



Appendix 2

**This appendix was part of the submitted manuscript and has been peer reviewed.
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Appendix to: Jorgensen ML, Young JM, Dobbins TA, Solomon MJ. Predictors of variation in colorectal cancer care and outcomes in New South Wales: a population-based health data linkage study. *Med J Aust* 2014; 200: 403-407. doi: 10.5694/mja13.10710.

Appendix 2.1: Patient and hospital factors in multilevel models for outcome measures (colon cancer)

| <i>Patient factors</i> | 30-day mortality | Emergency readmission | Prolonged length of stay | 90-day VTE | 30-day wound infection | 1-year mortality |
|--------------------------------------|-------------------------|------------------------------|---------------------------------|-------------------|-------------------------------|-------------------------|
| Sex (ref=Female) | p=0.005* | p=0.26 | p=0.19 | p=0.22 | p=0.003* | p=0.39 |
| Male | 1.8 (1.2-2.8) | 1.1 (0.9-1.4) | 1.1 (0.9-1.4) | 0.8 (0.6-1.1) | 1.4 (1.1-1.8) | 1.1 (0.9-1.3) |
| Age at diagnosis (ref=0-59) | p<0.001* | p=0.19 | p<0.001* | p=0.15 | p=0.18 | p<0.001* |
| 60-69 | 2.9 (1.0-8.8) | 1.0 (0.7-1.4) | 1.4 (1.0-1.9) | 1.9 (1.1-3.2) | 0.9 (0.7-1.3) | 1.7 (1.2-2.4) |
| 70-79 | 5.2 (1.8-14.7) | 1.2 (0.9-1.6) | 2.1 (1.6-2.9) | 1.5 (0.9-2.6) | 1.3 (0.9-1.8) | 3.2 (2.3-4.4) |
| 80+ | 10.6 (3.7-30.1) | 1.3 (0.9-1.8) | 5.0 (3.7-6.7) | 1.5 (0.8-2.8) | 1.1 (0.7-1.6) | 5.5 (3.9-7.8) |
| SEIFA (ref=1 Least disadvantaged) | p=0.48 | p=0.91 | p=0.05 | p=0.32 | p=0.63 | p=0.66 |
| 2 | 1.4 (0.7-2.9) | 1.2 (0.8-1.7) | 0.6 (0.5-0.9) | 0.6 (0.4-1.1) | 1.2 (0.8-1.7) | 0.9 (0.7-1.3) |
| 3 | 1.3 (0.6-2.7) | 1.0 (0.7-1.5) | 0.9 (0.7-1.3) | 0.6 (0.4-1.1) | 0.9 (0.6-1.3) | 0.9 (0.7-1.3) |
| 4 | 1.9 (0.9-3.8) | 1.1 (0.7-1.6) | 0.9 (0.6-1.2) | 0.9 (0.5-1.5) | 1.0 (0.7-1.6) | 1.2 (0.8-1.6) |
| 5 Most disadvantaged | 1.4 (0.7-3.1) | 1.1 (0.8-1.6) | 0.9 (0.7-1.2) | 0.6 (0.4-1.2) | 0.9 (0.6-1.4) | 1.0 (0.7-1.4) |
| ARIA (ref=Highly accessible) | p=0.14 | p=0.89 | p=0.78 | p=0.82 | p=0.90 | p=0.78 |
