Table SI. Risk factors that affect ability to metabolize antipsychotics.

A, Demographic characteristics												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Mean age, years	61.400±11.080	60.080±12.000	-0.678	0.499	60.880±9.130	60.540±11.930	-0.136	0.893	63.670±10.890	60.450±11.700	-0.663	0.509
Sex			0.013	0.910			0.108	0.742			0.019	>0.999
Male	46	79			12	113			5	120		
Female	11	18			4	25			1	28		
Body mass index			4.645	0.177			7.411	0.048			1.280	>0.999
Normal	17	42			5	54			2	57		
Underweight	0	2			0	2			0	2		
Overweight	29	34			11	52			3	60		
Obese	11	19			0	30			1	29		
B, Lifestyle habits												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Smoking status			1.736	0.188			1.032	0.310			0.065	>0.999
Yes	18	41			8	51			2	57		

No	39	56			8	87			4	91		
Alcohol consumption			0.369	0.543			0.229	0.632			0.476	0.672
Yes	15	30			6	39			1	44		
No	42	67			10	99			5	104		
C, Past medical history												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Hypertension			2.500	0.114			0.000	>0.999			0.064	>0.999
Yes	49	73			13	109			5	117		
No	8	24			3	29			1	31		
Diabetes			0.215	0.643			1.493	0.222			5.775	0.029
Yes	26	48			10	64			0	74		
No	31	49			6	74			6	74		
D, Serological indicators												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Hypersensitive C-reactive	13.380±25.330	6.200±10.850	-2.032	0.046	9.150±17.010	8.830±18.070	-0.069	0.945	12.180±18.930	8.730±17.920	-0.439	0.678

protein, mg/l												
Fasting blood glucose, mmol/l	6.250±1.920	6.840±2.450	1.667	0.098	6.400±1.730	6.650±2.340	0.511	0.615	5.120±0.550	6.680±2.300	5.361	0.000
Triglyceride, mmol/l	1.630±1.200	1.650±0.990	0.061	0.952	1.440±0.650	1.670±1.110	1.214	0.236	1.650±0.960	1.640±1.080	-0.016	0.988
Total cholesterol, mmol/l	4.390±1.370	4.210±1.040	-0.832	0.408	4.280±1.170	4.280±1.180	0.016	0.987	4.650±1.190	4.260±1.180	-0.787	0.433
High-density lipoprotein cholesterol, mmol/l	1.070±0.330	1.040±0.220	-0.608	0.545	1.060±0.290	1.050±0.260	-0.207	0.838	1.130±0.270	1.040±0.260	-0.736	0.493
Low-density lipoprotein cholesterol, mmol/l	2.770±0.940	2.650±0.750	-0.795	0.428	2.730±0.840	2.690±0.820	-0.188	0.851	2.940±0.770	2.680±0.830	-0.798	0.458
Homocysteine, μmol/l	15.220±9.390	14.810±9.840	-0.252	0.801	12.430±4.280	15.250±10.050	1.111	0.268	14.750±4.630	14.970±9.800	0.055	0.956
E, Liver function serological indicators												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Alkaline	84.340±38.950	80.460±18.580	-0.705	0.483	82.880±28.760	81.780±27.840	-0.145	0.886	79.370±13.090	82.000±28.300	0.451	0.665

phosphatase, U/l												
Aspartate aminotransferase, U/l	22.840±11.920	21.620±9.630	-0.657	0.513	23.820±10.740	21.870±10.510	-0.693	0.497	18.880±3.320	22.200±10.690	2.052	0.067
Alanine aminotransferase, U/l	21.840±13.620	24.750±15.620	1.213	0.227	28.090±17.030	23.160±14.660	-1.113	0.281	20.550±14.660	23.800±14.980	0.521	0.603
γ-glutamyl transpeptidase, U/l	41.830±51.270	46.580±55.040	0.540	0.590	37.510±26.320	45.670±55.860	1.006	0.322	29.680±21.510	45.440±54.400	1.599	0.149
Cholinesterase, U/l	7319.700±1973.820	7851.000±1349.650	1.800	0.075	7456.000±1478.950	7677.350±1642.650	0.560	0.582	7073.170±1815.640	7677.910±1617.480	0.803	0.456
Prealbumin, g/l	0.250±0.060	0.260±0.060	1.107	0.270	0.250±0.070	0.250±0.060	-0.047	0.963	0.260±0.090	0.250±0.060	-0.054	0.957
Total protein, g/l	65.760±6.410	64.530±4.430	-1.277	0.205	65.160±6.290	64.970±5.160	-0.134	0.893	61.700±6.210	65.120±5.200	1.568	0.119
Albumin, g/l	38.390±3.980	38.250±2.960	-0.247	0.247	38.550±3.600	38.270±3.350	-0.313	0.755	37.100±3.640	38.350±3.360	0.891	0.374
Globulin, g/l	27.370±4.380	26.290±3.330	-1.619	0.109	26.610±3.990	26.700±3.770	0.087	0.931	24.600±3.740	26.770±3.770	1.386	0.168
Albumin to globulin ratio	1.430±0.250	1.480±0.230	1.145	0.255	1.470±0.190	1.460±0.240	-0.131	0.897	1.530±0.250	1.460±0.230	-0.712	0.506
Total bilirubin, μmol/l	16.150±8.170	14.210±6.170	-1.551	0.124	13.880±7.430	15.050±6.990	0.599	0.556	20.500±7.800	14.700±6.920	-1.792	0.130
Conjugated bilirubin, μmol/l	3.170±2.110	2.730±1.220	-1.417	0.160	2.990±3.280	2.880±1.320	-0.257	0.797	3.650±1.360	2.860±1.630	-1.167	0.245

Unconjugated bilirubin, μmol/l	12.980±6.510	11.480±5.070	-1.500	0.137	10.890±4.440	12.170±5.800	0.853	0.395	16.850±6.540	11.840±5.570	-2.147	0.033
Total bile acid, μmol/l	3.660±3.000	4.220±3.110	1.088	0.278	4.360±3.800	3.980±2.990	-0.386	0.704	4.380±2.030	4.000±3.110	-0.441	0.674
F, Renal function serological indicators												
Factor	Haloperidol				Olanzapine				Risperidone			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Urea, mmol/l	6.400±3.400	6.100±1.820	-0.618	0.538	6.910±2.030	6.130±2.560	-1.171	0.243	6.830±2.210	6.190±2.530	-0.611	0.542
Uric acid, μmol/l	329.180±121.980	337.180±90.990	0.430	0.669	337.190±81.260	333.870±105.710	-0.149	0.883	360.830±68.970	333.140±104.390	-0.941	0.383
Creatinine, μmol/l	80.100±30.750	69.870±22.550	-2.367	0.019	73.530±21.620	73.670±26.820	0.020	0.984	75.650±14.800	73.580±26.650	-0.189	0.850

Table SII. Risk factors that affect ability to metabolize antidepressants.

A, Demographic information																			
Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Mean age, years	62.880± 17.070	60.280± 10.850	-0.612	0.548	63.150± 18.700	60.330± 10.850	-0.536	0.601	60.950± 11.580	59.700± 11.880	-0.612	0.541	59.030± 12.800	61.930± 10.430	1.527	0.129	59.920± 11.920	61.030± 11.500	0.579	0.564
Sex			0.000	>0.999			0.000	>0.999			0.004	0.947			0.033	0.855			0.00o	0.983
Male	14	111			11	114			87	38			58	67			52	73		
Female	3	26			2	27			20	9			14	15			12	17		
Body mass index			7.767	0.047			8.020	0.035			1.004	0.841			2.447	0.512			4.023	0.235
Normal	12	47			10	49			41	18			31	28			27	32		
Underweight	0	2			0	2			1	1			1	1			2	0		
Overweight	3	60			2	61			45	18			25	38			22	41		
Obese	2	28			1	29			20	10			15	15			13	17		
B, Lifestyle habits																				
Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2	P-	Cases	Controls	t/χ^2	P-	Cases	Controls	t/χ^2	P-	Cases	Controls	t/χ^2	P-	Cases	Controls	t/χ^2	P-value

			value	value			value	value			value	value			value	value			value	
Smoking status			0.074	0.786			0.779	0.377			0.515	0.473			0.019	0.890			1.370	0.242
Yes	6	53			3	56			39	20			28	31			28	31		
No	11	84			10	85			68	27			44	51			36	59		
Alcohol consumption			0.751	0.386			0.000	>0.999			0.445	0.505			0.136	0.712			0.943	0.331
Yes	7	38			4	41			33	12			20	25			16	29		
No	10	99			9	100			74	35			52	57			48	61		
C, Past medical history																				
Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Hypertension			0.000	>0.999			0.326	0.568			2.639	0.104			2.585	0.108			1.185	0.276
Yes	13	109			9	113			81	41			53	69			48	74		
No	4	28			4	28			26	6			19	13			16	16		
Diabetes			1.246	0.264			0.523	0.469			0.246	0.620			0.206	0.650			0.061	0.805
Yes	6	68			5	69			50	24			36	38			30	44		
No	11	69			8	72			57	23			36	44			34	46		
D, Serological indicators																				

Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Hypersensitive C-reactive protein, mg/l	10.550±21.970	8.650±17.420	-0.344	0.735	12.560±24.950	8.520±17.200	-0.572	0.577	9.490±19.500	7.430±13.680	-0.751	0.454	6.980±15.970	10.510±19.400	1.240	0.217	8.610±18.650	9.040±17.460	0.146	0.884
Fasting blood glucose mmol/l	5.900±1.670	6.710±2.330	1.801	0.084	6.080±1.730	6.670±2.320	1.141	0.270	6.550±2.250	6.800±2.360	0.624	0.534	6.720±2.450	6.540±2.130	-0.486	0.628	6.410±2.350	6.780±2.230	0.986	0.326
Triglyceride, mmol/l	1.260±0.540	1.690±1.110	2.676	0.011	1.220±0.580	1.680±1.100	2.458	0.023	1.630±1.080	1.660±1.050	0.166	0.868	1.740±1.150	1.560±0.990	-1.024	0.307	1.760±1.320	1.560±0.850	-1.064	0.290
Total cholesterol, mmol/l	3.960±0.870	4.320±1.200	1.506	0.145	3.870±0.920	4.320±1.190	1.637	0.121	4.210±1.080	4.440±1.370	1.036	0.304	4.400±1.210	4.180±1.140	-1.153	0.251	4.330±1.210	4.250±1.150	-0.405	0.686
High-density lipoprotein cholesterol, mmol/l	1.040±0.180	1.050±0.270	0.226	0.823	1.050±0.180	1.050±0.270	-0.065	0.949	1.040±0.240	1.070±0.320	0.710	0.480	1.040±0.250	1.050±0.280	0.286	0.775	1.060±0.290	1.040±0.240	-0.296	0.768
Low-density lipoprotein cholesterol,	2.450±0.650	2.720±0.840	1.561	0.132	2.390±0.690	2.720±0.830	1.619	0.126	2.650±0.800	2.790±0.880	0.897	0.373	2.790±0.850	2.610±0.790	-1.312	0.192	2.690±0.790	2.700±0.850	0.063	0.950

mmol/l																			
Homocysteine, μmol/l	17.690±14.950	14.620±8.800	-0.828	0.419	14.880±10.480	14.970±9.610	0.031	0.975	14.540±8.150	15.920±12.450	0.815	0.417	15.730±12.070	14.280±6.860	-0.927	0.356	14.920±7.290	14.990±11.060	0.049	0.961
E, Liver function serological indicators																				
Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Alkaline phosphatase, U/l	88.330±34.030	81.100±27.020	-0.844	0.409	85.290±31.220	81.580±27.620	-0.414	0.685	81.680±29.570	82.390±23.750	0.157	0.876	77.910±24.080	85.400±30.500	1.701	0.091	83.090±27.000	81.050±28.550	-0.450	0.653
Aspartate aminotransferase, U/l	17.740±6.180	22.610±10.830	2.766	0.010	18.770±5.490	22.370±10.820	2.030	0.055	22.980±11.830	19.990±6.250	-2.049	0.042	21.540±11.490	22.530±9.620	0.574	0.567	20.590±9.400	23.120±11.170	1.525	0.129
Alanine aminotransferase, U/l	19.060±11.120	24.240±15.280	1.731	0.096	18.070±10.140	24.190±15.220	1.980	0.064	24.450±16.290	21.890±11.230	-1.129	0.261	23.040±15.220	24.220±14.750	0.488	0.627	20.900±13.990	25.640±15.340	1.992	0.048
γ-glutamyl transpeptidase, U/l	38.260±50.100	45.640±54.080	0.535	0.594	39.710±55.880	45.300±53.520	0.359	0.720	46.760±56.470	40.410±46.490	-0.730	0.467	39.930±38.210	49.120±64.010	1.097	0.274	42.570±52.990	46.430±54.190	0.439	0.661
Cholinesterase, U/l	7088.000±1628.	7724.630±1614.	1.522	0.144	6942.150±1480.	7720.010±1624.	1.663	0.098	7658.060±1592.	7645.910±1709.	-0.041	0.967	7951.350±1600.	7393.570±1607.	-2.153	0.033	7476.730±1721.	7780.660±1547.	1.126	0.262

	560	760			490	970			430	150			560	710			060	430		
Prealbumin, g/l	0.230±0.060	0.260±0.060	2.051	0.042	0.220±0.060	0.260±0.060	2.038	0.043	0.250±0.060	0.260±0.060	0.342	0.733	0.250±0.050	0.250±0.060	0.041	0.967	0.250±0.060	0.25±0.060	0.292	0.771
Total protein, g/l	65.080±5.320	64.980±5.280	-0.073	0.942	64.350±4.630	65.050±5.330	0.453	0.651	65.090±5.630	64.750±4.370	-0.370	0.712	64.990±5.660	64.990±4.920	0.005	0.996	64.770±5.770	65.140±4.900	0.426	0.671
Albumin, g/l	37.230±2.800	38.430±3.410	1.396	0.165	36.650±2.950	38.450±3.370	1.859	0.065	38.310±3.400	38.280±3.310	-0.052	0.959	38.410±3.540	38.200±3.220	-0.378	0.706	37.870±3.660	38.600±3.120	0.671	0.184
Globulin, g/l	27.850±4.460	26.540±3.680	-1.157	0.262	27.700±3.810	26.600±3.770	-1.009	0.314	26.780±3.890	26.470±3.540	-0.487	0.627	26.580±3.750	26.790±3.820	0.344	0.732	26.900±4.300	26.540±3.380	-0.566	0.572
Albumin to globulin ratio	1.370±0.230	1.470±0.230	1.764	0.080	1.350±0.220	1.47±0.23	1.963	0.069	1.460±0.220	1.480±0.260	0.433	0.666	1.470±0.230	1.460±0.240	-0.39	0.697	1.440±0.270	1.480±0.210	0.807	0.421
Total bilirubin, μmol/l	14.730±5.290	14.950±7.220	0.157	0.876	15.280±5.570	14.900±7.150	-0.235	0.818	14.880±6.830	15.040±7.510	0.121	0.904	14.690±7.060	15.140±7.020	0.401	0.689	14.410±6.360	15.290±7.460	0.787	0.432
Conjugated bilirubin, μmol/l	2.960±1.120	2.890±1.670	-0.172	0.863	3.080±1.140	2.880±1.660	-0.44	0.660	2.940±1.750	2.800±1.290	-0.502	0.616	2.730±1.270	3.040±1.870	1.211	0.228	2.720±1.160	3.020±1.880	1.118	0.265
Unconjugated bilirubin, μmol/l	11.770±4.240	12.070±5.840	0.202	0.840	12.200±4.500	12.020±5.780	-0.110	0.912	11.940±5.380	12.240±6.350	0.299	0.766	11.960±5.890	12.100±5.510	0.151	0.880	11.690±5.330	12.280±5.920	0.629	0.530
Total bile	3.940±3	4.030±2	0.096	0.924	4.220±4	4.000±2.	-	0.852	3.850±2	4.390±3.	0.876	0.384	3.840±2.	4.170±3	0.660	0.510	4.200±3.	3.890±2.	-	0.566

acid, μmol/l	.720	.990			.190	960	0.191		.660	850			540	.470			770	460	0.576	
F, Renal function serological indicators																				
Factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value	Cases	Controls	t/χ^2 value	P-value
Urea, mmol/l	5.730±1.580	6.270±2.600	1.221	0.232	5.390±1.410	6.290±2.580	2.005	0.058	6.220±2.630	6.200±2.250	-0.065	0.948	6.070±1.820	6.340±3.000	0.668	0.505	5.960±2.340	6.400±2.620	1.081	0.281
Uric acid, μmol/l	303.000±70.710	338.090±106.120	1.809	0.082	301.690±76.580	337.210±105.050	1.544	0.142	327.760±98.120	348.910±113.740	1.107	0.272	328.890±97.370	338.890±108.480	0.603	0.548	340.000±116.100	330.100±93.460	-0.565	0.573
Creatinine, μmol/l	75.940±19.620	73.370±27.020	-0.379	0.705	75.370±21.480	73.500±26.720	-0.244	0.807	73.570±26.830	73.860±25.200	0.065	0.949	70.340±22.630	76.570±28.910	1.477	0.142	71.650±24.430	75.080±27.540	0.798	0.426

Table SIII. Risk factors that affect ability to metabolize anxiolytics (oxazepam/lorazepam).

