WIKINGO Proyect
Systematic Analysis

Tables & Figures.

Proyecto Vikingo

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proyectovikingo@proyectovikingo.es

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Table 1: Participant characteristics

	[ALL] N=13876	N
Age	68.2 (26.1)	13876
Sex: Men	9106 (65.6%)	13876
Tumor level:		13876
0-6cm	5226 (37.7%)	
7-12cm	6963 (50.2%)	
13-15cm	1687 (12.2%)	
Tumor stage:		13876
0	1506 (10.9%)	
I	4058 (29.2%)	
II	4051 (29.2%)	
III	4261 (30.7%)	
Neoadjuvant treatment	8465 (61.0%)	13876
Type of resection:		13876
Abdominoperineal resection	3277 (23.6%)	
Anterior resection	9406 (67.8%)	
Hartmann	1193 (8.60%)	
Perforation	655 (4.72%)	13876
Invasion circumferential margin	1063 (7.66%)	13874
Mesorrecto quality:		13641
Satisfactory	10932 (80.1%)	
Partial	1831 (13.4%)	
No-satisfactory	878 (6.44%)	
Recidive	525 (3.78%)	13876
Months to recidive	19.0 [5.00;40.0]	13876
Metastasis	1618 (11.7%)	13876
Months to Metastasis	17.0 [5.00;38.0]	13876
Exitus	1950 (14.1%)	13876
Months to exitus	20.0 [5.00;41.0]	13876

Table 2: According to Local Recurrence

	No event n= 13351	Event n= 525	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.82 (2.65)	6.78 (1.23)	1.02 [1.00;1.05]	0.063	1.01 [0.94;1.08]	0.792	13876
Sex: Men	8748 (65.5%)	358 (68.2%)	1.14 [0.95;1.37]	0.167	1.18 [0.98;1.43]	0.074	13876
Tumor level:							13876
0-6cm	4984 (37.3%)	242 (46.1%)	1.78 [1.29;2.47]	<0.001	1.98 [1.36;2.89]	<0.001	
7-12cm	6723 (50.4%)	240 (45.7%)	1.34 [0.97;1.85]	0.077	1.44 [1.02;2.02]	0.038	
Tumor stage:							13876
0	1493 (11.2%)	13 (2.48%)	0.43 [0.24;0.77]	0.005	0.45 [0.25;0.81]	0.008	
II	3884 (29.1%)	167 (31.8%)	2.04 [1.57;2.65]	<0.001	1.66 [1.27;2.18]	<0.001	
III	3999 (30.0%)	262 (49.9%)	3.29 [2.57;4.21]	0.000	2.52 [1.95;3.26]	<0.001	
Neoadjuvant treatment	8156 (61.1%)	309 (58.9%)	0.90 [0.75;1.07]	0.213	0.97 [0.80;1.17]	0.757	13876
Type of resection:							13876
Abdominoperineal resection	3123 (23.4%)	154 (29.3%)	1.69 [1.38;2.05]	<0.001	0.95 [0.73;1.24]	0.69	
Hartmann	1102 (8.25%)	91 (17.3%)	3.43 [2.71;4.35]	0.000	2.15 [1.67;2.79]	<0.001	
Perforation	567 (4.25%)	88 (16.8%)	4.62 [3.68;5.81]	0.000	2.29 [1.76;2.97]	<0.001	13876
Invasion circumferential margin	925 (6.93%)	138 (26.3%)	4.51 [3.71;5.48]	0.000	2.49 [2.00;3.10]	<0.001	13874
Mesorrecto quality:							13641
Partial	1743 (13.3%)	88 (17.0%)	1.50 [1.18;1.89]	0.001	1.18 [0.93;1.49]	0.181	
No-satisfactory	798 (6.08%)	80 (15.5%)	3.00 [2.35;3.82]	0.000	1.57 [1.20;2.06]	0.001	

