

WIKINGO Project Systematic Analysis

Tables & Figures.

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Table 1: Participant characteristics

| | [ALL] N=168 | N |
|---------------------------------|------------------|-----|
| Age | 64.7 (11.8) | 168 |
| Sex: Men | 107 (63.7%) | 168 |
| Tumor level: | | 168 |
| 0-6cm | 75 (44.6%) | |
| 7-12cm | 84 (50.0%) | |
| 13-15cm | 9 (5.36%) | |
| Tumor stage: | | 168 |
| 0 | 25 (14.9%) | |
| I | 59 (35.1%) | |
| II | 44 (26.2%) | |
| III | 40 (23.8%) | |
| Neoadjuvant treatment | 130 (77.4%) | 168 |
| Type of resection: | | 168 |
| Abdominoperineal resection | 38 (22.6%) | |
| Anterior resection | 122 (72.6%) | |
| Hartmann | 8 (4.76%) | |
| Perforation | 1 (0.60%) | 168 |
| Invasion circumferential margin | 10 (5.95%) | 168 |
| Mesorecto quality: | | 153 |
| Satisfactory | 133 (86.9%) | |
| Partial | 15 (9.80%) | |
| No-satisfactory | 5 (3.27%) | |
| Recidive | 5 (2.98%) | 168 |
| Months to recidive | 54.0 [34.8;60.0] | 168 |
| Metastasis | 19 (11.3%) | 168 |
| Months to Metastasis | 53.5 [31.8;60.0] | 168 |
| Exitus | 30 (17.9%) | 168 |
| Months to exitus | 55.0 [35.0;60.0] | 168 |

