**Supplemental Table 1.** Results of Multivariate Regression Models with Multiple Imputation of Missing Data (Sensitivity Analysis)

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| **Dependent variable: LOS ≥ 10 d** (n = 8202; chi-square = 1044.8; *P* < 0.001; AUC = 0.72) |
|  | Unstandardized coefficients | OR | 95% CI for OR | *P* |
| B | Std. error | Lower bound | Upper bound |
| Age | 0.01 | 0.01 | 1.01 | 1.00 | 1.02 | 0.020 |
| Gender | 0.10 | 0.05 | 1.11 | 1.00 | 1.23 | 0.056 |
| ED-MEWS | 0.12 | 0.01 | 1.13 | 1.10 | 1.17 | < 0.001 |
| CCI | 0.08 | 0.01 | 1.08 | 1.06 | 1.10 | < 0.001 |
| CFS ≥6 | 0.40 | 0.06 | 1.49 | 1.33 | 1.67 | < 0.001 |
| HoD | 0.92 | 0.08 | 2.51 | 2.13 | 2.96 | < 0.001 |
| ACS | 1.41 | 0.10 | 4.08 | 3.35 | 4.96 | < 0.001 |
| Dc gen med | -0.85 | 0.08 | 0.43 | 0.37 | 0.50 | < 0.001 |
| Dc geri med | 0.10 | 0.08 | 1.11 | 0.94 | 1.30 | 0.213 |
| Dc surgery | 0.02 | 0.08 | 1.02 | 0.88 | 1.19 | 0.777 |
| **Dependent variable: inpatient mortality** (n = 8202; chi-square=828.0; *P* < 0.001; AUC = 0.82) |
|  | B | Std. error | OR | 95% CI for OR | *P* |
| Age | 0.05 | 0.01 | 1.05 | 1.04 | 1.07 | < 0.001 |
| Gender | -0.28 | 0.09 | 0.76 | 0.63 | 0.91 | 0.003 |
| ED-MEWS | 0.50 | 0.02 | 1.66 | 1.58 | 1.73 | < 0.001 |
| CCI | 0.13 | 0.01 | 1.14 | 1.11 | 1.17 | < 0.001 |
| CFS ≥6  | 0.75 | 0.10 | 2.13 | 1.74 | 2.60 | < 0.001 |
| HoD | -0.52 | 0.15 | 0.59 | 0.45 | 0.79 | < 0.001 |
| ACS | -0.09 | 0.17 | 0.92 | 0.66 | 1.28 | 0.608 |
| Dc gen med | 0.34 | 0.14 | 1.40 | 1.07 | 1.84 | 0.014 |
| Dc geri med | 0.19 | 0.15 | 1.21 | 0.90 | 1.63 | 0.202 |
| Dc surgery | 0.30 | 0.16 | 1.35 | 0.99 | 1.83 | 0.057 |
| **Dependent variable: delayed discharge** (n = 8202; chi-square = 657.5; *P*< 0 .001; AUC = 0.68) |
|  | B | Std. error | OR | 95% CI for OR | *P* |
| Age | 0.03 | 0.01 | 1.03 | 1.02 | 1.04 | < 0.001 |
| Gender | 0.05 | 0.05 | 1.05 | 0.95 | 1.16 | 0.378 |
| ED-MEWS | 0.01 | 0.02 | 1.01 | 0.98 | 1.04 | 0.437 |
| CCI | 0.02 | 0.01 | 1.02 | 1.00 | 1.03 | 0.078 |
| CFS ≥6 or more | 0.36 | 0.06 | 1.43 | 1.28 | 1.60 | < 0.001 |
| HoD | 0.89 | 0.08 | 2.43 | 2.07 | 2.86 | < 0.001 |
| ACS | 1.00 | 0.10 | 2.71 | 2.25 | 3.27 | < 0.001 |
| Dc gen med | -0.18 | 0.08 | 0.84 | 0.72 | 0.97 | 0.021 |
| Dc geri med | 0.38 | 0.08 | 1.46 | 1.24 | 1.71 | < 0.001 |
| Dc surgery | -0.17 | 0.08 | 0.84 | 0.72 | 0.99 | 0.038 |
| **Dependent variable: discharge to care home (institutionalization)** (n = 8202; chi-square=710.4; *P* < 0.001; AUC = 0.77) |
|  | B | Std. error | OR | 95% CI for OR | *P* |
| Age | 0.04 | 0.01 | 1.04 | 1.03 | 1.06 | < 0.001 |
| Gender | 0.38 | 0.08 | 1.46 | 1.24 | 1.72 | < 0.001 |
| ED-MEWS | 0.00 | 0.02 | 1.00 | 0.96 | 1.05 | 0.860 |
| CCI | 0.03 | 0.01 | 1.03 | 1.00 | 1.05 | 0.041 |
| CFS ≥6  | 0.96 | 0.09 | 2.60 | 2.18 | 3.11 | < 0.001 |
| HoD | 1.02 | 0.10 | 2.77 | 2.27 | 3.38 | < 0.001 |
| ACS | 0.74 | 0.13 | 2.09 | 1.63 | 2.68 | < 0.001 |
| Dc gen med | 0.07 | 0.13 | 1.08 | 0.83 | 1.40 | 0.584 |
| Dc geri med | 0.67 | 0.13 | 1.94 | 1.50 | 2.52 | < 0.001 |
| Dc surgery | 0.06 | 0.15 | 1.06 | 0.79 | 1.41 | 0.703 |
| **Dependent variable: 30-d readmission** (n = 8202; chi-square = 175.9; *P* < 0.001; AUC = 0.59) |
|  | B | Std. error | OR | 95% CI for OR | *P* |
| Age | 0.02 | 0.00 | 1.02 | 1.01 | 1.03 | < 0.001 |
| Gender | -0.06 | 0.05 | 0.95 | 0.86 | 1.04 | 0.272 |
| ED-MEWS | -0.08 | 0.01 | 0.92 | 0.90 | 0.95 | < 0.001 |
| CCI | 0.06 | 0.01 | 1.06 | 1.04 | 1.07 | < 0.001 |
| CFS ≥6 or more | 0.07 | 0.06 | 1.08 | 0.96 | 1.20 | 0.189 |
| HoD | 0.07 | 0.09 | 1.07 | 0.91 | 1.27 | 0.407 |
| ACS | 0.34 | 0.10 | 1.40 | 1.16 | 1.70 | 0.001 |
| Dc gen med | 0.24 | 0.07 | 1.27 | 1.10 | 1.47 | 0.001 |
| Dc geri med | 0.08 | 0.08 | 1.08 | 0.92 | 1.27 | 0.321 |
| Dc surgery | -0.18 | 0.08 | 0.84 | 0.72 | 0.98 | 0.026 |

NOTE: The reference category for gender is male (male=0; female=1). Abbreviations: ACS, acute confusional state; AUC, area under the curve; CFS, Clinical Frailty Scale; CCI, Charlson Comorbidity Index; Dc, discharge; gen med, general medicine; geri med, geriatric medicine; ED-MEWS, Emergency Department Modified Early Warning Score; HoD, history of dementia; LOS, length of stay; n, number.