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
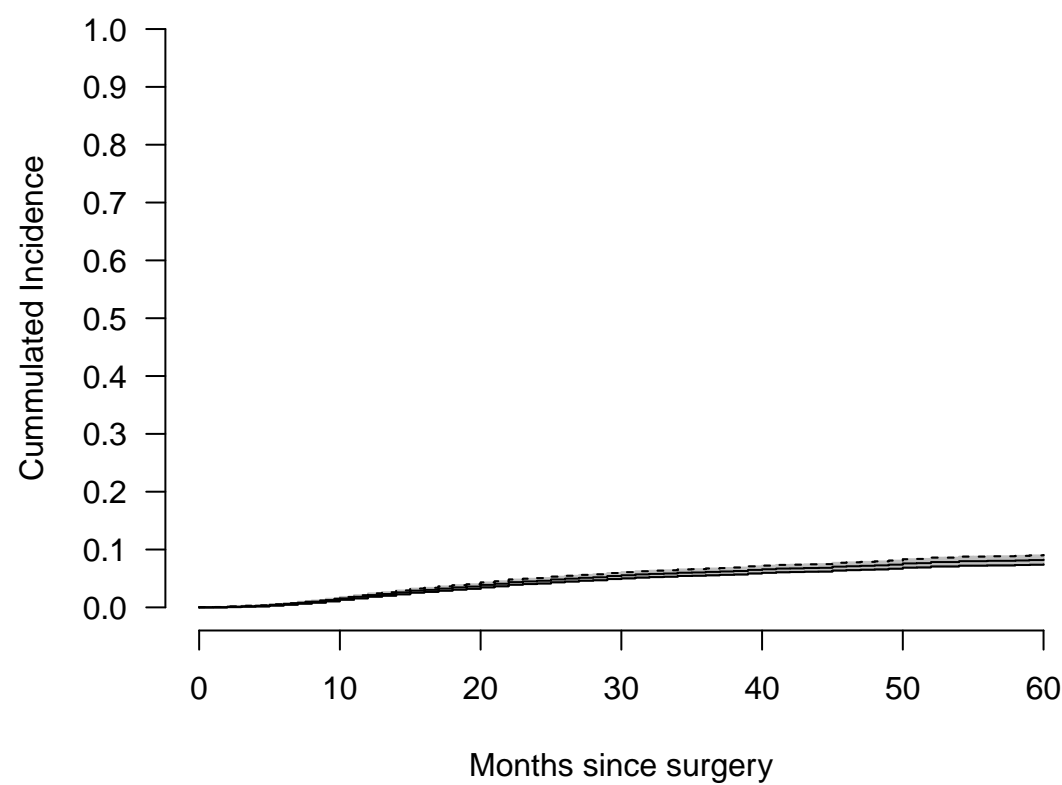
Months	0	12	24	36	48	60
N:	13876	8588	5890	3970	2460	1382