A, Demographic characteristics				
Factor	Cases	Controls	t/χ^2 value	P-value
Mean age, years	61.140±10.610	58.560±14.760	-0.953	0.346
Sex			0.630	0.427
Male	99	26		
Female	21	8		
Body mass index			0.915	0.844
Normal weight	45	14		
Underweight	2	0		
Overweight	48	15		
Obese	25	5		
B, Lifestyle habits				
Factor	Cases	Controls	t/χ^2 value	P-value
Smoking status			0.656	0.418
Yes	48	11		
No	72	23		
Alcohol consumption			0.683	0.408
Yes	37	8		
No	83	26		
C, Past medical history				

Factor	Cases	Controls	t/χ^2 value	P-value
Hypertension			11.028	0.001
Yes	102	20		
No	18	14		
Diabetes			2.845	0.092
Yes	62	12		
No	58	22		
D, Serological indicators				
Factor	Cases	Controls	t/χ^2 value	P-value
Hypersensitive C-reactive protein, mg/l	9.820±19.650	5.480±8.920	-1.842	0.068
Fasting blood glucose, mmol/l	6.820±2.370	5.930±1.810	-2.365	0.021
Triglyceride, mmol/l	1.720±1.150	1.360±0.640	-2.334	0.022
Total cholesterol, mmol/l	4.300±1.190	4.210±1.120	-0.378	0.707
High-density lipoprotein cholesterol, mmol/l	1.050±0.270	1.040±0.250	-0.264	0.792
Low-density lipoprotein cholesterol, mmol/l	2.700±0.840	2.670±0.780	-0.221	0.826
Homocysteine, μmol/l	14.330±7.800	17.190±14.330	0.458	0.271
E, Liver function serological indicators				
Factor	Cases	Controls	t/χ^2 value	P-value

Alkaline phosphatase, U/l	83.310±29.810	76.910±18.930	-1.510	0.135
Aspartate aminotransferase, U/l	22.400±9.920	20.890±12.480	-0.652	0.518
Alanine aminotransferase, U/l	23.780±14.570	23.270±16.400	-0.165	0.870
γ-glutamyl transpeptidase, U/l	48.200±59.380	32.930±19.860	-2.385	0.018
Cholinesterase, U/l	7676.730±1672.550	7575.350±1456.570	-0.346	0.730
Prealbumin, g/l	0.250±0.060	0.250±0.060	-0.418	0.677
Total protein, g/l	65.200±5.260	64.230±5.270	-0.948	0.345
Albumin, g/l	38.300±3.440	38.300±3.110	0.006	0.995
Globulin, g/l	26.900±3.820	25.930±3.560	-1.385	0.171
Albumin to globulin ratio	1.450±0.240	1.500±0.210	1.164	0.249
Total bilirubin, μmol/l	14.710±6.990	15.690±7.150	0.717	0.475
Conjugated bilirubin, μmol/l	2.860±1.720	3.020±1.200	0.500	0.618
Unconjugated bilirubin, μmol/l	11.850±5.560	12.670±6.090	0.618	0.458
Total bile acid, μmol/l	4.120±3.220	3.660±2.480	-0.894	0.374
F, Renal function serological indicators				
Factor	Cases	Controls	t/χ^2 value	P-value
Urea, mmol/l	6.210±2.610	6.220±2.150	0.018	0.986
Uric acid, μmol/l	340.130±105.350	313.330±93.820	-1.430	0.158
Creatinine, μmol/l	74.910±27.180	69.250±22.540	-1.110	0.269

Table SIV. Pharmacogenetic testing of psychotropic drugs.

Antipsychotics			Antidepressants						Anxiolytics
Haloperidol	Olanzapine	Risperidone	Citalopram/ escitalopram	Sertraline	Bupropion	Paroxetine		Mirtazapine/ venlafaxine	Oxazepam/lorazepam
COMT	PPARG	DRD2	CYP2C19	CYP2C19	ANKK1	HTR1A	CYP2D6	CYP2D6	UGT2B15
c.472G>A	c.34C>G	c.-585A>G			c.2137G>A	c.-1019G>C			c.253T>G
G/G	C/C	A/G	*1/*1	*1/*1	A/G	C/G	*1/*10	*1/*10	G/T
A/G	C/C	A/G	*1/*1	*1/*1	A/G	C/G	*10/*10	*10/*10	G/T
A/G	C/C	A/A	*1/*1	*1/*1	A/G	C/G	*10/*5	*10/*5	G/G
G/G	C/C	A/A	*1/*1	*1/*1	G/G	C/G	*4/*10	*4/*10	G/T
G/G	C/C	A/A	*2/*2	*2/*2	A/G	C/G	*10/*10	*10/*10	T/T
A/G	C/C	A/G	*1/*2	*1/*2	G/G	C/C	*10/*41	*10/*41	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	*2/*10	C/G	*2/*10	T/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*1/*10	*1/*10	G/G
G/G	C/C	A/A	*1/*1	*1/*1	G/G	C/G	*10/*10	*10/*10	T/T
G/G	C/C	A/G	*1/*2	*1/*2	A/G	*10/*41	C/C	*10/*41	G/G
G/G	C/G	A/G	*1/*1	*1/*1	A/G	G/G	*1/*10	*1/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*10/*10	*10/*10	G/T
A/G	C/G	A/G	*1/*1	*1/*1	A/A	C/C	*1/*14	*1/*14	T/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*1/*10	*1/*10	G/G
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*1/*10	*1/*10	G/G

G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*1/*10	*1/*10	T/T
A/G	C/C	A/G	*1/*1	*1/*1	A/A	C/G	*2/*41	*2/*41	G/G
A/G	C/C	A/A	*1/*2	*1/*2	A/A	C/G	*1/*2	*1/*2	T/T
A/G	C/G	A/A	*1/*17	*1/*17	A/A	C/C	*10/*5	*10/*5	G/G
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*1/*1	*1/*1	T/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/G	*2/*10	*2/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/G	*1/*1	*1/*1	G/T
G/G	C/G	A/G	*2/*2	*2/*2	A/G	C/G	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*2/*17	*2/*17	G/G	C/C	*2/*5	*2/*5	G/T
A/G	C/G	A/G	*1/*2	*1/*2	A/A	C/G	*1/*1	*1/*1	G/G
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*2/*10	*2/*10	G/G
A/G	C/C	A/G	*1/*1	*1/*1	A/G	C/C	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*10	*1/*10	G/T
A/G	C/G	A/A	*1/*2	*1/*2	A/G	C/C	*1/*10	*1/*10	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/G	*1/*1	*1/*1	A/G	C/G	*1/*10	*1/*10	G/G
A/G	C/G	A/A	*1/*1	*1/*1	A/G	C/C	*1/*10	*1/*10	T/T
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*10/*10	*10/*10	G/T
A/A	C/C	A/G	*1/*1	*1/*1	A/G	C/G	*10/*10	*10/*10	G/T
A/A	C/C	A/G	*1/*2	*1/*2	G/G	C/C	*10/*5	*10/*5	G/T

G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*2/*10	*2/*10	G/T
A/G	C/C	A/A	*1/*3	*1/*3	A/G	C/G	*1/*2	*1/*2	G/T
A/G	C/G	A/A	*1/*2	*1/*2	A/A	C/C	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*1	*1/*1	A/A	C/C	*2/*10	*2/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*1	*1/*1	G/G
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*1	*1/*1	G/G
G/G	C/C	A/G	*1/*1	*1/*1	A/G	C/C	*1/*2	*1/*2	G/G
A/G	C/C	A/G	*1/*3	*1/*3	G/G	C/G	*10/*10	*10/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*10/*10	*10/*10	G/G
G/G	C/C	A/A	*2/*2	*2/*2	A/A	C/C	*10/*10	*10/*10	G/T
A/A	C/C	A/A	*1/*1	*1/*1	A/A	C/C	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*10/*10	*10/*10	G/G
G/G	C/G	A/A	*1/*1	*1/*1	G/G	G/G	*10/*10	*10/*10	G/T
G/G	C/C	A/G	*1/*1	*1/*1	G/G	C/C	*1/*1	*1/*1	G/T
A/A	C/C	A/A	*1/*3	*1/*3	A/G	C/C	*2/*10	*2/*10	T/T
A/G	C/C	A/A	*1/*1	*1/*1	A/A	C/G	*1/*2	*1/*2	G/T
G/G	C/C	A/G	*1/*2	*1/*2	A/G	C/C	*10/*5	*10/*5	G/T
A/A	C/C	A/A	*2/*2	*2/*2	G/G	C/G	*1/*14	*1/*14	G/T
A/G	C/C	A/G	*2/*2	*2/*2	A/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/G	*2/*3	*2/*3	A/G	C/C	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*10	*1/*10	T/T

G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/A	*1/*1	*1/*1	G/G	C/G	*10/*10	*10/*10	T/T
G/G	C/G	G/G	*1/*1	*1/*1	G/G	C/C	*1/*10	*1/*10	G/G
G/G	C/C	A/G	*1/*3	*1/*3	A/G	C/C	*2/*10	*2/*10	G/G
A/G	C/C	A/G	*1/*1	*1/*1	G/G	C/G	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*1	*1/*1	A/A	C/C	*10/*10	*10/*10	G/G
A/G	C/C	G/G	*1/*2	*1/*2	A/A	C/C	*2/*2	*2/*2	G/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*2	*1/*2	G/G
A/A	C/C	A/G	*2/*2	*2/*2	G/G	C/G	*10/*10	*10/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*10	*1/*10	T/T
A/A	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*1/*10	*1/*10	T/T
G/G	C/G	G/G	*1/*1	*1/*1	A/A	C/C	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/G	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*2/*2	*2/*2	G/G
A/A	C/C	A/G	*1/*2	*1/*2	A/G	C/G	*1/*1	*1/*1	T/T
A/G	C/C	G/G	*1/*1	*1/*1	A/G	C/G	*1/*5	*1/*5	T/T
G/G	C/C	A/G	*1/*1	*1/*1	A/G	C/C	*10/*10	*10/*10	G/T
A/G	C/C	A/G	*1/*2	*1/*2	A/A	C/C	*1/*10	*1/*10	G/T
G/G	C/C	A/G	*2/*2	*2/*2	G/G	C/G	*10/*5	*10/*5	T/T
G/G	C/C	A/G	*1/*2	*1/*2	A/G	C/C	*2/*10	*2/*10	T/T
A/G	C/C	A/A	*1/*2	*1/*2	G/G	C/G	*1/*10	*1/*10	T/T

G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/G	*1/*10	*1/*10	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/G	*1/*10	*1/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	A/A	C/G	*10/*5	*10/*5	G/T
A/G	C/C	A/G	*1/*2	*1/*2	G/G	C/G	*1/*41	*1/*41	G/G
A/G	C/C	A/G	*1/*1	*1/*1	G/G	C/G	*1/*1	*1/*1	G/G
G/G	C/C	A/A	*1/*3	*1/*3	G/G	C/C	*2/*10	*2/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*1/*5	*1/*5	G/T
A/G	C/C	A/G	*1/*2	*1/*2	A/G	G/G	*1/*5	*1/*5	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*1/*10	*1/*10	G/T
G/G	C/C	A/G	*1/*2	*1/*2	G/G	C/C	*10/*5	*10/*5	T/T
G/G	C/C	A/G	*1/*2	*1/*2	A/A	C/G	*1/*1	*1/*1	T/T
G/G	C/C	A/A	*2/*2	*2/*2	A/G	C/C	*1/*10	*1/*10	T/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*2/*10	*2/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*10/*41	*10/*41	G/G
A/A	C/C	A/A	*1/*2	*1/*2	G/G	C/G	*2/*10	*2/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*14/*5	*14/*5	G/T
G/G	C/C	A/A	*2/*2	*2/*2	A/A	C/C	*10/*5	*10/*5	T/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*10/*10	*10/*10	G/T
A/G	C/G	A/A	*1/*1	*1/*1	A/A	C/G	*2/*10	*2/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*10/*5	*10/*5	G/G

A/G	C/C	A/G	*1/*17	*1/*17	A/G	*10/*10	G/G	*10/*10	T/T
G/G	C/C	A/A	*1/*3	*1/*3	A/G	G/G	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*1/*10	*1/*10	T/T
A/G	C/C	A/A	*1/*2	*1/*2	A/A	C/C	*10/*5	*10/*5	T/T
A/G	C/C	A/A	*1/*1	*1/*1	G/G	C/C	*10/*5	*10/*5	G/T
G/G	C/C	A/A	*1/*1	*1/*1	G/G	C/C	*1/*10	*1/*10	T/T
G/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*10/*5	*10/*5	G/T
G/G	C/G	A/G	*1/*2	*1/*2	A/G	C/C	*10/*41	*10/*41	G/T
G/G	C/C	G/G	*1/*1	*1/*1	A/G	C/C	*10/*5	*10/*5	T/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*4/*41	*4/*41	G/G
A/A	C/C	A/A	*1/*1	*1/*1	G/G	C/C	*1/*10	*1/*10	G/T
A/A	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*2/*10	*2/*10	G/T
G/G	C/C	G/G	*1/*1	*1/*1	G/G	C/C	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/G	*10/*10	C/C	*10/*10	T/T
A/G	C/C	A/A	*1/*2	*1/*2	G/G	C/C	*4/*10	*4/*10	G/T
G/G	C/C	A/G	*1/*2	*1/*2	G/G	C/C	*1/*10	*1/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/A	*41/*5	C/G	*41/*5	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	G/G	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*17	*1/*17	A/G	C/G	*1/*10	*1/*10	T/T
G/G	C/C	A/A	*3/*17	*3/*17	A/G	C/C	*10/*10	*10/*10	G/T
A/G	C/C	A/A	*1/*2	*1/*2	G/G	G/G	*1/*1	*1/*1	G/G

