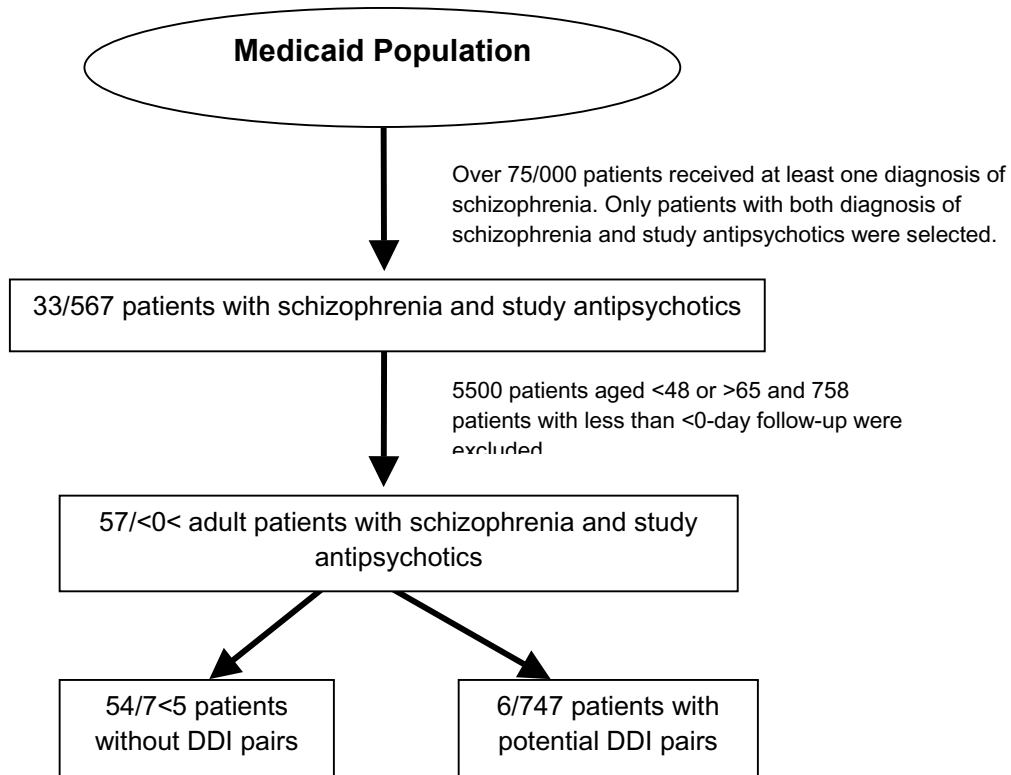


**Figure 1. Selection of study patients with schizophrenia in a large state's Medicaid population**



**Appendix 1. Potentially harmful drug-drug-interaction pairs Involving six atypical antipsychotics (risperidone, olanzapine, quetiapine, ziprasidone, aripiprazole, clozapine) and three typical antipsychotics (haloperidol, perphenazine, chlorpromazine)**

<b>Antipsychotic and Interacting Drug</b>	<b>Significance *</b>	<b>Interaction Type</b>	<b>Enzyme Type</b>
<b>Aripiprazole</b>			
Aripiprazole with Itraconazole	5	Inhibitor	3A7
Aripiprazole with Ketoconazole	5	Inhibitor	3A7
Aripiprazole with Carbamazepine	5	Inducer	3A7
Aripiprazole with Quinidine	5	Inhibitor	5D6
Aripiprazole with Fluoxetine	7	Inhibitor	5D6
Aripiprazole with Paroxetine	7	Inhibitor	5D6
<b>Clozapine</b>			
Clozapine with Ritonavir	4	Inhibitor	3A7
Clozapine with Citalopram	4	Inhibitor	5D6
Clozapine with Fluoxetine	4	Inhibitor	5D6
Clozapine with Sertraline	4	Inhibitor	5D6
Clozapine with Fluvoxamine	4	Inhibitor	3A7
Clozapine with Phenobarbital	5	Inducer	3A7
Clozapine with Carbamazepine	7	Inducer	3A7
Clozapine with Cimetidine	7	Inhibitor	4A5
Clozapine with Phenytoin	7	Inhibitor	3A7
Clozapine with Ciprofloxacin	7	Inhibitor	4A5
Clozapine with Norfloxacin	7	Inhibitor	3A7
Clozapine with Rifabutin	7	Inducer	3A7
Clozapine with Rifampin	7	Inducer	3A7
Clozapine with Rifapentine	7	Inducer	3A7
<b>Olanzapine</b>			
Olanzapine with Ritonavir	5	Inhibitor	4A5
Olanzapine with Haloperidol	7	Inhibitor	5D6
Olanzapine with Clomipramine	7	Inhibitor	5D6
Olanzapine with Fluvoxamine	7	Inhibitor	4A5
Olanzapine with Ciprofloxacin	7	Inhibitor	4A5
Olanzapine with Norfloxacin	7	Inhibitor	4A5
Olanzapine with Carbamazepine	7	Inducer	4A5
Olanzapine with Fluoxetine	7	inhibitor	4A5
<b>Quetiapine</b>			
Quetiapine with Fluconazole	5	Inhibitor	3A7
Quetiapine with Itraconazole	5	Inhibitor	3A7
Quetiapine with Ketoconazole	5	Inhibitor	3A7
Quetiapine with Voriconazole	5	Inhibitor	3A7
Quetiapine with Phenytoin	5	Inducer	3A7
Quetiapine with Carbamazepine	7	Inducer	3A7
Quetiapine with Clarithromycin	7	Inhibitor	3A7
Quetiapine with Erythromycin	7	Inhibitor	3A7
Quetiapine with Fluvoxamine	7	Inhibitor	3A7
<b>Risperidone</b>			
Risperidone with Fluoxetine	4	Inhibitor	5D6
Risperidone with Paroxetine	4	Inhibitor	5D6
Risperidone with Sertraline	4	Inhibitor	5D6
Risperidone with Fluconazole	5	Inhibitor	3A7
Risperidone with Itraconazole	5	Inhibitor	3A7
Risperidone with Ketoconazole	5	Inhibitor	3A7
Risperidone with Carbamazepine	7	Inducer	5D6
Risperidone with Thioridazine	7	Inhibitor	5D6
Risperidone with Amprenavir	7	Inhibitor	3A7
Risperidone with Atazanavir	7	Inhibitor	3A7
Risperidone with Indinavir	7	Inhibitor	3A7