| Accessible | 0.5 (0.3-1.0) | 1.0 (0.7-1.4) | 1.0 (0.8-1.4) | 0.8 (0.5-1.5) | 1.1 (0.8-1.5) | 1.0 (0.7-1.3) |
| Moderately accessible/Remote | 0.6 (0.2-1.4) | 0.9 (0.5-1.5) | 1.2 (0.8-1.8) | 0.9 (0.4-1.9) | 1.0 (0.6-1.6) | 1.1 (0.7-1.7) |
| Marital status (ref=Current partner) | p=0.13 | p=0.76 | p<0.001* | p=0.32 | p=0.33 | p=0.02 |
| Single/Divorced/Widowed | 1.4 (0.9-2.1) | 1.0 (0.8-1.3) | 1.8 (1.5-2.2) | 1.2 (0.8-1.7) | 1.1 (0.9-1.4) | 1.3 (1.0-1.6) |
| Private health insurance (ref=Yes) | p=0.80 | p=0.25 | p=0.007* | p=0.15 | p=0.16 | p=0.47 |
| No | 1.1 (0.6-1.7) | 1.2 (0.9-1.6) | 0.7 (0.6-0.9) | 0.7 (0.5-1.1) | 0.8 (0.6-1.1) | 0.9 (0.7-1.2) |
| Emergency admission (ref=No) | p<0.001* | p=0.57 | p<0.001* | p=0.49 | p=0.93 | p<0.001* |
| Yes | 2.5 (1.6-3.8) | 1.1 (0.8-1.5) | 3.1 (2.5-3.9) | 1.2 (0.7-1.9) | 1.0 (0.7-1.4) | 2.0 (1.5-2.5) |
| Degree of spread (ref=Localised) | p=0.002* | p<0.001* | p<0.001* | p<0.001* | p=0.02 | p<0.001* |
| Regional spread | 1.9 (1.2-3.0) | 0.8 (0.7-1.1) | 1.0 (0.8-1.3) | 1.4 (0.9-2.0) | 1.3 (1.0-1.7) | 2.7 (2.0-3.5) |
| Distant metastasis | 2.8 (1.6-5.0) | 1.6 (1.2-2.2) | 2.0 (1.5-2.6) | 2.9 (1.8-4.7) | 1.6 (1.1-2.2) | 16.9 (13-23) |
| Charlson score (ref=0) | p<0.001* | p=0.02 | p<0.001* | p=0.004* | p=0.20 | p<0.001* |
| 1 | 3.1 (1.7-5.4) | 1.5 (1.0-2.2) | 2.9 (2.2-4.0) | 1.1 (0.5-2.4) | 1.5 (0.9-2.3) | 2.1 (1.5-3.0) |
| 2 | 4.4 (2.6-7.4) | 1.7 (1.1-2.5) | 3.2 (2.4-4.3) | 1.5 (0.7-2.9) | 1.3 (0.8-2.0) | 3.1 (2.2-4.3) |
| 3+ | 8.2 (4.3-15.8) | 1.7 (0.8-3.4) | 11.7 (6.9-20) | 4.0 (1.9-8.5) | 1.6 (0.8-3.2) | 10.4 (6.3-17) |
| <i>Hospital factors</i> | | | | | | |
| Mean caseload (ref=80+) | p=0.59 | p=0.48 | p=0.27 | p=0.52 | p=0.56 | p=0.34 |
| 56-79 | 1.7 (0.9-3.3) | 1.0 (0.7-1.5) [0.9-1.3] | 0.8 (0.6-1.2) [0.6-1.2] | 0.7 (0.4-1.2) | 0.9 (0.6-1.3) | 1.3 (1.0-1.9) |
| 35-55 | 1.2 (0.6-2.4) | 1.1 (0.8-1.6) [0.9-1.3] | 0.8 (0.5-1.1) [0.5-1.1] | 0.8 (0.5-1.3) | 0.8 (0.6-1.2) | 1.2 (0.9-1.7) |
| 23-34 | 1.4 (0.7-2.9) | 0.9 (0.6-1.4) [0.8-1.1] | 0.8 (0.5-1.1) [0.5-1.1] | 0.7 (0.4-1.2) | 1.0 (0.6-1.4) | 1.3 (0.9-1.8) |
