61;5.51]	0.276	
7-12cm	169 (50.6%)	26 (46.4%)	1.32 [0.54;3.21]	0.544	0.91 [0.34;2.44]	0.855	
Tumor stage:							390
0	23 (6.89%)	2 (3.57%)	0.64 [0.14;2.91]	0.567	0.49 [0.10;2.33]	0.368	
II	113 (33.8%)	16 (28.6%)	1.19 [0.55;2.58]	0.651	1.31 [0.55;3.15]	0.542	
III	99 (29.6%)	27 (48.2%)	2.37 [1.17;4.77]	0.016	2.54 [1.20;5.39]	0.015	
Neoadjuvant treatment	176 (52.7%)	39 (69.6%)	1.40 [0.79;2.48]	0.246	1.20 [0.63;2.27]	0.583	390
Type of resection:							390
Abdominoperineal resection	63 (18.9%)	12 (21.4%)	1.42 [0.74;2.74]	0.293	0.63 [0.26;1.52]	0.304	
Hartmann	11 (3.29%)	8 (14.3%)	3.36 [1.56;7.24]	0.002	2.18 [0.90;5.29]	0.086	
Perforation	19 (5.69%)	11 (19.6%)	2.93 [1.51;5.67]	0.001	3.14 [1.43;6.91]	0.004	390
Invasion circumferential margin	24 (7.19%)	10 (17.9%)	2.08 [1.05;4.12]	0.036	1.71 [0.83;3.52]	0.147	390
Mesorrecto quality:							387
Partial	38 (11.5%)	8 (14.3%)	1.13 [0.53;2.43]	0.748	1.28 [0.58;2.85]	0.543	
No-satisfactory	25 (7.55%)	9 (16.1%)	1.74 [0.84;3.61]	0.134	0.87 [0.35;2.14]	0.764	

Reference categories:

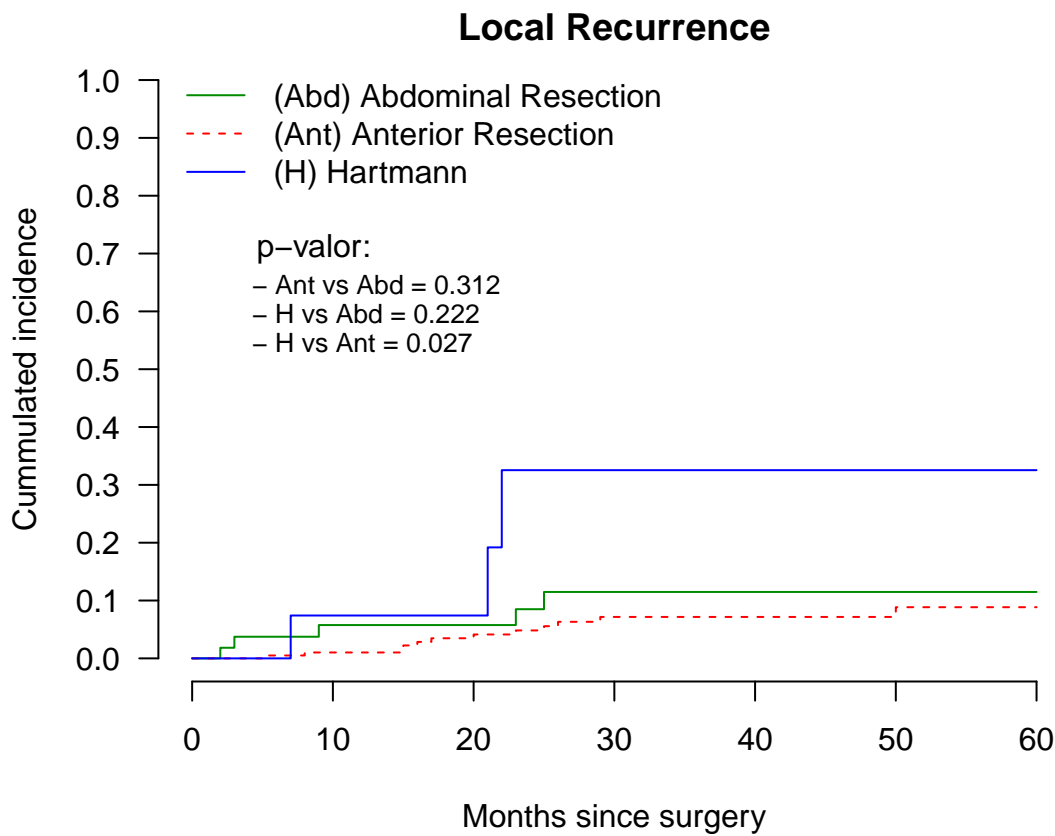
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorrecto Quality, Satisfactory

