

WIKINGO Project Systematic Analysis

Tables & Figures.

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September 29, 2016

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Table 1: Participant characteristics

| | [ALL] N=440 | N |
|---------------------------------|------------------|-----|
| Age | 72.6 (68.2) | 440 |
| Sex: Men | 294 (66.8%) | 440 |
| Tumor level: | | 440 |
| 0-6cm | 134 (30.5%) | |
| 7-12cm | 271 (61.6%) | |
| 13-15cm | 35 (7.95%) | |
| Tumor stage: | | 440 |
| 0 | 65 (14.8%) | |
| I | 132 (30.0%) | |
| II | 134 (30.5%) | |
| III | 109 (24.8%) | |
| Neoadjuvant treatment | 373 (84.8%) | 440 |
| Type of resection: | | 440 |
| Abdominoperineal resection | 108 (24.5%) | |
| Anterior resection | 272 (61.8%) | |
| Hartmann | 60 (13.6%) | |
| Perforation | 26 (5.91%) | 440 |
| Invasion circumferential margin | 18 (4.09%) | 440 |
| Mesorecto quality: | | 440 |
| Satisfactory | 369 (83.9%) | |
| Partial | 42 (9.55%) | |
| No-satisfactory | 29 (6.59%) | |
| Recidive | 12 (2.73%) | 440 |
| Months to recidive | 13.0 [1.00;30.0] | 440 |
| Metastasis | 58 (13.2%) | 440 |
| Months to Metastasis | 11.0 [1.00;26.0] | 440 |
| Exitus | 48 (10.9%) | 440 |
| Months to exitus | 13.0 [1.00;30.0] | 440 |

