## Table 1

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| Table 1 - Analysis of demographic / clinical factors associated with weekend psychiatric hospital admission |
|  | WeekDAY admissionN(% of row) | WeekEND admissionN (% of row) | Unadjusted OR(95% CI) | P | Adjusteda OR(95% CI) | P |
| Age n=3795 |  |  |  |  |  |  |
| <18 | 85(89.5) | 10(10.5) | 0.400.20 to 0.79 | 0.008 | 0.320.11 to 0.94 | 0.038 |
| 18 to 24 | 316(77.6) | 91(22.4) | 0.980.74 to 1.32 | 0.912 | 1.190.85 to 1.69 | 0.299 |
| 25 to 34 | 539(78.5) | 148(21.5) | 0.940.73 to 1.21 | 0.620 | 1.030.78 to 1.37 | 0.834 |
| 35 to 44 | 465(76.0) | 147(24.0) | 1.080.84 to 1.39 | 0.555 | 1.070.80 to 1.44 | 0.635 |
| 45 to 54 | 550(77.4) | 161(22.6) | Ref |  | Ref |  |
| 55 to 64 | 393(78.0) | 111(22.0) | 0.970.73 to 1.27 | 0.798 | 0.890.64 to 1.24 | 0.479 |
| 65 to 74 | 351(83.6) | 69(16.4) | 0.670.49 to 0.92 | 0.012 | 0.710.41 to 1.21 | 0.206 |
| 75+ | 301(83.8) | 58(16.2) | 0.660.47 to 0.92 | 0.013 | 0.690.39 to 1.23 | 0.211 |
| Gender n=3789 |  |  |  |  |  |  |
| Male | 1531(78.8) | 413(21.2) | Ref |  | Ref |  |
| Female | 1463(79.3) | 382(20.7) | 0.970.83 to 1.13 | 0.683 | 1.090.91 to 1.30 | 0.366 |
| Ethnicity n=3565 |  |  |  |  |  |  |
| White | 2531(79.2) | 663(20.8) | Ref |  | Ref |  |
| Black | 63(77.8) | 18(22.2) | 1.090.64 to 1.85 | 0.748 | 1.130.65 to 1.96 | 0.676 |
| Asian | 120(78.9) | 32(21.2) | 1.020.68 to 1.52 | 0.930 | 0.810.52 to 1.27 | 0.355 |
| Mixed | 52(75.4) | 17(24.6) | 1.250.72 to 2.17 | 0.433 | 1.050.57 to 1.94 | 0.875 |
| Other | 55(79.7) | 14(20.3) | 0.970.54 to 1.76 | 0.924 | 0.880.45 to 1.73 | 0.713 |
| Employment n=3305 |  |  |  |  |  |
| Unemployed | 639(75.1) | 212(24.9) | Ref |  | Ref |  |
| Employed | 677(78.7) | 183(21.3) | 0.820.65 to 1.02 | 0.075 | 0.840.66 to 1.07 | 0.167 |
| Long-term sick | 527(79.2) | 138(20.8) | 0.790.62 to 1.01 | 0.057 | 0.780.60 to 1.01 | 0.063 |
| Retired | 641(83.0) | 131(17.0) | 0.620.48 to 0.79 | <0.001 | 0.860.53 to 1.40 | 0.533 |
| Student | 136(86.6) | 21(13.4) | 0.470.29 to 0.76 | 0.002 | 0.600.32 to 1.12 | 0.106 |
| Accommodation n=3508 |  |  |  |  |  |
| Mainstream | 2332(79.4) | 604(20.6) | Ref |  | Ref |  |
| Supported | 139(74.7) | 47(25.3) | 1.310.93 to 1.84 | 0.127 | 1.2110.85 to 1.74 | 0.297 |
| Homeless | 160(71.7) | 63(28.3) | 1.521.12 to 2.06 | 0.007 | 1.511.04 to 2.18 | 0.031 |
| Other | 135(82.8) | 28(17.2) | 0.800.53 to 1.22 | 0.296 | 0.810.51 to 1.29 | 0.374 |
| Detention Statusn = 3795 |  |  |  |  |  |
| Informal | 2499 (79.0) | 666 (21.0) | Ref |  | Ref |  |
| Formal | 501 (79.5) | 129 (20.5) | 0.650.40-1.08 | 0.094 | 0.700.40 to 1.25 | 0.231 |
|  | WeekDAY admissionMeanMedianSTD | WeekEND admissionMeanMedianSTD | UnadjustedB coefficient95% CI | P | AdjustedaB coefficient95% CI | P |
| Wait time for bedn=2207 | 33.01 hours5.72 hours58.13 hours | 23.04 hours4.52 hours68.54 hours | - 9.96 hours- 25.58 to 5.65 hours | 0.211 | - 7.86 hours - 20.61 to 4.89 hours | 0.227 |
| Length of admission n=3795 | 27.06 days14.00 days39.57 days | 23.54 days11.00 days40.04 days | - 3.51 days- 6.86 to - 0.17 days | 0.039 | - 2.64 days- 6.31 to 1.02 days | 0.158 |

