

Covid-19 pandemic impacts on mental health related conditions via multi-database network: a longitudinal observational study (CERVELLO)



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Objectives:


- 1 - Characterize individuals with mental health conditions before the COVID-19 pandemic
- 2 - Obtain the prevalence in use of psychotropic drug in people with existing mental health issues and neurodevelopmental disorders before and during the pandemic.




Cohorts of interest

- 1) Anxiety disorders
- 2) Depression
- 3) Bipolar disorders
- 4) Non-affective psychoses
- 5) Personality disorders
- 6) Alcohol misuse or dependence
- 7) Substance misuse or dependence
- 8) Dementia
- 9) Attention-deficit/hyperactivity disorder (ADHD)
- 10) Autism and other neurodevelopmental disorders







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
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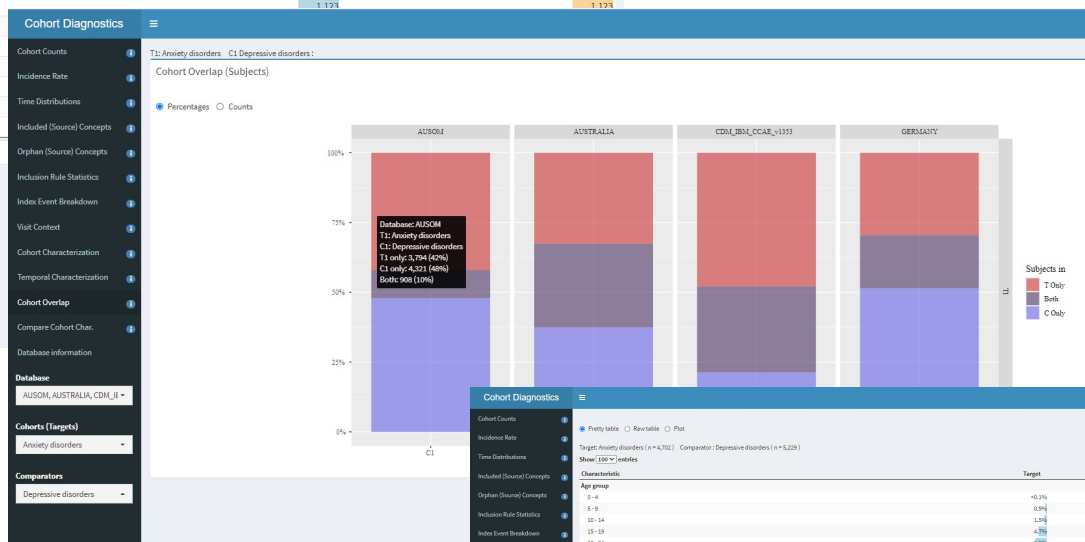
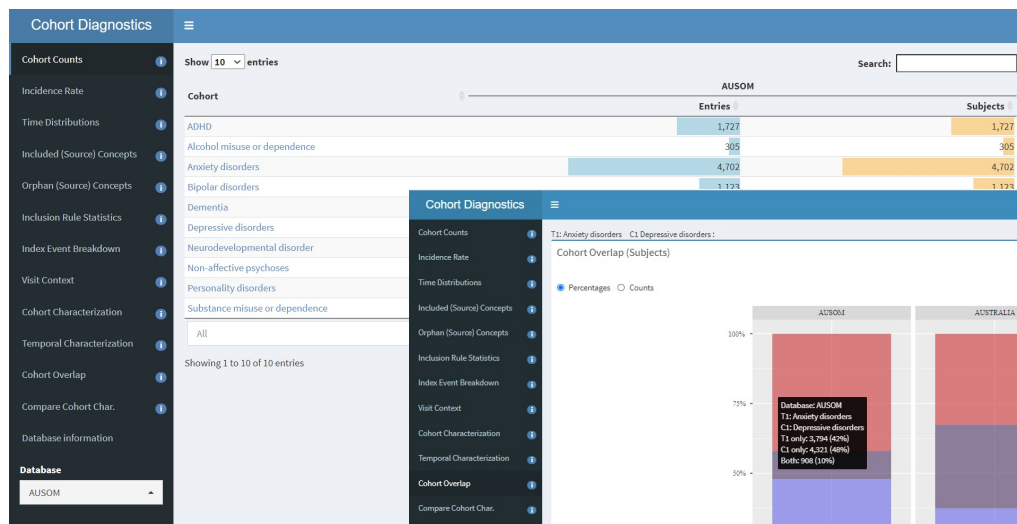
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<https://github.com/ohdsi-studies/Cervello>