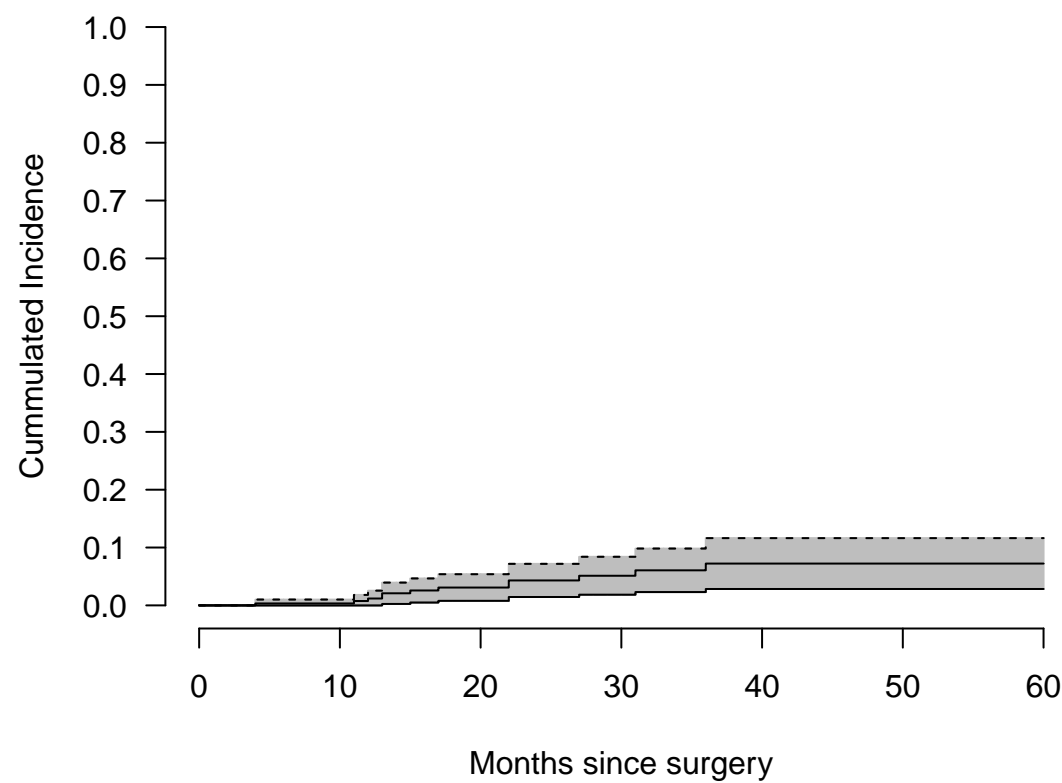
Table 2: According to Local Recurrence

| | No event n= 428 | Event n= 12 | Crude HR | p-value | Multivariate HR | p-value |
|---------------------------------|--------------------|----------------|-------------------|---------|--------------------------|---------|
| Age (10y) | 7.27 (6.91) | 6.70 (0.80) | 1.00 [0.60;1.69] | 0.986 | 0.82 [0.45; 1.49] | 0.517 |
| Sex: Men | 284 (66.4%) | 10 (83.3%) | 1.94 [0.43;8.87] | 0.391 | 1.84 [0.35; 9.69] | 0.474 |
| Tumor level: | | | | | | |
| 0-6cm | 132 (30.8%) | 2 (16.7%) | 14688537 [0.00;.] | 0.998 | 37290818.69 [0.00; Inf] | 0.999 |
| 7-12cm | 261 (61.0%) | 10 (83.3%) | 35125537 [0.00;.] | 0.998 | 244332922.51 [0.00; Inf] | 0.999 |
| Tumor stage: | | | | | | |
| 0 | 65 (15.2%) | 0 (0.00%) | 0.00 [0.00;.] | 0.998 | 0.00 [0.00; Inf] | 0.999 |
| II | 129 (30.1%) | 5 (41.7%) | 3.52 [0.68;18.2] | 0.132 | 2.97 [0.50; 17.54] | 0.23 |
| III | 104 (24.3%) | 5 (41.7%) | 3.90 [0.76;20.1] | 0.104 | 4.85 [0.89; 26.49] | 0.068 |
| Neoadjuvant treatment | 363 (84.8%) | 10 (83.3%) | 0.64 [0.14;2.91] | 0.560 | 0.45 [0.09; 2.33] | 0.343 |
| Type of resection: | | | | | | |
| Abdominoperineal resection | 105 (24.5%) | 3 (25.0%) | 2.00 [0.45;8.96] | 0.362 | 8.47 [0.63;112.98] | 0.106 |
| Hartmann | 55 (12.9%) | 5 (41.7%) | 7.43 [1.98;28.0] | 0.003 | 8.71 [1.68; 45.02] | 0.01 |
| Perforation | 24 (5.61%) | 2 (16.7%) | 3.85 [0.84;17.7] | 0.083 | 0.74 [0.07; 7.73] | 0.804 |
| Invasion circumferential margin | 17 (3.97%) | 1 (8.33%) | 3.85 [0.48;30.8] | 0.204 | 1.16 [0.10; 13.61] | 0.905 |
| Mesorrecto quality: | | | | | | |
| Partial | 42 (9.81%) | 0 (0.00%) | 0.00 [0.00;.] | 0.998 | 0.00 [0.00; Inf] | 0.999 |
| No-satisfactory | 27 (6.31%) | 2 (16.7%) | 7.76 [1.62;37.1] | 0.010 | 2.76 [0.23; 33.81] | 0.427 |

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: | 440 | 223 | 138 | 79 | 37 | 12 |