1. Adjusted for NHS trust, age, employment/ accommodation status, primary/ secondary diagnosis, length of admission and detention status.

## Table 2

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| Table 2 - Analysis of demographic / clinical factors associated with weekend psychiatric hospital discharge |
|  | WeekDAY dischargeN(% of row) | WeekEND dischargeN (% of row) | Unadjusted OR(95% CI) | P | Adjustedb OR(95% CI) | P |
| Age n=3283 |  |  |  |  |  |  |
| <18 | 73 (94.8) | 4 (5.2) | 1.190.40 to 3.48 | 0.756 | 1.560.29 to 8.33 | 0.604 |
| 18 to 24 | 353 (94.6) | 20 (5.4) | 1.150.64 to 2.10 | 0.639 | 1.240.61 to 2.51 | 0.549 |
| 25 to 34 | 579 (94.0) | 37 (6.0) | 1.240.74 to 2.07 | 0.411 | 1.080.60 to 1.95 | 0.798 |
| 35 to 44 | 533 (96.4) | 20 (3.6) | 0.780.44 to 1.41 | 0.412 | 0.620.31 to 1.23 | 0.172 |
| 45 to 54 | 587 (95.1) | 30 (4.9) | Ref |  | Ref |  |
| 55 to 64 | 403 (94.8) | 22 (5.2) | 1.080.60 to 1.92 | 0.802 | 0.940.47 to 1.87 | 0.852 |
| 65 to 74 | 341 (96.9) | 11 (3.1) | 0.660.33 to 1.35 | 0.259 | 0.580.17 to 1.95 | 0.379 |
| 75+ | 257 (95.2) | 13 (4.8) | 0.970.49 to 1.94 | 0.933 | 0.860.25 to 2.98 | 0.810 |
| Gender n=3277 |  |  |  |  |  |  |
| Male | 1626 (94.8) | 89 (5.2) | Ref |  | Ref |  |
| Female | 1495 (95.7) | 67 (4.3) | 0.800.57 to 1.12 | 0.193 | 1.020.69 to 1.50 | 0.939 |
| Ethnicity n=3084 |  |  |  |  |  |  |
| White | 2620 (95.4) | 126 (4.6) | Ref |  | Ref |  |
| Black | 74 (97.4) | 2 (2.6) | 0.590.14 to 2.43 | 0.466 | 0.290.04 to 2.16 | 0.228 |
| Asian | 130 (96.3) | 5 (3.7) | 0.880.35 to 2.18 | 0.775 | 1.02 0.40 to 2.62 | 0.961 |
| Mixed | 59 (96.7) | 2 (3.3) | 0.380.05 to 2.75 | 0.337 | 0.390.05 to 2.88 | 0.357 |
