### Supplementary Table 1: Multivariable analysis of factors at T1 associated with psychotropic prescriptions at T2 for the linked cohort (N=545)

|                | Antipsychotics | Antidepressants | Hypnotics/anxiolytics | Antiepileptics | Lithium* |
|----------------|----------------|-----------------|------------------------|----------------|----------|
|                | OR (95% CI)    | p-value         | OR (95% CI)            | p-value        | OR (95% CI)    | p-value |
| Male sex       | 0.96 (0.63, 1.47) | 0.848           | 0.59 (0.38, 0.89)      | 0.013          | 0.83 (0.46, 1.50) | 0.545 |
|                | 0.97 (0.66, 1.42) | 0.874           | 0.92 (0.25, 1.09)      | 0.894          |          |
| Age at T1      | 1.04 (1.02, 1.06) | < 0.001         | 1.01 (1.00, 1.03)      | 0.167          | 1.00 (0.98, 1.02) | 0.993 |
|                |                |                 |                        |                | 0.99 (0.98, 1.00) | 0.158 |
|                |                |                 |                        |                | 1.04 (0.99, 1.09) | 0.160 |
| Level of ID    | -              | 0.018           | -                      | 0.002          | -         |
| Mild           | REF            | REF             | REF                    | REF            | REF       |
| Moderate       | 1.71 (1.02, 2.87) | 0.041           | 0.90 (0.55, 1.48)      | 0.680          | 1.16 (0.56, 2.38) | 0.690 |
|                |                |                 |                        |                | 1.56 (0.99, 2.48) | 0.057 |
|                |                |                 |                        |                | 2.91 (0.68, 12.53) | 0.152 |
| Severe         | 2.31 (1.29, 4.15) | 0.005           | 0.57 (0.30, 1.08)      | 0.083          | 0.75 (0.28, 1.97) | 0.554 |
|                |                |                 |                        |                | 1.66 (0.96, 2.86) | 0.071 |
|                |                |                 |                        |                | 0.90 (0.09, 8.80) | 0.928 |
| Profound       | 1.07 (0.53, 2.18) | 0.853           | 0.22 (0.09, 0.56)      | 0.006          | 1.71 (0.71, 4.11) | 0.229 |
|                |                |                 |                        |                | 3.57 (1.96, 6.5) | 0.001 |
|                |                |                 |                        |                | 1.39 (0.14, 13.74) | 0.780 |
| Mental ill-health** | 3.50 (2.02, 6.06) | < 0.001         | 2.73 (1.58, 4.70)      | < 0.001        | 2.79 (1.34, 5.81) | 0.006 |
|                |                |                 |                        |                | 1.33 (0.78, 2.27) | 0.294 |
| Problem behaviours | 5.47 (3.25, 9.22) | < 0.001         | 2.75 (1.59, 4.76)      | < 0.001        | 2.08 (1.00, 4.34) | 0.050 |
|                |                |                 |                        |                | 1.35 (0.83, 2.17) | 0.225 |

*Mental illness and problem behaviours excluded from Lithium model due to small numbers

**Not including problem behaviours