

# WIKINGO Project Systematic Analysis

## Tables & Figures.

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Table 1: Participant characteristics

	[ALL] N=253	N
Age	69.9 (10.5)	253
Sex: Men	156 (61.7%)	253
Tumor level:		253
0-6cm	71 (28.1%)	
7-12cm	156 (61.7%)	
13-15cm	26 (10.3%)	
Tumor stage:		253
0	17 (6.72%)	
I	58 (22.9%)	
II	85 (33.6%)	
III	93 (36.8%)	
Neoadjuvant treatment	118 (46.6%)	253
Type of resection:		253
Abdominoperineal resection	49 (19.4%)	
Anterior resection	168 (66.4%)	
Hartmann	36 (14.2%)	
Perforation	8 (3.16%)	253
Invasion circumferential margin	24 (9.49%)	253
Mesorecto quality:		252
Satisfactory	227 (90.1%)	
Partial	21 (8.33%)	
No-satisfactory	4 (1.59%)	
Recidive	6 (2.37%)	253
Months to recidive	14.0 [4.00;29.0]	253
Metastasis	37 (14.6%)	253
Months to Metastasis	13.0 [3.00;26.0]	253
Exitus	30 (11.9%)	253
Months to exitus	14.0 [4.00;29.0]	253

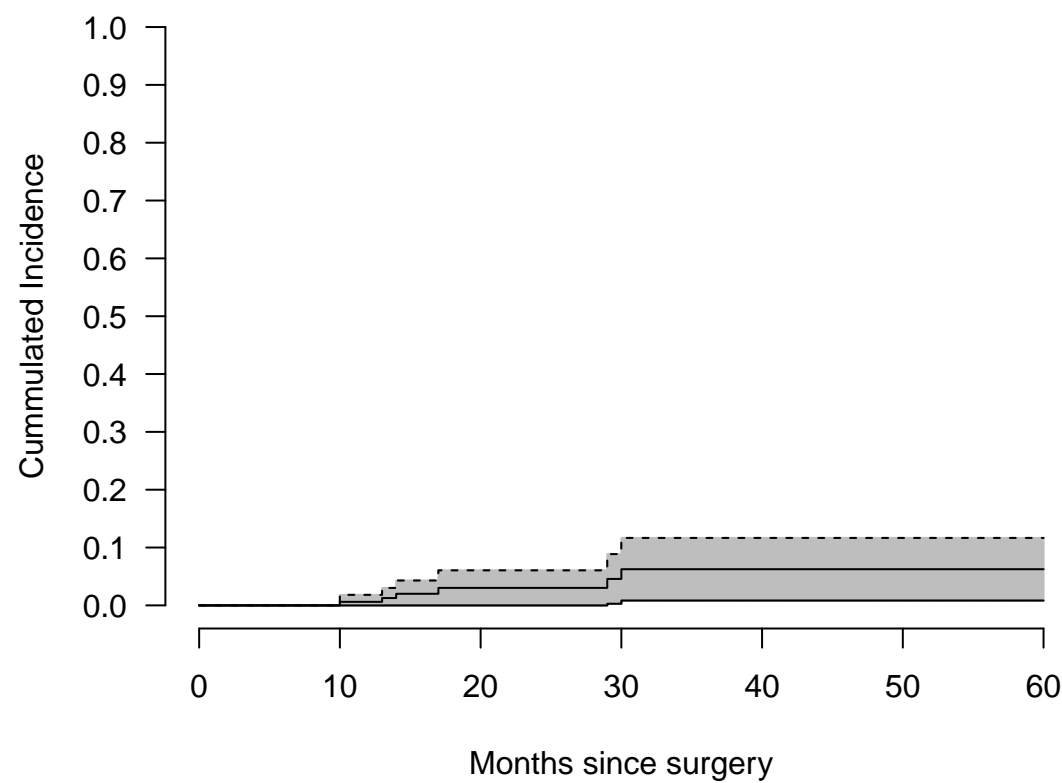
Table 2: According to Local Recurrence

	No event n= 247	Event n= 6	Crude HR	p-value	Multivariate HR	p-value
Age (10y)	7.01 (1.05)	6.47 (1.08)	0.70 [0.35;1.39]	0.306	0.74 [0.21; 2.59]	0.637
Sex: Men	151 (61.1%)	5 (83.3%)	3.35 [0.39;28.7]	0.270	1.91 [0.05; 67.54]	0.722