Table 3: According to Metastasis

	No event n= 12258	Event n= 1618	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.83 (2.74)	6.74 (1.15)	1.01 [0.99;1.03]	0.242	1.01 [0.99;1.04]	0.334	13876
Sex: Men	8028 (65.5%)	1078 (66.6%)	1.06 [0.95;1.17]	0.280	1.09 [0.98;1.21]	0.1	13876
Tumor level:							13876
0-6cm	4529 (36.9%)	697 (43.1%)	1.26 [1.07;1.49]	0.006	1.12 [0.91;1.37]	0.276	
7-12cm	6216 (50.7%)	747 (46.2%)	1.02 [0.87;1.21]	0.791	1.00 [0.84;1.20]	0.974	
Tumor stage:							13876
0	1458 (11.9%)	48 (2.97%)	0.62 [0.46;0.85]	0.003	0.55 [0.40;0.76]	<0.001	
II	3587 (29.3%)	464 (28.7%)	2.31 [1.96;2.72]	0.000	2.05 [1.74;2.42]	<0.001	
III	3365 (27.5%)	896 (55.4%)	4.79 [4.12;5.56]	0.000	4.25 [3.64;4.95]	<0.001	
Neoadjuvant treatment	7414 (60.5%)	1051 (65.0%)	1.18 [1.06;1.30]	0.002	1.37 [1.23;1.54]	<0.001	13876
Type of resection:							13876
Abdominoperineal resection	2807 (22.9%)	470 (29.0%)	1.48 [1.33;1.66]	<0.001	1.21 [1.04;1.41]	0.013	
Hartmann	1021 (8.33%)	172 (10.6%)	1.84 [1.56;2.16]	<0.001	1.52 [1.28;1.80]	<0.001	
Perforation	526 (4.29%)	129 (7.97%)	2.00 [1.67;2.39]	<0.001	1.22 [1.00;1.49]	0.046	13876
Invasion circumferential margin	761 (6.21%)	302 (18.7%)	3.01 [2.66;3.42]	0.000	1.82 [1.58;2.08]	<0.001	13874
Mesorrecto quality:							13641
Partial	1578 (13.1%)	253 (16.0%)	1.28 [1.11;1.46]	<0.001	1.10 [0.96;1.26]	0.187	
No-satisfactory	737 (6.11%)	141 (8.91%)	1.57 [1.32;1.87]	<0.001	1.09 [0.90;1.31]	0.38	

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
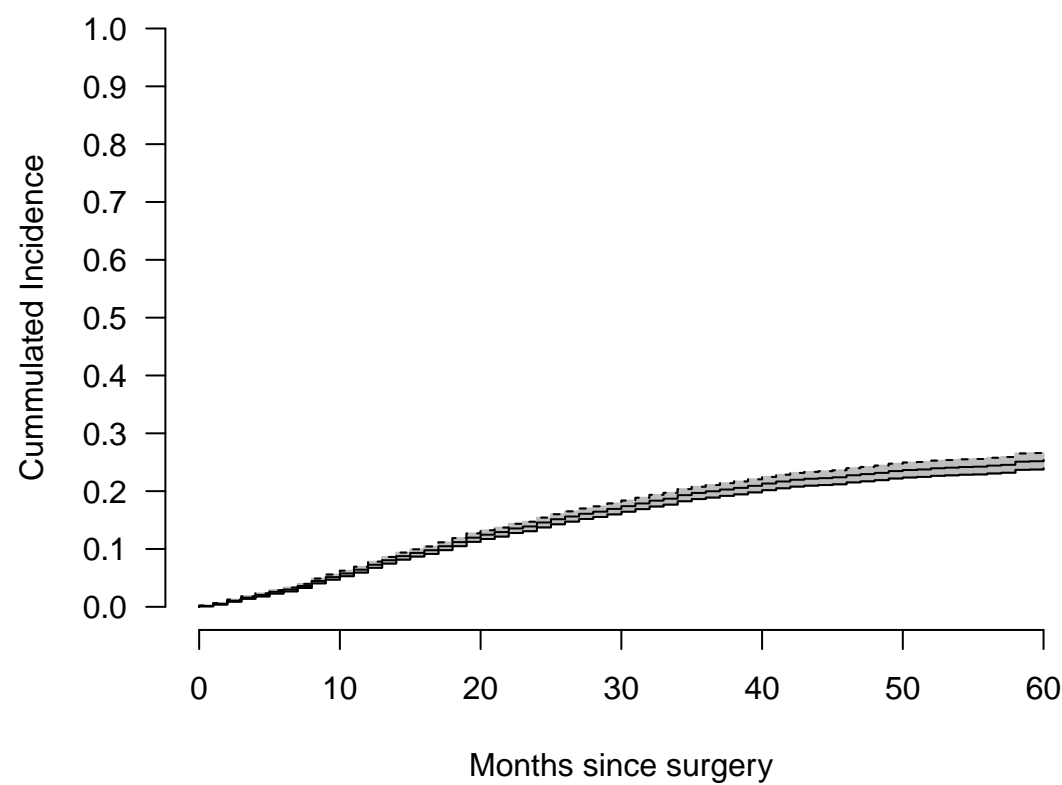
Months	0	12	24	36	48	60
N:	13876	8210	5490	3659	2268	1272