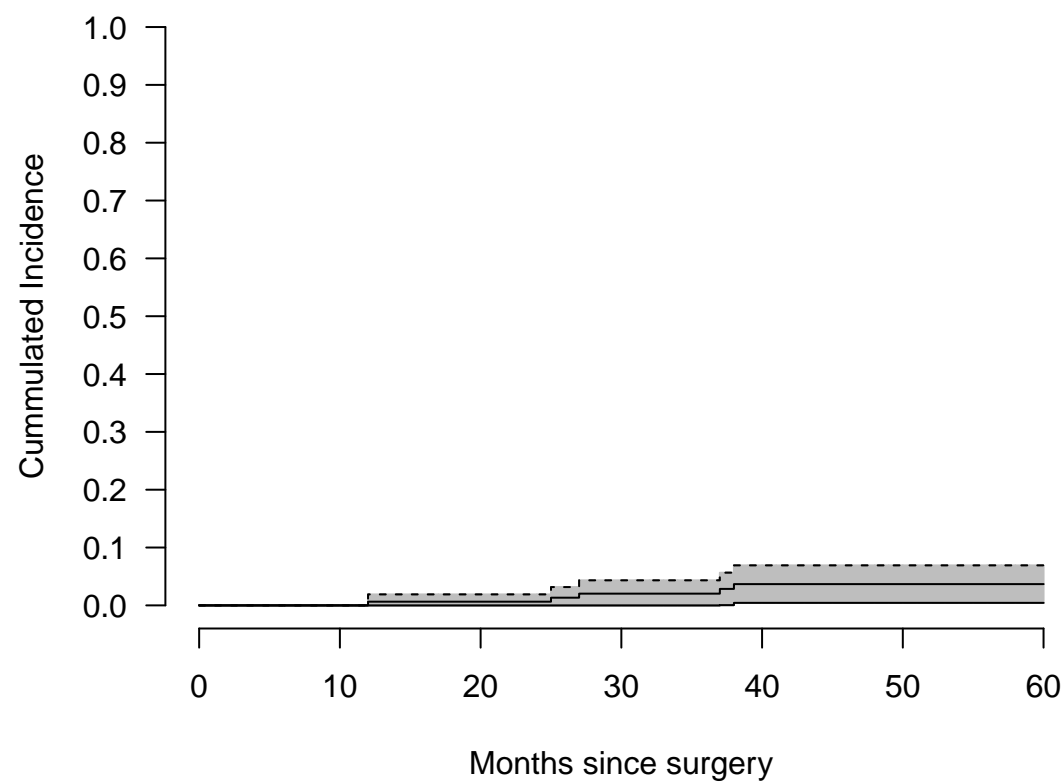
Table 2: According to Local Recurrence

| | No event n= 163 | Event n= 5 | Crude HR | p-value | Multivariate HR | p-value |
|---------------------------------|--------------------|---------------|-------------------|---------|---------------------------|---------|
| Age (10y) | 6.44 (1.18) | 7.52 (0.78) | 2.56 [1.09;6.02] | 0.031 | 7.34 [1.01; 53.26] | 0.049 |
| Sex: Men | 104 (63.8%) | 3 (60.0%) | 0.89 [0.15;5.35] | 0.901 | 0.57 [0.03; 10.77] | 0.707 |
| Tumor level: | | | | | | |
| 0-6cm | 73 (44.8%) | 2 (40.0%) | 21589751 [0.00;.] | 0.999 | 4.58 [0.00; Inf] | 1 |
| 7-12cm | 81 (49.7%) | 3 (60.0%) | 33072783 [0.00;.] | 0.999 | 2098060692.52 [0.00; Inf] | 1 |
| Tumor stage: | | | | | | |
| 0 | 25 (15.3%) | 0 (0.00%) | 0.00 [0.00;.] | 0.998 | 0.00 [0.00; Inf] | 0.998 |
| II | 42 (25.8%) | 2 (40.0%) | 1.32 [0.19;9.35] | 0.783 | 6.13 [0.17;215.83] | 0.318 |
| III | 39 (23.9%) | 1 (20.0%) | 0.81 [0.07;8.88] | 0.860 | 5.14 [0.06;435.52] | 0.47 |
| Neoadjuvant treatment | 127 (77.9%) | 3 (60.0%) | 0.45 [0.08;2.70] | 0.383 | 0.17 [0.01; 4.25] | 0.277 |
| Type of resection: | | | | | | |
| Abdominoperineal resection | 36 (22.1%) | 2 (40.0%) | 1.92 [0.32;11.5] | 0.474 | 235454683.57 [0.00; Inf] | 0.999 |
| Hartmann | 8 (4.91%) | 0 (0.00%) | 0.00 [0.00;.] | 0.999 | 0.00 [0.00; Inf] | 0.992 |
| Perforation | 1 (0.61%) | 0 (0.00%) | 0.00 [0.00;.] | 0.999 | 0.00 [0.00; Inf] | 1 |
| Invasion circumferential margin | 9 (5.52%) | 1 (20.0%) | 4.12 [0.46;37.0] | 0.206 | 2.05 [0.06; 65.39] | 0.683 |
| Mesorecto quality: | | | | | | |
| Partial | 14 (9.46%) | 1 (20.0%) | 4.58 [0.41;50.7] | 0.215 | 5.03 [0.17;153.07] | 0.354 |
| No-satisfactory | 3 (2.03%) | 2 (40.0%) | 27.5 [3.86;196] | 0.001 | 26.75 [1.03;692.56] | 0.048 |

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 1: Local Recurrence



| | | | | | | |
|--------|-----|-----|-----|-----|----|----|
| Months | 0 | 12 | 24 | 36 | 48 | 60 |
| N: | 168 | 155 | 146 | 123 | 99 | 75 |