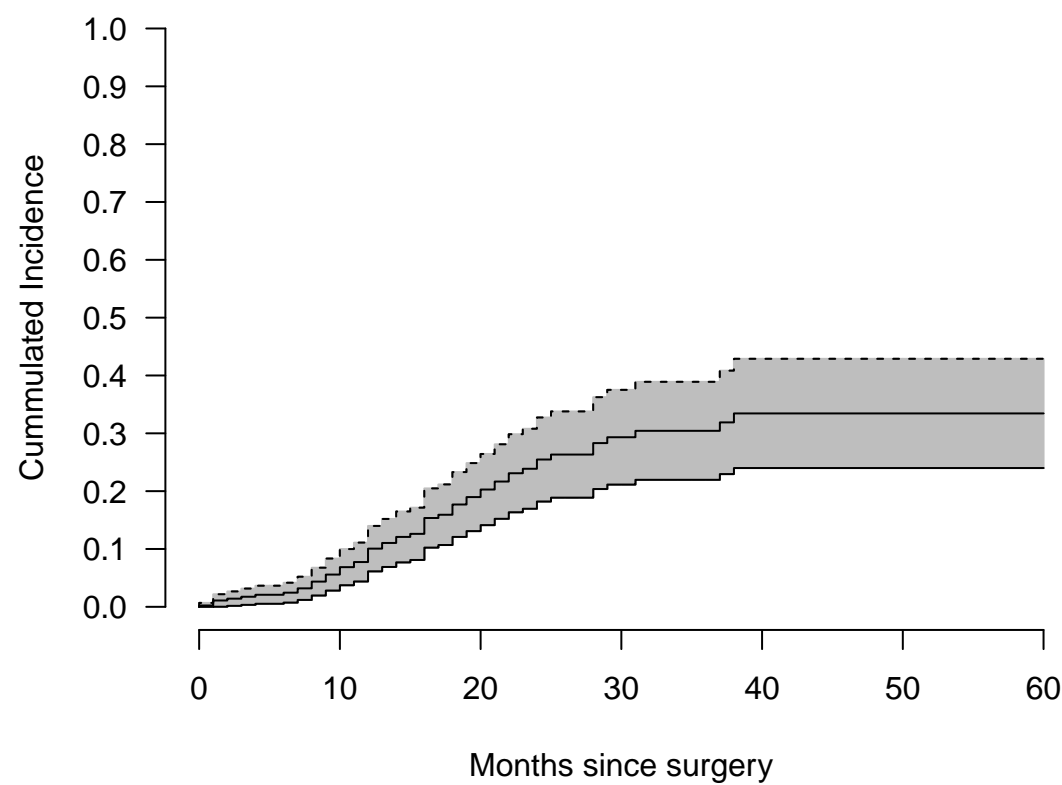
Table 3: According to Metastasis

| | No event n= 382 | Event n= 58 | Crude HR | p-value | Multivariate HR | p-value | N |
|---------------------------------|--------------------|----------------|------------------|---------|--------------------|---------|-----|
| Age (10y) | 7.32 (7.31) | 6.82 (0.99) | 1.02 [0.94;1.12] | 0.586 | 1.03 [0.96;1.11] | 0.401 | 440 |
| Sex: Men | 250 (65.4%) | 44 (75.9%) | 1.32 [0.72;2.40] | 0.371 | 1.34 [0.72;2.49] | 0.354 | 440 |
| Tumor level: | | | | | | | 440 |
| 0-6cm | 119 (31.2%) | 15 (25.9%) | 0.80 [0.26;2.41] | 0.688 | 0.57 [0.13;2.61] | 0.471 | |
| 7-12cm | 232 (60.7%) | 39 (67.2%) | 0.99 [0.35;2.77] | 0.986 | 1.11 [0.37;3.37] | 0.848 | |
| Tumor stage: | | | | | | | 440 |
| 0 | 64 (16.8%) | 1 (1.72%) | 0.17 [0.02;1.29] | 0.087 | 0.17 [0.02;1.36] | 0.095 | |
| II | 118 (30.9%) | 16 (27.6%) | 1.92 [0.91;4.07] | 0.087 | 1.78 [0.81;3.92] | 0.154 | |
| III | 80 (20.9%) | 29 (50.0%) | 4.15 [2.12;8.15] | <0.001 | 4.39 [2.20;8.77] | <0.001 | |
| Neoadjuvant treatment | 319 (83.5%) | 54 (93.1%) | 1.95 [0.71;5.39] | 0.197 | 2.12 [0.75;5.99] | 0.156 | 440 |
| Type of resection: | | | | | | | 440 |
| Abdominoperineal resection | 93 (24.3%) | 15 (25.9%) | 1.18 [0.64;2.17] | 0.590 | 1.72 [0.58;5.12] | 0.333 | |
| Hartmann | 51 (13.4%) | 9 (15.5%) | 1.53 [0.73;3.19] | 0.257 | 1.07 [0.47;2.43] | 0.874 | |
| Perforation | 19 (4.97%) | 7 (12.1%) | 3.20 [1.45;7.08] | 0.004 | 2.73 [0.94;7.90] | 0.064 | 440 |
| Invasion circumferential margin | 13 (3.40%) | 5 (8.62%) | 5.32 [2.09;13.5] | <0.001 | 3.30 [1.09;9.96] | 0.034 | 440 |
| Mesorrecto quality: | | | | | | | 440 |
| Partial | 40 (10.5%) | 2 (3.45%) | 0.67 [0.16;2.75] | 0.577 | 0.53 [0.12;2.36] | 0.408 | |
| No-satisfactory | 25 (6.54%) | 4 (6.90%) | 2.83 [1.01;7.93] | 0.048 | 0.63 [0.16;2.46] | 0.504 | |