| <23 | 1.3 (0.6-2.6) | 1.3 (0.9-1.8) [1.0-1.5] | 0.7 (0.5-1.0) [0.5-1.0] | 0.9 (0.5-1.6) | 0.7 (0.5-1.1) | 1.1 (0.7-1.5) |
| Hospital type (ref=Private) | p=0.09 | p=0.05 | p=0.01 | p=0.76 | p=0.09 | p=0.03 |
| Public | 1.7 (0.9-3.3) | 1.4 (1.0-1.9) [1.2-1.7] | 1.5 (1.1-1.9) [1.0-2.1] | 1.1 (0.7-1.8) | 1.4 (1.0-1.9) | 1.4 (1.0-1.9) |
| Hospital location (ref=Metropolitan) | p=0.08 | p=0.33 | p=0.75 | p=0.48 | p<0.001* | p=0.38 |
| Rural/regional | 1.7 (0.9-2.9) | 0.8 (0.6-1.2) [0.7-1.0] | 0.9 (0.7-1.3) [0.7-1.4] | 1.2 (0.7-2.1) | 1.9 (1.3-2.7) | 1.1 (0.8-1.5) |

[] = IOR-80% for hospital factors, no IOR-80% reported if hospital variance estimated as zero; VTE = venous thromboembolism

Appendix 2.2: Patient and hospital factors in multilevel models for outcome measures (rectal cancer)

| <i>Patient factors</i> | 30-day mortality | Emergency readmission | Prolonged length of stay | 90-day VTE | 30-day wound infection | 1-year mortality |
|--------------------------------------|-------------------------|------------------------------|---------------------------------|-------------------|-------------------------------|-------------------------|
| Sex (ref=Female) | p=0.66 | p=0.27 | p=0.23 | p=0.12 | p=0.75 | p=0.42 |
| Male | 1.2 (0.5-3.2) | 1.2 (0.9-1.7) | 1.2 (0.9-1.7) | 1.9 (0.9-4.1) | 1.1 (0.7-1.6) | 1.2 (0.8-1.8) |
| Age at diagnosis (ref=0-59) | p=0.11 | p=0.10 | p<0.001* | p=0.11 | p=0.68 | p<0.001* |
| 60-69 | 2.2 (0.4-11.6) | 0.9 (0.6-1.4) | 2.3 (1.3-4.0) | 2.4 (0.8-6.9) | 1.2 (0.7-1.9) | 1.0 (0.6-1.9) |
| 70-79 | 4.6 (1.0-22.1) | 0.7 (0.4-1.1) | 4.5 (2.7-7.7) | 3.3 (1.2-9.3) | 1.4 (0.8-2.2) | 2.2 (1.3-3.8) |
| 80+ | 6.0 (1.1-31.7) | 1.4 (0.8-2.3) | 11.8 (6.8-21) | 1.6 (0.4-6.2) | 1.2 (0.7-2.2) | 5.6 (3.1-10) |
| SEIFA (ref=1 Least disadvantaged) | p=0.41 | p=0.93 | p=0.80 | p=0.91 | p=0.08 | p=0.80 |
| 2 | 1.9 (0.2-21.8) | 0.9 (0.5-1.6) | 0.9 (0.5-1.5) | 0.8 (0.3-2.4) | 1.8 (0.9-3.7) | 1.3 (0.7-2.4) |
| 3 | 5.7 (0.6-51.3) | 0.9 (0.5-1.7) | 0.8 (0.4-1.3) | 0.9 (0.3-2.7) | 1.1 (0.5-2.3) | 1.2 (0.6-2.4) |
