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| **Supplementary table 1:** Description of coefficients – predicting extended duration of hospital admission | | |
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| **Field type** | **Variable group** | **Variables** |
| NLP derived | Catatonia | Catalepsy**1**, echolalia**4**, echopraxia**6**, immobile**4**, mannerism**1**, mutism**6**, perseverance**4**, posturing**1**, rigidity**4**, stupor**6** and waxy flexibility**2** |
| Disorganised | Abstract thinking**4**, anhedonia**1**, circumstantial speech**6**, derailment**4**, flight of ideas**6**, formal thought disorder**6**, reduced coherence**4**, tangential speech**1** and thought block**4** |
| Manic | Disturbed sleep**6**, elation**4**, elevated mood**6**, euphoria**6**, grandiosity**4**, insomnia**1**, irritability**4** and pressured speech**1** |
| Prescribed medication | Antipsychotics6, clozapine5, **medication non-compliance** 4, f**irst generation antipsychotic (depot)**4, **first generation antipsychotic (not depot)**4, second **generation antipsychotic (depot)**4 and second **generation antipsychotic** not depot6 |
| Mood | Affective instability**1**, emotional instability**1** and mood instability**4** |
| Negative symptoms | Apathy**1**, blunted/flat affect**4**, emotional withdrawal**4**, poor rapport**4**, poverty of speech**1**, poverty of thought**4** and social withdrawal**4** |
| Positive symptoms | Aggression**6**, agitation**6**, arousal**4**, delusions**6**, hallucinations**4**, hostility**4**, paranoia**4** and persecutory ideas**1** |
| Structured | Current admission | Admission source**6**, admission service type**4** and MHA status**6** |
| Demographic/patient | Age**1**, days since last diagnosis**4**, deprivation group**1**, diagnosis**6**, ethnicity**1**, gender**4**, lives with**4** and marital status**4** |
| Health of nation outcome scale (HoNOS) | Days since HoNOS**4**, agitated behaviour**3**, cognitive problems**3**, daily living problems**1**, depressed mood**4**, hallucinations**6**, living conditions**4**, occupational problems**4**, other mental health problems**4**, physical illness**4**, problem drinking/drugs**4**, relationship problems**6** and self-injury**4** |
| Previous service use | Care co-ordinators(n)**6**, character count**6**, contact days**4**, care coordinator contact days**5**, care coordinator professional group**4**, days since discharge**6**, number of attended appointments**1**, previous admissions over 7 days**4**, previous admissions**4**, previous admissions average duration**4** and previous admissions over 7 days average duration**4** |
| **1** removed at univariate regression, **2** removed as standardised residuals > 3, **3** removed due to high correlation, **4** variables entered but not output by multivariate regression, **5** removed due to inflated standard error and **6** predictors of a higher duration of hospitalisation | | |