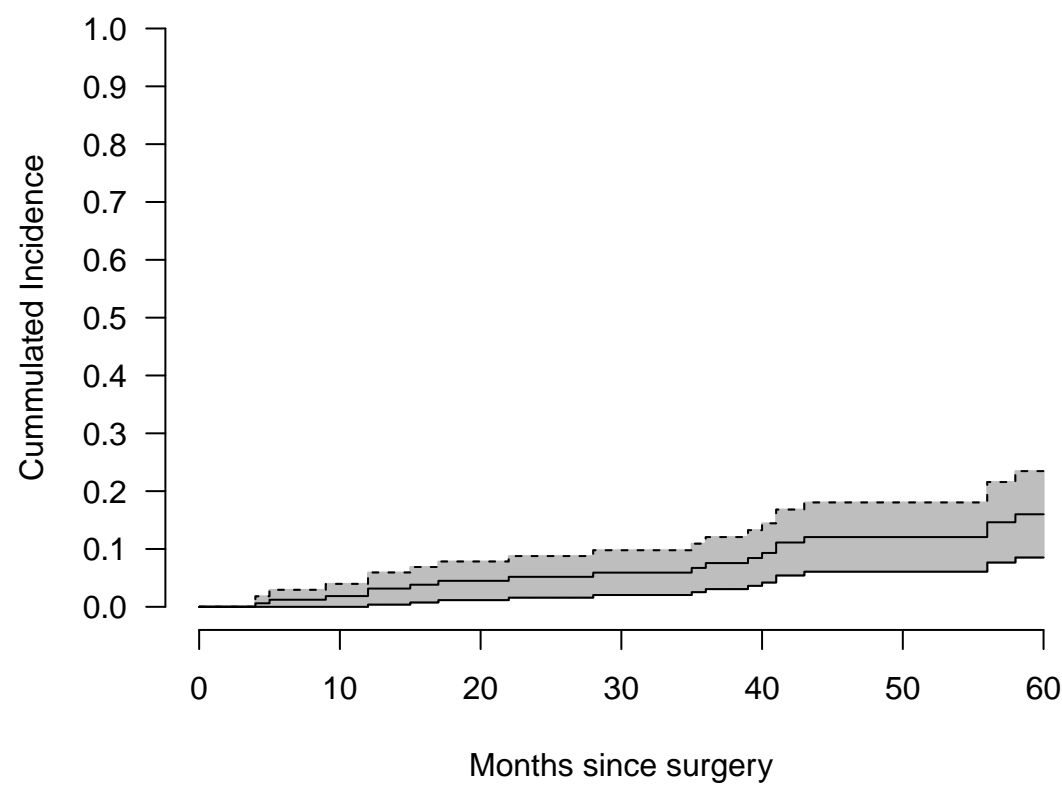
Table 3: According to Metastasis

| | No event n= 149 | Event n= 19 | Crude HR | p-value | Multivariate HR | p-value | N |
|---------------------------------|--------------------|----------------|------------------|---------|--------------------|---------|-----|
| Age (10y) | 6.43 (1.18) | 6.74 (1.16) | 1.33 [0.89;2.01] | 0.168 | 1.32 [0.87; 1.99] | 0.189 | 168 |
| Sex: Men | 96 (64.4%) | 11 (57.9%) | 0.78 [0.32;1.95] | 0.601 | 0.59 [0.21; 1.69] | 0.327 | 168 |
| Tumor level: | | | | | | | 168 |
| 0-6cm | 66 (44.3%) | 9 (47.4%) | 0.49 [0.11;2.25] | 0.357 | 0.22 [0.03; 1.68] | 0.145 | |
| 7-12cm | 76 (51.0%) | 8 (42.1%) | 0.43 [0.09;2.01] | 0.282 | 0.21 [0.03; 1.39] | 0.106 | |
| Tumor stage: | | | | | | | 168 |
| 0 | 24 (16.1%) | 1 (5.26%) | 0.52 [0.06;4.70] | 0.564 | 0.29 [0.03; 3.10] | 0.306 | |
| II | 39 (26.2%) | 5 (26.3%) | 1.69 [0.45;6.29] | 0.435 | 1.11 [0.26; 4.65] | 0.891 | |
| III | 31 (20.8%) | 9 (47.4%) | 4.06 [1.25;13.2] | 0.020 | 3.78 [1.01;14.10] | 0.048 | |
| Neoadjuvant treatment | 115 (77.2%) | 15 (78.9%) | 1.09 [0.36;3.29] | 0.875 | 2.05 [0.54; 7.82] | 0.292 | 168 |
| Type of resection: | | | | | | | 168 |
| Abdominoperineal resection | 32 (21.5%) | 6 (31.6%) | 2.00 [0.71;5.63] | 0.187 | 1.28 [0.26; 6.17] | 0.761 | |
| Hartmann | 4 (2.68%) | 4 (21.1%) | 8.05 [2.47;26.3] | 0.001 | 14.88 [3.73;59.33] | <0.001 | |
| Perforation | 0 (0.00%) | 1 (5.26%) | Ref. | Ref. | NA [NA; NA] | | 168 |
| Invasion circumferential margin | 7 (4.70%) | 3 (15.8%) | 4.20 [1.21;14.6] | 0.024 | 1.38 [0.26; 7.46] | 0.706 | 168 |
| Mesorecto quality: | | | | | | | 153 |
| Partial | 11 (8.21%) | 4 (21.1%) | 2.76 [0.91;8.34] | 0.071 | 2.31 [0.58; 9.23] | 0.238 | |
| No-satisfactory | 5 (3.73%) | 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
- Mesorecto Quality, Satisfactory