Tumor level:						
0-6cm	69 (27.9%)	2 (33.3%)	0.71 [0.06;7.89]	0.783	0.00 [0.00; Inf]	0.999
7-12cm	153 (61.9%)	3 (50.0%)	0.50 [0.05;4.77]	0.544	0.02 [0.00; 0.97]	0.048
Tumor stage:						
0	17 (6.88%)	0 (0.00%)	1.06 [0.00;.]	1.000	4.20 [0.00; Inf]	1
II	84 (34.0%)	1 (16.7%)	152951867 [0.00;.]	0.999	164724353.90 [0.00; Inf]	0.999
III	88 (35.6%)	5 (83.3%)	701657219 [0.00;.]	0.999	210087458.42 [0.00; Inf]	0.999
Neoadjuvant treatment	114 (46.2%)	4 (66.7%)	3.63 [0.66;19.9]	0.138	8.30 [0.46; 151.32]	0.153
Type of resection:						
Abdominoperineal resection	47 (19.0%)	2 (33.3%)	1.68 [0.31;9.20]	0.547	93177418.12 [0.00; Inf]	0.999
Hartmann	36 (14.6%)	0 (0.00%)	0.00 [0.00;.]	0.998	0.00 [0.00; Inf]	0.997
Perforation	8 (3.24%)	0 (0.00%)	0.00 [0.00;.]	0.999	0.00 [0.00; Inf]	1
Invasion circumferential margin	21 (8.50%)	3 (50.0%)	9.97 [2.00;49.6]	0.005	203.42 [6.82;6063.33]	0.002
Mesorrecto quality:						
Partial	20 (8.13%)	1 (16.7%)	2.86 [0.33;24.9]	0.340	3.75 [0.20; 70.25]	0.377
No-satisfactory	4 (1.63%)	0 (0.00%)	0.00 [0.00;.]	0.999	0.00 [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
- Mesorrecto Quality, Satisfactory

