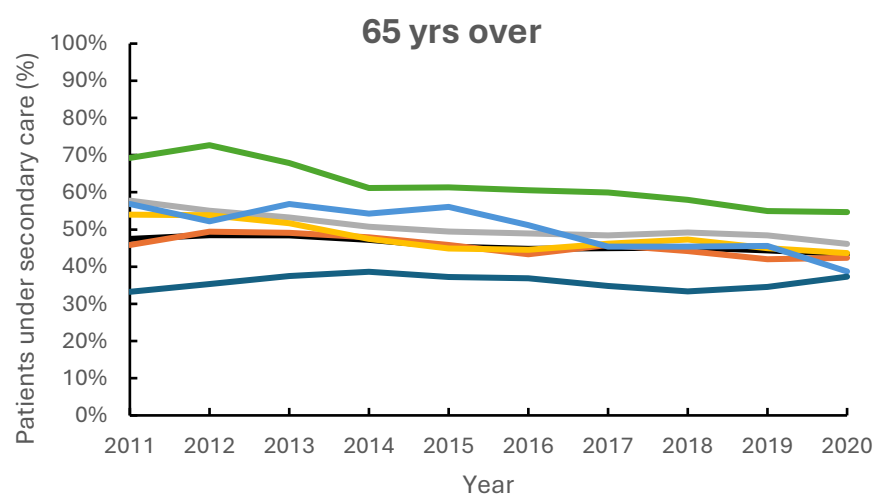
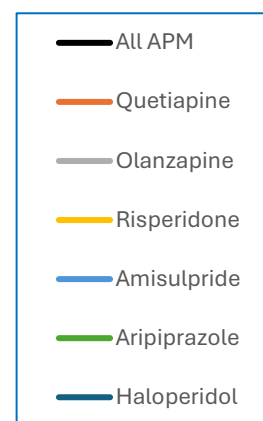
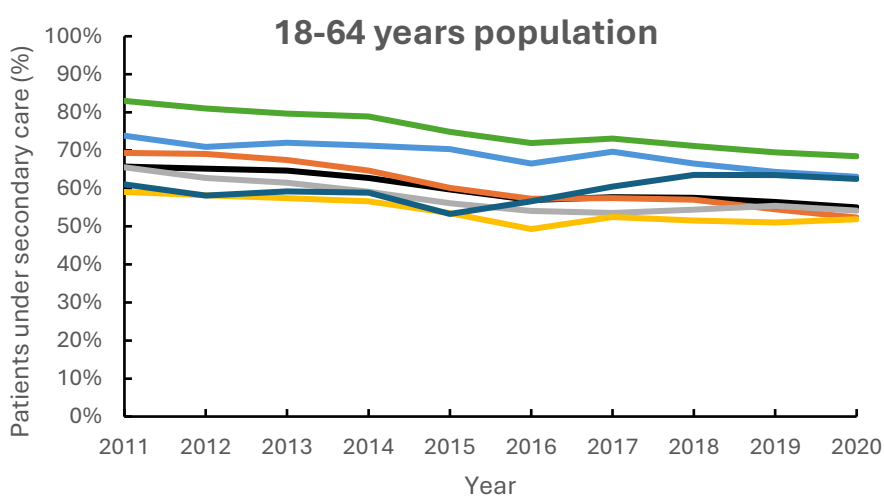