Table 4: According to Exitus

	No event n= 11926	Event n= 1950	Crude HR	p-value	Multivariate HR	p-value	N
Age (10y)	6.74 (2.77)	7.30 (1.08)	1.03 [1.02;1.03]	0.000	1.03 [1.03;1.04]	<0.001	13876
Sex: Men	7753 (65.0%)	1353 (69.4%)	1.20 [1.09;1.32]	<0.001	1.24 [1.13;1.37]	<0.001	13876
Tumor level:							13876
0-6cm	4408 (37.0%)	818 (41.9%)	1.40 [1.19;1.64]	<0.001	1.55 [1.28;1.87]	<0.001	
7-12cm	6015 (50.4%)	948 (48.6%)	1.24 [1.06;1.45]	0.008	1.42 [1.20;1.68]	<0.001	
Tumor stage:							13876
0	1440 (12.1%)	66 (3.38%)	0.45 [0.35;0.59]	<0.001	0.52 [0.40;0.68]	<0.001	
II	3488 (29.2%)	563 (28.9%)	1.42 [1.25;1.61]	<0.001	1.30 [1.14;1.48]	<0.001	
III	3343 (28.0%)	918 (47.1%)	2.36 [2.10;2.66]	0.000	2.09 [1.85;2.36]	<0.001	
Neoadjuvant treatment	7442 (62.4%)	1023 (52.5%)	0.69 [0.63;0.75]	<0.001	0.75 [0.68;0.83]	<0.001	13876
Type of resection:							13876
Abdominoperineal resection	2737 (22.9%)	540 (27.7%)	1.52 [1.37;1.68]	<0.001	1.30 [1.13;1.49]	<0.001	
Hartmann	872 (7.31%)	321 (16.5%)	3.04 [2.68;3.44]	0.000	2.41 [2.11;2.74]	<0.001	
Perforation	485 (4.07%)	170 (8.72%)	2.08 [1.78;2.44]	0.000	1.22 [1.03;1.44]	0.025	13876
Invasion circumferential margin	718 (6.02%)	345 (17.7%)	2.67 [2.38;3.00]	0.000	1.76 [1.55;2.00]	<0.001	13874
Mesorrecto quality:							13641
Partial	1488 (12.7%)	343 (18.0%)	1.47 [1.30;1.65]	<0.001	1.24 [1.10;1.40]	<0.001	
No-satisfactory	705 (6.01%)	173 (9.06%)	1.59 [1.36;1.86]	<0.001	1.09 [0.92;1.29]	0.332	