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: | 440 | 205 | 117 | 69 | 33 | 11 |

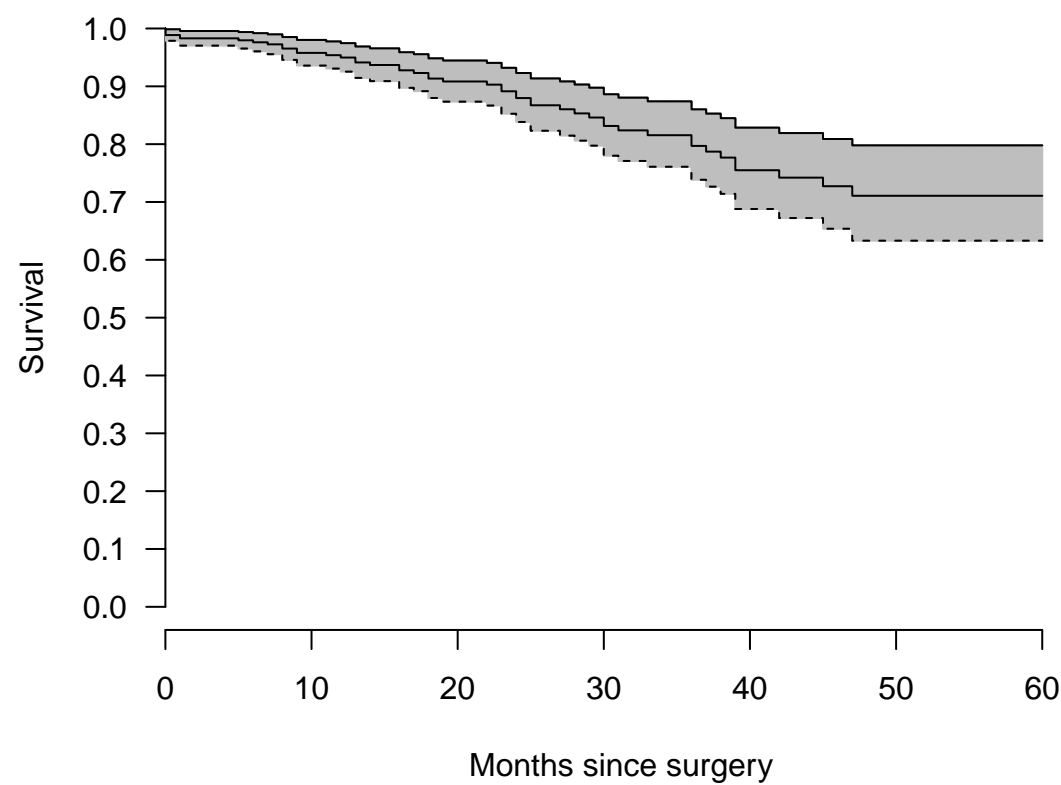
Table 4: According to Exitus

| | No event n= 392 | Event n= 48 | Crude HR | p-value | Multivariate HR | p-value | N |
|---------------------------------|--------------------|----------------|------------------|---------|--------------------|---------|-----|
| Age (10y) | 7.28 (7.21) | 7.06 (1.11) | 1.02 [0.97;1.07] | 0.380 | 1.02 [0.97; 1.08] | 0.452 | 440 |
| Sex: Men | 257 (65.6%) | 37 (77.1%) | 1.35 [0.69;2.64] | 0.386 | 1.26 [0.63; 2.53] | 0.51 | 440 |
| Tumor level: | | | | | | | 440 |
| 0-6cm | 124 (31.6%) | 10 (20.8%) | 2.11 [0.27;16.5] | 0.476 | 1.61 [0.14;18.14] | 0.702 | |
| 7-12cm | 234 (59.7%) | 37 (77.1%) | 4.11 [0.56;29.9] | 0.164 | 5.65 [0.70;45.90] | 0.105 | |
| Tumor stage: | | | | | | | 440 |
| 0 | 62 (15.8%) | 3 (6.25%) | 0.47 [0.13;1.63] | 0.232 | 0.54 [0.15; 1.93] | 0.341 | |
| II | 121 (30.9%) | 13 (27.1%) | 1.37 [0.63;2.95] | 0.426 | 1.19 [0.53; 2.66] | 0.677 | |