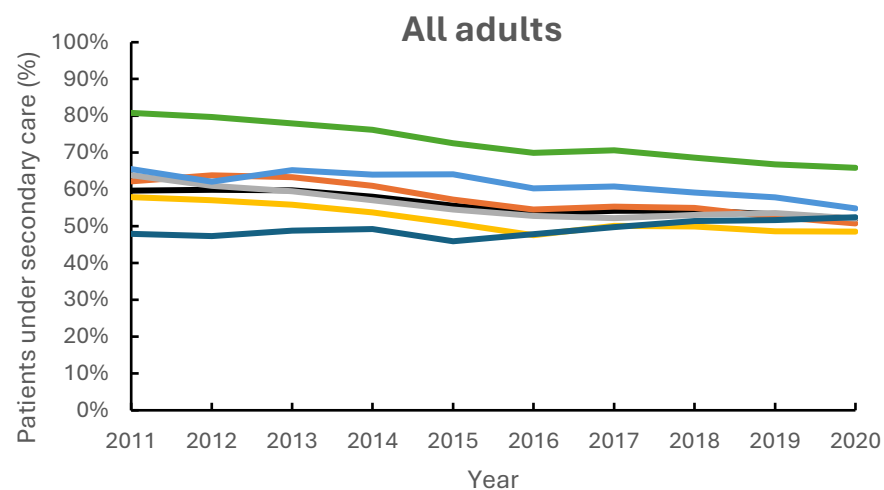
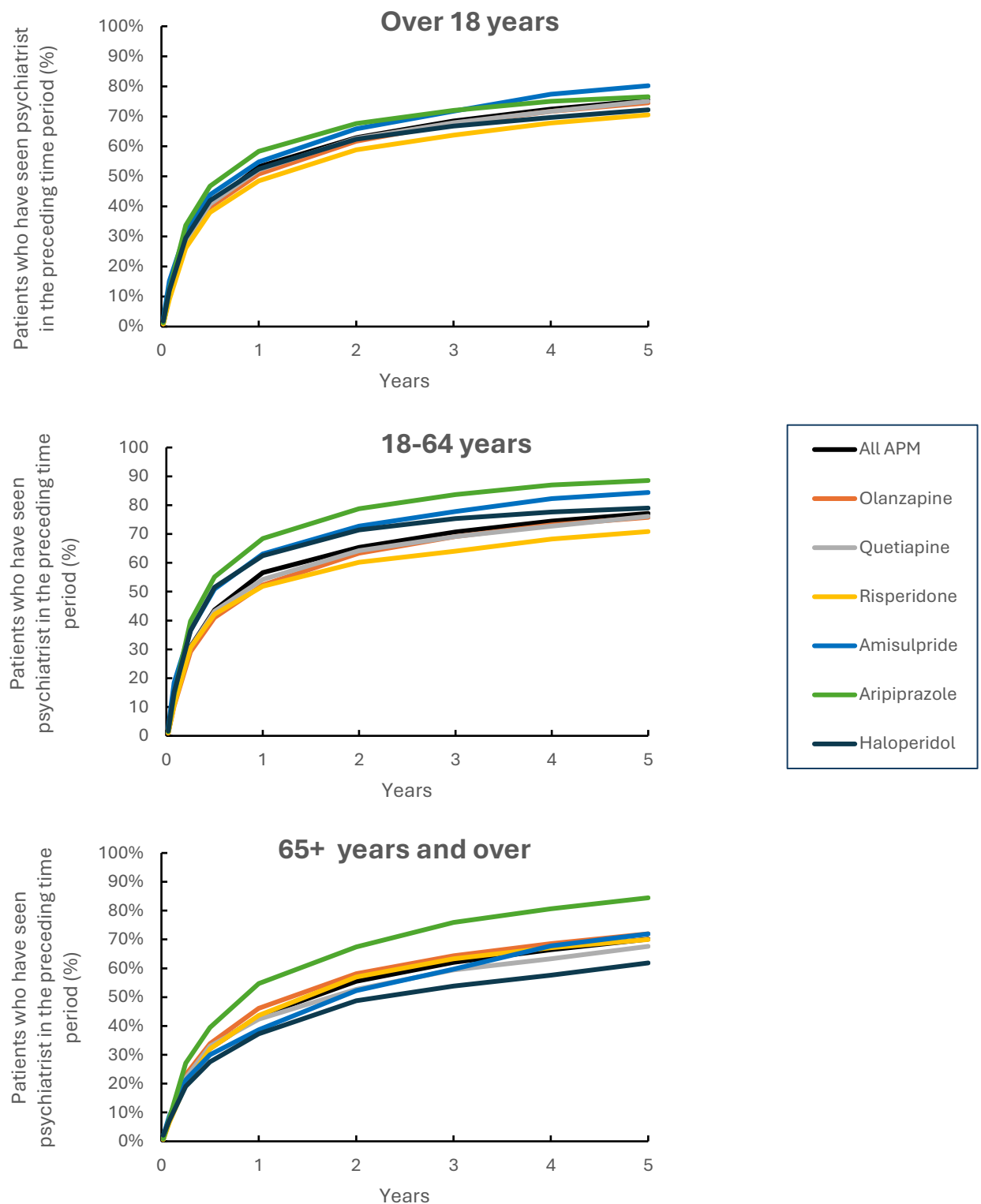