Figure 3: Exitus



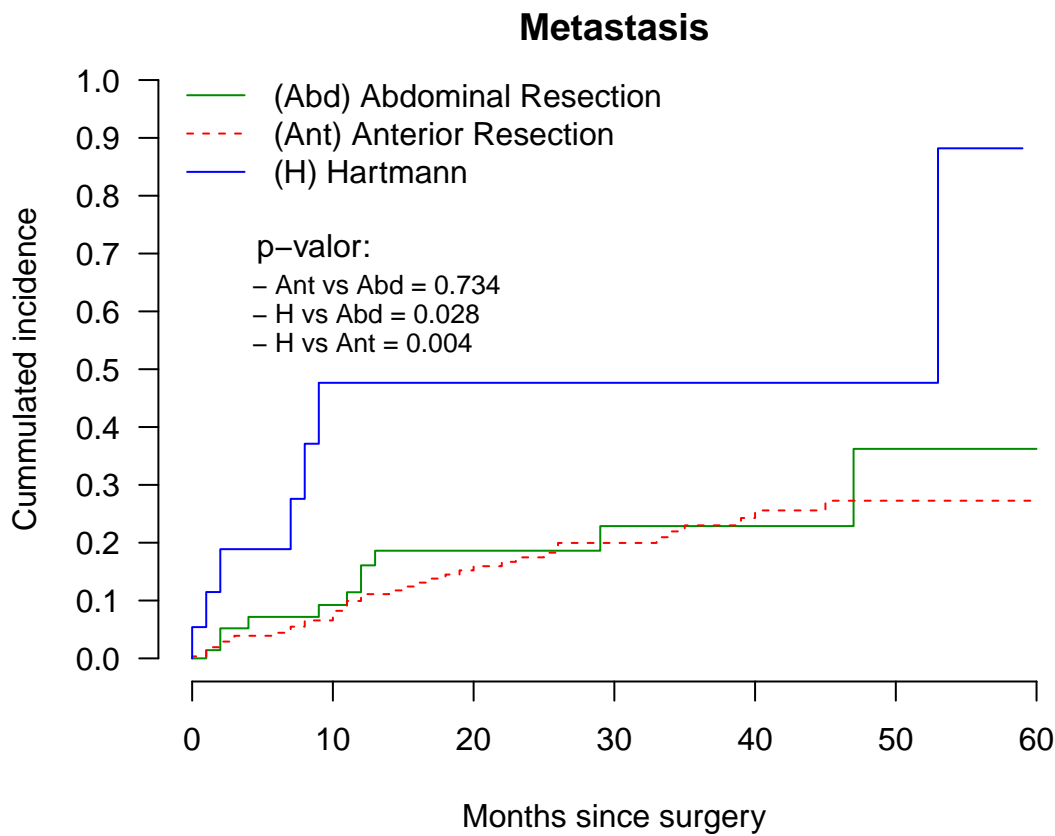
Months	0	12	24	36	48	60
N:	390	237	187	120	78	43