A/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/A	*1/*3	*1/*3	A/G	C/G	*1/*2	*1/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*4/*5	*4/*5	T/T
A/G	C/C	A/G	*1/*3	*1/*3	A/G	G/G	*1/*5	*1/*5	G/T
A/A	G/G	A/A	*1/*2	*1/*2	G/G	C/C	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*1	*1/*1	G/G	C/C	*1/*2	*1/*2	G/G
A/G	C/C	A/A	*1/*3	*1/*3	A/G	C/C	*1/*1	*1/*1	T/T
A/G	C/C	A/G	*1/*2	*1/*2	A/G	C/C	*4/*5	*4/*5	T/T
G/G	C/C	A/G	*1/*2	*1/*2	A/A	C/G	*1/*10	*1/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	G/G	*2/*10	*2/*10	G/G
A/G	C/C	A/A	*1/*1	*1/*1	A/A	C/C	*4/*5	*4/*5	G/T
G/G	C/G	A/A	*1/*2	*1/*2	G/G	G/G	*2/*5	*2/*5	G/G
A/G	C/C	A/A	*1/*1	*1/*1	A/G	C/G	*1/*1	*1/*1	G/T
G/G	C/C	A/A	*1/*1	*1/*1	A/A	C/C	*10/*10	*10/*10	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*10/*5	*10/*5	G/T
G/G	C/C	A/G	*1/*1	*1/*1	A/G	G/G	*10/*10	*10/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/G	*1/*2	*1/*2	G/T
A/G	C/C	A/A	*1/*1	*1/*1	G/G	C/G	*1/*10	*1/*10	G/T
A/G	C/C	A/A	*1/*3	*1/*3	G/G	C/C	*1/*5	*1/*5	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/G	C/C	*1/*1	*1/*1	G/T
A/G	C/C	A/A	*2/*3	*2/*3	A/G	C/C	*2/*41	*2/*41	G/T

G/G	C/C	A/G	*1/*1	*1/*1	A/G	G/G	*1/*1	*1/*1	G/T
A/G	C/C	A/G	*1/*2	*1/*2	G/G	C/G	*1/*5	*1/*5	G/T
G/G	C/C	A/G	*1/*2	*1/*2	A/G	C/G	*1/*2	*1/*2	G/T
G/G	C/G	A/A	*1/*2	*1/*2	A/A	C/C	*1/*1	*1/*1	G/G
G/G	C/C	A/A	*2/*2	*2/*2	A/A	G/G	*10/*41	*10/*41	G/G
G/G	C/C	A/A	*1/*17	*1/*17	G/G	*1/*10	C/G	*1/*10	G/G
A/G	C/C	A/A	*1/*1	*1/*1	A/G	C/C	*2/*2	*2/*2	G/T
G/G	C/C	A/A	*1/*2	*1/*2	A/A	*1/*10	C/G	*1/*10	T/T
G/G	C/C	A/A	*2/*2	*2/*2	G/G	C/C	*10/*41	*10/*41	G/T
A/A	C/C	A/G	*1/*2	*1/*2	A/A	C/C	*1/*10	*1/*10	T/T
A/A	C/C	A/A	*1/*1	*1/*1	A/G	G/G	*1/*10	*1/*10	G/G
G/G	C/C	A/A	*1/*1	*1/*1	G/G	C/C	*1/*10	*1/*10	G/G
G/G	C/C	A/A	*1/*2	*1/*2	A/A	C/G	*1/*10	*1/*10	G/T

COMT, catechol-O-methyltransferase; PPARG, peroxisome proliferator-activated receptor γ; DRD2, dopamine receptor D2; CYP2C19, cytochrome P450 2C19; ANKK1, ankyrin repeat and kinase domain containing 1; HTR1A, 5-hydroxytryptamine 1A receptor; CYP2D6, cytochrome P450 2D6; UGT2B15, uridine diphosphate glucuronosyltransferase 2B15.

Table SV. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the total dataset (adjusted by age and sex).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				0.250				0.558				0.979
Underweight	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
Overweight	2.192	1.026	4.683	0.043	2.303	0.740	7.170	0.150	1.504	0.238	9.488	0.664
Obese	1.588	0.606	4.162	0.347	0.000	0.000	0.002	0.998	1.216	0.099	14.942	0.879
Smoking status	0.612	0.302	1.241	0.174	1.933	0.654	5.716	0.234	0.738	0.126	4.331	0.737
Alcohol consumption	0.784	0.367	1.677	0.530	1.821	0.570	5.823	0.312	0.420	0.045	3.885	0.445
Hypertension	1.982	0.816	4.811	0.131	1.102	0.289	4.203	0.886	1.250	0.138	11.350	0.843
Diabetes	0.852	0.437	1.661	0.639	1.850	0.627	5.456	0.265	0.000	0.000	0.002	0.997
hs-CRP (high)	1.633	0.694	3.841	0.261	1.999	0.428	9.335	0.378	1.230	0.137	11.077	0.853
Homocysteine (high)	0.742	0.279	1.978	0.551	0.914	0.188	4.441	0.911	1.085	0.115	10.225	0.943
FBG				0.834				0.264				>0.999
Low	1.842	0.107	31.812	0.674	10.752	0.547	211.441	0.118	0.000	0.000	0.002	0.999
High	0.875	0.441	1.737	0.702	1.545	0.517	4.620	0.436	0.000	0.000	0.002	0.997

Triglyceride (high)	0.898	0.434	1.857	0.772	1.078	0.350	3.326	0.896	2.768	0.522	14.675	0.232
TC				0.207				0.971				0.746
Low	1.096	0.300	4.000	0.890	0.000	0.000	0.0022	0.999	0.000	0.000	0.002	0.999
High	3.201	0.886	11.561	0.076	0.769	0.091	6.489	0.809	2.420	0.252	23.196	0.443
HDL-c				0.599				0.987				>0.999
Low	1.858	0.560	6.159	0.311	0.840	0.099	7.142	0.873	0.000	0.000	0.002	0.999
High	2666355756.330	0.000	5333720772.903	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999
LDL-c				0.313				0.631				0.966
Low	1.587	0.687	3.666	0.280	1.868	0.522	6.686	0.337	0.000	0.000	0.002	0.998
High	1.741	0.804	3.772	0.160	1.295	0.369	4.551	0.687	0.790	0.136	4.585	0.792
ALP				0.086				0.662				>0.999
Low	3411141446.759	0.000	6803553909.993	0.999	2.952	0.284	30.642	0.365	0.000	0.000	0.002	0.999
High	6.732	1.245	36.416	0.027	1.139	0.124	10.493	0.909	0.000	0.000	0.002	0.999
AST				0.819				0.811				0.996
Low	1.186	0.506	2.783	0.695	0.599	0.126	2.839	0.519	0.899	0.099	8.140	0.925
High	1.462	0.370	5.769	0.588	0.972	0.112	8.466	0.979	0.000	0.000	0.002	0.999
ALT				0.622				0.994				>0.999
Low	0.775	0.184	3.268	0.728	1.029	0.117	9.023	0.979	0.000	0.000	0.002	0.999
High	0.467	0.093	2.341	0.355	1.124	0.130	9.716	0.915	0.000	0.000	0.002	0.999
γ-GGT				0.307				0.949				>0.999

Low	2228301225.145	0.000	4464317815.844	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999
High	0.460	0.170	1.239	0.125	1.252	0.320	4.903	0.747	0.967	0.105	8.915	0.977
CHE				0.126				0.953				0.628
Low	5.668	1.068	30.085	0.042	1.425	0.153	13.290	0.756	3.255	0.296	35.804	0.335
High	3551339811.421	0.000	7107354291.515	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999
Prealbumin (low)	1.331	0.542	3.272	0.533	1.259	0.313	5.055	0.746	0.817	0.086	7.734	0.860
Total protein				0.815				0.785				0.827
Low	0.805	0.413	1.566	0.522	0.687	0.239	1.974	0.486	1.726	0.304	9.806	0.538
High	3232715954.418	0.000	6468733906.565	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999
Albumin (low)	0.739	0.352	1.548	0.422	1.295	0.381	4.406	0.679	0.650	0.109	3.887	0.637
GLOB (low)	0.627	0.062	6.370	0.693	0.000	0.000	.0.002	0.999	23.332	1.139	477.894	0.041
AGR (low)	1.900	0.730	4.945	0.188	0.383	0.047	3.133	0.371	0.000	0.000	0.002	0.998
TBIL (high)	1.819	0.549	6.025	0.327	0.844	0.099	7.174	0.877	7.345	1.083	49.838	0.041
Conjugated bilirubin (high)	3.701	0.324	42.278	0.292	5.016	0.418	60.136	0.203	0.000	0.000	0.002	0.999
Unconjugated bilirubin				0.136				0.962				0.170
Low	2.118	0.284	15.814	0.464	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	3.169	0.965	10.407	0.057	0.739	0.087	6.241	0.781	6.215	0.927	41.669	0.060
TBA (high)	2.250	0.470	10.769	0.310	1.695	0.179	16.077	0.646	0.000	0.000	0.002	0.999
UA				0.627				0.882				0.998

Low	1.804	0.487	6.679	0.377	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	1.256	0.494	3.193	0.633	1.418	0.363	5.540	0.616	1.067	0.117	9.714	0.954
Urea				0.557				0.508				0.658
Low	1.833	0.558	6.013	0.318	0.846	0.101	7.111	0.878	0.000	0.000	0.002	0.999
High	1.409	0.359	5.535	0.623	2.655	0.492	14.338	0.256	2.906	0.296	28.563	0.360
Creatinine				0.136				0.928				0.829
Low	0.574	0.258	1.278	0.174	1.254	0.399	3.944	0.699	0.504	0.056	4.510	0.540
High	2.343	0.619	8.865	0.210	1.076	0.122	9.474	0.947	0.000	0.000	0.002	0.999

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SVI. Multiple logistic regression results of abnormal metabolism of antidepressants associated with clinical indicators based on the total dataset (adjusted by age and sex).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P	OR	95%CI		P	OR	95%CI		P	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				0.087				0.090				0.888				0.536				0.663
Underweight	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.427	0.025	7.293	0.557	0.908	0.054	15.333	0.947	1906699526.463	0.000	3811854178.950	0.999
Overweight	0.199	0.052	0.751	0.017	0.161	0.033	0.780	0.023	1.076	0.491	2.357	0.855	0.592	0.287	1.220	0.155	0.632	0.304	1.316	0.220
Obese	0.316	0.063	1.574	0.160	0.197	0.023	1.683	0.138	0.828	0.314	2.184	0.704	0.888	0.359	2.196	0.798	0.889	0.357	2.214	0.801
Smoking status	0.812	0.275	2.398	0.707	0.397	0.101	1.553	0.184	0.766	0.374	1.571	0.468	1.067	0.548	2.078	0.849	1.511	0.769	2.968	0.231
Alcohol consumption	1.857	0.613	5.620	0.273	0.983	0.271	3.573	0.979	1.327	0.594	2.962	0.490	0.886	0.429	1.832	0.745	0.681	0.323	1.436	0.313
Hypertension	0.777	0.230	2.624	0.684	0.505	0.140	1.819	0.296	0.457	0.173	1.210	0.115	0.516	0.231	1.149	0.105	0.646	0.292	1.426	0.279
Diabetes	0.558	0.191	1.630	0.287	0.682	0.208	2.243	0.529	0.836	0.416	1.678	0.614	1.149	0.604	2.187	0.672	0.920	0.480	1.765	0.802
hs-CRP (high)	4.449	0.564	35.098	0.157	3.116	0.386	25.164	0.286	1.516	0.667	3.444	0.320	0.620	0.282	1.363	0.235	2.117	0.903	4.966	0.085
Homocysteine (high)	1.221	0.310	4.814	0.776	0.944	0.187	4.758	0.944	1.631	0.555	4.790	0.374	0.958	0.382	2.404	0.927	1.215	0.483	3.057	0.678
FBG				0.175				0.101				0.808				0.872				0.600
Low	13.80	0.678	280.98	0.088	29.87	1.245	716.618	0.036	0.386	0.022	6.734	0.514	1.178	0.069	20.223	0.910	1.186	0.069	20.398	0.906

	4		2		2														
High	0.773	0.255	2.340	0.649	0.991	0.286	3.431	0.989	0.966	0.472	1.976	0.924	1.192	0.617	2.303	0.602	0.713	0.364	1.397	0.324
Triglyceride (high)	0.505	0.136	1.868	0.306	0.444	0.093	2.115	0.308	0.986	0.463	2.100	0.971	1.201	0.598	2.409	0.607	1.114	0.551	2.251	0.763
TC				0.974				0.998				0.810				0.772				0.563
Low	0.776	0.090	6.665	0.817	1.073	0.121	9.509	0.949	0.714	0.195	2.620	0.612	0.626	0.173	2.267	0.475	0.748	0.206	2.713	0.659
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.749	0.206	2.719	0.661	0.917	0.266	3.167	0.892	0.496	0.125	1.959	0.317
HDL-c				0.959				>0.999				0.312				0.318				0.481
Low	0.731	0.086	6.194	0.773	0.996	0.114	8.682	0.997	0.391	0.117	1.305	0.127	0.350	0.090	1.362	0.130	2.108	0.629	7.059	0.227
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	2551277170.943	0.000	5118846356.212	>0.999
LDL-c				0.414				0.207				0.738				0.148				0.752
Low	1.502	0.471	4.788	0.492	3.127	0.809	12.090	0.098	1.093	0.446	2.677	0.846	0.843	0.370	1.918	0.683	0.747	0.326	1.714	0.491
High	0.547	0.136	2.207	0.397	1.189	0.250	5.660	0.828	0.773	0.349	1.711	0.525	1.886	0.888	4.004	0.099	1.021	0.483	2.162	0.956
ALP				0.080				0.241				0.229				0.839				0.437
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.140	0.014	1.385	0.093	1.107	0.151	8.102	0.920	1.505	0.206	11.011	0.687
High	6.558	1.274	33.761	0.024	4.778	0.777	29.397	0.092	1.263	0.238	6.686	0.784	0.643	0.144	2.872	0.563	2.580	0.576	11.552	0.215
AST				0.172				0.452				0.446				0.098				0.348
Low	2.926	0.953	8.986	0.061	2.290	0.631	8.310	0.208	1.189	0.479	2.956	0.709	2.496	1.057	5.894	0.037	1.433	0.624	3.288	0.396
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	3.817	0.460	31.675	0.215	1.733	0.442	6.798	0.431	0.410	0.081	2.061	0.279
ALT				0.663				0.436				0.385				0.858				0.606