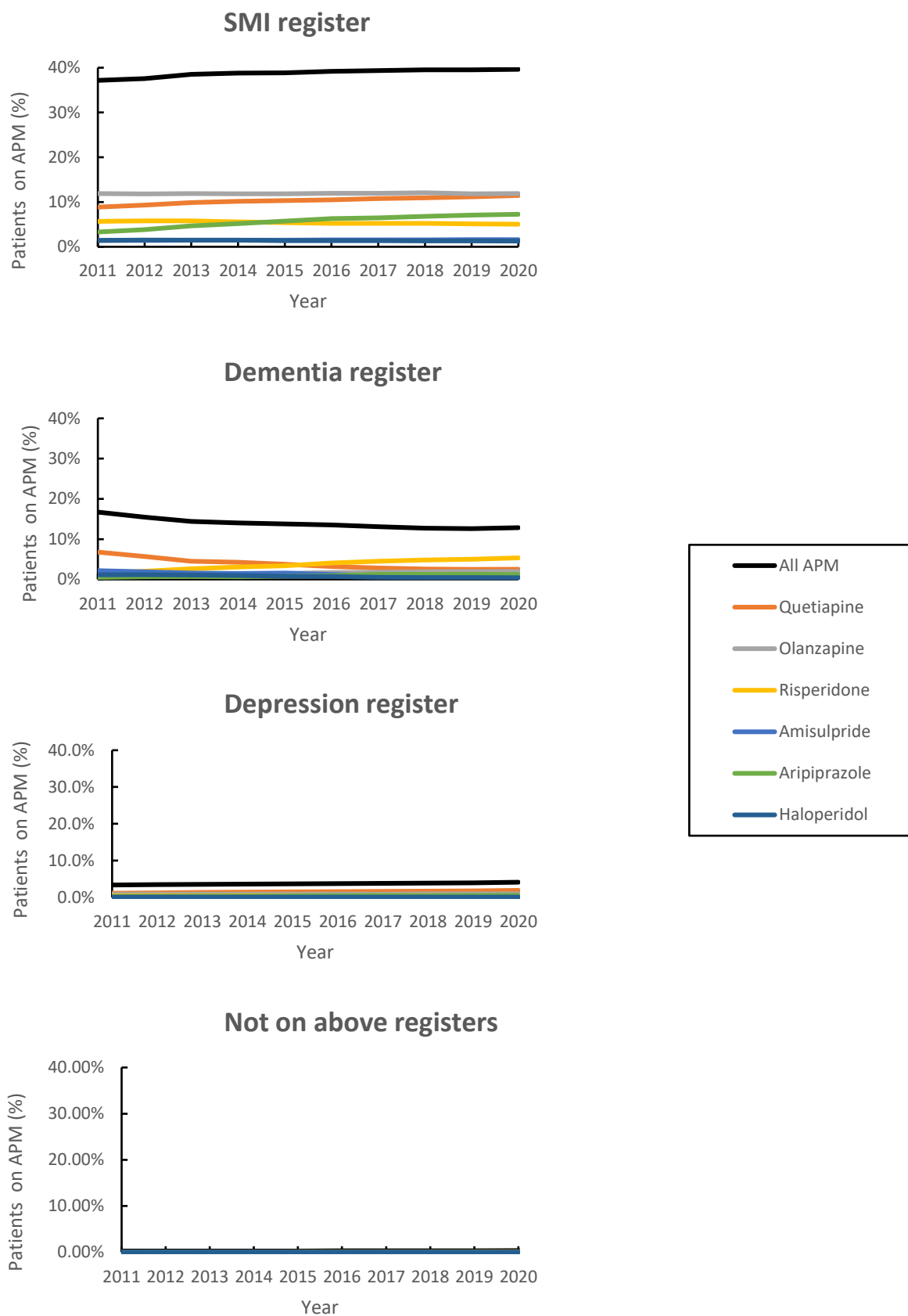
**Figure S1: Prevalence of long-term antipsychotic use between 2011 and 2020**