| 4 | 5.8 (0.6-52.3) | 1.1 (0.7-2.0) | 0.7 (0.4-1.2) | 0.6 (0.2-2.0) | 1.5 (0.7-3.1) | 1.5 (0.8-2.9) |
| 5 Most disadvantaged | 4.8 (0.5-43.9) | 1.0 (0.6-1.7) | 0.9 (0.5-1.5) | 1.0 (0.3-3.1) | 2.1 (1.4-3.0) | 1.3 (0.7-2.7) |
| ARIA (ref=Highly accessible) | p=0.98 | p=0.78 | p=0.26 | p=0.60 | p=0.81 | p=0.22 |
| Accessible | 0.9 (0.2-3.5) | 1.1 (0.7-1.8) | 1.3 (0.8-2.2) | 0.9 (0.3-2.7) | 1.2 (0.7-2.0) | 0.6 (0.3-1.1) |
| Moderately accessible/Remote | 0.9 (0.1-5.1) | 1.3 (0.6-2.6) | 1.7 (0.9-3.5) | 1.7 (0.4-6.7) | 1.2 (0.6-2.5) | 0.5 (0.2-1.3) |
| Marital status (ref=Current partner) | p=0.47 | p=0.77 | p=0.001* | p=0.58 | p=0.32 | p=0.90 |
| Single/Divorced/Widowed | 0.7 (0.3-1.9) | 0.9 (0.7-1.4) | 1.7 (1.2-2.4) | 1.2 (0.6-2.5) | 1.2 (0.8-1.8) | 1.0 (0.6-1.5) |
| Private health insurance (ref=Yes) | p=0.81 | p=0.77 | p=0.97 | p=0.33 | p=0.31 | p=0.37 |
| No | 1.2 (0.4-3.8) | 1.1 (0.7-1.7) | 1.0 (0.6-1.6) | 0.7 (0.3-1.5) | 1.3 (0.8-2.3) | 1.3 (0.7-2.3) |
| Emergency admission (ref=No) | p=0.19 | p=0.11 | p<0.001* | p=0.75 | p=0.59 | p=0.76 |
| Yes | 2.7 (0.6-11.4) | 0.3 (0.1-1.3) | 6.6 (3.1-14) | 0.7 (0.1-5.7) | 0.7 (0.2-2.4) | 1.1 (0.5-2.8) |
| Degree of spread (ref=Localised) | p=0.90 | p=0.33 | p=0.05 | p=0.63 | p=0.13 | p<0.001* |
| Regional spread | 1.0 (0.4-2.4) | 1.3 (0.9-1.8) | 1.0 (0.7-1.4) | 0.7 (0.4-1.5) | 1.2 (0.8-1.7) | 1.6 (1.0-2.4) |
| Distant metastasis | 1.3 (0.3-5.3) | 1.4 (0.8-2.4) | 1.8 (1.1-3.0) | 1.1 (0.4-3.0) | 1.8 (1.0-3.2) | 8.4 (4.8-15) |
| Charlson score (ref=0) | p=0.002* | p=0.30 | p<0.001* | p=0.07 | p=0.25 | p<0.001* |
| 1 | 2.1 (0.4-10.2) | 1.7 (0.8-3.6) | 5.1 (2.9-9.2) | 1.8 (0.5-6.4) | 1.6 (0.7-3.6) | 1.7 (0.8-3.9) |
| 2 | 3.6 (0.9-14.2) | 0.6 (0.2-1.8) | 5.7 (3.1-11) | 3.9 (1.4-11) | 1.9 (0.9-4.2) | 3.0 (1.5-6.1) |
| 3+ | 12.7 (3.2-50) | 1.7 (0.5-6.1) | 10.1 (3.7-28) | 1.9 (0.2-16) | 1.4 (0.4-5.1) | 6.0 (2.3-16) |
| <i>Hospital factors</i> | | | | | | |
| Mean caseload (ref=30+) | p=0.40 | p=0.74 | p=0.02 | p=0.98 | p=0.48 | p=0.02 |
| 18-29 | 0.2 (0.0-1.6) | 1.1 (0.6-1.8) | 1.5 (0.9-2.4) | 1.4 (0.5-4.0) | 1.0 (0.6-1.8) | 1.9 (1.0-3.6) |