| III | 90 (23.0%) | 19 (39.6%) | 2.23 [1.10;4.51] | 0.026 | 2.25 [1.10; 4.61] | 0.027 | |
| Neoadjuvant treatment | 330 (84.2%) | 43 (89.6%) | 1.15 [0.46;2.91] | 0.765 | 0.99 [0.38; 2.56] | 0.982 | 440 |
| Type of resection: | | | | | | | 440 |
| Abdominoperineal resection | 97 (24.7%) | 11 (22.9%) | 1.16 [0.57;2.38] | 0.681 | 2.44 [0.71; 8.47] | 0.158 | |
| Hartmann | 47 (12.0%) | 13 (27.1%) | 3.40 [1.72;6.73] | <0.001 | 2.53 [1.20; 5.35] | 0.015 | |
| Perforation | 19 (4.85%) | 7 (14.6%) | 3.31 [1.48;7.40] | 0.004 | 1.72 [0.60; 4.89] | 0.312 | 440 |
| Invasion circumferential margin | 15 (3.83%) | 3 (6.25%) | 3.30 [1.00;10.9] | 0.050 | 1.66 [0.40; 6.88] | 0.484 | 440 |
| Mesorecto quality: | | | | | | | 440 |
| Partial | 41 (10.5%) | 1 (2.08%) | 0.40 [0.05;2.88] | 0.360 | 0.34 [0.05; 2.58] | 0.298 | |
| No-satisfactory | 24 (6.12%) | 5 (10.4%) | 4.30 [1.64;11.2] | 0.003 | 1.81 [0.49; 6.74] | 0.374 | |

Reference categories:

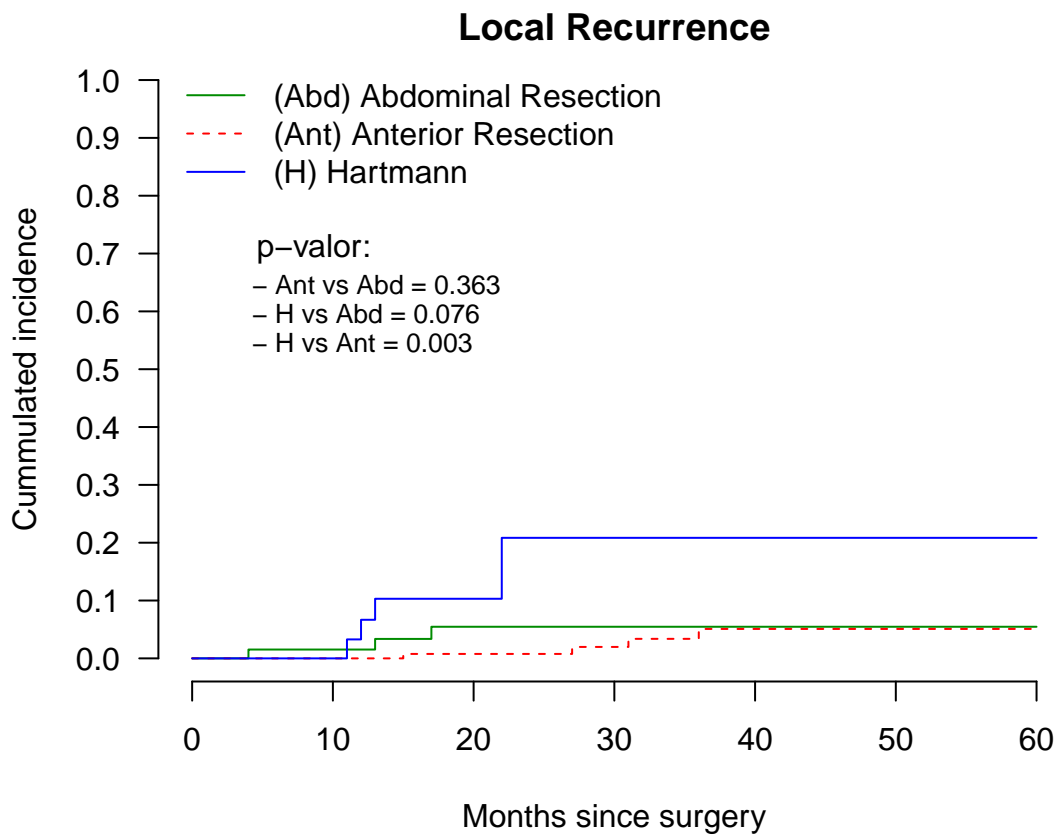
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorecto Quality, Satisfactory