| Other | 65 (98.5) | 1 (1.5) | 0.340.05 to 2.49 | 0.289 | 0.280.01 to 3.48 | 0.997 |
| Employment n=2867 |  |  |  |  |  |  |
| Unemployed | 702 (94.7) | 39 (5.3) | Ref |  | Ref |  |
| Employed | 752 (95.3) | 37 (4.7) | 0.890.56 to 1.43 | 0.640 | 0.770.45 to 1.33 | 0.344 |
| Long-term sick | 540 (94.2) | 33 (5.8) | 1.080.66 to 1.76 | 0.753 | 1.070.62 to 1.84 | 0.818 |
| Retired | 601 (96.2) | 24 (3.8) | 0.700.42 to 1.20 | 0.194 | 1.030.36 to 2.96 | 0.956 |
| Student | 134 (96.4) | 5 (3.6) | 0.710.27 to 1.83 | 0.473 | 0.630.17 to 2.31 | 0.485 |
| Accommodation n=3052 |  |  |  |  |  |  |
| Mainstream | 2427 (95.2) | 122 (4.8) | Ref |  | Ref |  |
| Supported | 155 (95.7) | 7 (4.3) | 0.810.35 to 1.87 | 0.618 | 0.690.25 to 1.93 | 0.690 |
| Homeless | 182 (90.5) | 19 (9.5) | 2.111.25 to 3.54 | 0.005 | 1.841.05 to 3.52 | 0.047 |
| Other | 137 (97.9) | 3 (2.1) | 0.470.15 to 1.48 | 0.196 | 0.420.10 to 1.75 | 0.235 |
| Detention Statusn = 3283 |  |  |  |  |  |  |
| Informal | 2608 (94.9) | 139 (5.1) | Ref |  | Ref |  |
| Formal | 518 (96.6) | 18 (3.4) | 0.690.42 to 1.15 | 0.153 | 0.730.41 to 1.30 | 0.283 |
|  | WeekDAY dischargeMeanMedianSTD | WeekEND dischargeMeanMedianSTD | UnadjustedB coefficient95% CI | P | AdjustedbB coefficient95% CI | P |
| Wait time for bedn=1981 | 31.52 hours5.42 hours49.09 hours | 18.94 hours5.47 hours40.05 hours | - 12.58 hours- 42.80 to 17.64 hours | 0.415 | - 8.73 hours- 33.45 to 15.98 hours | 0.488 |
| Length of admission n=3283 | 26.46 days14.00 days39.65 days | 22.91 days8.00 days40.53 days | - 3.55 days- 10.08 to 2.98 days | 0.286 | - 1.35 days- 8.66 to 5.97 days | 0.718 |