| 15-17 | 1.0 (0.3-3.7) | 1.1 (0.6-1.8) | 0.9 (0.5-1.5) | 1.2 (0.4-3.3) | 0.7 (0.4-1.2) | 1.8 (0.9-3.3) |
| 9-14 | 1.4 (0.4-4.9) | 1.2 (0.7-2.0) | 1.2 (0.7-1.9) | 1.1 (0.4-3.4) | 0.7 (0.4-1.3) | 2.7 (1.4-5.2) |
| <9 | 0.7 (0.2-3.2) | 1.4 (0.8-2.5) | 0.5 (0.3-1.0) | 1.1 (0.3-3.4) | 0.7 (0.4-1.3) | 1.2 (0.6-2.6) |
| Hospital type (ref=Private) | p=0.83 | p=0.01* | p=0.06 | p=0.04 | p=0.96 | p=0.70 |
| Public | 1.2 (0.3-4.8) | 1.9 (1.1-3.2) | 1.6 (1.0-2.6) | 2.8 (1.0-7.3) | 1.0 (0.5-1.8) | 0.9 (0.5-1.6) |
| Hospital location (ref=Metropolitan) | p=0.87 | p=0.18 | p=0.89 | p=0.98 | p=0.001* | p=0.36 |
| Rural/regional | 1.1 (0.3-4.2) | 0.7 (0.4-1.2) | 1.0 (0.6-1.7) | 1.0 (0.3-2.9) | 2.4 (1.4-4.0) | 1.3 (0.7-2.5) |

[] = IOR-80% for hospital factors, no IOR-80% reported if hospital variance estimated as zero; VTE = venous thromboembolism

Appendix 2.3: Patient and hospital factors in multilevel models for care processes (colon cancer)

| <i>Patient factors</i> | Discussed at MDT meeting | Documented cancer stage | Pathological stage recorded | 31 days from decision to Tx | 62 days from referral to Tx |
|--|---------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Sex (ref=Female) | p=0.69 | p=0.71 | p=0.18 | p=0.66 | p=0.34 |
| Male | 1.0 (0.8-1.3) | 0.9 (0.7-1.3) | 1.3 (0.9-1.9) | 1.1 (0.8-1.3) | 0.9 (0.7-1.1) |
| Age at diagnosis (ref=80+) | p<0.001* | p=0.54 | p=0.02 | p<0.001* | p<0.001* |
| 70-79 | 1.2 (0.8-1.6) | 1.0 (0.6-1.7) | 1.4 (0.8-2.5) | 2.4 (1.7-3.3) | 2.0 (1.5-2.8) |
| 60-69 | 1.6 (1.1-2.3) | 1.3 (0.7-2.3) | 1.4 (0.8-2.6) | 3.6 (2.5-5.0) | 2.3 (1.7-3.3) |
| 0-59 | 2.3 (1.6-3.2) | 0.9 (0.5-1.6) | 0.6 (0.3-1.2) | 6.0 (4.2-8.6) | 3.0 (2.1-4.2) |
| SEIFA (ref=5 Most disadvantaged) | p=0.48 | p=0.76 | p=0.93 | p=0.89 | p=0.41 |
| 4 | 1.2 (0.8-1.8) | 1.0 (0.6-1.9) | 0.8 (0.4-1.5) | 1.0 (0.7-1.5) | 0.8 (0.6-1.3) |
| 3 | 1.0 (0.6-1.4) | 1.2 (0.7-2.3) | 0.9 (0.5-1.8) | 0.9 (0.6-1.3) | 0.8 (0.6-1.2) |
| 2 | 0.9 (0.6-1.4) | 0.9 (0.5-1.7) | 0.9 (0.4-2.1) | 1.1 (0.7-1.6) | 1.0 (0.7-1.5) |
| 1 Least disadvantaged | 1.2 (0.8-2.0) | 1.5 (0.6-3.4) | 0.9 (0.3-2.7) | 0.9 (0.6-1.5) | 1.3 (0.8-2.1) |