Low	2.182	0.404	11.796	0.365	3.115	0.553	17.552	0.198	1.720	0.340	8.705	0.512	1.452	0.370	5.693	0.593	1.819	0.463	7.142	0.392
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	3.796	0.460	31.351	0.216	0.928	0.238	3.611	0.914	0.709	0.170	2.962	0.638
γ-GGT				0.997				0.982				0.936				0.875				0.952
Low	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	2345110655.357	0.000	4692672260.111	>0.999
High	1.056	0.273	4.076	0.938	0.857	0.174	4.228	0.850	1.194	0.458	3.116	0.717	0.796	0.335	1.892	0.605	0.869	0.361	2.092	0.754
CHE				0.638				0.996				0.745				0.494				0.980
Low	2.331	0.405	13.429	0.343	1.108	0.119	10.316	0.928	1.425	0.267	7.602	0.679	0.365	0.069	1.928	0.235	0.857	0.191	3.857	0.841
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.398	0.024	6.686	0.522	1889113232.054	0.000	3780109342.096	0.999	2370229518.539	0.000	4736326730.632	0.999
Prealbumin (low)	2.075	0.628	6.856	0.231	2.031	0.543	7.603	0.293	0.613	0.244	1.540	0.298	1.087	0.447	2.643	0.853	1.156	0.472	2.829	0.752
Total protein				0.917				0.871				0.385				0.729				0.871
Low	1.246	0.444	3.496	0.677	1.371	0.423	4.447	0.599	1.635	0.814	3.286	0.167	1.298	0.682	2.471	0.427	1.191	0.621	2.285	0.599
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	841768249.242	0.000	168798902 6.545	>0.999	2028562358.492	0.000	4047486201.755	>0.999	2661690354.582	0.000	5322186665.368	>0.999
Albumin (low)	2.948	0.631	13.768	0.169	1.936	0.399	9.382	0.412	1.324	0.613	2.857	0.475	1.445	0.698	2.993	0.321	1.209	0.580	2.518	0.613
GLOB (low)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.383	0.050	2.916	0.354	1.132	0.151	8.518	0.904	4.471	0.442	45.273	0.205
AGR (low)	2.530	0.718	8.917	0.149	2.442	0.593	10.060	0.216	1.365	0.462	4.033	0.574	0.715	0.272	1.876	0.495	3.071	1.139	8.281	0.027
TBIL (high)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.863	0.243	3.064	0.820	0.810	0.242	2.704	0.731	0.678	0.193	2.382	0.544

Conjugated bilirubin (high)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.851	0.075	9.717	0.897	2.341	0.206	26.555	0.492	0.000	0.000	0.002	0.999
Unconjugated bilirubin				0.885				0.974				0.978				0.693				0.763
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	1.278	0.127	12.827	0.835	0.366	0.037	3.648	0.391	0.443	0.044	4.421	0.488
High	0.585	0.070	4.918	0.622	0.777	0.090	6.703	0.818	0.998	0.286	3.477	0.997	0.962	0.303	3.053	0.948	0.845	0.259	2.754	0.780
TBA (high)	1.060	0.114	9.819	0.959	1.337	0.141	12.702	0.800	0.310	0.064	1.497	0.145	0.443	0.081	2.425	0.348	3.999	0.728	21.961	0.111
UA				0.412				0.322				0.183				0.977				0.030
Low	1.987	0.365	10.817	0.427	3.132	0.540	18.157	0.203	0.373	0.100	1.393	0.142	1.131	0.308	4.159	0.853	2.678	0.707	10.147	0.147
High	0.343	0.042	2.776	0.316	0.487	0.058	4.054	0.505	0.540	0.210	1.388	0.201	0.960	0.384	2.399	0.930	3.127	1.210	8.082	0.019
Urea				>0.999				>0.999				0.236				0.655				0.399
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	2.477	0.520	11.808	0.255	0.772	0.233	2.555	0.671	0.647	0.186	2.253	0.494
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	4.090	0.494	33.901	0.192	0.541	0.129	2.262	0.400	0.370	0.074	1.856	0.227
Creatinine				0.356				0.679				0.980				0.552				0.733
Low	0.329	0.071	1.532	0.157	0.494	0.102	2.388	0.380	0.925	0.422	2.026	0.845	0.911	0.440	1.886	0.802	0.742	0.351	1.567	0.434
High	0.660	0.077	5.685	0.705	0.942	0.106	8.370	0.957	1.019	0.246	4.218	0.979	0.458	0.112	1.875	0.278	0.865	0.229	3.259	0.830

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; GLOB, globulin; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SVII. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the total dataset (adjusted by age and sex).

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
BMI				0.900
Underweight	461542574.128	0.000	922799215.162	0.999
Overweight	0.971	0.419	2.254	0.946
Obese	1.489	0.466	4.751	0.502
Smoking status	1.330	0.582	3.038	0.499
Alcohol consumption	1.357	0.542	3.397	0.514
Hypertension	4.505	1.868	10.869	0.001
Diabetes	2.130	0.946	4.797	0.068
hs-CRP (high)	1.856	0.772	4.458	0.167
Homocysteine (high)	0.668	0.234	1.907	0.451
FBG				0.254
Low	0.000	0.000	0.002	0.999
High	2.074	0.874	4.921	0.098
Triglyceride (high)	1.840	0.733	4.622	0.194
TC				0.401
Low	0.418	0.112	1.568	0.196
High	1.280	0.259	6.331	0.762

HDL-c				0.928
Low	0.761	0.190	3.042	0.699
High	673714766.841	0.000	1345717597.440	>0.999
LDL-c				0.444
Low	1.462	0.545	3.919	0.451
High	1.775	0.698	4.517	0.229
ALP				0.711
Low	509361830.291	0.000	1013916665.963	0.999
High	2.492	0.285	21.795	0.409
AST				0.369
Low	0.515	0.205	1.294	0.158
High	0.859	0.166	4.438	0.856
ALT				0.758
Low	0.575	0.134	2.477	0.458
High	0.921	0.181	4.696	0.922
γ-GGT				0.963
Low	464834220.945	0.000	930191843.425	>0.999
High	1.162	0.395	3.414	0.785
CHE				0.968
Low	0.803	0.148	4.366	0.800
High	419048842.796	0.000	836490613.024	0.999

Prealbumin (low)	0.685	0.249	1.883	0.464
Total protein				0.263
Low	0.512	0.229	1.143	0.102
High	475363797.153	0.000	950605596.402	>0.999
Albumin (low)	1.057	0.446	2.505	0.901
GLOB (low)	0.743	0.072	7.707	0.803
AGR (low)	3.014	0.654	13.899	0.157
TBIL (high)	1.351	0.277	6.586	0.710
Conjugated bilirubin (high)	0.508	0.044	5.852	0.587
Unconjugated bilirubin				0.851
Low	454932850.957	0.000	911627955.658	0.999
High	1.577	0.327	7.613	0.571
TBA (high)	1.689	0.190	15.002	0.638
UA				0.585
Low	1.365	0.268	6.957	0.708
High	1.924	0.528	7.012	0.321
Urea				0.277
Low	1.324	0.274	6.406	0.727
High	0.338	0.084	1.354	0.126
Creatinine				0.534

Low	1.358	0.552	3.341	0.505
High	2.840	0.341	23.657	0.334

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SVIII. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the total dataset (adjusted by significant factor in the $\chi 2$ or Fisher's exact tests).

A, Olanzapine					
Risk factor	χ^2	OR	95%CI		P-value
			Lower limit limit	Upper limit limit	
BMI	0.048				0.558
Underweight		0.000	0.000	0.002	0.999
Overweight		2.303	0.740	7.170	0.150
Obese		0.000	0.000	0.002	0.998
B, Haloperidol					
Risk factor	χ^2	OR	95%CI		P-value
			Lower limit limit	Upper limit limit	
ALP	0.001				0.105
Low		2915628942.903	0.000	5828006533.520	0.999
High		6.401	1.155	35.465	0.034
CHE	0.007				0.260
Low		4.295	0.753	24.494	0.101
High		4161134185.978	0.000	8323270180.999	0.999
C, Risperidone					

Risk factor	χ^2	OR	95%CI		P-value
			Lower limit limit	Upper limit limit	
Diabetes	0.029	0.000	0.000	0.002	0.997
BMI, body mass index; ALP, alkaline phosphatase; CHE, cholinesterase.					

Table SIX. Multiple logistic regression results of abnormal metabolism of antidepressants associated with clinical indicators based on the total dataset (adjusted by the significant factor in χ^2 tests).													
Risk factor	χ^2	Citalopram/escitalopram				Sertraline				Mirtazapine/venlafaxine			
		OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
			Lower limit	Upper limit			Lower limit	Upper limit	Lower limit limit		Upper limit limit	Lower limit limit	
BMI	0.047 (citalopram/escitalopram); 0.035 (sertraline)				0.087				0.090				
Underweight		0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999				
Overweight		0.199	0.052	0.751	0.017	0.161	0.033	0.780	0.023				
Obese		0.316	0.063	1.574	0.160	0.197	0.023	1.683	0.138				
AGR (low)	0.023									2.640	0.945	7.375	0.064
UA	0.023												0.063
Low										2.099	0.522	8.435	0.296
High										2.938	1.123	7.692	0.028

BMI, body mass index; AGR, albumin to globulin ratio; UA, uric acid.

Table SX. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the total dataset (adjusted by the significant factor in χ^2 tests).

Risk factor	χ^2	OR	95%CI		P-value
			Lower limit	Upper limit	
Hypertension	0.001	4.078	1.653	10.063	0.002
FBG	0.014				0.408
Low		0.000	0.000	0.002	0.999
High		1.844	0.753	4.518	0.181

FBG, fasting blood glucose

Table SXI. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in antipsychotics based on the total dataset (adjusted by all clinical indicators).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				0.008				0.448				>0.999
Underweight	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	$4.513x10^{36}$	0.000	$9.022x10^{36}$	0.998
Overweight	11.776	2.897	47.864	0.001	6.370	0.687	59.107	0.103	20121103818349220000000000.000	0.000	$4.026x10^{26}$	0.987
Obese	4.443	1.013	19.493	0.048	0.000	0.000	0.002	0.996	1796.267	0.000	3592.998	0.999
Smoking status	0.536	0.164	1.753	0.303	6.581	0.833	51.968	0.074	0.001	0.000	0.002	>0.999
Alcohol consumption	0.416	0.113	1.526	0.186	2.613	0.351	19.459	0.349	4870532440.615	0.000	9741064881.230	0.998
Hypertension	4.450	0.957	20.688	0.057	1.407	0.087	22.706	0.810	212406465131360620000000.000	0.000	$4.252x10^{22}$	0.997
Diabetes	0.675	0.117	3.880	0.659	0.557	0.012	24.808	0.762	0.000	0.000	0.002	0.996
hs-CRP (high)	1.425	0.413	4.914	0.575	12.590	0.625	253.756	0.098	0.000	0.000	0.002	0.998
Homocysteine (high)	0.406	0.081	2.048	0.275	0.669	0.037	12.111	0.785	0.000	0.000	0.002	0.994
FBG				0.507				>0.999				>0.999
Low	5.938	0.159	221.797	0.335	1417718990087.767	0.000	2835437980175.534	>0.999	3680055618346631500000000.000	0.000	$7.364x10^{25}$	0.999

High	0.605	0.098	3.723	0.588	0.991	0.022	44.903	0.996	0.000	0.000	0.002	0.998
Triglyceride (high)	0.450	0.122	1.650	0.228	1.416	0.130	15.374	0.775	330886979550993650000000000000000.000	0.000	$6.618x10^{33}$	0.993
TC				0.126				0.968				>0.999
Low	0.467	0.065	3.363	0.450	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.998
High	12.429	0.979	157.843	0.052	1.574	0.048	51.349	0.799	0.000	0.000	0.002	0.998
HDL-c				0.966				0.526				>0.999
Low	0.758	0.096	5.991	0.793	0.059	0.000	7.917	0.257	0.000	0.000	0.002	0.998
High	1306647408.557	0.000	$4.792x10^{9}$	>0.999	0.000	0.000	0.002	>0.999	$2.692x10^{69}$	0.000	$5.384x10^{69}$	0.998
LDL-c				0.814				0.402				>0.999
Low	0.692	0.180	2.662	0.593	5.585	0.451	69.132	0.180	0.000	0.000	0.002	0.995
High	1.202	0.348	4.155	0.771	1.567	0.118	20.896	0.734	0.000	0.000	0.002	0.997
ALP				0.031				0.605				>0.999
Low	1816499199.959	0.000	3632169600.918	0.999	1.464	0.017	127.474	0.867	0.000	0.000	0.002	0.998
High	58.953	2.849	1220.011	0.008	12.100	0.092	1597.854	0.317	0.000	0.000	0.002	0.998
AST				0.291				0.192				>0.999
Low	1.883	0.456	7.768	0.382	0.065	0.003	1.243	0.069	0.000	0.000	0.002	0.997
High	63.866	0.180	22655.173	0.165	1822379.300	0.000	3644758.6	0.997	$2.719x10^{39}$	0.000	$5.440x10^{39}$	0.998
ALT				0.953				0.192				>0.999
Low	0.854	0.070	10.343	0.901	78.199	0.707	8648.123	0.069	111524.048	0.000	219163.497	>0.999
High	0.423	0.001	127.272	0.767	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.997

γ-GGT				0.040				0.979				>0.999
Low	0.059	0.000	0.116	>0.999	3441432.316	0.000	6735854.346	>0.999	$1.964x10^{58}$	0.000	$3.873x10^{58}$	0.998
High	0.094	0.015	0.585	0.011	0.781	0.076	8.077	0.836	1326963971145539500000000.000	0.000	$2.629x10^{23}$	0.997
CHE				0.146				0.732				>0.999
Low	20.850	1.004	432.798	0.050	0.054	0.000	74.741	0.429	4303221628.657	0.000	$8.566x10^{9}$	0.999
High	2229077663.053	0.000	$4.440x10^{9}$	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.997
Prealbumin (low)	1.056	0.178	6.270	0.952	5.040	0.216	117.840	0.315	0.000	0.000	0.002	>0.999
Total protein				0.470				0.954				>0.999
Low	0.476	0.145	1.556	0.219	1.326	0.217	8.096	0.760	4737979.402	0.000	$1.462x10^{7}$	0.998
High	23312946.196	0.000	$1.376x10^{8}$	>0.999	0.000	0.000	0.002	0.999	$1.293x10^{146}$	0.000	$3.587x10^{146}$	0.997
Albumin (low)	1.238	0.323	4.745	0.755	3.007	0.243	37.263	0.391	0.000	0.000	0.002	0.998
GLOB (low)	6.334	0.325	123.587	0.223	0.000	0.000	0.002	0.999	$4.319x10^{62}$	0.000	$1.585x10^{63}$	0.991
AGR (low)	1.257	0.260	6.084	0.777	0.043	0.001	2.974	0.146	101073044.671	0.000	$4.406x10^{8}$	0.999
TBIL (high)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.996
Conjugated bilirubin (high)	115.871	0.724	18538.695	0.066	334889012187948030.000	0.000	$1.070x10^{18}$	0.998	0.000	0.000	0.002	0.998
Unconjugated bilirubin				0.298				>0.999				>0.999

Low	12.541	0.519	302.859	0.120	0.000	0.000	0.002	0.999	1.497	0.000	4.263	>0.999
High	3483564969.561	0.000	$1.558x10^{10}$	0.999	0.000	0.000	0.002	0.999	$1.123x10^{43}$	0.000	$3.830x10^{43}$	0.993
TBA (high)	0.964	0.103	8.997	0.974	72.892	1.109	4789.741	0.045	7.527	0.000	26.494	>0.999
UA				0.084				0.842				>0.999
Low	10.886	1.295	91.514	0.028	0.000	0.000	0.002	0.998	629719403094828500000000000000000.000	0.000	$2.167x10^{32}$	0.999
High	1.028	0.232	4.560	0.971	2.030	0.191	21.570	0.557	4984.429	0.000	17514.797	0.999
Urea				0.497				0.888				>0.999
Low	3.806	0.351	41.233	0.272	0.812	0.026	25.343	0.906	0.000	0.000	0.002	0.998
High	0.557	0.064	4.858	0.597	2.403	0.068	85.418	0.630	736456788606185.200	0.000	$2.590x10^{15}$	0.997
Creatinine				0.215				0.836				>0.999
Low	0.293	0.062	1.387	0.122	2.093	0.186	23.495	0.550	1531204307061.128	0.000	$4.760x10^{12}$	0.996
High	0.277	0.021	3.612	0.327	1.068	0.017	67.825	0.975	4135293807284863.500	0.000	$1.850x10^{16}$	0.999