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
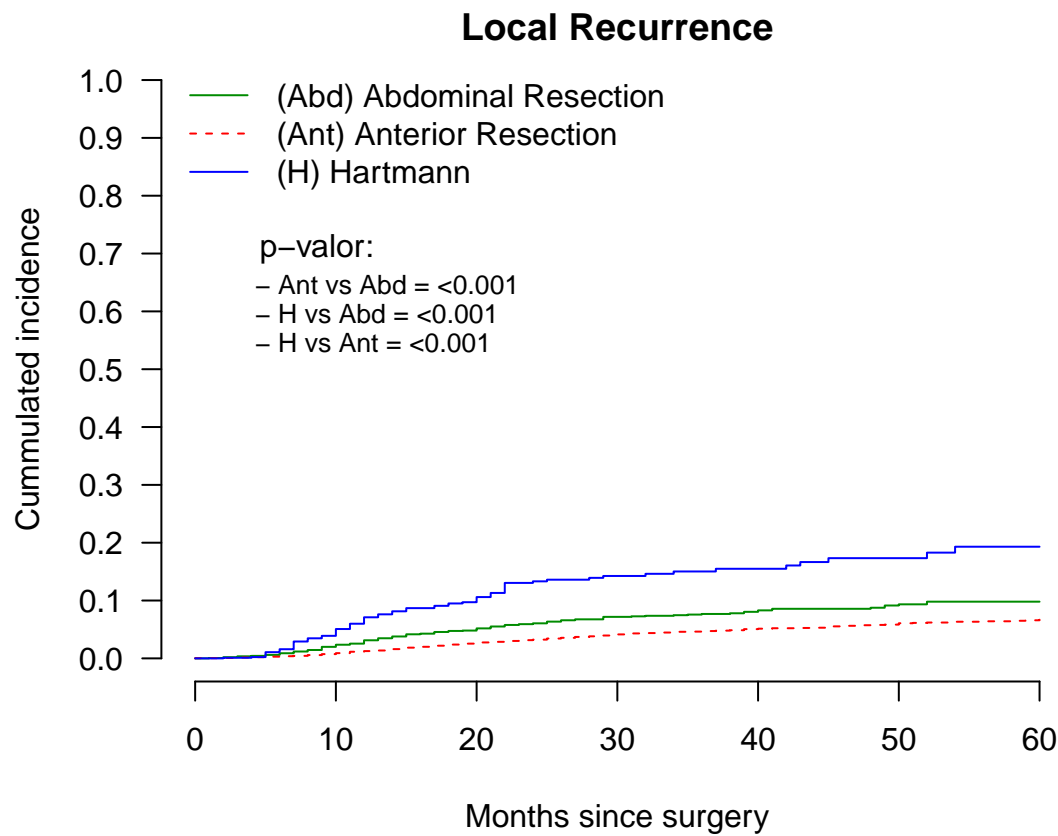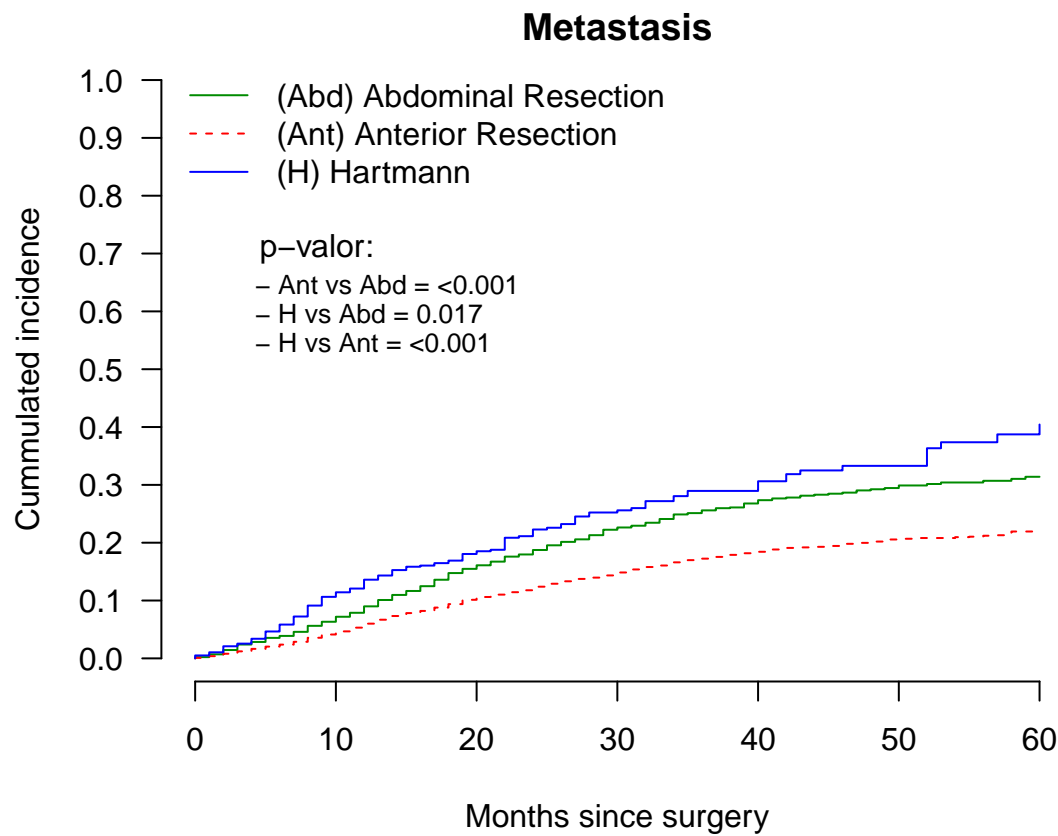- Mesorrecto Quality, Satisfactory