| ARIA (ref=Highly accessible) | p=0.01* | p=0.43 | p=0.71 | p=0.96 | p=0.64 |
| Accessible | 1.8 (1.1-2.8) | 1.2 (0.5-2.7) | 1.2 (0.6-2.5) | 1.0 (0.6-1.5) | 1.0 (0.6-1.5) |
| Moderately accessible/Remote | 2.6 (1.3-5.3) | 2.1 (0.6-7.0) | 1.0 (0.3-2.8) | 1.1 (0.5-2.2) | 0.7 (0.3-1.5) |
| Marital status (ref=No partner) | p=0.04 | p=0.04 | p=0.29 | p=0.18 | p=0.61 |
| Current partner | 1.1 (0.8-1.3) | 0.7 (0.5-1.0) | 0.8 (0.5-1.2) | 0.9 (0.7-1.1) | 1.1 (0.8-1.3) |
| Private health insurance (ref=No) | p=0.35 | p=0.35 | p=0.63 | p=0.14 | p=0.05 |
| Yes | 1.1 (0.9-1.5) | 1.3 (0.8-2.0) | 1.1 (0.7-1.9) | 1.2 (0.9-1.6) | 1.3 (1.0-1.7) |
| Emergency admission (ref=No) | p=0.48 | p=0.48 | p=0.61 | p=0.14 | p<0.001* |
| Yes | 1.0 (0.8-1.3) | 1.2 (0.7-2.0) | 1.1 (0.7-1.9) | 1.2 (0.9-1.6) | 1.7 (1.3-2.3) |
| Degree of spread (ref=Localised) | p<0.001* | p<0.001* | p<0.001* | p<0.001* | p<0.001* |
| Regional spread | 1.4 (1.1-1.8) | 1.9 (1.3-2.8) | 1.5 (1.0-2.4) | 5.4 (4.2-7.0) | 4.7 (3.6-6.1) |
| Distant metastasis | 2.7 (1.9-3.7) | 2.2 (1.3-3.7) | 0.2 (0.1-0.4) | 7.2 (5.1-10.2) | 7.2 (5.1-10.2) |
| Charlson score (ref=3+) | p=0.21 | p=0.15 | p=0.14 | p=0.004* | p=0.03 |
| 2 | 1.1 (0.4-3.2) | 4.1 (1.1-15) | 0.8 (0.2-3.7) | 3.2 (1.3-7.5) | 3.4 (1.4-8.4) |
| 1 | 1.4 (0.5-3.8) | 2.2 (0.6-7.8) | 0.3 (0.1-1.3) | 2.9 (1.2-6.9) | 2.1 (0.8-5.1) |
| 0 | 1.8 (0.7-4.3) | 2.9 (1.0-8.4) | 0.5 (0.1-2.0) | 3.8 (1.8-8.1) | 2.8 (1.3-6.2) |
| <i>Hospital factors</i> | | | | | |
| Mean caseload (ref=<30) | p=0.005* | p=0.43 | p=0.08 | p=0.08 | p=0.11 |
| 30-37 | 3.6 (1.4-9.2) [0.7-17.8] | 2.4 (0.2-25.8) [0.1-89.9] | 11.4 (0.8-16.3) [0.0->100] | 6.3 (1.3-29.4) [0.4->100] | 3.6 (0.8-15.6) [0.2-54.6] |
| 38-67 | 3.3 (1.3-8.1) [0.7-16.3] | 0.4 (0.1-2.8) [0.0-14.1] | 0.6 (0.4-0.8) [0.0->100] | 1.7 (0.4-7.2) [0.1-30.8] | 2.8 (0.7-10.9) [0.2-41.9] |
| 68-81 | 3.5 (1.2-10.1) [0.7-17.3] | 0.3 (0.0-3.8) [0.0-13.1] | 4.4 (3.2-5.9) [0.0->100] | 4.9 (0.8-28.4) [0.3-87.0] | 4.4 (0.8-23.2) [0.3-65.5] |