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXII. Multiple logistic regression results of clinical indexes associated with abnormal drug metabolism in antidepressants based on the total dataset (adjusted by all clinical indicators).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit limit			Lower limit	Upper limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				>0.999				>0.999				0.471				0.219				0.914
Underweight	0.000	0.000	0.002	>0.999	31.493	0.000	59.394	>0.999	0.043	0.000	3.708	0.166	8.004	0.198	323.138	0.270	51048049110 7.520	0.000	$2.54x10^{12}$	0.999
Overweight	0.000	0.000	0.002	0.994	0.000	0.000	0.002	0.999	1.305	0.441	3.857	0.630	0.442	0.171	1.147	0.093	0.683	0.225	2.072	0.500
Obese	0.000	0.000	0.002	0.990	0.000	0.000	0.002	0.997	0.906	0.264	3.101	0.875	0.776	0.257	2.346	0.653	0.953	0.260	3.494	0.942
Smoking status	0.000	0.000	0.002	0.995	0.000	0.000	0.002	0.992	0.641	0.212	10.939	0.431	0.963	0.383	2.420	0.936	0.754	0.247	2.300	0.620
Alcohol consumption	375480130096870700000000000 0000000.000	0.000	$1.510x10^{34}$	0.991	5543095493926523900.000	0.000	$1.840x10^{19}$	0.997	1.177	0.371	3.735	0.782	1.248	0.434	3.591	0.681	2.535	0.662	9.700	0.174

Hypertension	0.000	0.000	0.002	0.996	0.000	0.000	0.002	0.997	0.352	0.083	1.481	0.154	0.257	0.081	0.822	0.022	0.052	0.010	0.278	0.001
Diabetes	0.000	0.000	0.002	0.997	0.993	0.000	1.12	>0.999	0.801	0.167	3.834	0.781	2.573	0.576	11.490	0.216	4.912	0.821	29.385	0.081
hs-CRP (high)	26622939510962190000000000000.000	0.000	4.110x10^{29}	0.996	7.515x10^{39}	0.000	2.480x10^{40}	0.989	1.754	0.582	5.288	0.318	0.447	0.159	1.258	0.127	9.435	2.014	44.200	0.004
Homocysteine (high)	438240337700515330.000	0.000	2.630x10^{18}	0.998	0.000	0.000	0.002	0.999	2.215	0.473	10.382	0.313	2.323	0.602	8.969	0.221	1.212	0.253	5.799	0.810
FBG				>0.999				>0.999								0.945				0.036
Low	2.114x10^{122}	0.000	1.77x10^{123}	>0.999	1.747x10^{125}	0.000	2.650x10^{125}	0.992	0.050	0.001	2.534	0.89	0.705	0.024	20.920	0.840	6.702	0.010	4389.189	0.565
High	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.998	1.305	0.264	6.455	0.76	0.800	0.181	3.546	0.769	0.089	0.013	0.592	0.012
Triglyceride (high)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.997	0.818	0.269	2.492	0.724	1.435	0.521	3.954	0.485	1.251	0.417	3.754	0.689
TC				>0.999				>0.999				0.445				0.650				0.530
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.996	0.435	0.061	3.119	0.408	0.463	0.090	2.376	0.356	0.405	0.051	3.190	0.391
High	0.000	0.00	0.002	>0.9	11843292237489464000000.000	0.00	2.369x1	0.99	0.371	0.04	2.812	0.33	0.939	0.13	6.441	0.94	0.475	0.04	4.607	0.52

		0		99		0	0^{22}	8		9		7		7		9		9		0
HDL-c				>0.999				>0.999				0.310				0.487				0.099
Low	0.000	0.000	0.002	>0.999	0.005	0.000	0.010	>0.999	0.204	0.027	1.562	0.126	0.296	0.040	2.168	0.231	18.903	1.301	274.721	0.031
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999	80227084867 8.952	0.000	$1.572x10^{12}$	0.999
LDL-c				>0.999				>0.999				0.293				0.171				0.229
Low	38446322931.339	0.000	$7.277x10^{10}$	0.999	455541892992.624	0.000	$1.618x10^{12}$	0.995	1.993	0.490	8.109	0.335	0.781	0.257	2.375	0.663	0.256	0.053	1.227	0.088
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	0.998	0.538	0.163	1.775	0.309	2.482	0.850	7.246	0.096	0.681	0.188	2.463	0.558
ALP				>0.999				>0.999				0.609				0.337				0.128
Low	8464086508311060000000000000000.000	0.000	$1.825x10^{31}$	0.998	259422928560969900000000000000.000	0.000	$5.051x10^{30}$	0.999	0.080	0.001	11.519	0.319	10.072	0.468	216.547	0.140	1.780	0.057	55.359	0.742
High	$4.069x10^{126}$	0.000	$2.290x10^{127}$	0.993	$2.910x10^{117}$	0.000	$1.310x10^{118}$	0.992	0.928	0.070	12.316	0.955	1.070	0.091	12.525	0.957	28.823	1.074	773.235	0.045
AST				>0.999				>0.999				0.801				0.051				0.001
Low	$7.229x10^{37}$	0.00	1.610x1	0.99	9368274092656043000000000000.	0.00	2.530x1	0.99	1.035	0.30	3.573	0.95	4.404	1.33	14.533	0.01	4.422	1.09	17.798	0.03

		0	0^{38}	4	000	0	0^{28}	5		0		7		5		5		9		6
High	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.997	3.874	0.070	214.030	0.508	1.021	0.070	14.976	0.988	0.002	0.000	0.097	0.001
ALT				>0.999				>0.999				0.369				0.483				0.063
Low	10403649241343062000.000	0.000	$2.180x10^{19}$	0.997	5649770366.137	0.000	$1.180x10^{10}$	0.999	3.411	0.212	54.893	0.387	0.306	0.041	2.259	0.246	0.355	0.027	4.636	0.430
High	$7.950x10^{89}$	0.000	$3.130x10^{90}$	0.998	$8.548x10^{99}$	0.000	$2.900x10^{100}$	0.997	13.607	0.208	890.420	0.221	0.512	0.041	6.369	0.603	43.822	1.663	1154.523	0.024
γ-GGT				>0.999				>0.999				0.845				0.803				0.984
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	39331976596.381	0.000	$1.490x10^{11}$	>0.999
High	$2.068x10^{38}$	0.000	$6.360x10^{38}$	0.994	807494133745965500000000.000	0.000	$2.570x10^{24}$	0.995	1.485	0.391	5.640	0.561	0.680	0.218	2.127	0.508	1.131	0.293	4.371	0.858
CHE				>0.999				>0.999				0.493				0.134				0.070
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.990	3.321	0.103	106.777	0.498	0.090	0.009	0.948	0.045	0.019	0.001	0.553	0.021
High	$2.272x10^{37}$	0.000	$7.11x10^{37}$	0.999	$1.801x10^{55}$	0.000	$5.730x10^{55}$	0.997	0.086	0.001	10.351	0.315	3019317034.0784	0.000	$9.510x10^{10}$	0.999	837696929.402	0.000	$2.640x10^{9}$	0.999
Prealbumi	$2.030x10^{62}$	0.00	1.690x1	0.99	4973721220881816400000000000	0.00	1.740x1	0.99	0.481	0.10	2.279	0.35	2.531	0.65	9.818	0.17	0.750	0.14	3.946	0.73

n (low)		0	0^{63}	4	00000000.000	0	0^{36}	2		2		6		3		9		3		5
Total protein				>0.999				>0.999				0.180				0.973				0.398
Low	23219277021966.510	0.000	5.580x10^{13}	0.997	3344949838945927600000.000	0.000	1.740x10^{22}	0.994	2.692	0.944	7.673	0.064	1.109	0.466	2.639	0.815	2.142	0.713	6.438	0.175
High	1585793801455926270.000	0.000	2.850x10^{18}	>0.999	10766578552075273000000000000000.000	0.000	2.340x10^{30}	0.999	100879247.268	0.000	2.87x10^{8}	>0.999	1241040362.304	0.000	3.790x10^{9}	>0.999	92717359225.514	0.000	2.490x10^{11}	0.999
Albumin (low)	1446.732	0.000	2718.123	0.999	88321.412	0.000	103342.766	0.998	1.412	0.392	5.079	0.598	2.235	0.742	6.729	0.153	0.306	0.080	1.168	0.083
GLOB (low)	67731320023528710000.000	0.000	1.620x10^{20}	0.998	207476973656116480.000	0.000	5.280x10^{17}	0.999	0.139	0.009	2.123	0.156	0.485	0.043	5.486	0.559	14.520	0.600	351.533	0.100
AGR (low)	0.000	0.000	0.001	0.987	0.000	0.000	0.020	0.995	3.331	0.598	18.555	0.170	0.460	0.111	1.900	0.283	3.458	0.661	18.099	0.142
TBIL (high)	0.000	0.000	0.002	0.994	0.000	0.000	0.020	0.996	0.009	0.000	1.318	0.064	6.287	0.180	218.986	0.310	3.322	0.040	279.045	0.595
Conjugated bilirubin (high)	0.000	0.000	0.020	0.998	0.000	0.000	0.020	>0.999	1.183	0.018	77.551	0.937	4.417	0.114	171.699	0.426	0.000	0.000	0.020	0.999
Unconjugated bilirubin				>0.999				>0.999				0.249				0.272				0.443
Low	6.822x10^{47}	0.00	1.730x1	0.99	4.724x10^{95}	0.00	1.180x1	0.99	1.179	0.05	25.22	0.91	0.117	0.00	2.630	0.17	0.130	0.00	3.090	0.20

		0	0^{48}	7		0	0^{96}	7		5	6	6		5		7		5		7
High	$8.399x10^{53}$	0.000	$2.080x10^{54}$	0.997	458590907380162200000000000000000.000	0.000	$1.130x10^{35}$	0.997	64.029	0.465	8824.142	0.098	0.241	0.008	7.350	0.414	0.854	0.011	63.844	0.943
TBA (high)	4288334468439.812	0.000	$7.690x10^{12}$	>0.999	4281477770186.425	0.000	1.070	0.997	0.167	0.016	1.702	0.131	0.608	0.076	4.892	0.640	5.223	0.413	66.068	0.202
UA				>0.999				>0.999				0.054				0.809				0.001
Low	16567301064967.600	0.000	$2.770x10^{13}$	0.996	340827063002629310.000	0.000	$1.530x10^{18}$	0.998	0.125	0.020	0.760	0.024	0.842	0.149	4.752	0.845	5.877	0.702	49.228	0.102
High	0.000	0.000	0.002	0.997	6054.862	0.000	12121.422	0.999	0.426	0.110	1.654	0.218	0.671	0.197	2.286	0.523	23.551	4.294	129.152	0.000
Urea				>0.999				>0.999				0.039				0.475				0.100
Low	9123833030169.652	0.000	$1.830x10^{13}$	0.999	0.000	0.000	0.002	0.999	25.037	1.438	436.011	0.027	2.635	0.482	14.414	0.264	0.258	0.029	2.330	0.228
High	0.000	0.000	0.002	0.994	0.000	0.000	0.020	0.995	9.131	0.399	209.129	0.166	0.626	0.104	3.765	0.609	0.078	0.005	1.103	0.059
Creatinine				>0.999				>0.999				0.566				0.387				0.631
Low	0.000	0.000	0.020	0.989	0.000	0.000	0.002	0.992	0.521	0.154	1.771	0.297	0.507	0.169	1.524	0.226	1.036	0.307	3.500	0.955
High	0.000	0.00	0.020	0.99	0.000	0.00	0.020	0.99	0.622	0.05	6.847	0.69	0.438	0.04	4.290	0.47	0.257	0.01	4.146	0.33

		0		7		0		8		7		8		5		8		6		8

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXIII. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in anxiolytics (oxazepam/lorazepam) based on the total dataset (adjusted by all clinical indicators).

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
BMI				0.934
Underweight	1524981911.978	0.000	30500438239.570	0.999
Overweight	1.472	0.459	4.724	0.516
Obesity	1.251	0.289	5.412	0.765
Smoking status	0.942	0.276	3.208	0.923
Alcohol consumption	0.437	0.098	1.935	0.275
Hypertension	9.981	2.341	42.553	0.002
Diabetes	1.862	0.235	14.738	0.556
hs-CRP (high)	1.021	0.301	3.462	0.974
Homocysteine (high)	0.333	0.060	1.836	0.207
FBG				0.941
Low	0.000	0.000	0.010	0.999
High	1.474	0.166	13.092	0.728
Triglyceride (high)	0.815	0.193	3.446	0.780
TC				0.687
Low	0.501	0.078	3.240	0.468
High	1.885	0.177	20.075	0.599

HDL-c				0.971
Low	0.743	0.067	8.255	0.809
High	7079874330.472	0.000	14159748660.944	>0.999
LDL-c				0.311
Low	2.582	0.570	11.707	0.219
High	2.381	0.577	9.816	0.230
Urea				0.313
Low	0.207	0.023	1.899	0.164
High	0.509	0.064	4.058	0.524
Creatinine				0.624
Low	2.061	0.462	9.208	0.343
High	0.763	0.020	28.604	0.884
ALP				0.861
Low	104817125.170	0.000	210112541.473	0.999
High	0.350	0.008	15.086	0.585
AST				0.162
Low	0.283	0.072	1.116	0.071
High	4.065	0.058	286.166	0.518
ALT				0.329
Low	0.157	0.011	2.304	0.177
High	0.196	0.003	13.087	0.447

γ-GGT				0.600
Low	8.513	0.000	17.113	>0.999
High	0.437	0.088	2.177	0.312
CHE				0.796
Low	2.360	0.195	28.566	0.500
High	76322643.482	0.000	151685297.566	0.999
Prealbumin (low)	0.197	0.029	1.340	0.097
Total protein				0.243
Low	0.303	0.075	1.218	0.093
High	531703369.186	0.000	54341406753.911	>0.999
Albumin (low)	4.010	0.811	19.820	0.088
GLOB (low)	1.268	0.080	20.135	0.866
AGR (low)	44.625	0.955	2086.272	0.053
TBIL (high)	3.465	0.005	2213.108	0.706
Conjugated bilirubin (high)	0.850	0.014	51.075	0.938
Unconjugated bilirubin				0.995
Low	2895173638.297	0.000	575035737265082 90000000	0.999
High	0.725	0.001	421.532	0.921
TBA (high)	0.752	0.048	11.768	0.839
UA				0.720

Low	2.574	0.261	25.338	0.418
High	1.072	0.181	6.352	0.939
Urea				0.313
Low	0.207	0.023	1.899	0.164
High	0.509	0.064	4.058	0.524
Creatinine				0.624
Low	2.061	0.462	9.208	0.343
High	0.763	0.020	28.604	0.884