Figure 3: Exitus
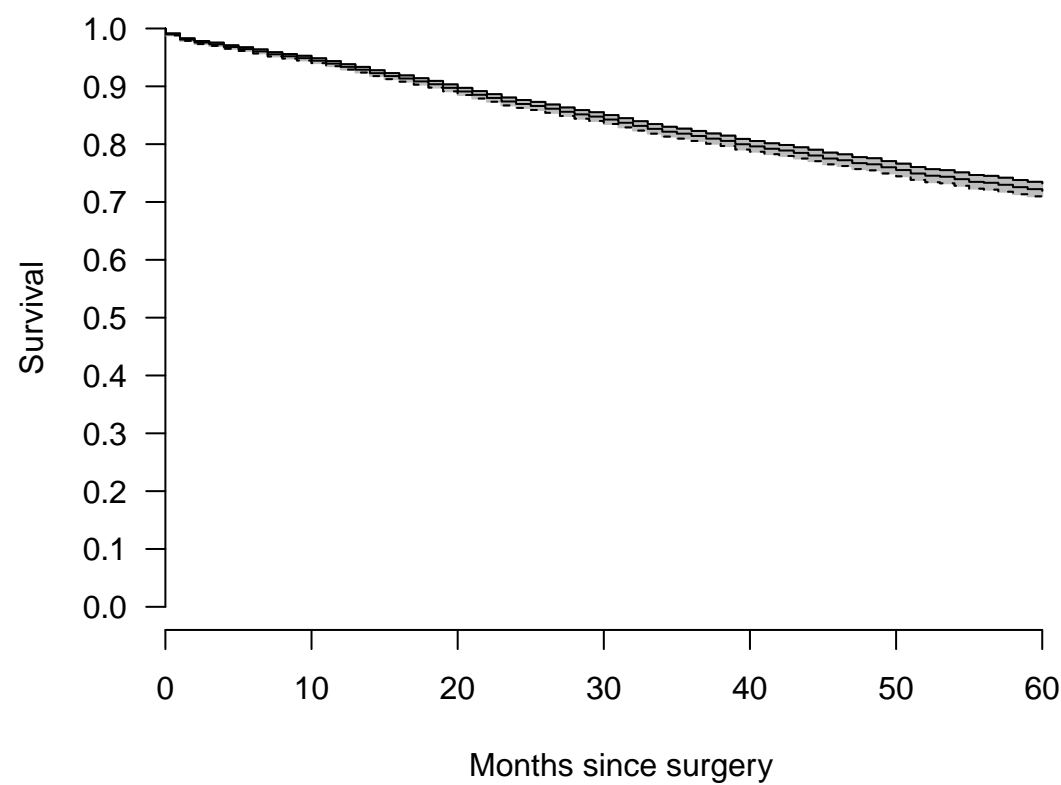
Months	0	12	24	36	48	60
N:	13876	8732	6058	4087	2519	1409

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

Local Recurrence

Tiempo	0	12	24	36	48	60
Abd	3277	2078	1408	921	551	277
Ant	9406	6167	4330	2991	1917	1041
H	1193	631	369	225	126	64

Figure 5: Metastasis, according to Type of Resection:

Metastasis

Tiempo	0	12	24	36	48	60
Abd	3277	1987	1299	843	501	253
Ant	9406	5943	4068	2765	1767	960
H	1193	592	349	211	116	59

Figure 6: Survival, according to Type of Resection:

Exitus

p-valor:
- Ant vs Abd = <0.001
- H vs Abd = <0.001
- H vs Ant = <0.001

—— (Abd) Abdominal Resection
- - - (Ant) Anterior Resection
—— (H) Hartmann

Months since surgery
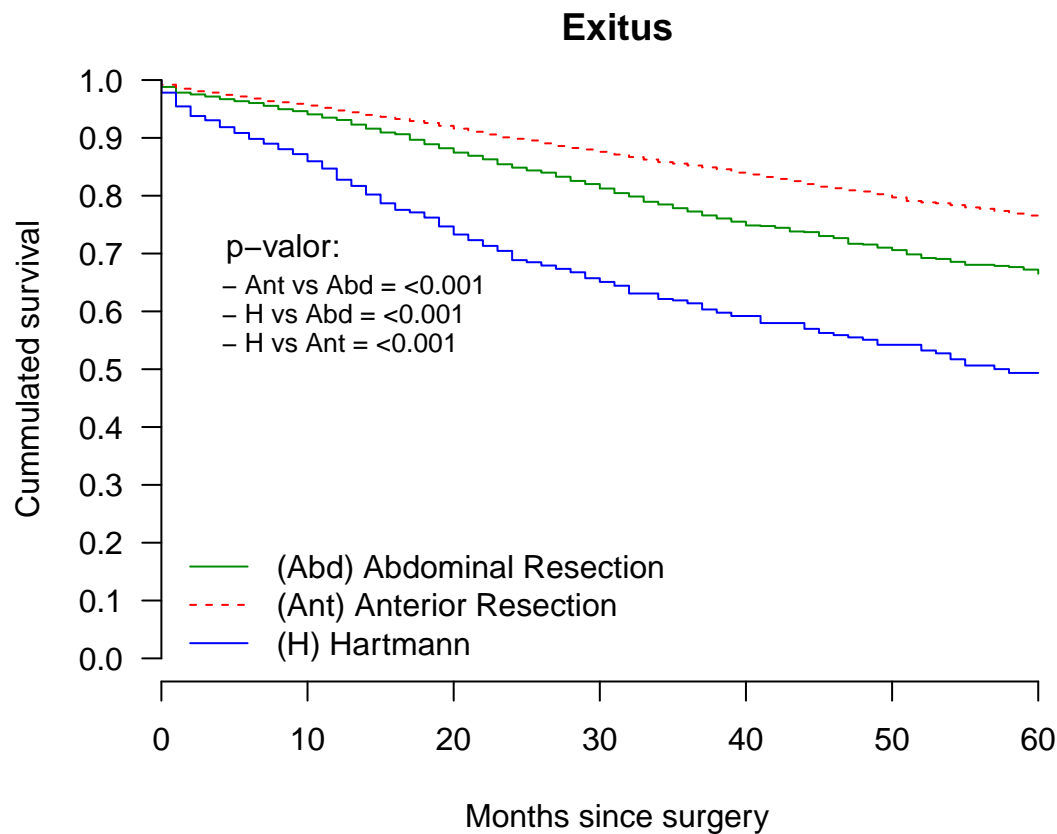
Tiempo	0	12	24	36	48	60
Abd	3277	2121	1462	952	562	284
Ant	9406	6231	4422	3065	1960	1060
H	1193	657	397	243	135	65

Table 5: Incidence by outcome [95% CI]

Months	Local Recurrence	Metastasis	Exitus
12	2.1 [2.39; 1.82]	7.01 [7.51; 6.52]	6.64 [7.09; 6.17]
24	4.5 [4.94; 4.06]	13.56 [14.28; 12.84]	13.05 [13.73; 12.37]
36	5.95 [6.49; 5.41]	18.11 [18.98; 17.23]	18.59 [19.45; 17.72]
48	7.01 [7.64; 6.37]	20.67 [21.66; 19.68]	23.48 [24.51; 22.44]
60	7.92 [8.67; 7.17]	22.44 [23.55; 21.31]	28.08 [29.33; 26.81]