Figure 2: Metastasis



| | | | | | | |
|--------|-----|-----|-----|-----|----|----|
| Months | 0 | 12 | 24 | 36 | 48 | 60 |
| N: | 168 | 152 | 141 | 118 | 96 | 70 |

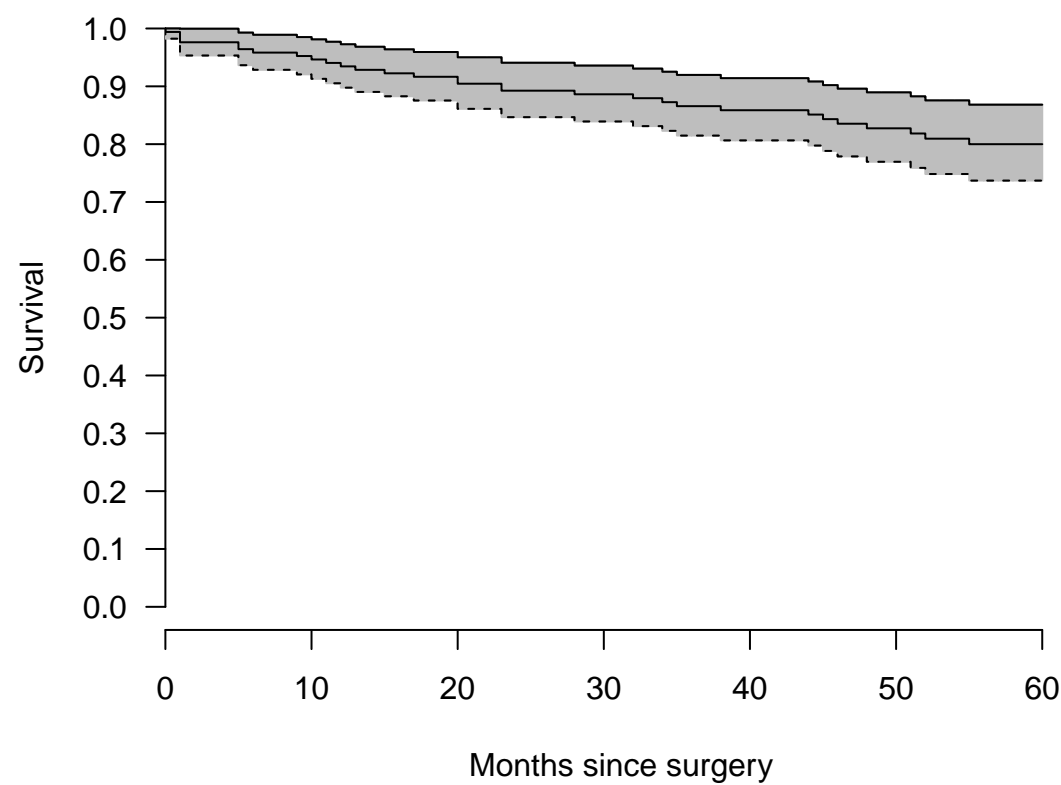
Table 4: According to Exitus

| | No event n= 138 | Event n= 30 | Crude HR | p-value | Multivariate HR | p-value | N |
|---------------------------------|--------------------|----------------|------------------|---------|---------------------|---------|-----|
| Age (10y) | 6.30 (1.12) | 7.24 (1.16) | 1.99 [1.41;2.81] | <0.001 | 2.36 [1.54; 3.60] | <0.001 | 168 |
| Sex: Men | 85 (61.6%) | 22 (73.3%) | 1.58 [0.70;3.55] | 0.267 | 1.58 [0.65; 3.84] | 0.316 | 168 |
| Tumor level: | | | | | | | 168 |
| 0-6cm | 60 (43.5%) | 15 (50.0%) | 1.78 [0.24;13.5] | 0.576 | 0.93 [0.10; 8.70] | 0.946 | |
| 7-12cm | 70 (50.7%) | 14 (46.7%) | 1.65 [0.22;12.5] | 0.630 | 1.88 [0.23; 15.44] | 0.557 | |
| Tumor stage: | | | | | | | 168 |
| 0 | 24 (17.4%) | 1 (3.33%) | 0.44 [0.05;3.78] | 0.456 | 0.68 [0.07; 6.32] | 0.738 | |
| II | 34 (24.6%) | 10 (33.3%) | 2.69 [0.92;7.88] | 0.071 | 2.35 [0.71; 7.76] | 0.16 | |
| III | 26 (18.8%) | 14 (46.7%) | 4.62 [1.66;12.8] | 0.003 | 4.26 [1.27; 14.27] | 0.019 | |