Figure 3: Exitus



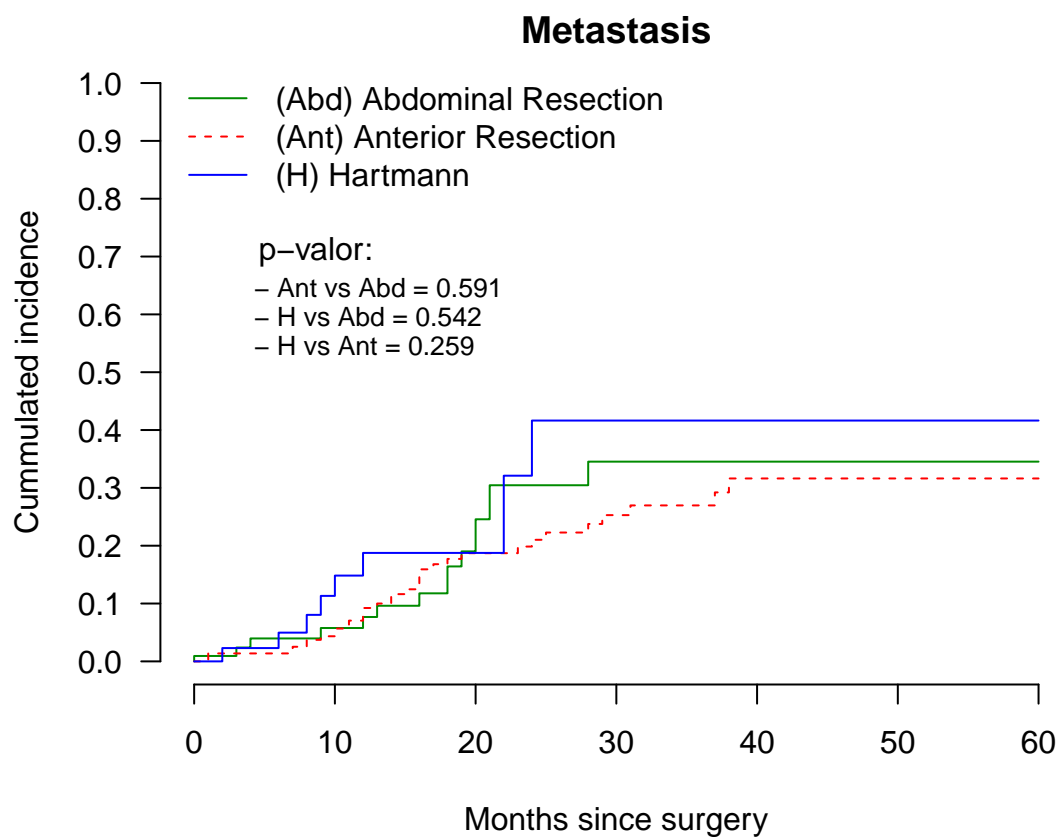
| | | | | | | |
|--------|-----|-----|-----|----|----|----|
| Months | 0 | 12 | 24 | 36 | 48 | 60 |
| N: | 440 | 224 | 141 | 81 | 37 | 12 |