Risperidone with Lopinavir/Ritonavir	7	Inhibitor	3A7
Risperidone with Nelfinavir	7	Inhibitor	3A7
Risperidone with Ritonavir	7	Inhibitor	3A7
Risperidone with Saquinavir	7	Inhibitor	3A7
<b>Ziprasidone</b>			
Ziprasidone with Thioridazine	4	Inhibitor	3A7
Ziprasidone with Chlorpromazine	4	Inducer	3A7
Ziprasidone with Quinidine	4	Inhibitor	5D6
Ziprasidone with Amiodarone	4	Inhibitor	3A7
Ziprasidone with Pimozide	4	Inducer	3A7
Ziprasidone with Carbamazepine	5	Inducer	3A7
Ziprasidone with Ketoconazole	7	Inhibitor	3A7
<b>Haloperidol</b>			
Haloperidol with Fluconazole	5	Inhibitor	3A7
Haloperidol with Itraconazole	5	Inhibitor	3A7
Haloperidol with Ketoconazole	5	Inhibitor	3A7
Haloperidol with Carbamazepine	5	Inducer	3A7
Haloperidol with Rifabutin	5	Inducer	3A7
Haloperidol with Rifampin	5	Inducer	3A7
Haloperidol with Primidone	7	Inducer	4A5
Haloperidol with Fluvoxamine	7	Inhibitor	4A5
Haloperidol with Fluphenazine	7	Inhibitor	5D6
Haloperidol with Perphenazine	7	Inhibitor	5D6
Haloperidol with Thioridazine	7	Inhibitor	5D6
Haloperidol with Quinidine	7	Inhibitor	5D6
<b>Perphenazine</b>			
Perphenazine with Paroxetine	5	Inhibitor	5D6
Perphenazine with Haloperidol	7	Inhibitor	5D6
Perphenazine with Phenytoin	7	Inducer	3A7
<b>Chlorpromazine</b>			
Chlorpromazine with Propranolol	4	Inhibitor	4A5
Chlorpromazine with Fluoxetine	4	Inhibitor	5D6
Chlorpromazine with Ziprasidone	4	Inhibitor	3A7
Chlorpromazine with Paroxetine	5	Inhibitor	5D6
Chlorpromazine with Amphetamine	7	Inhibitor	5D6
Chlorpromazine with Haloperidol	7	Inhibitor	5D6
Chlorpromazine with Phenytoin	7	Inhibitor	3A7
Chlorpromazine with Trazodone	7	Inhibitor	5D6

\* 4 (major) refers to a potentially severe or life-threatening interaction/ capable of causing permanent damage.

\* 5 (moderate) refers to an interaction that may cause deterioration in a patient's clinical status/ possibly requiring additional treatment/ hospitalization/ or an extended hospital stay.

\* 7 (major/moderate) refers to a potentially severe or life threatening interaction/ capable of causing permanent damage/ or an interaction that may cause deterioration in a patient's clinical status/ possibly requiring additional treatment/ hospitalization/ or an extended hospital stay.

**Sources:** Facts & Comparisons 7.0/ 5006/ Facts and Comparisons. Drug interaction facts. Wolters Kluwer Co. 444 West Port Plaza/ Suite 700. St. Louis/ Missouri/ USA; FDA approved labeling or product package inserts; and published drug interaction references.