Figure 1: Local Recurrence



Months	0	12	24	36	48	60
N:	253	154	76	52	43	12

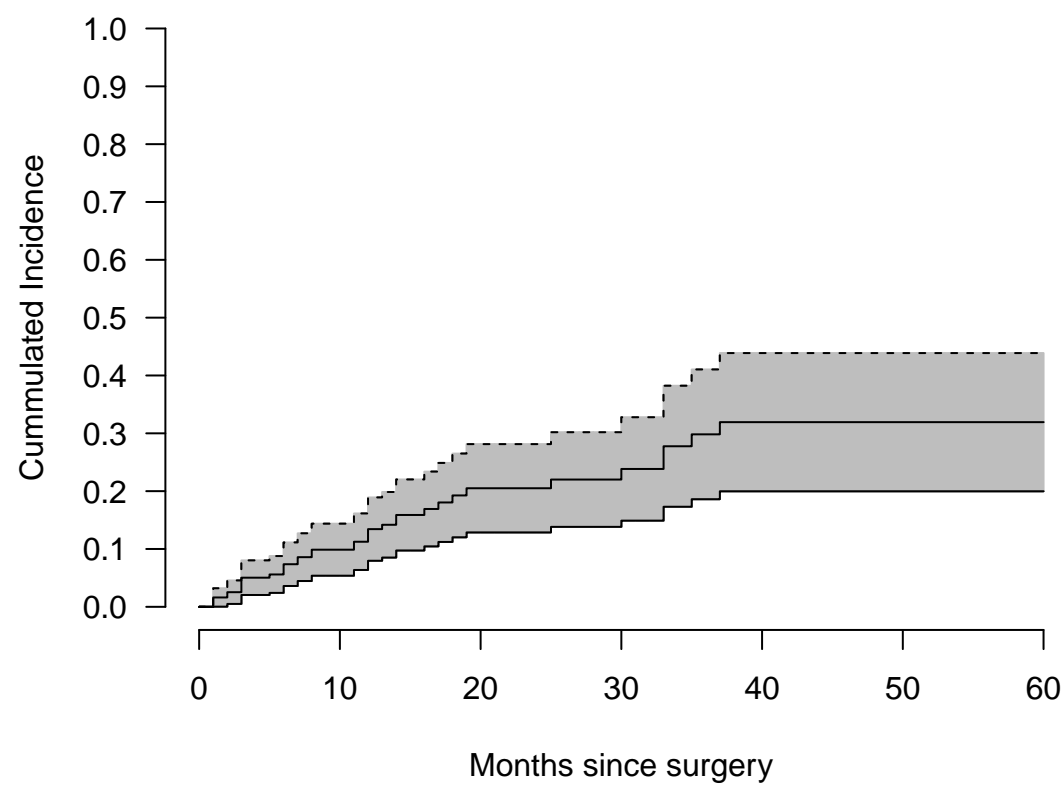
Table 3: According to Metastasis

	No event n= 216	Event n= 37	Crude HR	p-value	Multivariate HR	p-value
Age (10y)	6.98 (1.06)	7.09 (0.98)	1.18 [0.86;1.62]	0.307	1.38 [0.91; 2.10]	0.129
Sex: Men	133 (61.6%)	23 (62.2%)	1.08 [0.56;2.10]	0.816	1.22 [0.56; 2.66]	0.609
Tumor level:						
0-6cm	59 (27.3%)	12 (32.4%)	2.31 [0.52;10.3]	0.273	1.24 [0.16; 9.84]	0.842
7-12cm	133 (61.6%)	23 (62.2%)	2.00 [0.47;8.49]	0.347	0.97 [0.21; 4.50]	0.967
Tumor stage:						
0	17 (7.87%)	0 (0.00%)	1.06 [0.00;.]	1.000	0.62 [0.00; Inf]	1
II	72 (33.3%)	13 (35.1%)	265401604 [0.00;.]	0.997	120625997.76 [0.00; Inf]	0.996
III	69 (31.9%)	24 (64.9%)	457190463 [0.00;.]	0.997	185403806.16 [0.00; Inf]	0.996
Neoadjuvant treatment	97 (44.9%)	21 (56.8%)	2.14 [1.11;4.12]	0.023	2.71 [1.22; 5.99]	0.014
Type of resection:						
Abdominoperineal resection	39 (18.1%)	10 (27.0%)	1.74 [0.82;3.73]	0.151	1.16 [0.24; 5.72]	0.855
Hartmann	29 (13.4%)	7 (18.9%)	1.60 [0.68;3.79]	0.284	0.76 [0.27; 2.11]	0.594
Perforation	7 (3.24%)	1 (2.70%)	1.59 [0.22;11.6]	0.649	0.45 [0.05; 4.38]	0.488
Invasion circumferential margin	14 (6.48%)	10 (27.0%)	4.09 [1.98;8.48]	<0.001	3.19 [1.31; 7.79]	0.011
Mesorrecto quality:						
Partial	18 (8.37%)	3 (8.11%)	1.15 [0.35;3.78]	0.814	1.07 [0.31; 3.72]	0.912
No-satisfactory	3 (1.40%)	1 (2.70%)	1.53 [0.21;11.2]	0.678	1.11 [0.11;10.64]	0.931