| 82+ | 0.7 (0.2-2.5) [0.1-3.6] | 3.7 (0.2-73.1) [0.1->100] | >100 (0.6->100) [0.0->100] | 0.7 (0.1-4.9) [0.0-11.6] | 0.5 (0.1-3.7) [0.0-8.0] |
| Hospital location (ref=Rural/regional) | p=0.001* | p=0.28 | p=0.85 | p=0.56 | p=0.05 |
| Metropolitan | 4.1 (1.7-9.7) [0.8-20.5] | 2.6 (0.5-14.9) [0.1-99.2] | 1.0 (0.7-1.4) [0.0->100] | 0.7 (0.2-2.3) [0.0-12.5] | 0.3 (0.1-1.0) [0.0-4.8] |

[] = IOR-80% for hospital factors; MDT = multidisciplinary team; Tx = treatment

Appendix 2.4: Patient and hospital factors in multilevel models for care processes (rectal cancer)

| <i>Patient factors</i> | Discussed at MDT meeting | Documented cancer stage | Pathological stage recorded | 31 days from decision to Tx | 62 days from referral to Tx |
|--|---------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Sex (ref=Female) | p=0.60 | p=0.79 | p=0.45 | p<0.001* | p<0.001* |
| Male | 0.9 (0.6-1.3) | 1.1 (0.6-2.0) | 0.8 (0.4-1.6) | 2.0 (1.4-2.8) | 1.9 (1.4-2.8) |
| Age at diagnosis (ref=80+) | p=0.16 | p=0.78 | p=0.53 | p<0.001* | p=0.008* |
| 70-79 | 1.6 (0.9-3.0) | 1.5 (0.6-3.7) | 0.6 (0.2-1.8) | 1.6 (0.9-2.8) | 1.8 (1.0-3.2) |
| 60-69 | 2.0 (1.1-3.8) | 1.5 (0.6-4.1) | 0.5 (0.2-1.6) | 2.9 (1.6-5.2) | 2.6 (1.5-4.5) |
| 0-59 | 1.7 (0.9-3.2) | 1.2 (0.4-3.1) | 0.4 (0.1-1.3) | 3.3 (1.9-6.0) | 2.3 (1.3-4.1) |
| SEIFA (ref=5 Most disadvantaged) | p=0.62 | p=0.34 | p=0.11 | p=0.88 | p=0.23 |
| 4 | 0.9 (0.5-1.7) | 0.3 (0.1-0.9) | 0.4 (0.1-1.3) | 1.0 (0.5-1.7) | 0.8 (0.5-1.4) |
| 3 | 0.7 (0.3-1.3) | 0.6 (0.2-1.7) | 0.7 (0.2-2.8) | 0.8 (0.4-1.5) | 0.6 (0.3-1.0) |
| 2 | 0.8 (0.4-1.6) | 0.6 (0.2-1.7) | 0.3 (0.1-1.4) | 0.8 (0.4-1.4) | 0.7 (0.4-1.2) |
| 1 Least disadvantaged | 0.6 (0.3-1.4) | 0.4 (0.1-1.7) | 0.2 (0.0-0.7) | 1.0 (0.5-2.0) | 1.0 (0.5-1.9) |
| ARIA (ref=Highly accessible) | p=0.89 | p=0.73 | p=0.16 | p=0.48 | p=0.02 |
| Accessible | 1.1 (0.6-2.1) | 0.7 (0.2-2.0) | 0.4 (0.2-1.1) | 1.2 (0.6-2.2) | 1.9 (1.1-3.2) |
| Moderately accessible/Remote | 1.3 (0.4-3.8) | 1.1 (0.2-7.2) | 0.9 (0.2-4.9) | 0.7 (0.3-1.7) | 0.6 (0.3-1.6) |
| Marital status (ref=No partner) | p=0.17 | p=0.44 | p=0.43 | p=0.35 | p=0.57 |