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; TC, total cholesterol; HDL-c, high-density lipoprotein cholesterol; LDL-c, low-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, γ-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXIV. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the training dataset (adjusted by age and sex).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				0.232				0.967				>0.999
Underweight	0.000	0.000	0.020	>0.999	0.000	0.000	0.020	>0.999	0.252	0.000	0.423	>0.999
Overweight	2.814	1.054	7.513	0.039	0.604	0.087	4.205	0.611	0.000	0.000	0.002	0.998
Obese	1.968	0.571	6.779	0.283	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.998
Hypertension	1.812	0.628	5.227	0.271	0.398	0.056	2.800	0.354	15497663.796	0.000	$2.860x10^{7}$	0.998
hs-CRP (high)	1.121	0.394	3.185	0.831	1.385	0.134	14.322	0.785	13727547.079	0.000	$2.600x10^{7}$	0.998
FBG				0.178				0.202				>0.999
Low	1.619	0.089	29.497	0.745	21.949	0.593	812.218	0.094	0.961	0.000	1.49	>0.999
High	0.436	0.174	1.093	0.077	4.776	0.443	51.531	0.198	0.000	0.000	0.002	0.998
HDL-c				0.983				>0.999				>0.999
Low	1.164	0.238	5.696	0.851	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	3047578864.429	0.000	$5.990x10^{9}$	>0.999	0.000	0.000	0.002	>0.999	0.545	0.000	0.98	>0.999
ALP				0.265				0.556				>0.999
Low	4279510728.774	0.000	$1.537x10^{10}$	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999

High	7.449	0.666	83.377	0.103	4.705	0.286	77.340	0.278	0.000	0.000	0.002	0.999
AST				0.609				0.500				>0.999
Low	1.707	0.576	5.060	0.335	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.998
High	0.894	0.151	5.286	0.901	4.507	0.367	55.359	0.239	0.000	0.000	0.002	0.999
ALT				0.643				0.388				>0.999
Low	0.533	0.051	5.561	0.599	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	0.400	0.042	3.772	0.424	5.829	0.473	71.771	0.169	0.000	0.000	0.002	0.999
γ-GGT (high)	0.105	0.013	0.861	0.036	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
CHE				>0.999				>0.999				>0.999
Low	3059389280.798	0.000	$1.121x10^{10}$	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	4049045606.111	0.000	$1.507x10^{10}$	0.999	0.000	0.000	0.002	0.999	0.810	0.000	3.040	>0.999
GLOB (low)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.836	0.000	3.280	>0.999
AGR (low)	1.047	0.273	4.011	0.947	1.171	0.101	13.520	0.899	0.000	0.000	0.002	0.999
TBIL (high)	1.802	0.333	9.750	0.494	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
TBA (high)	1.438	0.186	11.118	0.728	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
UA				0.564				0.861				>0.999
Low	0.306	0.032	2.892	0.301	0.000	0.000	0.002	0.999	0.513	0.000	1.940	>0.999
High	0.799	0.217	2.937	0.736	1.954	0.178	21.477	0.584	0.000	0.000	0.002	0.999
Urea				0.324				0.057				>0.999
Low	2.405	0.498	11.619	0.275	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	2.892	0.439	19.066	0.270	25.172	1.792	353.572	0.017	0.000	0.000	0.002	0.999

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT,

alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXV. Multiple logistic regression of abnormal metabolism of antidepressants associated with clinical indicators based on the training dataset (adjusted by age and sex).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit			Lower limit limit	Upper limit limit	
BMI				0.453				0.384				0.679				0.835				0.994
Underweight	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	1077927687.190	0.000	4.140x10^{9}	>0.999	1814037506.488	0.000	7.020x10^{9}	>0.999	2049060651.880	0.000	8.060x10^{9}	>0.999
Overweight	0.294	0.054	1.592	0.156	0.158	0.017	1.472	0.105	1.363	0.514	3.618	0.534	1.154	0.458	2.904	0.761	0.889	0.354	2.238	0.803
Obese	0.300	0.032	2.811	0.292	0.346	0.036	3.350	0.359	2.270	0.602	8.555	0.226	1.744	0.537	5.671	0.355	1.014	0.318	3.237	0.981
Hypertension	0.578	0.130	2.567	0.471	0.374	0.074	1.889	0.234	0.561	0.183	1.719	0.312	0.438	0.158	1.216	0.113	0.728	0.277	1.908	0.518
hs-CRP (high)	2.209	0.257	18.956	0.470	1.492	0.165	13.522	0.722	1.743	0.615	4.940	0.296	0.434	0.149	1.262	0.125	3.016	0.983	9.251	0.054
FBG				0.141				0.732				0.753				0.839				0.735
Low	33.813	1.027	1112.949	0.048	1830404679.672	0.000	7.140x10^{9}	0.998	0.353	0.018	6.754	0.489	0.703	0.038	13.115	0.813	0.985	0.054	17.853	0.992
High	1.737	0.388	7.774	0.470	2.001	0.358	11.189	0.429	1.093	0.435	2.745	0.850	1.245	0.531	2.918	0.615	0.712	0.303	1.675	0.437
HDL-c				0.961				0.920				0.389				0.488				0.124

Low	1.385	0.143	13.419	0.779	1.611	0.162	16.010	0.684	0.328	0.067	1.607	0.169	0.351	0.063	1.945	0.231	9.712	1.098	85.945	0.041
High	0.000	0.000	0.002	>0.999	0.827	0.000	3.400	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	2261522581.944	0.000	8.980x10^{9}	>0.999
ALP				0.517				>0.999				0.478				0.454				0.993
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.336	0.018	6.140	0.462	1153003078.574	0.000	4.570x10^{9}	0.999	0.000	0.000	0.002	0.999
High	4.392	0.352	54.792	0.250	0.000	0.000	0.002	0.999	0.336	0.041	2.741	0.308	0.216	0.020	2.356	0.209	1.132	0.147	8.743	0.905
AST				0.132				0.198				0.462				0.101				0.432
Low	4.654	1.041	20.807	0.044	4.805	0.869	26.571	0.072	0.582	0.192	1.759	0.337	3.529	1.040	11.974	0.043	1.039	0.357	3.021	0.944
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	2.156	0.236	19.689	0.496	2.266	0.387	13.270	0.364	0.238	0.026	2.142	0.200
ALT				0.070				>0.999				0.855				0.749				0.505
Low	20.020	1.569	255.526	0.021	1720749813.753	0.000	7.520x10^{9}	0.998	1.230	0.117	12.901	0.863	2.339	0.225	24.277	0.477	3.945	0.383	40.629	0.249
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	1.854	0.196	17.504	0.590	1.323	0.209	8.398	0.766	0.882	0.140	5.566	0.893
γ-GGT (high)	0.720	0.078	6.635	0.772	0.987	0.099	9.834	0.991	0.793	0.231	2.721	0.712	0.843	0.261	2.726	0.775	0.934	0.287	3.042	0.910
CHE				0.322				>0.999				0.870				>0.999				0.973
Low	9.226	0.511	166.444	0.132	0.000	0.000	0.002	0.999	815699508.511	0.000	2.880x10^{9}	0.999	1721795965.017	0.000	5.100x10^{9}	0.999	1.400	0.084	23.292	0.814

High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.465	0.027	8.004	0.598	1614486869.445	0.000	4.990x10^{9}	0.999	2259845148.205	0.000	7.740x10^{9}	0.999
GLOB (low)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.448	0.026	7.710	0.580	0.000	0.000	0.002	0.999	2240673336.282	0.000	7.710x10^{9}	0.999
AGR (low)	6.755	1.234	36.992	0.028	6.115	0.867	43.133	0.069	1.115	0.265	4.696	0.882	0.573	0.154	2.134	0.406	7.261	1.431	36.840	0.017
TBIL (high)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.966	0.164	5.687	0.970	1.965	0.337	11.466	0.453	0.622	0.106	3.631	0.598
TBA (high)	2.762	0.242	31.546	0.414	3.145	0.268	36.894	0.362	0.480	0.062	3.707	0.482	0.311	0.030	3.187	0.325	4.459	0.433	45.927	0.209
UA				0.698				0.277				0.141				0.891				0.040
Low	2.819	0.242	32.823	0.408	10.310	0.595	178.700	0.109	0.289	0.050	1.686	0.168	1.475	0.244	8.908	0.672	3.225	0.535	19.443	0.201
High	0.912	0.100	8.349	0.935	1.433	0.142	14.471	0.760	0.366	0.104	1.288	0.117	0.888	0.259	3.045	0.850	5.114	1.263	20.710	0.022
Urea				>0.999				>0.999				0.842				0.304				0.365
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	886674268.161	0.000	2.800x10^{9}	0.999	0.311	0.056	1.718	0.180	0.458	0.084	2.510	0.368
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	1.968	0.204	18.952	0.558	0.440	0.066	2.923	0.396	0.269	0.028	2.564	0.253

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXVI. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the training dataset (adjusted by age and sex)

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
BMI				0.775
Underweight	444563489.846	0.000	$1.430x10^9$	>0.999
Overweight	0.698	0.248	1.964	0.496
Obese	1.447	0.329	6.375	0.625
Hypertension	0.775	0.775	0.775	0.010
hs-CRP (high)	1.909	0.647	5.631	0.242
FBG				0.377
Low	0.000	0.000	0.002	0.999
High	2.159	0.733	6.357	0.162
HDL-c				0.502
Low	0.381	0.076	1.907	0.240
High	792631849.399	0.000	$2.500x10^9$	>0.999
ALP				>0.999
Low	682502652.336	0.000	$2.370x10^9$	0.999
High	692658878.176	0.000	$2.390x10^9$	0.999
AST				0.878

Low	1.128	0.323	3.943	0.851
High	1.743	0.190	16.019	0.624
ALT				0.968
Low	1.097	0.104	11.612	0.939
High	1.329	0.139	12.672	0.805
γ-GGT (high)	1.129	0.275	4.637	0.866
CHE				0.721
Low	0.311	0.018	5.264	0.419
High	461849862.850	0.000	$2.200x10^{9}$	0.999
GLOB (low)	478965305.931	0.000	$2.230x10^{9}$	0.999
AGR (low)	1.624	0.313	8.434	0.564
TBIL (high)	1.567	0.170	14.420	0.692
TBA (high)	0.999	0.095	10.485	0.999
UA				0.778
Low	0.719	0.115	4.489	0.724
High	1.620	0.322	8.144	0.558
Urea				0.745
Low	0.779	0.139	4.379	0.777
High	0.494	0.075	3.249	0.463

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXVII. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the training dataset (adjusted by the significant factor in χ^2 tests).

Risk factor	χ^2	Haloperidol				Olanzapine			
		OR	95%CI		P-value	OR	95%CI		P-value
			Lower limit	Upper limit limit			Lower limit limit	Upper limit limit	
ALP	0.034				0.310				
Low		3757327654.557	0.000	$1.830x10^{10}$	0.999				
High		6.595	0.590	73.764	0.126				
γ-GGT (high)	0.011	0.000	0.000	0.002	0.998				
CHE	0.018				>0.999				
Low		2550823605.863	0.000	$1.240x10^{10}$	0.999				
High		986457609886487550.000	0.000	$4.810x10^{18}$	0.999				
Urea	0.31								0.190
Low						0.000	0.000	0.002	0.999
High						14.304	0.818	250.231	0.068
FBG	0.043								0.559
Low						5.821	0.046	733.222	0.475
High						3.570	0.305	41.781	0.311

FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase.

Table SXVIII. Multiple logistic regression results of abnormal metabolism of antidepressants associated with clinical indicators based on the training dataset (adjusted by the significant factor in χ^2 tests),

Risk factor	χ^2	Sertraline				Mirtazapine/venlafaxine			
		OR	95%CI		P-value	OR	95%CI		P-value
			Lower limit	Upper limit limit			Lower limit limit	Upper limit limit	
ALT	0.038				>0.999				
Low		1720749813.753	0.000	$6.990x10^{10}$	0.998				
High		0.000	0.000	0.002	0.999				
AGR (low)	0.018					5.792	0.986	34.005	0.052
UA	0.029								0.048
Low						4.294	0.638	28.909	0.134
High						4.597	1.059	19.962	0.042
HDL-c	0.027								0.173
Low						8.657	0.904	82.872	0.061
High						4751191190.971	0.000	$1.200x10^{10}$	>0.999

ALT, alanine aminotransferase; AGR, albumin to globulin ratio; UA, uric acid; HDL-c, high-density lipoprotein cholesterol.

Table SXIX. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the training dataset (adjusted by the significant factor in χ^2 tests).

Risk factor	χ^2	OR	95%CI		P-value
			Lower limit	Upper limit limit	
Hypertension	0.010	3.878	1.290	11.661	0.016
FBG	0.029				0.400
Low		0.000	0.000	0.002	0.999
High		2.169	0.707	6.655	0.176

FBG, fasting blood glucose

Table SXX. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in antipsychotics based on the training dataset (adjusted by all clinical indicators).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit limit			Lower limit	Upper limit			Lower limit	Upper limit	
BMI				0.100				>0.999				>0.999
Underweight	1205512131.123	0.000	$1.670x10^{9}$	>0.999	0.000	0.000	0.002	>0.999	87460.042	0.000	165217.432	>0.999
Overweight	7.493	1.516	37.027	0.013	0.000	0.000	0.002	0.995	0.000	0.000	0.002	0.998
Obese	1.625	0.224	11.780	0.631	0.000	0.000	0.002	0.998	0.026	0.000	0.118	>0.999
Hypertension	3.456	0.491	24.348	0.213	0.023	0.000	0.103	>0.999	27318253.541	0.000	27318253.541	0.998
hs-CRP (high)	0.544	0.093	3.181	0.499	20.364	0.000	93.860	>0.999	35412152.128	0.000	$5.180x10^{7}$	0.998
FBG				0.073				>0.999				>0.999
Low	1.368	0.007	269.673	0.907	109070867360014500000.000	0.000	$5.470x10^{20}$	>0.999	717389.260	0.000	$1.170x10^{6}$	>0.999
High	0.148	0.029	0.764	0.023	29354333.832	0.000	$1.510x10^{8}$	0.998	0.000	0.000	0.002	0.998
HDL-c				0.957				>0.999				>0.999
Low	1.451	0.124	17.034	0.767	0.050	0.000	0.220	>0.999	0.000	0.000	0.002	>0.999
High	265374104.668	0.000	$1.030x10^{9}$	>0.999	0.000	0.000	0.002	0.998	0.000	0.000	0.002	>0.999

ALP				0.180				>0.999				>0.999
Low	23091043426044172.000	0.000	$4.730x10^{16}$	0.999	230366396.147	0.000	$5.130x10^{8}$	>0.999	0.121	0.000	0.372	>0.999
High	48.510	0.800	2942.428	0.064	1222308269820788.500	0.000	$2.890x10^{15}$	0.999	1.001	0.000	1.004	>0.999
AST				0.058				>0.999				>0.999
Low	14.476	1.616	129.666	0.017	0.000	0.000	0.002	0.999	1.014	0.000	1.021	>0.999
High	6857450.300	0.000	$2.280x10^{7}$	0.998	0.002	0.000	0.005	>0.999	8.736	0.000	12.050	>0.999
ALT				>0.999				>0.999				>0.999
Low	0.000	0.000	0.002	0.999	210974374146.744	0.000	$4.300x10^{11}$	0.999	0.000	0.000	0.002	>0.999
High	0.000	0.000	0.002	0.999	10340918633.842	0.000	$2.050x10^{10}$	>0.999	0.000	0.000	0.002	>0.999
γ-GGT (high)	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.999	21747.643	0.000	37245.843	>0.999
CHE				>0.999				>0.999				>0.999
Low	7192483407.479	0.000	$1.400x10^{10}$	0.999	0.009	0.000	0.017	>0.999	0.174	0.000	0.318	>0.999
High	2713916556315639500000 0.000	0.000	$5.300x10^{22}$	0.998	0.039	0.000	0.078	>0.999	142337076.029	0.000	$2.800x10^{8}$	>0.999
GLOB (low)	0.000	0.000	0.002	0.999	0.006	0.000	0.012	>0.999	989089.529	0.000	1862272.740	>0.999
AGR (low)	0.506	0.040	6.385	0.599	0.000	0.000	0.002	>0.999	4206269.579	0.000	$8.400x10^{6}$	0.999
TBIL (high)	1.531	0.082	28.681	0.776	29.190	0.000	58.380	>0.999	0.340	0.000	0.680	>0.999
TBA (high)	0.192	0.011	3.316	0.256	1120456767180158400000 0.000	0.000	$2.240x10^{22}$	0.998	0.000	0.000	0.002	0.999
UA				0.468				>0.999				>0.999
Low	0.428	0.009	19.389	0.662	0.001	0.000	0.002	>0.999	469124.965	0.000	938249.930	>0.999
High	0.223	0.019	2.552	0.227	1279647411401990200000 0.000	0.000	$2.559x10^{23}$	0.996	0.000	0.000	0.002	0.999