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



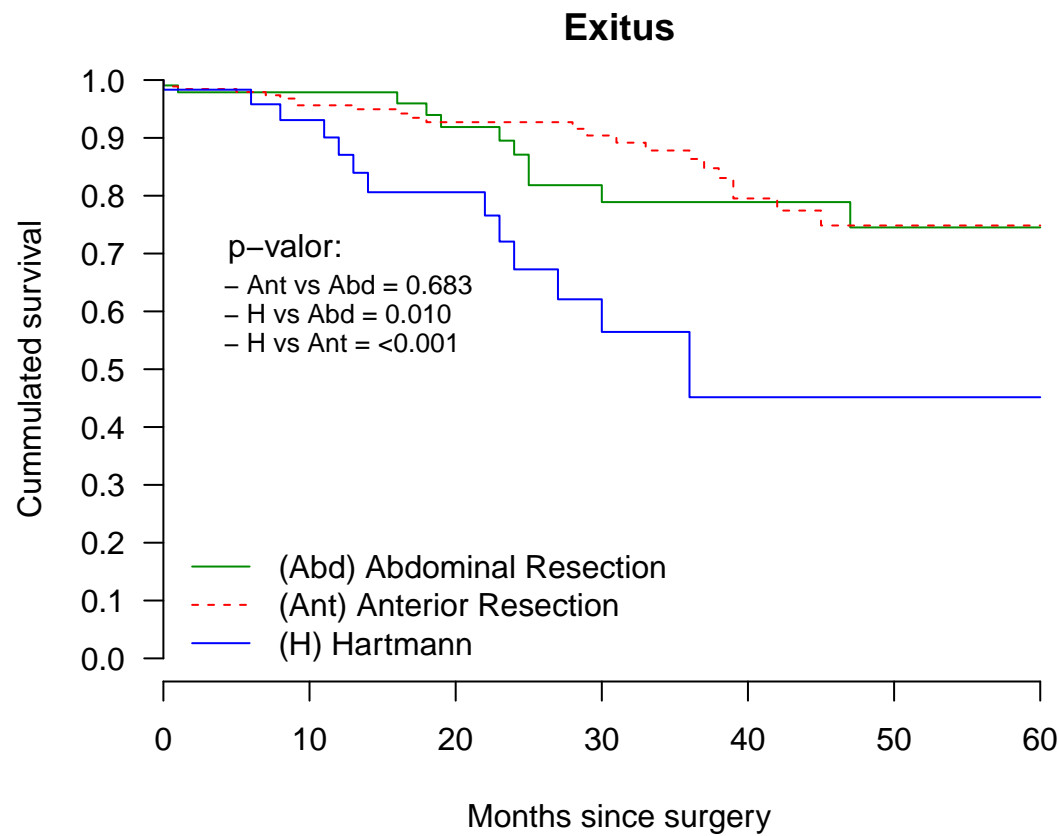
| | | | | | | |
|--------|-----|-----|----|----|----|----|
| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
| Abd | 108 | 55 | 35 | 23 | 16 | 7 |
| Ant | 272 | 147 | 99 | 59 | 23 | 4 |
| H | 60 | 30 | 14 | 4 | 2 | 1 |

Figure 5: Metastasis, according to Type of Resection:



| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
|--------|-----|-----|----|----|----|----|
| Abd | 108 | 53 | 29 | 20 | 14 | 6 |
| Ant | 272 | 139 | 86 | 49 | 21 | 4 |
| H | 60 | 26 | 11 | 4 | 2 | 1 |

Figure 6: Survival, according to Type of Resection:



| | | | | | | |
|--------|-----|-----|-----|----|----|----|
| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
| Abd | 108 | 56 | 37 | 23 | 16 | 7 |
| Ant | 272 | 147 | 100 | 60 | 23 | 4 |
| H | 60 | 30 | 15 | 5 | 2 | 1 |

Table 5: Incidence by outcome [95% CI]

| Months | Local Recurrence | Metastasis | Exitus |
|--------|--------------------|----------------------|----------------------|
| 12 | 1.18 [2.5; 0] | 9.57 [13.05; 5.96] | 5.02 [7.45; 2.53] |
| 24 | 4.22 [6.92; 1.44] | 22.49 [27.91; 16.65] | 12.03 [16.16; 7.7] |
| 36 | 6.97 [10.98; 2.79] | 26.24 [32.22; 19.72] | 20.3 [26.15; 13.99] |
| 48 | 6.97 [10.98; 2.79] | 28.42 [34.87; 21.34] | 28.93 [36.69; 20.22] |
| 60 | 6.97 [10.98; 2.79] | 28.42 [34.87; 21.34] | 28.93 [36.69; 20.22] |