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1 Appendix 1: Supplementary methods

- 3 Table S1. International Classification of Diseases codes for attention-deficit hyperactivity
- 4 disorder
- 5 Table S2. International Classification of Diseases codes for mood and anxiety disorders
- 6 Table S3. International Classification of Diseases codes for dementia
- 7 Table S4. International Classification of Diseases codes for Parkinson's disease

Table S1. International Classification of Diseases codes for attention-deficit hyperactivity disorder		
One or more hospitalizations with a diagnosis of hyperkinetic syndrome		
ICD-9-CM	ICD-10-CA	
314	F90	
One or more physician visits with a diagnosis of hyperkinetic syndrome		
ICD-9-CM		
314		
Two or more prescriptions for ADHD drugs	without a diagnosis of:	
Conduct disorder		
ICD-9-CM	ICD-10-CA	
312	F63	
	F91	
	F92	
Disturbance of emotions		
ICD-9-CM	ICD-10-CA	
313	F93	
	F94	
Cataplexy/narcolepsy		
ICD-9-CM	ICD-10-CA	
347	G47.4	
	r and a diagnosis of hyperkinetic syndrome in	
the previous three years		
ADHD medications were identified by		
ATC code	Drug class/name	
N06BA	Centrally acting sympathomimetics	
ICD-9-CM, International Classification of Dise		
ICD-10-CA, International Classification of Dise	eases, Tenth Revision, Canada.	

Table S2. International Classification of Diseases codes for mood and anxiety disorders One or more hospitalizations with a diagnosis for depressive disorder, affective psychoses,		
ICD-9-CM	ICD-10-CA	
296.1-296.8	F31	
300.4	F32	
309	F33	
311	F34.1	
	F38.0	
	F38.1	
	F41.2	
	F43.1	
	F43.2	
	F43.8	
	F53.0	
	F93.0	
One or more hospitalizations with a diagnosis	s for an anxiety state, phobic disorders, or	
obsessive-compulsive disorders	,	
ICD-9-CM	ICD-10-CA	
300	F40	
300.2	F41.0	
300.3	F41.1	
300.7	F41.3	
	F41.8	
	F41.9	
	F42	
	F45.2	
	1 - 51	
One or more hospitalizations with a diagnosis	s for anxiety disorders	
ICD-9-CM	ICD-10-CA	
300	F32	
	F34.1	
	F40	
	F41	
	F42	
	F44	
	F45.0	
	F45.1	
	F45.2	
	F48	
	F68.0	
	F99	
	1777	

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and one or more prescripti	ons for an antidepressant or mood stabilizer
ATC code	Drug class/name
N05AN01	Lithium
N05BA	Benzodiazepine derivative anxiolytics
and one or more prescripti	ons for an antidepressant or mood stabilizer
ATC code	Drug class/name
N06A	Antidepressants
One or more physician visits	s with a diagnosis for depressive disorder or affective psyc
ICD-9-CM	
296	
311	
One or more physician visits	s with a diagnosis for anxiety disorders
ICD-9-CM	
300	
and one or more prescripti	ons for an antidepressant or mood stabilizer
ATC code	Drug class/name
N05AN01	Lithium
N05BA	Centrally acting sympathomimetics
N06A	Antidepressants
Three or more physician vis reaction	its with a diagnosis for anxiety disorders or adjustment
ICD-9-CM	
300	
JUU	
309	

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	Table S3. International Classification of Diseases codes for dementia	
One or more hospitalizations with a diagnosis for dementia, including organic psychotic conditions, cerebral degenerations and senility		
290	F00	
291.1	F01	
291.2	F02	
292.82	F03	
294	F04	
331	F05.1	
797	F06.5	
	F06.6	
	F06.8	
	F06.9	
	F09	
	F10.7	
	F11.7	
	F12.7	
	F13.7	
	F14.7	
	F15.7	
	F16.7	
	F17.7	
	F18.7	
	F19.7	
	G30	
	G31.0	
	G31.1	
	G31.9	
	G32.8	
	G91	
	G93.7	
	G94	
	R54	
One or more physician visits with a diagnos	sis for dementia	
ICD-9-CM		
290		
294		
331		
797		

Table S3. International Classification of Diseases codes for dementia (continued)		
One or more prescriptions for anti-dementia drugs		
ATC code	Drug class/name	
N06DA	Anticholinesterases	
N06DX01	Memantine	
ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification.		
ICD-10-CA, International Classification of Diseases, Tenth Revision, Canada.		

Table S4. International Classification of Diseases codes for Parkinson's disease			
One or more hospitalizations with a diagnosis for Parkinson's disease			
ICD-9-CM	ICD-10-CA		
332	G20		
One or more physician visits with a diagnosis for Parkinson's disease			
ICD-9-CM			
332			
One or more prescriptions for anti-Parkinson's drugs			
ATC code	Drug class/name		
N04B	Dopaminergic agents		
ICD-9-CM, International	Classification of Diseases, Ninth Revision, Clinical Modification.		
ICD-10-CA. International	ICD-10-CA, International Classification of Diseases, Tenth Revision, Canada.		