Visualization



Cohort Diagnostics

Search:

Target: Anxiety disorders (n = 4,702) Comparator: Depressive disorders (n = 5,219)

Show 100 entries

Age group	Target	Comparator	StdDiff
0-4	-0.1%	-0.1%	-0.07
5-9	0.0%	0.2%	-0.11
10-14	1.4%	1.1%	-0.12
15-19	4.7%	4.0%	-0.09
20-24	6.0%	4.0%	-0.11
25-29	1.2%	1.4%	-0.04
30-34	1.0%	1.3%	-0.08
35-39	6.0%	5.7%	-0.03
40-44	6.0%	6.0%	-0.04
45-49	10.0%	9.0%	-0.05
50-54	10.7%	10.7%	-0.02
55-59	13.0%	10.0%	-0.09
60-64	10.0%	10.0%	-0.04
65-69	7.0%	5.0%	-0.09
70-74	3.0%	3.0%	-0.05
75-79	4.0%	3.0%	-0.09
80-84	1.0%	1.0%	-0.04
85-89	0.0%	1.4%	-0.08
90-94	0.1%	0.4%	0.01
95-99	-0.1%	-0.1%	-0.01
Gender = female	50.7%	50.3%	0.02
Race = foreign	27.4%	27.0%	0.01
Medical history (General)			
Osteoarthritis	2.0%	1.9%	-0.01
Rheumatoid arthritis	-0.1%	-0.1%	-0.01
Ulcerative colitis	0.1%	0.1%	0.01
Urinary tract infectious disease	0.1%	0.0%	0.01
Prostatitis	-0.1%	-0.1%	0.01
Gastrointestinal hemorrhage	0.0%	0.0%	0.01
Viral hepatitis c	0.1%	0.2%	0.01
Crohn's disease	-0.1%	-0.1%	0.01

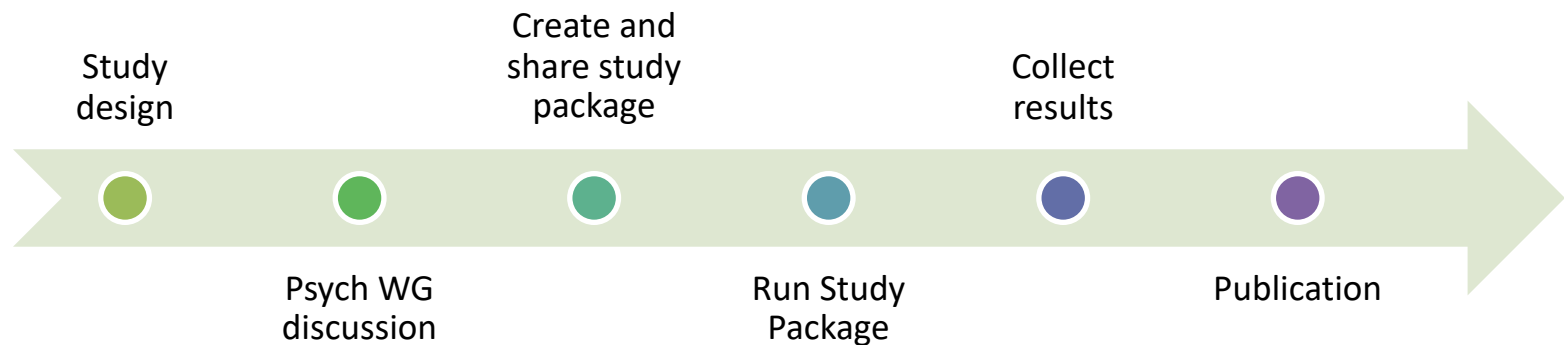
<https://data.ohdsi.org/cervelloDiagnostics/>



Next steps:

Obtain the prevalence of psychotropic drug in people with existing mental health issues and neurodevelopmental disorders before and during the pandemic:

- 8 types of psychotropic drugs
- Stratified by year before the pandemic
- by month during the pandemic
- stratified by age groups





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