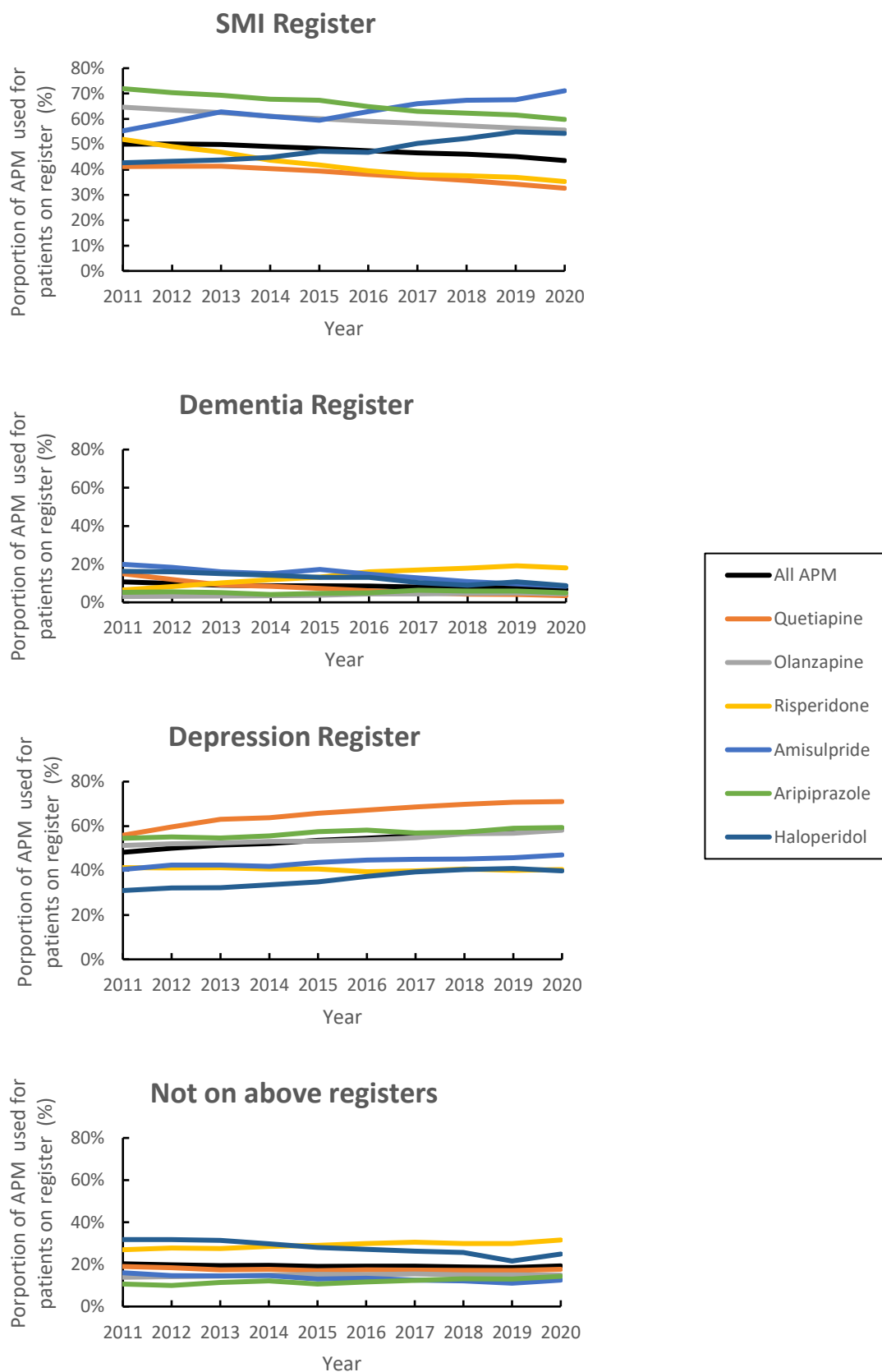
**Figure S2: Proportions of patients taking long-term antipsychotics who have had psychiatric review in previous 12 months**