| Neoadjuvant treatment | 105 (76.1%) | 25 (83.3%) | 1.49 [0.57;3.88] | 0.418 | 2.11 [0.73; 6.13] | 0.168 | 168 |
| Type of resection: | | | | | | | 168 |
| Abdominoperineal resection | 27 (19.6%) | 11 (36.7%) | 1.93 [0.90;4.11] | 0.091 | 1.78 [0.52; 6.11] | 0.363 | |
| Hartmann | 6 (4.35%) | 2 (6.67%) | 1.73 [0.40;7.47] | 0.466 | 1.27 [0.24; 6.69] | 0.775 | |
| Perforation | 0 (0.00%) | 1 (3.33%) | 6.09 [0.82;45.1] | 0.077 | 12.36 [0.88;173.98] | 0.062 | 168 |
| Invasion circumferential margin | 6 (4.35%) | 4 (13.3%) | 2.87 [0.99;8.27] | 0.051 | 0.74 [0.17; 3.18] | 0.684 | 168 |
| Mesorrecto quality: | | | | | | | 153 |
| Partial | 10 (8.06%) | 5 (17.2%) | 1.93 [0.73;5.06] | 0.182 | 1.73 [0.51; 5.83] | 0.376 | |
| No-satisfactory | 5 (4.03%) | 0 (0.00%) | 0.00 [0.00;.] | 0.997 | 0.00 [0.00; Inf] | 0.997 | |

Reference categories:

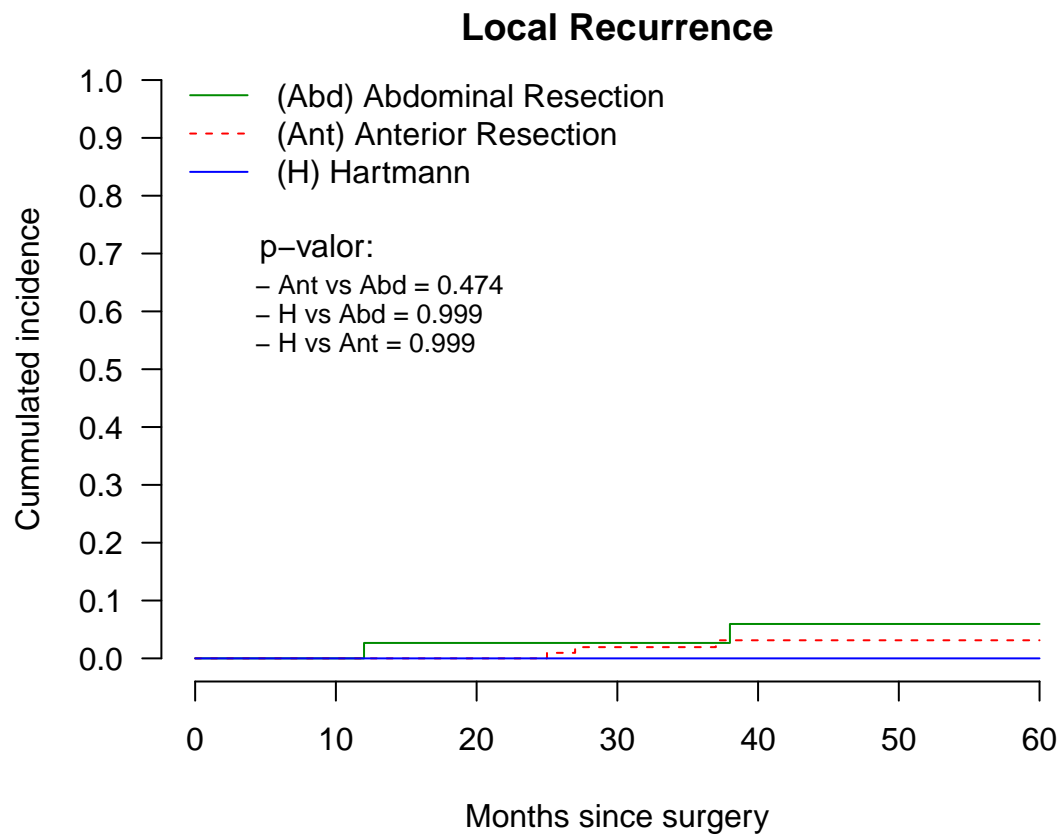
- Age, a decade
- Sex, Women
- Tumor level, 13-15cm
- Tumor stage: 1
- Neoadjuvant treatment, No
- Type of resection, Anterior resection
- Perforation, No
- Invasion circumferential margin, No
- Mesorrecto Quality, Satisfactory