Urea				0.141				>0.999				>0.999
Low	8.101	0.792	82.852	0.078	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999
High	4.747	0.130	173.366	0.396	58025306663234050000000000000.000	0.000	$1.161x10^{29}$	0.999	9157.853	0.000	10736.000	>0.999

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXXI. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in antidepressants based on the training dataset (adjusted by all clinical indicators).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit	
BMI				>0.999				>0.999				0.339				0.921				0.866
Underweight	180983140065826730000.000	0.000	3.722 x10^{20}	0.999	237073791503460570000000.000	0.000	4.815 x10^{24}	0.999	787803130487653380.000	0.000	1.589 x10^{18}	0.999	236388867011533080000000000.000	0.000	4.854 x10^{27}	0.999	0.166	0.000	0.634	>0.999
Overweight	0.000	0.000	0.002	0.992	0.000	0.000	0.002	0.992	1.340	0.335	5.358	0.679	1.143	0.304	4.301	0.844	1.213	0.278	5.291	0.798
Obese	0.000	0.000	0.002	0.990	0.000	0.000	0.001	0.987	8.802	0.850	91.181	0.068	1.801	0.338	9.601	0.491	2.574	0.293	22.631	0.394
Hypertension	0.000	0.000	0.002	0.995	0.000	0.000	0.002	0.995	0.460	0.078	2.707	0.391	0.368	0.076	1.780	0.214	0.050	0.005	0.524	0.012
hs-CRP	32852936790801.230	0.000	6.636 x10^{13}	0.991	38805227247668.160	0.000	7.585 x10^{13}	0.992	1.758	0.386	8.002	0.466	0.257	0.054	1.216	0.087	28.302	2.505	319.777	0.007

(high)																				
FBG				>0.999				>0.999				0.797				0.568				0.677
Low	$9.367x10^{205}$	0.000	$1.850x10^{206}$	0.988	$1.748x10^{179}$	0.000	$3.490x10^{179}$	0.989	0.000	0.000	0.002	0.999	0.790	0.019	32.053	0.901	458595.877	0.000	$1.260x10^{6}$	0.999
High	540849025035052.750	0.000	$1.170x10^{15}$	0.995	562008551802273.100	0.000	$1.310x10^{15}$	0.995	1.629	0.394	6.729	0.500	1.931	0.564	6.607	0.295	0.509	0.114	2.275	0.377
HDL-c				>0.999				>0.999				0.394				0.893				0.190
Low	0.000	0.000	0.002	0.995	0.000	0.000	0.002	0.994	0.208	0.022	1.984	0.172	0.592	0.068	5.151	0.634	12.185	0.829	179.200	0.068
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	0.999	0.982	0.000	1.060	>0.999	56724627588980 56000000.000	0.000	$1.290x10^{22}$	0.999
ALP				>0.999				>0.999				0.117				>0.999				0.965
Low	9028526498508.105	0.000	$1.230x10^{13}$	0.999	8216396021366.804	0.000	$1.130x10^{13}$	0.999	0.140	0.001	22.800	0.449	646067676.795	0.000	$2.760x10^{9}$	0.999	0.000	0.000	0.002	0.999
High	$2.923x10^{123}$	0.000	$1.300x10^{124}$	0.985	$2.425x10^{93}$	0.000	$1.040x10^{94}$	0.997	0.022	0.001	0.960	0.048	0.000	0.000	0.002	0.999	1.665	0.040	68.870	0.788
AST				>0.999				>0.999				0.602				0.147				0.689
Low	$7.249x10^{53}$	0.0	3.320	0.9	$2.657x10^{54}$	0.0	1.060	0.9	0.417	0.0	2.288	0.3	5.539	0.9	30.75	0.0	0.459	0.0	2.694	0.3

		00	x10^{54}	86		00	x10^{55}	87		76		14		98	3	50		78		88
High	2566082446688.824	0.000	1.460 x10^{13}	0.999	42432969553681712.000	0.000	2.380 x10^{17}	>0.999	2138356451.272	0.000	1.300 x10^{10}	0.999	318304244777155970.000	0.000	1.790 x10^{18}	0.999	0.000	0.000	0.002	0.999
ALT				>0.999				>0.999				0.924				0.996				>0.999
Low	8859751597774.910	0.000	1.790 x10^{13}	0.998	1564361810118528.200	0.000	3.580 x10^{15}	0.998	2.594	0.024	283.611	0.691	1.152	0.046	28.741	0.931	1237841556.908	0.000	2.630 x10^{9}	0.999
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	14117865578.565	0.000	3.000 x10^{10}	0.999
γ-GGT (high)	179143331986704300000000000.000	0.000	3.440 x10^{28}	0.995	3896521955748545000000000000.000	0.000	2.980 x10^{28}	0.991	0.806	0.112	5.779	0.830	0.257	0.044	1.519	0.134	3.188	0.380	26.778	0.286
CHE				>0.999				>0.999				0.795				>0.999				0.997
Low	26282761701707872.000	0.000	4.730 x10^{16}	>0.999	0.000	0.000	0.002	0.997	960720465.605	0.000	2.950 x10^{9}	0.999	814851739.280	0.000	1.730 x10^{9}	0.999	1.162	0.020	67.837	0.942
High	1.414x10^{37}	0.000	4.140 x10^{37}	0.997	1.425x10^{39}	0.000	4.250 x10^{39}	0.997	0.283	0.007	10.911	0.498	18396651352.924	0.000	5.140 x10^{10}	0.999	40645935.763	0.000	1.230 x10^{8}	>0.999
GLOB (low)	264073250413291800000000000.000	0.000	7.710 x10^{26}	0.998	6577960906567205000000000.000	0.000	1.880 x10^{26}	0.998	0.397	0.015	10.488	0.580	0.000	0.000	0.002	0.999	71289367142.040	0.000	1.193 x10^{11}	0.999
AGR (low)	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.997	5.787	0.440	76.080	0.182	0.425	0.046	3.904	0.449	3.475	0.182	66.386	0.408
TBIL	0.000	0.0	0.002	0.9	0.000	0.0	0.002	0.9	0.588	0.0	5.345	0.6	1.807	0.2	14.98	0.5	2.856	0.2	28.75	0.3

(high)		00		93		00		94		65		37		18	3	84		84	9	73
TBA (high)	$5.331x10^{40}$	0.000	$9.860x10^{40}$	0.997	$2.765x10^{40}$	0.000	$1.426x10^{41}$	0.998	0.149	0.005	4.269	0.266	0.278	0.018	4.191	0.355	28.620	0.919	891.603	0.056
UA				>0.999				>0.999				0.024				0.535				0.011
Low	165292702294137470000.000	0.000	$1.510x10^{21}$	0.998	154197925632684600000000.000	0.000	$3.250x10^{22}$	0.999	0.046	0.003	0.660	0.023	0.516	0.047	5.643	0.587	5.746	0.177	186.846	0.325
High	11.918	0.000	17.280	>0.999	9.403	0.000	13.76	>0.999	0.165	0.022	1.259	0.082	0.338	0.044	2.604	0.298	48.043	3.678	627.493	0.003
Urea				>0.999				>0.999				>0.999				0.626				0.452
Low	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.999	2285983826.068	0.000	$3.350x10^{9}$	0.999	0.475	0.060	3.789	0.483	0.131	0.006	3.087	0.207
High	0.000	0.000	0.002	0.997	0.000	0.000	0.002	0.999	557081548139256380.000	0.000	$1.040x10^{18}$	0.998	0.419	0.035	4.982	0.491	0.000	0.000	0.002	0.999

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXXII. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in anxiolytics (oxazepam/lorazepam) based on the training dataset (adjusted by all clinical indicators).

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
BMI				0.852
Underweight	106805842264666560.000	0.000	$1.101x10^{18}$	0.999
Overweight	0.689	0.174	2.735	0.596
Obese	1.600	0.211	12.148	0.649
Hypertension	6.213	1.304	29.600	0.022
Hs-CRP (high)	1.020	0.219	4.741	0.980
FBG				0.418
Low	0.000	0.000	0.002	0.999
High	2.536	0.638	10.086	0.186
HDL-c				0.813
Low	0.494	0.058	4.231	0.520
High	8.049	0.000	34.52	>0.999
ALP				>0.999
Low	423065700.215	0.000	$4.930x10^{8}$	0.999
High	23680322.272	0.000	27,690,000.000	0.999
AST				0.998

Low	1.049	0.208	5.296	0.954
High	616425837.917	0.000	$7.230x10^{8}$	0.999
ALT				0.603
Low	0.150	0.004	6.035	0.315
High	0.000	0.000	0.002	0.999
γ-GGT (high)	0.359	0.053	2.414	0.292
CHE				0.932
Low	0.544	0.023	13.081	0.708
High	137966611.301	0.000	$1.595x10^{8}$	0.999
GLOB (low)	817016000.071	0.000	$1.614x10^{9}$	0.999
AGR (low)	8.514	0.297	243.840	0.211
TBIL (high)	0.757	0.064	8.916	0.825
TBA (high)	0.574	0.038	8.680	0.689
UA				0.887
Low	0.640	0.058	7.102	0.716
High	0.708	0.094	5.341	0.738
Urea				0.739
Low	0.468	0.065	3.391	0.453
High	1.327	0.067	26.391	0.853

BMI, body mass index; hs-CRP, hypersensitive C-reactive protein; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; GLOB, globulin; AGR, albumin to globulin ratio; TBIL, total bilirubin; TBA, total bile acid; UA, uric acid.

Table SXXIII. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the validation dataset (adjusted by age, sex and BMI).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit	
Hypertension	2.860	0.517	15.826	0.229	3.574	0.353	36.239	0.281	0.791	0.069	9.019	0.850
hs-CRP (high)	3.977	0.758	20.863	0.103	4.272	0.432	42.212	0.214	1.142	0.111	11.803	0.911
HDL-c (low)	3.300	0.446	24.400	0.242	1.162	0.085	15.846	0.910	0.000	0.000	0.002	0.999
FBG (high)	2.728	0.845	8.812	0.093	0.897	0.184	4.378	0.893	0.000	0.000	0.002	0.998
ALP				0.247				0.558				>0.999
Low	4306716170.324	0.000	$7.230x10^9$	0.999	5.386	0.254	114.367	0.280	0.000	0.000	0.002	0.999
High	8.746	0.690	110.923	0.094	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
AST				0.494				0.995				0.967
Low	0.680	0.148	3.116	0.619	1.100	0.162	7.483	0.922	1.385	0.117	16.372	0.796
High	3.645	0.275	48.339	0.327	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
ALT				0.814				0.997				>0.999
Low	1.728	0.215	13.881	0.607	1.104	0.087	13.926	0.939	0.000	0.000	0.002	0.999
High	0.655	0.061	7.020	0.726	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
γ-GGT				0.791				0.923				0.992
Low	5005868380.564	0.000	$7.233x10^9$	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999

High	1.633	0.401	6.651	0.494	1.429	0.250	8.162	0.688	0.853	0.075	9.760	0.898
CHE (low)	12.582	1.124	140.855	0.040	0.836	0.065	10.819	0.891	4.155	0.245	70.504	0.324
AGR (low)	4.783	1.024	22.353	0.047	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
UA				0.372				0.791				>0.999
Low	4681988098.398	0.000	$3.730x10^{10}$	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999
High	2.993	0.650	13.789	0.159	0.520	0.080	3.378	0.494	0.999	0.086	11.650	0.999
Urea				0.888				0.968				0.517
Low	1.153	0.172	7.734	0.884	1.390	0.112	17.186	0.798	0.000	0.000	0.002	0.999
High	0.576	0.053	6.215	0.650	0.000	0.000	0.002	0.999	4.828	0.328	70.946	0.251

hs-CRP, hypersensitive C-reactive protein; HDL-c, high-density lipoprotein cholesterol; FBG, fasting blood glucose; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.

Table SXIV. Multiple logistic regression results of abnormal metabolism of antidepressants associated with clinical indicators based on the validation dataset (adjusted by age, sex and BMI).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit	
Hypertension	0.977	0.078	12.165	0.985	0.439	0.029	6.708	0.554	0.309	0.033	2.864	0.301	0.855	0.179	4.097	0.845	0.441	0.098	1.980	0.286
hs-CRP (high)	199206663.179	0.000	$1.960x10^9$	0.999	180017588.058	0.000	$1.290x10^9$	0.998	1.265	0.297	5.384	0.750	0.872	0.206	3.700	0.853	1.043	0.257	4.235	0.953
HDL-c (low)	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.541	0.069	4.239	0.559	0.508	0.046	5.583	0.580	0.398	0.036	4.389	0.452
FBG (high)	0.175	0.023	1.341	0.093	0.241	0.026	2.244	0.211	0.740	0.209	2.616	0.640	1.116	0.336	3.703	0.858	0.750	0.235	2.400	0.628
ALP				0.282				0.209				>0.999				0.960				0.308
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	3793666004.343	0.000	$7.230x10^9$	0.999
High	8.355	0.612	114.101	0.111	13.662	0.754	247.619	0.077	437789570.364	0.000	$5.130x10^8$	0.999	1.397	0.139	14.008	0.776	6.952	0.585	82.582	0.125
AST				>0.999				0.890				0.431				0.930				0.531
Low	1.022	0.139	7.509	0.983	0.548	0.048	6.296	0.629	4.318	0.474	39.317	0.194	1.012	0.214	4.791	0.988	2.218	0.528	9.322	0.277
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	607325468.667	0.000	$7.230x10^8$	0.999	0.601	0.041	8.866	0.710	0.886	0.065	12.135	0.928
ALT				>0.999				>0.999				>0.999				0.588				0.650
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	720724354.406	0.000	$7.520x10^8$	0.999	1.645	0.151	17.950	0.683	0.501	0.043	5.796	0.580
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	632441413.094	0.000	$8.490x10^8$	0.999	0.314	0.026	3.734	0.359	0.384	0.035	4.230	0.434
γ-GGT				0.951				0.966				0.736				0.817				0.992

Low	1.395	0.180	10.804	0.750	0.711	0.056	8.986	0.792	2.056	0.339	12.475	0.433	0.000	0.000	0.002	>0.999	1928826048.527	0.000	$2.010x10^9$	>0.999
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.607	0.131	2.825	0.525	0.910	0.213	3.887	0.899
CHE (low)	1.016	0.076	13.543	0.990	1.512	0.108	21.101	0.759	1.193	0.107	13.342	0.886	0.635	0.121	3.330	0.591	1.318	0.302	5.756	0.713
AGR (low)	0.554	0.051	6.070	0.629	0.956	0.077	11.870	0.972	1.487	0.250	8.842	0.663	0.635	0.121	3.330	0.591	1.318	0.302	5.756	0.713
UA				0.849				0.576				0.622				0.936				0.313
Low	2.281	0.135	38.435	0.567	5.669	0.222	144.463	0.294	0.363	0.035	3.735	0.394	0.667	0.053	8.445	0.755	2.819	0.325	24.451	0.347
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.584	0.110	3.106	0.528	1.124	0.221	5.717	0.888	2.939	0.616	14.029	0.176
Urea				>0.999				>0.999				0.774				0.457				0.859
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	0.488	0.068	3.489	0.475	2.847	0.342	23.729	0.334	1.019	0.147	7.082	0.984
High	0.000	0.000	0.002	0.999	0.000	0.000	0.002	0.999	460981952.521	0.000	$4.370x10^9$	0.999	0.378	0.030	4.836	0.455	0.507	0.044	5.782	0.584

hs-CRP, hypersensitive C-reactive protein; HDL-c, high-density lipoprotein cholesterol; FBG, fasting blood glucose; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.