**Figure S3: Proportions of patients in 2020 prescribed long-term antipsychotics who have had psychiatric review in the preceding time period of up to 5 years**



**Figure S4: Proportions of patients on QOF registers on long-term antipsychotics**



**Figure S5: Proportion of overall antipsychotic use prescribed to patients on each QOF register**

	QOF Register (annual contract requirements)			
	SMI	Dementia	Depression	No register
<b>Patients taking antipsychotic with typical diagnoses</b>	Schizophrenia; Bipolar disorder; Psychotic depression	Vascular dementia; Alzheimer's disease	Moderate depressive disorder	Generalised anxiety disorder; Autism
<b>Registration</b>	Yes	Yes	Yes	No
<b>GP review</b>	Yes	Yes	Yes	No
<b>Blood pressure</b>	Yes	No	No	No
<b>BMI</b>	Yes	No	No	No
<b>Lipids</b>	Yes	No	No	No
<b>HBA1c /glucose</b>	Yes	Yes	No	No
<b>Alcohol consumption</b>	Yes	No	No	No

**Table S1: QOF register contractual requirements in the Primary Care GP Contract.**

These contractual requirements varied from UK nation to nation over the study period. The table shows the typical monitoring that a patient with a diagnosis would experience according to each register.

**Table S2: Counts of patients (all ages) on long-term antipsychotics and licenced indications in UK national formulary.**

Antipsychotic	Read code (5-digit)	Count (2011)	Relative proportion (%) (2011)	Count (2020)	Relative Proportion (%) (2020)	First or Second Generation	Licensed indication in UK British National Formulary (2024)						
							Psychosis/agitation in Serious Mental Illness (Schizophrenia, Bipolar Disorder, Psychotic Depression)	Psychosis in Parkinson's Disease	Management of Behavioural and Psychological Symptoms in Dementia	Depression (adjunctive treatment, psychosis not required)	Anxiety	Control of deviant antisocial sexual behaviour	Non-psychiatric uses (e.g. nausea)
Quetiapine	d4s..	6362	28.0	12338	37.1	2	YES	NO	NO	YES	NO	NO	NO
Olanzapine	d4r.. OR d58..	5430	23.9	7527	22.6	2	YES	NO	NO	NO	NO	NO	NO
Risperidone	d4p..	3377	14.8	5106	15.3	2	YES	NO	NO	NO	NO	NO	NO
Amisulpride	d4t..	1531	6.7	1190	3.6	2	YES	NO	NO	NO	NO	NO	NO
Aripiprazole	d4v..	1381	6.1	4303	12.9	2	YES	NO	NO	NO	NO	NO	NO
Haloperidol	d47.. OR d55..	997	4.4	825	2.5	1	YES	NO	YES	NO	NO	NO	YES
Chlorpromazine	d41..	971	4.3	633	1.9	1	YES	NO	NO	NO	YES	NO	YES
Trifluoperazine	d4h..	669	2.9	117	0.4	1	YES	NO	NO	NO	YES	NO	YES
Pericyazine	d4a..	576	2.5	176	0.5	1	YES	NO	NO	NO	YES	NO	NO
Promazine	d4e..	508	2.2	244	0.7	1	YES	NO	NO	NO	NO	NO	YES
Sulpride	d4f..	490	2.2	271	0.8	1	YES	NO	NO	NO	NO	NO	NO
Zuclopenthixol	d4j.. OR d57	211	0.9	257	0.8	1	YES	NO	NO	NO	NO	NO	NO
Flupentixol	d51..	159	0.7	104	0.3	1	YES	NO	NO	YES	NO	NO	NO
Benperidol	d42..	39	0.2	34	0.1	1	NO	NO	NO	NO	NO	YES	NO
Pimozide	d4c..	23	0.1	10	0.0	1	YES	NO	NO	NO	NO	NO	NO
Clozapine	d4l..	14	0.1	8	0.0	2	YES	YES	NO	NO	NO	NO	NO
Paliperidone	d4w..	<5	0.0	14	0.0	2	YES	NO	NO	NO	NO	NO	NO
Asenapine	d4x..	<5	0.0	<5	0.0	2	YES	NO	NO	NO	NO	NO	NO
Cariprazine	not listed in d4..	<5	0.0	<5	0.0	2	YES	NO	NO	NO	NO	NO	NO
Lurasidone	d4y..	<5	0.0	<5	0.0	2	YES	NO	NO	NO	NO	NO	NO
Droperidol	d44..	<5	0.0	<5	0.0	1	NO	NO	NO	NO	NO	NO	YES
Loxapine	d4k..	<5	0.0	<5	0.0	1	YES	NO	NO	NO	NO	NO	NO

Zuclopenthixol acetate	d4n..	<5	0.0	<5	0.0	1	YES	NO	NO	NO	NO	NO	NO
Prochlorperazine as antipsychotic (excluded from 'total count as not used as an antipsychotic in UK)*	D4d.. (Dhe.. Antiemetic code use is not captured under d4 code)	<5	N/A	<5	N/A	N/A	YES	NO	NO	NO	YES	NO	YES
Levomepromazine (excluded from 'total count as not used as an antipsychotic in UK)*	d48..	68	N/A	158	N/A	N/A	YES	NO	NO	NO	NO	NO	YES
Total (individual antipsychotic counts)		22773	100.1	33187	99.7	N/A							
Total (top 6 antipsychotic used in 2020)		19078	83.9	31289	94.0	N/A							
Total 1 <sup>st</sup> Generation antipsychotic		4658	20.5	2686	8.1	N/A							
Total 2 <sup>nd</sup> Generation antipsychotic		18115	79.7	30501	91.7	N/A							
"ALL antipsychotic Total"	codes d4... and d5... excluding any prochlorperazine antiemetic codes (dhe..) and levomepromazine codes	22119	N/A	32086	N/A	N/A							
All antipsychotics (total as a % of summation of individual antipsychotic count)		97.1	N/A	96.7	N/A	N/A							