THE JOURNAL OF CLINICAL PSYCHIATRY

Supplementary Material

Article Title: Antipsychotic Treatment and the Occurrence of Venous Thromboembolism: A 10-Year Nationwide Registry Study

Author(s): Chi-Shin Wu, MD, MS; Chao-Cheng Lin, MD, PhD; Chia-Ming Chang, MD, PhD; Kuan-Yi Wu, MD; Hsin-Yi Liang, MD; Ya-Wen Huang, MS; and Hui-Ju Tsai, MPH, PhD

DOI Number: 10.4088/JCP.12m08117

List of Supplementary Material for the article

1. **eTable 1** Receptor Binding Affinity (pK_i) for Antipsychotic Drugs
2. **eTable 2** Association Between New Use of Antipsychotics and VTE by Various Receptors of Binding Affinity
3. **eTable 3** Association Between Continuous Use of Antipsychotics and VTE by Various Receptors of Binding Affinity

Supplementary eTable 1. Receptor binding affinity (pK_i)[a] for antipsychotic drugs

Antipsychotic drug	$5HT_{2A}$	D_2	H_1
Amisulpride	5.08	8.89	5.00
Chlorpromazine	7.96	8.29	8.51
Clozapine	7.80	7.27	8.95
Fluphenazine	7.42	9.27	7.85
Haloperidol	6.81	8.92	5.77
Olanzapine	8.62	7.28	8.66
Perphenazine	8.25	9.04	8.10
Prochlorperazine	7.82	9.40	7.72
Quetiapine	6.04	6.39	8.16
Risperidone	9.23	8.24	7.70
Sulpiride	5.00	7.84	5.00
Thioridazine	7.56	7.98	7.78
Trifluoperazine	7.13	8.89	7.20
Zotepine	8.57	7.60	8.49

Abbreviations: $5HT_{2A}$=serotonin 5-HT_{2A} receptor; D_2=dopamine D_2 receptor; H_1= histamine H_1 receptor.

[a] A minimal (pK_i) value of 5.0 was used for low biding affinity.

Supplementary eTable 2. Association between new use of antipsychotics and VTE by various receptors of binding affinity (using low binding affinity as the reference group).

	Case		Control		Model 1		Model 2	
	n	**%**	**n**	**%**	**Crude OR[a]**	**95% CI**	**AOR[a,b]**	**95% CI**
Serotonin 5-HT_{2A} receptor								
None or past users	2,030	(97.97)	12,676	(99.54)	**0.11**	(0.03-0.37)	**0.14**	(0.03-0.69)
Low binding affinity	6	(0.29)	4	(0.03)	-	-	-	-
High binding affinity	36	(1.74)	55	(0.43)	0.43	(0.11-1.63)	0.42	(0.08-2.26)
Histamine H_1 receptor								
None or past users	2,030	(97.97)	12,676	(99.54)	**0.24**	(0.10-0.56)	0.44	(0.17-1.14)
Low binding affinity	9	(0.43)	13	(0.10)	-	-	-	-
High binding affinity	33	(1.59)	46	(0.36)	1.06	(0.40-2.78)	1.62	(0.55-4.79)
Dopamine D_2 receptor								
None or past users	2,030	(97.97)	12,676	(99.54)	**0.20**	(0.12-0.33)	**0.31**	(0.17-0.57)
Low binding affinity	26	(1.25)	32	(0.25)	-	-	-	-
High binding affinity	16	(0.77)	27	(0.21)	0.73	(0.33-1.64)	1.07	(0.42-2.70)

Abbreviations: OR=odds ratio; AOR=adjusted odds ratio.

[a] Significant results are in bold; statistical significance was determined in conditional logistic regression by Wald χ^2 test with df = 1.

[b] Adjusted for disease risk score deciles.

Supplementary eTable 3. Association between continuous use of antipsychotics and VTE by various receptors of binding affinity (using low binding affinity as the reference group).

	Case		Control		Model 1		Model 2	
	n	**%**	**n**	**%**	**Crude OR[a]**	**95% CI**	**AOR[a,b]**	**95% CI**
Serotonin 5-HT_{2A} receptor								
None or past users	2,030	(95.80)	12,676	(98.23)	**0.30**	(0.18-0.51)	0.71	(0.40-1.27)
Low binding affinity	21	(0.99)	39	(0.30)	-	-	-	-
High binding affinity	68	(3.21)	190	(1.47)	0.67	(0.37-1.22)	0.83	(0.43-1.61)
Histamine H_1 receptor								
None or past users	2,030	(95.80)	12,676	(98.24)	**0.40**	(0.28-0.59)	**0.63**	(0.41-0.97)
Low binding affinity	37	(1.75)	94	(0.73)	-	-	-	-
High binding affinity	52	(2.45)	133	(1.03)	0.99	(0.60-1.63)	0.67	(0.38-1.16)
Dopamine D_2 receptor								
None or past users	2,030	(95.75)	12,676	(98.23)	**0.44**	(0.30-0.66)	0.81	(0.52-1.28)
Low binding affinity	33	(1.56)	93	(0.72)	-	-	-	-
High binding affinity	57	(2.69)	135	(1.05)	1.16	(0.70-1.92)	1.02	(0.58-1.79)

Abbreviations: OR=odds ratio; AOR=adjusted odds ratio.

[a] Significant results are in bold; statistical significance was determined in conditional logistic regression by Wald χ^2 test with df = 1.

[b] Adjusted for disease risk score deciles.