Figure 3: Exitus



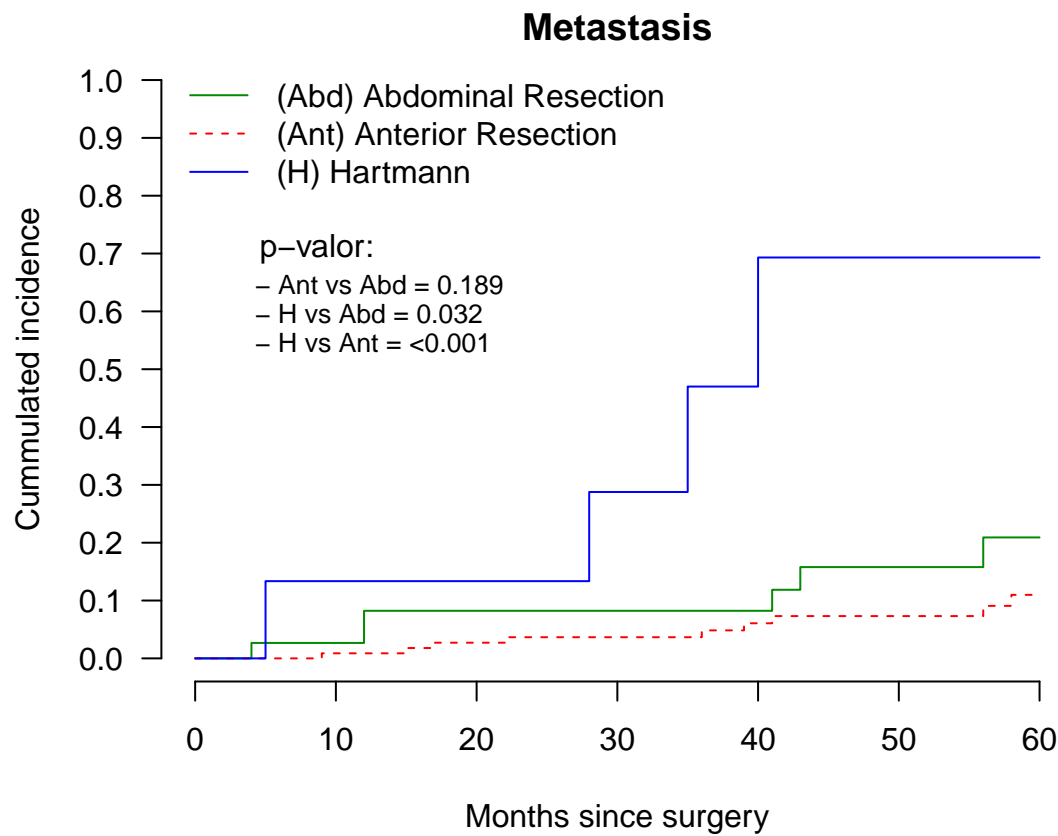
| Months | 0 | 12 | 24 | 36 | 48 | 60 |
|--------|-----|-----|-----|-----|-----|----|
| N: | 168 | 156 | 146 | 124 | 101 | 76 |

