

Gerhard et al. Lithium treatment and risk for dementia in adults with bipolar disorder: population-based cohort study.
 Br J Psychiatry, doi: 10.1192/bjp.bp.114.154047

Table DS1 Drug Classes (generic names)	
Anticonvulsants	carbamazepine, lamotrigine, valproic acid, divalproex, acetazolamide, felbamate, gabapentin, levetiracetam, oxcarbazepine, pregabalin, topiramate, zonisamide
Antipsychotics	chlorpromazine, fluphenazine, haloperidol, loxapine, mesoridazine, molindone, perphenazine, pimozide, thioridazine, thiothixene, trifluoperazine, triflupromazine, chlorprothixene, aripiprazole, clozapine, olanzapine, paliperidone, quetiapine, risperidone, ziprasidone
Antidepressants	citalopram, duloxetine, escitalopram, fluoxetine, fluvoxamine, paroxetine, sertraline, venlafaxine, mirtazapine, amitriptyline, amoxapine, clomipramine, desipramine, doxepin, imipramine, maprotiline, nortriptyline, protriptyline, phenelzine, tranylcypromin, isocarboxazid, nefazodone, trazodone, bupropion
Anxiolytics/Hypnotics	alprazolam, bromazepam, chlordiazepoxide, clonazepam, clorazepate, diazepam, estazolam, flurazepam, halazepam, lorazepam, oxazepam, quazepam, temazepam, triazolam, eszopiclone, zaleplon, zolpidem, zopiclone, ramelteon, buspirone, chloral hydrate, ethchlorvynol, meprobamate, amobarbital, butabarbital, mephobarbital, secobarbital

Table DS2 Diagnostic covariates (ICD 9-CM)	
Schizophrenia*	295.xx
Other psychosis*	290.8x, 290.9x, 297.xx-299.xx, 780.1x
Depression	293.83, 296.2x, 296.3x, 296.9x, 298.0x, 300.4x, 311.xx
Anxiety disorders	300.0x, 300.2x, 300.3x
Alcohol related disorders	291.xx, 303.xx, 305.0x
Substance related disorders	292.xx, 304.xx, 305.xx, except 305.0x
Arrhythmia	427.1x, 427.2x, 427.5x, 427.9x, 785.0x, 427.41, 427.42, 427.60, 427.69, 427.89
Cerebrovascular disease	430.xx-438.xx

Heart failure	428.xx
Myocardial infarction	410.xx, 412.xx
Other acute ischemic heart disease	411.xx, 413.xx
Other chronic ischemic heart disease	414.0x, 414.2x, 414.8x, 414.9x, 429.2x
Parkinson	332.xx, 333.82
Hypertension	401.xx-405.xx
Diabetes	250.xx

* Exclusion criteria

Table DS3 End of follow-up

Reason	N	%
<i>Censoring</i>		
Death	2,616	6.2
Loss of eligibility	4,111	9.8
End of observation period	33,666	80.3
<i>Outcome</i>		
	1,538	3.7
Total	41,931	100.0

Online supplement DS1

Covariates included in the multivariate Cox model

Sex, race/ethnicity (black, white, Hispanic, other), age [time-dependent, years] (50-54, 55-59, 60-64, 65-69, 70-74, 75-79, 80-84, 85-89, 90+), Medicaid eligibility (disability, poverty, other), long term care residency, depression, anxiety, alcohol-related disorders, drug-related disorders, arrhythmia, heart failure, myocardial infarction, other acute ischemic heart disease, other chronic ischemic heart disease, hypertension, cerebrovascular disease, diabetes mellitus, Parkinson's disease, antidepressant use [time-dependent], antipsychotic use [time-dependent], use of anti-anxiety medications [time-dependent].