1. Adjusted for NHS trust, accommodation status, and primary/ secondary diagnosis.

## Table 3

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| Table 3 – association of weekend psychiatric hospital admission with quality of care measures.  |
| Primary outcome | WeekDAYadmissionN / total(%) | WeekEND admissionN / total(%) | OR 95% CI | P | Adjusteda OR 95% CI | P |
| Assessment included trauma? | 2058/2618 (78.6) | 557/712 (78.2) | 0.980.80 to 1.20 | 0.827 | 0.95 0.77 to 1.16 | 0.609 |
| Assessment included past treatment? | 2132/2602 (81.9) | 544/685 (79.4) | 0.850.69 to 1.05 | 0.132 | 0.93 0.65 to 1.15 | 0.479 |
| BMI recorded | 2177/3000 (72.6) | 549/795 (69.1) | 0.840.71 to 1.00 | 0.051 | 0.89 0.76 to 1.07 | 0.222 |
| Smoking status recorded | 2493/3000 (83.1) | 662/795 (83.3) | 1.010.82 to 1.25 | 0.909 | 1.03 0.83 to 1.27 | 0.793 |
| Care plan completed | 2717/2999 (90.6) | 728/795 (91.6) | 1.130.85 to 1.49 | 0.398 | 1.23 0.93 to 1.44 | 0.144 |
| Care plan developed jointly | 2238/2717 (82.4) | 588/728 (80.8) | 0.900.73 to 1.11 | 0.318 | 0.95 0.77 to 1.18 | 0.660 |
| Patient received copy of care plan | 1513/2717 (55.7) | 420/728 (57.7) | 1.090.92 to 1.28 | 0.333 | 1.12 0.94 to 1.32 | 0.202 |
| Carer provided info re: support services available | 1162/1859 (62.5) | 296/480 (61.7) | 0.970.79 to 1.17 | 0.735 | 0.99 0.83 to 1.27 | 0.820 |
| Carer offered care needs assessment | 448/1859 (24.1) | 131/480 (27.3) | 1.180.94 to 1.48 | 0.149 | 1.24 0.98 to 1.46 | 0.076 |
| Crisis plan in place at discharge | 1940/2592 (74.8) | 508/708 (71.8) | 0.850.71 to 1.03 | 0.096 | 0.88 0.63 to 1.06 | 0.178 |
| Prescribed medication at discharge? | 2639/3000 (88.0) | 678/795 (85.3) | 0.790.63 to 0.99\* | 0.043 | 0.89 0.70 to 1.13 | 0.338 |
| Medication reviewed during admission? | 2300/2612 (88.1) | 561/673 (83.4) | 0.680.54 to 0.86\* | 0.001 | 0.71 0.56 to 0.91\* | 0.005 |
| Patient given info re: medication? | 1917/2639 (72.6) | 499/678 (73.6) | 1.050.87 to 1.27 | 0.617 | 1.08 0.89 to 1.31 | 0.416 |
| TTA medication provided at discharge? | 1999/2360 (84.7) | 548/651 (84.2) | 0.960.76 to 1.22 | 0.742 | 1.06 0.83 to 1.36 | 0.629 |
| Medication reviewed after discharge? | 1349/1555 (86.8) | 339/396 (85.6) | 0.910.66 to 1.25 | 0.551 | 0.90 0.65 to 1.24 | 0.511 |
| Referred to psychology? | 1092/2999 (36.4) | 281/795 (35.3) | 0.960.81 to 1.12 | 0.578 | 0.99 0.84 to 1.17 | 0.932 |
| Outcome measure completed | 1832/3000 (61.1) | 482/795 (60.6) | 0.980.84 to 1.15 | 0.822 | 1.00 0.86 to 1.20 | 0.840 |
| Readmission within audit period | 328/2593 (12.5) | 84/708 (11.9) | 0.930.72 to 1.20 | 0.575 | 0.92 0.71 to 1.19 | 0.508 |
| Patient given notice of discharge | 2017/2593 (77.1) | 529/708 (74.7) | 0.840.70 to 1.02 | 0.085 | 0.92 0.66 to 1.23 | 0.429 |
| Carer given notice of discharge | 1119/1589 (70.4) | 282/422 (66.8) | 0.850.67 to 1.06 | 0.153 | 0.93 0.63 to 1.19 | 0.574 |
| Discharge letter sent to GP within 48 hours | 1164/2235 (52.1) | 319/598 (53.3) | 1.050.88 to 1.29 | 0.583 | 1.08 0.94 to 1.26 | 0.429 |
| Copy of care plan sent to accepting service | 1212/1608 (75.4) | 314/422 (74.4) | 0.950.74 to 1.22 | 0.683 | 1.01 0.79 to 1.31 | 0.895 |
| Follow-up within 48 hours of discharge | 1230/2231 (55.1) | 322/595 (54.1) | 0.960.80 to 1.15 | 0.659 | 0.96 0.80 to 1.16 | 0.680 |

1. Adjusted for NHS trust, age, employment/ accommodation status, primary/ secondary diagnosis, length of admission and detention status.