| Current partner | 1.3 (0.9-2.0) | 1.3 (0.7-2.4) | 0.7 (0.4-1.5) | 0.8 (0.6-1.2) | 0.9 (0.6-1.3) |
| Private health insurance (ref=No) | p=0.46 | p=0.60 | p=0.59 | p=0.13 | p=0.90 |
| Yes | 0.8 (0.5-1.4) | 1.3 (0.5-3.0) | 1.3 (0.5-3.0) | 0.7 (0.5-1.1) | 1.0 (0.6-1.5) |
| Emergency admission (ref=No) | p=0.08 | p=0.36 | p=0.29 | p=0.53 | p=0.35 |
| Yes | 2.1 (0.9-5.0) | 0.5 (0.1-2.0) | 2.7 (0.4-16.4) | 0.8 (0.3-1.8) | 1.5 (0.6-3.4) |
| Degree of spread (ref=Localised) | p=0.05 | p=0.01* | p=0.04 | p<0.001* | p<0.001* |
| Regional spread | 1.6 (1.1-2.4) | 2.7 (1.4-5.1) | 1.0 (0.5-2.0) | 4.0 (2.7-5.8) | 3.0 (2.1-4.3) |
| Distant metastasis | 1.4 (0.8-2.5) | 1.2 (0.5-2.7) | 0.3 (0.1-0.8) | 4.3 (2.4-7.9) | 2.8 (1.7-4.8) |
| Charlson score (ref=3+) | p=0.80 | p=0.38 | p=0.40 | p=0.63 | p=0.54 |
| 2 | 1.6 (0.3-9.2) | (ref=2+) | 0.2 (0.0-4.0) | 0.4 (0.1-2.1) | 2.4 (0.5-10.8) |
| 1 | 1.7 (0.3-9.6) | 0.9 (0.1-6.5) | 0.5 (0.0-7.1) | 0.4 (0.1-2.0) | 1.8 (0.4-7.9) |
| 0 | 2.0 (0.4-9.2) | 0.5 (0.1-1.6) | 0.7 (0.1-9.0) | 0.6 (0.1-2.3) | 2.4 (0.6-8.9) |
| <i>Hospital factors</i> | | | | | |
| Mean caseload (ref=<10) | p=0.03 | p=0.14 | p=0.45 | p=0.17 | p=0.02 |
| 10-15 | 3.9 (1.1-13.1) [0.5-29.4] | 0.4 (0.0-2.8) [0.0-6.6] | 0.4 (0.0-40.6) [0.0->100] | 1.2 (0.3-4.2) [0.1-11.1] | 2.4 (1.0-5.8) [0.6-9.4] |
| 16-27 | 7.6 (2.0-29) [1.0-57.7] | 0.1 (0.0-0.8) [0.0-1.7] | 0.0 (0.0-7.2) [0.0->100] | 4.2 (1.0-17) [0.5-39.0] | 5.1 (1.9-13.6) [1.3-20.1] |
| 28-33 | 3.1 (0.6-16.1) [0.4-23.7] | 0.7 (0.0-10.5) [0.0-12.1] | 5.2 (0.0->100) [0.0->100] | 4.5 (0.8-24.9) [0.5-42.0] | 3.1 (1.0-9.8) [0.8-12.3] |
| 34+ | 1.3 (0.3-6.3) [0.2-9.6] | 2.1 (0.1-36.9) [0.1-38.8] | 25.1 (0.1->100) [0.0->100] | 1.0 (0.2-5.3) [0.1-9.5] | 1.5 (0.5-4.6) [0.4-5.9] |
| Hospital location (ref=Rural/regional) | p=0.87 | p=0.68 | p=0.90 | p=0.14 | p=0.05 |
| Metropolitan | 0.9 (0.3-2.9) [0.1-6.9] | 1.5 (0.2-10.7) [0.1-27.9] | 1.3 (0.0-54.6) [0.0->100] | 0.4 (0.1-1.3) [0.0-3.8] | 0.4 (0.2-1.0) [0.1-1.7] |

[] = IOR-80% for hospital factors; MDT = multidisciplinary team; Tx = treatment