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



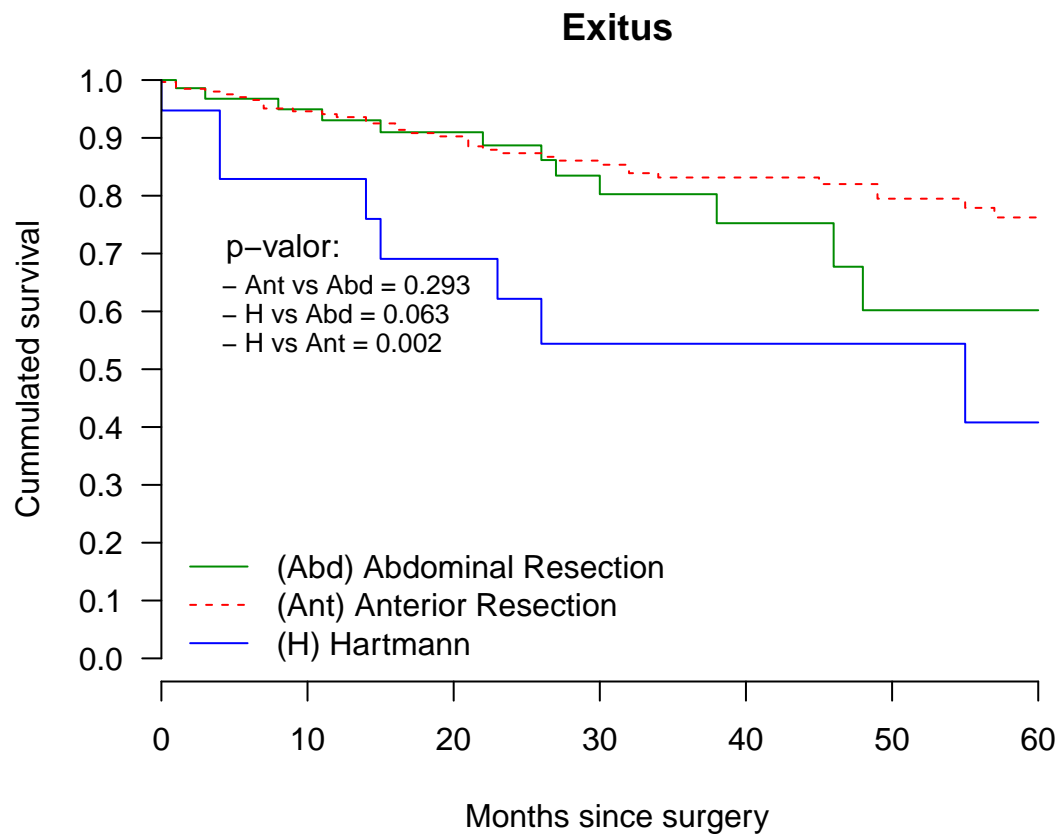
Tiempo	0	12	24	36	48	60
Abd	75	45	35	18	9	4
Ant	296	183	140	100	66	38
H	19	12	7	4	4	1

Figure 5: Metastasis, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	75	44	32	18	7	3
Ant	296	170	127	90	56	32
H	19	8	6	3	3	0

Figure 6: Survival, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	75	48	38	21	9	4
Ant	296	185	145	104	68	38
H	19	13	9	5	5	1

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	2.24 [4; 0.45]	12.82 [16.69; 8.78]	7.11 [10.03; 4.11]
24	6.52 [9.69; 3.24]	17.36 [21.88; 12.59]	13.87 [17.98; 9.56]
36	8.73 [12.46; 4.85]	21.49 [26.65; 15.97]	19.07 [23.96; 13.86]
48	8.73 [12.46; 4.85]	25.38 [31.43; 18.79]	22.55 [28.22; 16.44]
60	10.02 [14.42; 5.39]	26.76 [33.21; 19.69]	28.38 [35.38; 20.62]