Table SXXV. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the validation dataset (adjusted by age, sex and BMI).

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
Hypertension	6.434	1.141	36.289	0.035
hs-CRP (high)	1.980	0.405	9.674	0.399
HDL-c (low)	354435858.925	0.000	$7.133x10^8$	0.999
FBG (high)	2.029	0.449	9.162	0.358
ALP				0.999
Low	379145584.303	0.000	$7.630x10^8$	0.999
High	1.077	0.077	15.055	0.956
AST				0.051
Low	0.131	0.025	0.678	0.015
High	0.227	0.014	3.709	0.298
ALT				0.267
Low	0.174	0.020	1.508	0.112
High	0.527	0.046	6.083	0.608
γ-GGT				>0.999
Low	0.992	0.162	6.091	0.993
High	456516991.535	0.000	$8.087x10^8$	>0.999
CHE (low)	0.813	0.069	9.639	0.870

AGR (low)	478517827.317	0.000	$8.556x10^{8}$	0.999
UA				0.737
Low	434006455.786	0.000	$7.790x10^{8}$	0.999
High	2.475	0.255	24.022	0.435
Urea				0.292
Low	362429543.314	0.000	425015621.890	0.999
High	0.170	0.019	1.554	0.117

hs-CRP, hypersensitive C-reactive protein; HDL-c, high-density lipoprotein cholesterol; FBG, fasting blood glucose; ALP, alkaline phosphatase;

AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.

Table SXXVI. Multiple logistic regression results of abnormal metabolism of antipsychotics associated with clinical indicators based on the validation dataset (adjusted by the significant factor in χ^2 tests).

Risk factor	χ^2	Haloperidol				Olanzapine			
		OR	95%CI		P-value	OR	95%CI		P-value
			Lower limit	Upper limit			Lower limit	Upper limit	
BMI	0.037								0.266
Underweight						0.000	0.000	0.002	>0.999
Overweight						5.863	1.026	33.501	0.047
Obese						0.000	0.000	0.002	0.999
ALP	0.026				0.659				
Low		6156208130.743	0.000	$4.030x10^{10}$	0.999				
High		3.443	0.242	49.012	0.362				
UA	0.010				0.256				
Low		4813897054.248	0.000	$2.893x10^{10}$	0.999				
High		3.708	0.783	17.560	0.099				

BMI, body mass index; ALP, alkaline phosphatase; UA, uric acid.

Table SXXVII. Multiple logistic regression results of abnormal metabolism of antidepressants (mirtazapine/venlafaxine) associated with clinical indicators based on the validation dataset (adjusted by the significant factor in χ^2 tests).

Risk factor	χ^2	OR	95%CI		P-value
			Lower limit	Upper limit	
ALP	0.032				0.278
Low		3123896815.452	0.000	$6.210x10^9$	0.999
High		7.256	0.640	82.288	0.110

ALP, alkaline phosphatase.

Table SXXVIII. Multiple logistic regression results of abnormal metabolism of anxiolytics (oxazepam/lorazepam) associated with clinical indicators based on the validation dataset (adjusted by the significant factor in χ^2tests).

Risk factor	χ^2	OR	95%CI		P-value
			Lower limit	Upper limit	
AST	0.016				0.035
Low		0.134	0.029	0.629	0.011
High		0.240	0.017	3.341	0.288

AST, aspartate aminotransferase.

Table SXXIX. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in antipsychotics based on the validation dataset (adjusted by all clinical indicators).

Risk factor	Haloperidol				Olanzapine				Risperidone			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit	
BMI				0.999				0.477				0.603
Underweight	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999	1.533	0.000	3.099	>0.999
Overweight	0.913	0.060	13.866	0.948	14.262	0.525	387.581	0.115	16.413	0.176	1527.082	0.226
Obese	1.129	0.043	29.637	0.942	0.000	0.000	0.002	0.997	43.215	0.158	11851.745	0.189
Hypertension	3.631	0.120	109.734	0.458	8.009	0.162	397.155	0.296	4.708	0.143	154.536	0.384
FBG (high)	4.550	0.353	58.681	0.246	6.382	0.105	387.204	0.376	0.000	0.000	0.002	0.998
HDL-c (low)	1.182	0.047	29.514	0.919	39.701	0.109	14435.676	0.221	0.000	0.000	0.002	0.999
hs-CRP (high)	1.452	0.103	20.501	0.783	73.633	0.207	26147.469	0.151	0.640	0.010	41.567	0.834
ALP				0.687				>0.999				>0.999
Low	4841113837.095	0.000	$5.663x10^{9}$	>0.999	2198796936.200	0.000	$2.740x10^{9}$	>0.999	0.000	0.000	0.002	>0.999
High	0.063	0.000	32.913	0.386	0.000	0.000	0.002	0.999	45.627	0.000	53.364	>0.999
AST				0.783				0.908				0.993
Low	0.333	0.015	7.282	0.485	2.368	0.051	110.475	0.660	1.364	0.007	263.436	0.908
High	3429475519.697	0.000	$1.311x10^{10}$	0.999	0.000	0.000	0.002	>0.999	0.938	0.000	1.099	>0.999

ALT				0.257				0.859				>0.999
Low	43.193	0.491	3800.764	0.099	3.949	0.030	525.244	0.582	0.000	0.000	0.002	0.999
High	0.000	0.000	0.002	0.999	0.154	0.000	0.179	>0.999	0.000	0.000	0.002	0.999
γ-GGT				0.866				0.937				0.998
Low	2.310	0.108	49.442	0.592	0.418	0.004	47.144	0.717	1.166	0.006	228.108	0.954
High	0.290	0.000	0.606	>0.999	0.000	0.000	0.002	0.999	0.002	0.000	0.008	>0.999
CHE (low)	451.887	2.894	70557.380	0.018	0.128	0.001	18.367	0.417	56.440	0.066	48503.966	0.242
AGR (low)	1.919	0.128	28.815	0.637	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.998
UA				0.280				0.344				0.676
Low	16835252834.042	0.000	$5.753x10^{10}$	0.999	213682.683	0.000	403077.000	>0.999	1.839	0.000	3.370	>0.999
High	8.705	0.611	124.048	0.110	0.025	0.000	3.556	0.144	11.759	0.050	2767.912	0.376
Urea				0.356				>0.999				0.561
Low	0.138	0.002	8.134	0.341	23038328.012	0.000	$3.306x10^{7}$	0.998	112.841	0.000	131.349	>0.999
High	0.053	0.000	11.698	0.287	0.000	0.000	0.002	0.999	17.802	0.093	3397.489	0.283

BMI, body mass index; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; hs-CRP, hypersensitive C-reactive protein; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.

Table SXXX. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in antidepressants based on the validation dataset (adjusted by all clinical indicators).

Risk factor	Citalopram/escitalopram				Sertraline				Bupropion				Paroxetine				Mirtazapine/venlafaxine			
	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value	OR	95%CI		P-value
		Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit			Lower limit	Upper limit	
BMI				>0.999				>0.999				0.585				0.072				>0.999
Underweight	0.000	0.000	0.002	>0.999	0.004	0.000	0.015	>0.999	0.000	0.000	0.002	0.999	0.949	0.000	1.111	>0.999	0.000	0.000	0.002	0.990
Overweight	0.000	0.000	0.002	0.997	0.000	0.000	0.002	0.997	0.839	0.086	8.211	0.880	0.069	0.009	0.532	0.010	0.000	0.000	0.002	0.997
Obese	2902.089	0.000	10719.684	0.999	0.000	0.000	0.002	0.999	0.240	0.021	2.778	0.254	0.425	0.030	5.950	0.525	$1.523x10^{49}$	0.000	$5.652x10^{49}$	0.991
Hypertension	7549.930	0.000	12020.410	0.999	0.257	0.000	0.941	>0.999	0.223	0.010	5.048	0.346	0.468	0.047	4.694	0.519	0.000	0.000	0.002	0.988
FBG (high)	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.998	0.713	0.102	4.972	0.733	0.167	0.016	1.729	0.134	0.000	0.000	0.002	0.988
HDL-c (low)	0.000	0.000	0.002	0.999	448737158729060.560	0.000	$3.590x10^{15}$	0.999	0.379	0.018	7.829	0.530	0.037	0.000	10.877	0.256	0.000	0.000	0.002	0.997

hs-CRP (high)	1005173196341882900.000	0.000	1.176x10^{19}	0.997	0.350	0.000	1.247	>0.999	4.467	0.467	42.735	0.194	0.874	0.109	6.985	0.899	35978460122520.400	0.000	4.810x10^{14}	0.995
ALP				>0.999				>0.999				>0.999				0.115				>0.999
Low	5664900069.450	0.000	6.637x10^{9}	>0.999	310177306726829.750	0.000	4.017x10^{14}	0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	6.533x10^{102}	0.000	1.380x10^{103}	0.996
High	9.975x10^{53}	0.000	2.283x10^{54}	0.996	3448476140313596000000000000000000.000	0.000	2.386x10^{34}	0.998	1389678074.695	0.000	1.093x10^{10}	0.999	58.905	1.264	2745.004	0.038	3.655x10^{175}	0.000	1.710x10^{176}	0.987
AST				>0.999				>0.999				0.876				0.687				>0.999
Low	2902.089	0.000	8103.083	0.999	1.158	0.000	1.262	>0.999	2.144	0.118	39.015	0.606	2.800	0.148	52.813	0.492	1.942x10^{100}	0.000	3.557x10^{100}	0.987
High	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.999	0.419	0.000	0.489	>0.999	6.289	0.017	2311.616	0.542	1284874502861.044	0.000	1.503x10^{12}	>0.999
ALT				>0.999				>0.999				>0.999				0.337				>0.999
Low	0.000	0.000	0.002	0.999	0.000	0.000	0.002	>0.999	711059073.969	0.000	3.848x10^{9}	0.999	1.049	0.005	213.984	0.986	0.000	0.000	0.001	0.989
High	2200463855656135600000.000	0.000	3.700x10^{20}	>0.999	1383628967640480.500	0.000	5.126x10^{15}	>0.999	2738322479.786	0.000	5.183x10^{9}	0.999	0.007	0.000	5.268	0.142	4.808x10^{71}	0.000	9.028x10^{71}	0.999
γ-GGT				>0.999				>0.999				0.804				0.417				>0.999

Low	0.000	0.000	0.002	0.997	0.000	0.000	0.002	0.998	0.374	0.020	6.912	0.509	132054.244	0.000	222455.640	>0.999	0.000	0.000	0.002	>0.999
High	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	0.157	0.010	2.440	0.186	0.000	0.000	0.002	0.991
CHE (low)	1.485	0.000	4.262	>0.999	0.316	0.000	0.656	>0.999	137056507.642	0.000	$2.115x10^{8}$	0.999	0.000	0.000	0.002	0.999	0.000	0.000	0.001	0.989
AGR (low)	0.000	0.000	0.002	0.999	0.007	0.000	0.013	>0.999	2.536	0.116	55.570	0.999	0.218	0.005	9.371	0.427	$1.120x10^{55}$	0.000	$2.503x10^{55}$	0.989
UA				>0.999				>0.999				0.731				0.694				>0.999
Low	3.535	0.000	7.510	>0.999	86968329011004560.000	0.000	$3.204x10^{17}$	0.999	0.205	0.002	19.572	0.495	3.139	0.039	255.109	0.610	$1.701x10^{65}$	0.000	$5.279x10^{65}$	0.990
High	3159.744	0.000	5929.840	>0.999	2.243	0.000	14.266	>0.999	0.500	0.044	5.663	0.576	2.572	0.230	28.765	0.443	$6.131x10^{111}$	0.000	$2.657x10^{112}$	0.987
Urea				>0.999				>0.999				0.576				0.019				>0.999
Low	0.000	0.000	0.002	>0.999	0.000	0.000	0.002	>0.999	1.812	0.043	76.728	0.953	1712.212	8.405	348818.434	0.006	$6.363x10^{114}$	0.000	$1.170x10^{115}$	0.996
High	0.000	0.000	0.002	0.998	0.000	0.000	0.002	0.999	213923234.928	0.000	$1.076x10^{9}$	0.999	0.194	0.008	4.916	0.320	0.000	0.000	0.002	0.990

BMI, body mass index; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; hs-CRP, hypersensitive C-reactive protein; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.

Table SXXXI. Multiple logistic regression results of clinical indexes related to abnormal drug metabolism in anxiolytics (oxazepam/lorazepam) based on the validation dataset (adjusted by all clinical indicators).

Risk factor	OR	95%CI		P-value
		Lower limit	Upper limit	
BMI				0.497
Underweight	1061698035.765	0.000	$3.669x10^9$	>0.999
Overweight	2.245	0.144	35.024	0.564
Obese	0.140	0.006	3.429	0.228
Hypertension	20.032	0.837	479.169	0.064
FBG (high)	1.273	0.057	28.651	0.879
HDL-c (low)	557130199.175	0.000	$1.949x10^9$	0.999
hs-CRP (high)	0.284	0.016	5.198	0.396
ALP				0.686
Low	12089356.419	0.000	$4.118x10^7$	>0.999
High	0.074	0.000	26.395	0.385
AST				0.287
Low	0.082	0.004	1.863	0.116
High	1.116	0.014	87.915	0.961
ALT				0.335
Low	0.146	0.001	14.953	0.415
High	0.049	0.000	6.063	0.220

γ-GGT				0.982
Low	0.732	0.030	17.617	0.847
High	0.000	0.000	0.002	>0.999
CHE (low)	0.407	0.000	837.274	0.817
AGR (low)	1915610464.241	0.000	$6.758x10^{9}$	0.998
UA				0.940
Low	266008000.548	0.000	$9.149x10^{8}$	0.999
High	1.993	0.042	93.587	0.725
Urea				0.288
Low	2143212.591	0.000	$7.832x10^{6}$	0.999
High	0.050	0.001	2.067	0.115

BMI, body mass index; FBG, fasting blood glucose; HDL-c, high-density lipoprotein cholesterol; hs-CRP, hypersensitive C-reactive protein; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; γ-GGT, gamma-glutamyl transpeptidase; CHE, cholinesterase; AGR, albumin to globulin ratio; UA, uric acid.