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Supplementary Material

Article Title: Effectiveness of Aripiprazole, Olanzapine, Quetiapine, and Risperidone Augmentation Treatment for Major Depressive Disorder: A Nationwide Population-Based Study

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Supplementary eTable 1. ICD-9-CM codes of the diseases in the study

Diseases	Diseases/ICD-9-CM code
Major depressive disorder	ICD9-CM 296.2-296.3
Organic psychotic conditions	ICD9-CM 290-294
Schizophrenia-spectrum disorders	ICD9-CM 295, 297-299
Bipolar disorders	ICD-9-CM 296.0, 296.1, 296.4, 296.5, 296.6, 296.7, 296.8
Affective psychosis	ICD-9-CM 296.9
Physical comorbidities	
Neurologic disorders	Epilepsies(ICD-9-CM 345) Parkinson's disease(ICD-9-CM 332) Multiple sclerosis(ICD-9-CM 340) Cerebrovascular disease (ICD-9-CM 430-438) Traumatic brain injury (ICD-9-CM 310)
Cardiac disease	Ischemic heart disease(ICD-9-CM 410-414) Heart failure(ICD-9-CM 428) Cardiomyopathy (ICD-9-CM 425, 678, 674)
Endocrine disorders	Hypothyroidism(ICD-9-CM 244) Parathyroid disorders (ICD-9-CM 252)
Chronic liver diseases	Chronic liver disorders (ICD-9-CM 570-572)
Psychiatric comorbidities	
Anxiety	Anxiety states (ICD-9-CM 300.0, 300.00, 300.09,300.1, 300.15, 300.8, 300.89, 300.9) Panic disorder (ICD-9-CM 300.01) Agoraphobia with panic attacks (ICD-9-CM 300.21) Generalized anxiety disorder (ICD-9-CM 300.02) Social phobia (ICD-9-CM 300.23) Obsessive-compulsive disorders (ICD-9-CM 300.3) Neurasthenia (ICD-9-CM 300.5) Hypochondriasis (ICD-9-CM 300.7) Somatisation disorder(ICD-9-CM 300.81)
Dysthymia	Dysthymia (ICD-9-CM code: 300.4)

Alcohol/substances use	Alcohol misuse and dependence (ICD-9-CM 303, 303.9, 303.9X, 305.0X)
	Opioid misuse and dependence (ICD-9-CM 304.0X, 305.5X)
	Barbiturate misuse and dependence (ICD-9-CM 304.1X, 305.4X)
	Cocaine misuse and dependence (ICD-9-CM 304.2X, 305.6X)
	Cannabis misuse and dependence (ICD-9-CM 304.3X, 305.2X)
	Amphetamine misuse and dependence (ICD-9-CM 304.4X, 305.7X)
	Hallucinogen misuse and dependence (ICD-9-CM 304.5X, 305.3X))
Cardio-metabolic diseases	Hypertension(ICD-9-CM 401-405)
	Diabetes mellitus(ICD-9-CM 249-250)
	Disorders of lipid metabolism(ICD-9-CM 272)
	Ischemic heart disease (ICD-9-CM 410-414)

Abbreviations:

ICD-9 CM: The International Classification of Diseases, Ninth Revision, Clinical Modification

Supplementary eTable 2. Analyzed medicines in the study

Mechanism	Ingredient
Antidepressants	
Tricyclic antidepressants (TCA)	Amitriptyline Clomipramine Chlordiazepoxide Dothiepin Doxepin Imipramine Maprotiline
Selective Serotonin Reuptake Inhibitor (SSRI)	Citalopram Escitalopram Fluoxetine Fluvoxamine Paroxetine Sertraline
Serotonin antagonist and reuptake inhibitor (SARI)	Trazodone
Serotonin-norepinephrine reuptake inhibitor (SNRI)	Duloxetine Milnacipran Venlafaxine
Norepinephrine-dopamine reuptake inhibitor (NDRI)	Bupropion
Monoamine oxidase inhibitor (MAOI)	Moclobemide
Noradrenergic and specific serotonergic antidepressants (NaSSA)	Mirtazapine
Second generation antipsychotics (SGAs)	Amisulpride Aripiprazole Clozapine Olanzapine Paliperidone Risperidone Quetiapine Ziprasidone Zotepine
First generation antipsychotics	Chlorpromazine Levomepromazine Fluphenazine Trifluoperazine

	Thioridazine
	Haloperidol
	Droperidol
	Flupentixol
	Clopentixol
	Chlorprothixene
	Zuclopenthixol
	Pimozide
	Loxapine
	Sulpiride
Anticonvulsants	Valproic acid
	Carbamazepine
	Lamotrigine
Lithium	Lithium carbonate