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:	253	134	67	48	38	10

Table 4: According to Exitus

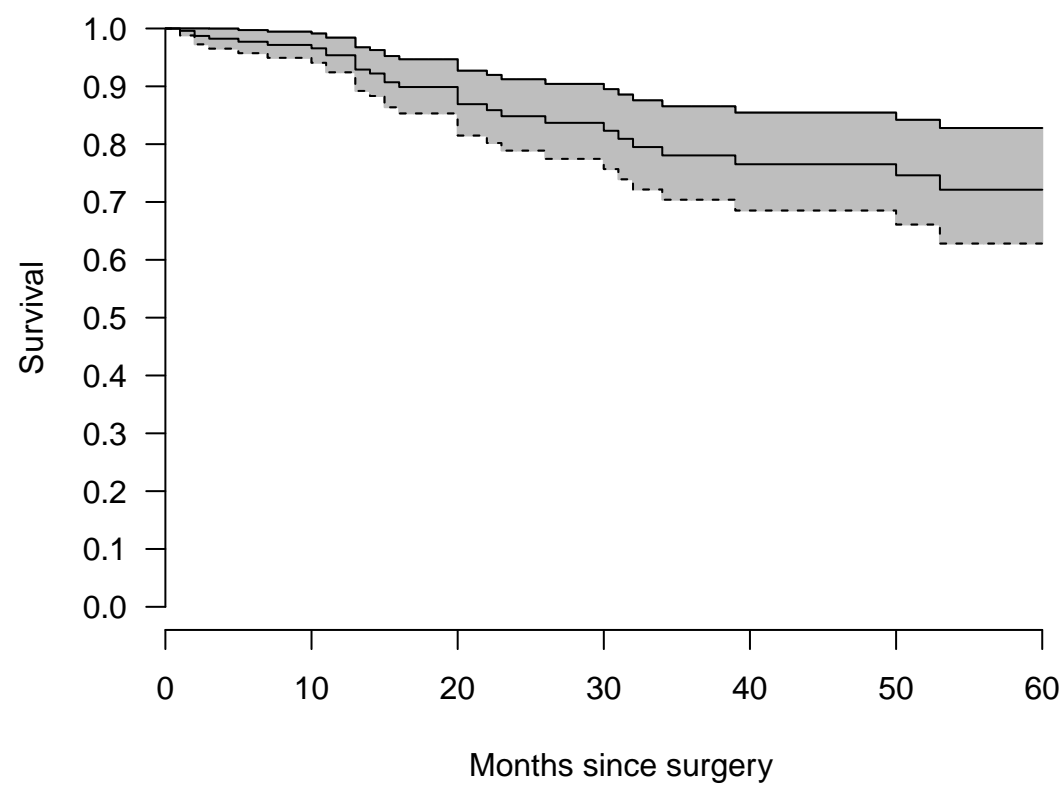
	No event n= 223	Event n= 30	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.92 (1.05)	7.55 (0.92)	1.95 [1.27;3.01]	0.002	2.44 [1.38; 4.32]	0.002	253
Sex: Men	139 (62.3%)	17 (56.7%)	0.84 [0.41;1.73]	0.640	1.51 [0.64; 3.56]	0.348	253
Tumor level:							253
0-6cm	61 (27.4%)	10 (33.3%)	1.74 [0.38;7.94]	0.476	2.58 [0.31;21.47]	0.38	
7-12cm	138 (61.9%)	18 (60.0%)	1.46 [0.34;6.31]	0.610	1.40 [0.28; 6.99]	0.684	
Tumor stage:							253
0	16 (7.17%)	1 (3.33%)	2.21 [0.24;20.1]	0.480	3.30 [0.28;38.76]	0.341	
II	76 (34.1%)	9 (30.0%)	1.82 [0.56;5.93]	0.320	1.21 [0.34; 4.33]	0.77	
III	77 (34.5%)	16 (53.3%)	3.17 [1.05;9.61]	0.041	2.93 [0.84;10.28]	0.093	
Neoadjuvant treatment	106 (47.5%)	12 (40.0%)	1.12 [0.54;2.34]	0.763	1.59 [0.62; 4.07]	0.336	253
Type of resection:							253
Abdominoperineal resection	41 (18.4%)	8 (26.7%)	1.67 [0.71;3.90]	0.238	0.72 [0.13; 3.98]	0.704	
Hartmann	30 (13.5%)	6 (20.0%)	1.49 [0.58;3.81]	0.408	0.37 [0.11; 1.21]	0.099	
Perforation	6 (2.69%)	2 (6.67%)	3.82 [0.91;16.1]	0.068	2.62 [0.31;21.96]	0.375	253
Invasion circumferential margin	15 (6.73%)	9 (30.0%)	4.36 [1.99;9.54]	<0.001	2.95 [0.98; 8.91]	0.055	253
Mesorrecto quality:							252
Partial	19 (8.56%)	2 (6.67%)	1.00 [0.24;4.23]	0.996	0.67 [0.15; 3.06]	0.609	
No-satisfactory	3 (1.35%)	1 (3.33%)	1.68 [0.23;12.4]	0.613	0.27 [0.02; 3.73]	0.329	

