

Supplementary Table 1: Median (IQR) time (years) for which antipsychotics are prescribed by the three most commonly prescribed first and second generation antipsychotics by indication

| Diagnosis | Haloperidol | | Chlorpromazine | | Trifluoperazine | | Olanzapine | | Quetiapine | | Risperidone | |
|-----------------------|-------------|--------------|----------------|--------------|-----------------|--------------|------------|--------------|------------|--------------|-------------|--------------|
| | Median | IQR | Median | IQR | Median | IQR | Median | IQR | Median | IQR | Median | IQR |
| SMI* | | | | | | | | | | | | |
| Schizophrenia | 0.62 | (0.13, 2.25) | 0.89 | (0.19, 2.85) | 1.19 | (0.28, 3.80) | 1.62 | (0.56, 3.82) | 0.93 | (0.30, 2.46) | 1.15 | (0.33, 2.97) |
| Bipolar disorder | 0.41 | (0.08, 1.51) | 0.57 | (0.08, 2.17) | 0.46 | (0.09, 1.63) | 1.00 | (0.30, 2.55) | 0.93 | (0.30, 2.04) | 0.76 | (0.19, 2.16) |
| Other SMI | 0.30 | (0.08, 1.13) | 0.64 | (0.10, 2.50) | 0.80 | (0.13, 2.60) | 1.14 | (0.36, 2.78) | 0.90 | (0.32, 2.11) | 0.77 | (0.22, 2.18) |
| On SMI register only | 0.64 | (0.15, 2.65) | 1.72 | (0.40, 4.38) | 1.07 | (0.16, 3.53) | 1.92 | (0.61, 4.31) | 1.45 | (0.45, 3.49) | 1.84 | (0.43, 4.61) |
| Non-SMI* | | | | | | | | | | | | |
| Any non-SMI diagnosis | 0.32 | (0.08, 0.98) | 0.31 | (0.08, 1.37) | 0.18 | (0.08, 0.97) | 0.67 | (0.19, 1.81) | 0.96 | (0.33, 1.96) | 0.77 | (0.23, 1.93) |
| ADHD | 0.77 | (0.20, 1.47) | 0.69 | (0.15, 1.49) | 0.16 | (0.08, 1.30) | 0.48 | (0.13, 0.94) | 0.52 | (0.15, 1.33) | 0.90 | (0.38, 1.88) |
| Anxiety | 0.18 | (0.08, 0.78) | 0.31 | (0.08, 1.25) | 0.19 | (0.08, 1.01) | 0.63 | (0.18, 1.64) | 0.87 | (0.27, 1.83) | 0.59 | (0.14, 1.72) |
| Depression | 0.27 | (0.08, 0.90) | 0.32 | (0.08, 1.33) | 0.21 | (0.08, 1.04) | 0.66 | (0.19, 1.73) | 0.90 | (0.29, 1.86) | 0.61 | (0.16, 1.65) |
| Dementia | 0.47 | (0.11, 1.12) | 0.44 | (0.08, 1.27) | 0.46 | (0.08, 1.31) | 1.10 | (0.33, 2.44) | 1.30 | (0.57, 2.41) | 0.71 | (0.27, 1.49) |
| OCD | 0.33 | (0.08, 0.90) | 0.48 | (0.08, 2.24) | 0.31 | (0.08, 1.05) | 0.59 | (0.15, 1.72) | 0.77 | (0.25, 1.73) | 0.59 | (0.20, 2.09) |
| PD | 0.26 | (0.08, 1.22) | 0.62 | (0.16, 1.65) | 0.21 | (0.08, 1.13) | 0.58 | (0.22, 1.61) | 0.82 | (0.30, 1.72) | 0.59 | (0.18, 1.70) |
| PTSD | 0.09 | (0.06, 0.34) | 0.36 | (0.08, 1.21) | 0.08 | (0.08, 0.58) | 0.67 | (0.19, 2.01) | 0.92 | (0.34, 1.86) | 0.63 | (0.21, 1.95) |
| Sleep disorders | 0.21 | (0.08, 0.77) | 0.25 | (0.08, 1.21) | 0.17 | (0.08, 0.89) | 0.63 | (0.16, 1.67) | 0.91 | (0.27, 1.84) | 0.64 | (0.17, 1.67) |
| None of the above* | 0.29 | (0.08, 0.93) | 0.24 | (0.08, 1.86) | 0.10 | (0.08, 0.71) | 0.66 | (0.16, 2.15) | 0.73 | (0.25, 1.68) | 1.14 | (0.38, 2.82) |

Abbreviations: SMI serious mental illness; ADHD attention deficit hyperactivity disorder; OCD obsessive compulsive disorder; PD personality disorder; PTSD post-traumatic stress disorder

*If a person has an SMI diagnosis, any non-SMI diagnoses will not be included in the numbers below. For those who do not have an SMI diagnosis, all non-SMI diagnoses will be shown (ie, they are not mutually exclusive). "None of the above" means not having an SMI diagnosis or any of the non-SMI diagnoses in the table.