

Supplementary Material

ICD-10 Diagnoses included in the study from the registers and subgroupings

Neurodevelopmental disorders:

- F70-79 Mental retardation
- F80-89 Disorders of psychological development (e.g. autism spectrum disorders)
- F90-98 Behavioral and emotional disorders with onset usually occurring in childhood and adolescence (except F98.0 Enuresis, F98.1 Encopresis (not included at all) F93 Emotional disorders with onset specific to childhood (included in 'Emotional Disorders') F94 Disorders of Social Function,, F98.2 Feeding disorder of infancy and childhood, and 98.9 Unspecified behavioral and emotional disorders with onset usually occurring in childhood and adolescence (included in 'Other Disorders')
- R62 Lack of expected normal physiological development (We included language and speech but not motor function)
- R41.8 Commonly used as mild retardation in clinical practice in Denmark.

Emotional Disorders:

- F30-39 Mood disorders (except with psychotic disorders)
- F40-49 Neurotic, stress-related and somatoform disorders
- F93 Emotional disorders with onset specific to childhood

Other Disorders:

- F10-19 Mental and behavioral disorders due to psychoactive substance use
- F20-29 Psychotic disorder (plus psychotic mood disorders from mood disorders chapter)
- F50-59 Behavioral syndromes associated with physiological disturbances and physical factors (except F52 Sexual dysfunction, not caused by organic disorder or disease)
- F60-69 Disorders of adult personality and behavior (except F64-66 Gender identity disorders and Sexual disorders)
- F94 Disorders of Social Function
- F98.2 Feeding disorder of infancy and childhood,
- F98.9 Unspecified behavioral and emotional disorders with onset usually occurring in childhood and adolescence
- F99.9 Unspecific mental disorder
- X60-84 Intentional self-harm

Psychopharmaceuticals included from the registers

ADHD medication

- N06BA02 Dexamphetamine
- N06BA04 Methylphenidate
- N06BA09 Atomoxetine
- N06BA12 Lisdexamphetamine
- N06BA07 Modafinil (ikke-registreret indikation)
- N06AX12 Bupropion (ikke-registreret indikation)
- C02AC02 Guanfacine

Antidepressives

- N06AB03 fluoxetine
- N06AB04 citalopram
- N06AB05 paroxetine
- N06AB06 sertraline
- N06AB08 fluvoxamine

N06AB10 escitalopram
N06AA02 Imipramine
N06AA04 Clomipramine
N06AA09 Amitriptyline
N06AA10 Nortriptyline
N06AA12 Doxepin
N06AA16 Dosulepine
N06AF01 Isocarboxazide
N06AG02 Moclobemide
N06AX03 Mianserin
N06AX11 Mirtazapine
N06AX16 Venlafaxine
N06AX18 Reboxetine
N06AX21 Duloxetine
N06AX22 Agomelatine
N06AX26 Vortioxetine

Antipsychotics and lithium:

N05AA
N05AB
N05AC
N05AD
N05AE
N05AF
N05AG
N05AH
N05AL
N05AN
N05AX

Melatonin:

N05CH
N05CH01

We did not include other sedatives or benzodiazepines, as they do not constitute primary treatment for mental disorders and would result in false-positives because they are used for fever-seizures and epilepsy.

We did not include antiepileptics (e.g. lamotrigine, valproate), as the indication in children is most often related to epilepsy and would result in false-positives.

The risk of false-positives is regarded as very low for the other pharmacological groups (e.g. treatment for very rare disorders such as central stimulants for narcolepsy)

Supplementary Table S1. Hazard ratio of a diagnosis of a mental disorder or redemption of prescribed psychopharmaceuticals over approximately 5 years follow-up following presence/nonpresence of psychotic experiences at age 11 years in children with no prior psychiatric diagnosis or psychopharmacological treatment.

N=1556	N	Any mental disorder or psychopharmaceutical (N=111)		P-value	Model 1		P-value	Model 2		P-value
		hazard ratio	95% CI		hazard ratio	95% CI		hazard ratio	95% CI	
No psychotic experiences	1494	ref		.	ref		.	ref		.
Psychotic experiences	162	3.09	2.02–4.75	<0.001	3.12	2.02–4.83	<0.001	3.11	2.01–4.81	<0.001
Stratification by DAWBA ICD–10 diagnosis at baseline (9 missing)										
No psychotic experiences and no DAWBA ICD–10 diagnosis	1256	ref		.	ref		.	ref		.
Psychotic experiences without DAWBA ICD–10 diagnosis	119	2.61	1.49–4.59	0.001	2.56	1.44–4.54	0.001	2.53	1.43–4.50	0.002
DAWBA ICD–10 diagnosis without psychotic experiences	129	3.51	2.14–5.75	<0.001	3.46	2.10–5.71	<0.001	3.43	2.07–5.68	<0.001
Psychotic experiences with DAWBA ICD–10 diagnosis	43	7.55	4.15–13.72	<0.001	9.01	4.92–16.52	<0.001	9.18	4.99–16.87	<0.001
Stratification by parental history register mental disorder from 1995–2011										
No psychotic experiences and no parental history of mental disorder	1241	ref		.	ref		.	ref		.
Psychotic experiences without parental history of mental disorder	133	3.16	1.94–5.17	<0.001	3.30	2.00–5.43	<0.001	3.29	2.00–5.42	<0.001
Parental history of mental disorder without psychotic experiences	153	2.23	1.31–3.80	0.003	2.39	1.38–4.14	0.002	2.34	1.39–4.17	0.002

Psychotic experiences with parental history of mental disorder	29	5.05	2.32–11.01	<0.001	5.31	2.38–11.82	<0.001	5.26	2.36–11.72	<0.001
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DAWBA=the Development and Well-Being Assessment

Model 1 adjusted for sex, perinatal health index and family adversity index (99 missing)

Model 2 further adjusted for IQ (further 2 missing).