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

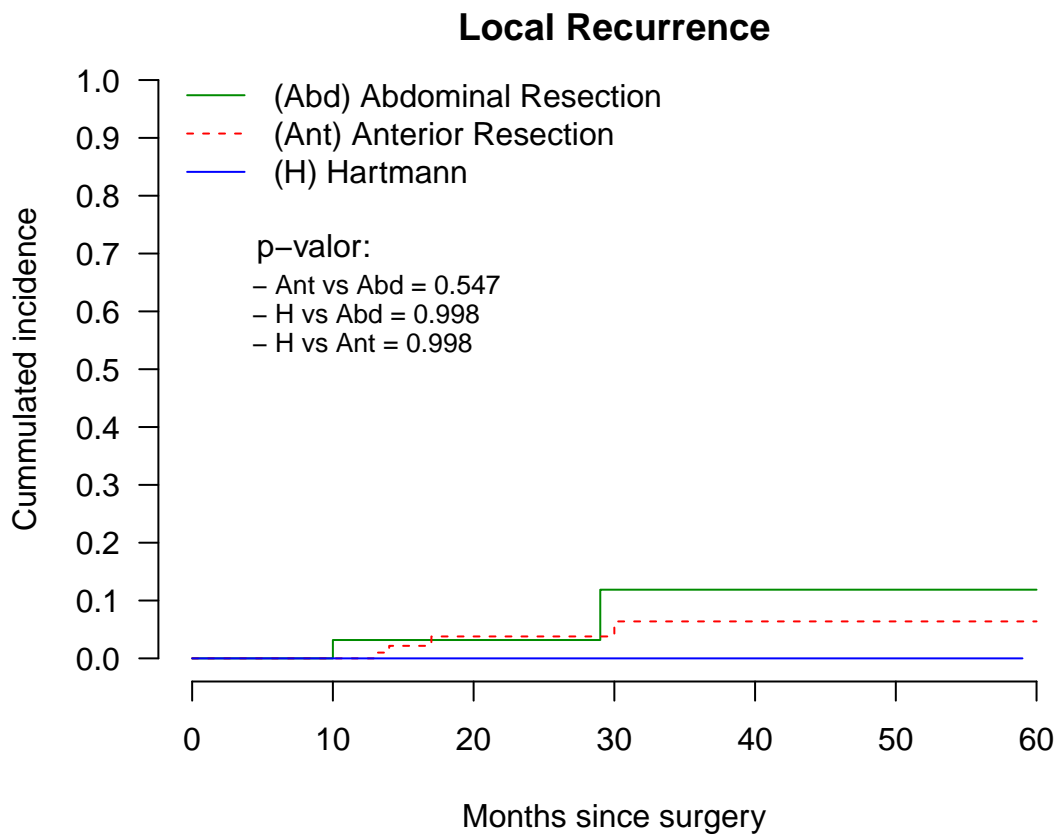


Figure 3: Exitus



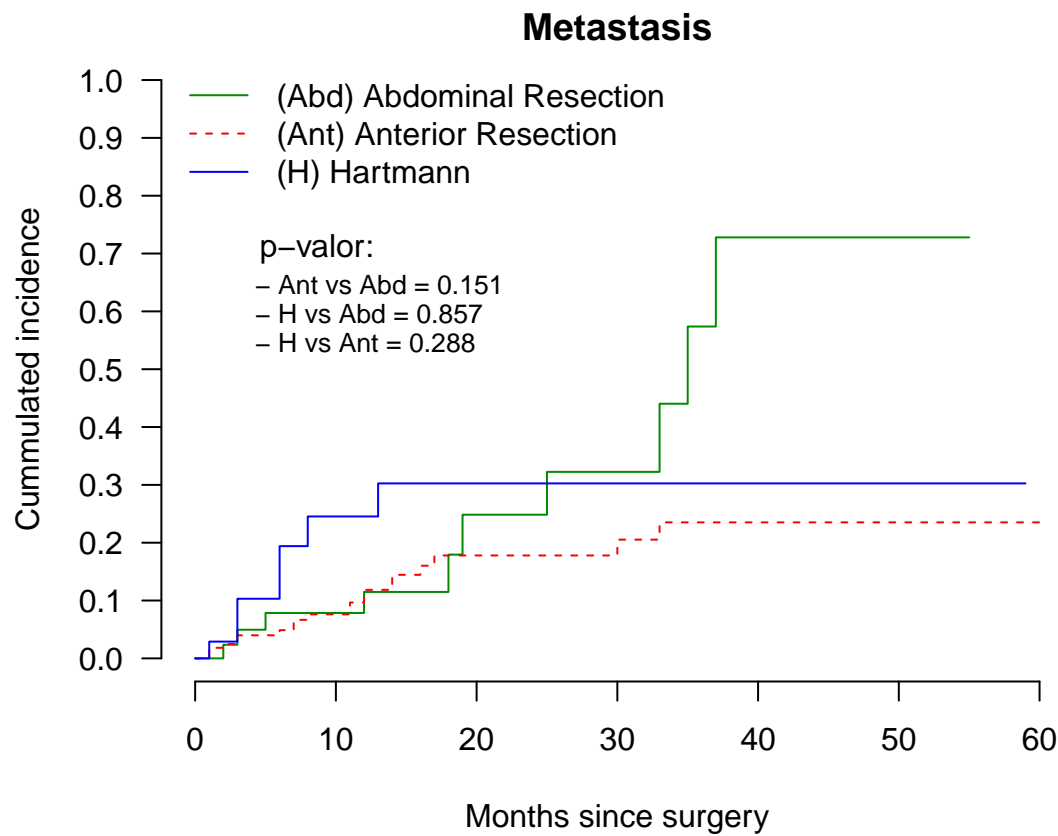
Months	0	12	24	36	48	60
N:	253	154	76	53	43	12