## Table 4

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| Table 4 – association of weekend psychiatric hospital discharge with quality of care measures.  |
| Primary outcome | WeekDAYdischargeN / total(%) | WeekEND dischargeN / total(%) | OR 95% CI | P | Adjustedb OR 95% CI | P |
| BMI recorded? | 2248/3126 (71.9) | 113/157 (72.0) | 1.00 0.70 to 1.43 | 0.987 | 0.97 0.67 to 1.41 | 0.886 |
| Smoking status recorded? | 2600/3126 (83.2) | 136/157 (86.6) | 1.31 0.82 to 2.09 | 0.259 | 1.25 0.77 to 1.93 | 0.361 |
| Care plan completed? | 2844/3125 (91.0) | 138/157 (87.9) | 0.72 0.44 to 1.18 | 0.189 | 0.78 0.45 to 1.33 | 0.358 |
| Care plan developed jointly? | 2322/2844 (81.6) | 113/138 (81.9) | 1.02 0.65 to 1.58 | 0.944 | 0.97 0.62 to 1.52 | 0.903 |
| Patient received copy of care plan? | 1595/2844 (56.1) | 80/138 (58.0) | 1.08 0.76 to 1.53 | 0.663 | 1.02 0.72 to 1.45 | 0.917 |
| Carer provided info re: support services available | 1194/1921 (62.2) | 53/81 (65.4) | 1.15 0.72 to 1.87 | 0.551 | 1.16 0.72 to 1.84 | 0.549 |
| Carer offered care needs assessment | 469/1921 (24.4) | 25/81 (30.9) | 1.38 0.85 to 2.24 | 0.189 | 1.33 0.81 to 1.98 | 0.256 |
| Crisis plan in place at discharge | 2330/3125 (74.6) | 102/157 (65.0) | 0.63 0.45 to 0.89\*\* | 0.008 | 0.65 0.46 to 0.92\* | 0.014 |
| Prescribed medication at discharge? | 2739/3126 (87.6) | 132/157 (84.1) | 0.075 0.48 to 1.16 | 0.192 | 0.80 0.51 to 1.28 | 0.355 |
| Medication reviewed during admission? | 2375/2734 (86.9) | 107/131 (81.7) | 0.67 0.43 to 1.06 | 0.090 | 0.67 0.42 to 1.07 | 0.095 |
| Patient given info re: medication? | 2005/2739 (73.2) | 92/132 (69.7) | 0.84 0.58 to 1.23 | 0.376 | 0.80 0.54 to 1.17 | 0.243 |
| TTA medication provided at discharge? | 2432/2854 (85.2) | 101/141 (71.6) | 0.44 0.30 to 0.64\*\* | <0.0001 | 0.45 0.30 to 0.66\*\* | <0.0001 |
| Medication reviewed after discharge? | 1602/1847 (86.7) | 76/93 (81.7) | 0.68 0.40 to 1.18 | 0.170 | 0.65 0.37 to 1.14 | 0.136 |
| Referred to psychology? | 1145/3125 (36.6) | 52/157 (33.1) | 0.86 0.061 to 1.20 | 0.372 | 0.92 0.65 to 1.31 | 0.654 |
| Outcome measure completed | 1930/3126 (61.7) | 83/157 (52.9) | 0.69 0.50 to 0.95\* | 0.027 | 0.70 0.50 to 0.97\* | 0.032 |
| Readmission within audit period | 391/3126 (12.5) | 21/157 (13.4) | 1.08 0.67 to 1.73 | 0.749 | 1.09 0.67 to 1.78 | 0.719 |
| Patient given notice of discharge | 2431/3126 (77.8) | 101/157 (64.3) | 0.052 0.37 to 0.72\*\* | <0.0001 | 0.55 0.39 to 0.78\*\* | 0.001 |
| Carer given notice of discharge | 1340/1921 (69.8) | 54/81 (66.7) | 0.87 0.054 to 1.39 | 0.554 | 0.89 0.54 to 1.44 | 0.622 |
| Discharge letter sent to GP within 48 hours | 1411/2694 (52.4) | 57/124 (46.0) | 0.67 0.45 to 0.98\* | 0.047 | 0.77 0.54 to 1.11 | 0.064 |
| Copy of care plan sent to accepting service | 1447/1914 (75.6) | 70/103 (68.0) | 0.69 0.045 to 1.05 | 0.082 | 0.68 0.44 to 1.05 | 0.083 |
| Follow-up within 48 hours of discharge | 1471/2685 (54.8) | 74/127 (58.3) | 1.15 0.80 to 1.65 | 0.441 | 1.16 0.81 to 1.68 | 0.419 |

1. Adjusted for NHS trust, accommodation status, and primary/ secondary diagnosis.