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



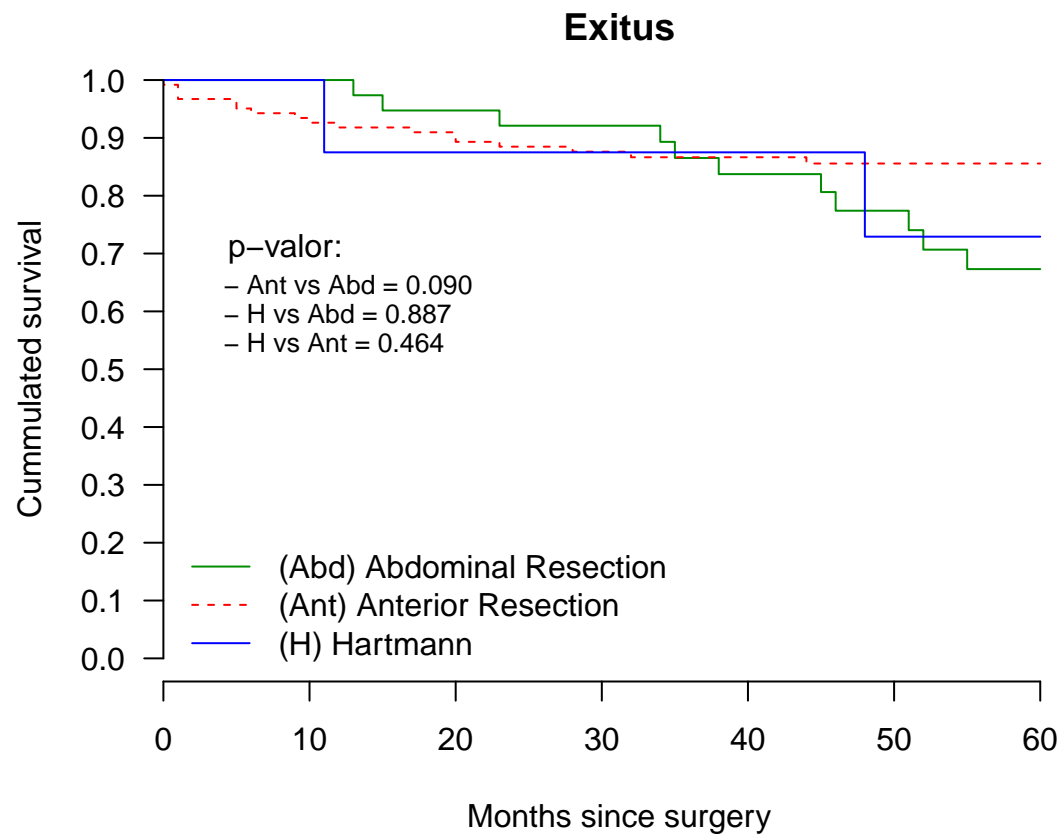
| | | | | | | |
|--------|-----|-----|-----|----|----|----|
| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
| Abd | 38 | 38 | 35 | 31 | 24 | 18 |
| Ant | 122 | 112 | 106 | 86 | 73 | 55 |
| H | 8 | 7 | 7 | 7 | 6 | 2 |

Figure 5: Metastasis, according to Type of Resection:



| | | | | | | |
|--------|-----|-----|-----|----|----|----|
| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
| Abd | 38 | 37 | 33 | 30 | 23 | 17 |
| Ant | 122 | 111 | 103 | 85 | 72 | 52 |
| H | 8 | 7 | 7 | 5 | 3 | 1 |

Figure 6: Survival, according to Type of Resection:



| | | | | | | |
|--------|-----|-----|-----|----|----|----|
| Tiempo | 0 | 12 | 24 | 36 | 48 | 60 |
| Abd | 38 | 38 | 35 | 31 | 24 | 18 |
| Ant | 122 | 112 | 106 | 87 | 75 | 56 |
| H | 8 | 7 | 7 | 7 | 6 | 2 |

Table 5: Incidence by outcome [95% CI]

| Months | Local Recurrence | Metastasis | Exitus |
|--------|-------------------|---------------------|----------------------|
| 12 | 0.64 [1.87; 0] | 3.11 [5.75; 0.39] | 6.55 [10.22; 2.73] |
| 24 | 0.64 [1.87; 0] | 5.05 [8.4; 1.58] | 10.75 [15.32; 5.93] |
| 36 | 2.01 [4.23; 0] | 7.28 [11.36; 3.02] | 13.43 [18.51; 8.03] |
| 48 | 3.61 [6.68; 0.44] | 11.36 [16.5; 5.9] | 17.26 [23.04; 11.05] |
| 60 | 3.61 [6.68; 0.44] | 14.79 [20.91; 8.19] | 20.01 [26.29; 13.18] |