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



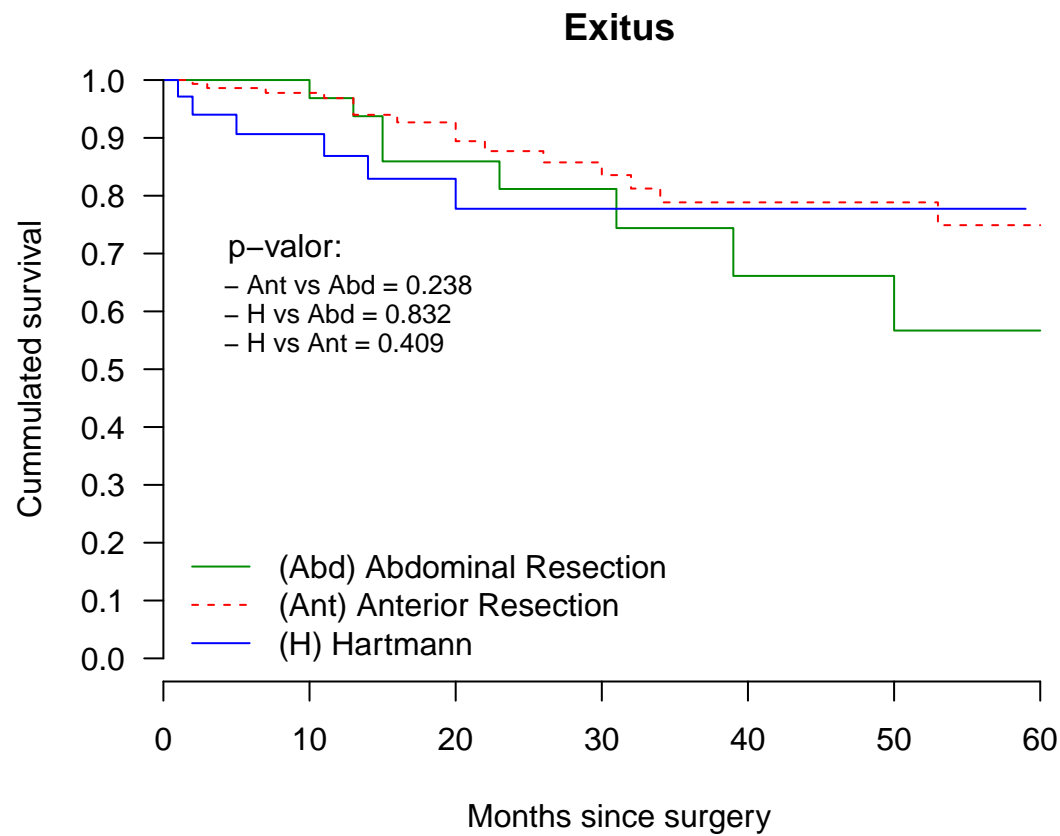
Tiempo	0	12	24	36	48	60
Abd	49	31	17	10	8	1
Ant	168	102	47	33	27	11
H	36	23	13	10	9	0

Figure 5: Metastasis, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	49	28	14	7	5	0
Ant	168	92	43	32	26	10
H	36	19	11	9	8	0

Figure 6: Survival, according to Type of Resection:



Tiempo	0	12	24	36	48	60
Abd	49	31	17	11	8	1
Ant	168	102	47	33	27	11
H	36	23	13	10	9	0

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	0.61 [1.79; 0]	12.57 [17.23; 7.65]	4.63 [7.56; 1.59]
24	2.98 [5.87; 0]	18.54 [24.52; 12.08]	15.17 [21.11; 8.78]
36	6.06 [11.01; 0.84]	25.79 [33.66; 16.98]	21.95 [29.6; 13.46]
48	6.06 [11.01; 0.84]	27.33 [35.52; 18.11]	23.48 [31.46; 14.56]
60	6.06 [11.01; 0.84]	27.33 [35.52; 18.11]	27.88 [37.17; 17.21]