**Summary**

Anxiety disorders as a group are the most prevalent mental health condition worldwide, with approximately one in nine people meeting relevant diagnostic across a 12-month period. Relevant disorders include agoraphobia, generalized anxiety disorder, panic disorder, phobias, selective mutism, separation anxiety disorder, and social anxiety disorder. While heritability estimates for anxiety disorders broadly range from ~30–50%, susceptibility loci (e.g. CAMKMT, MAGI1) have not been reliably validated.

**Case/Control Definitions**

**Cases** are defined as having relevant ICD case-inclusion codes on two or more different days after the age of 741 days. In addition, cases are required to have been prescribed 1+ relevant medication or 1+ relevant therapy (or both) after the age of 741 days. We additionally capture a range of relevant ICD codes, medications and procedures to be used *post-hoc* as exclusionary/co-variates, pending review, power analysis etc.

Data Capture, Cases:

* EHR history of 365+ days (i.e. 365+ days between most recent and least recent visit)
* Age at last visit: 741+ days old
* ICD (case inclusion) visits: 2+ relevant in-person visits on different days after the age of 741 days (see **Table 1**)
* Medication/Procedure: 1+ incl medication OR 1+ incl procedure (or both) after the age of 741 days (see **Table 2**)
* Absence of any case-exclusion codes at any age (see **Table 3**)
* Absence of any case-exclusion medication or procedure at any age (see **Table 4**)
* Additional ICD codes, meds and procedures are captured for use post-hoc as potential covariates/exclusions at any age (see **Table 5**)

**Controls** are excluded based on evidence of any of the following: 1+ ICD code for anxiety or a range of comorbid disorders (control exclusion codes), 1+ relevant control-exclusion medication or therapy OR procedure, OR any known genetics/chromosomal abnormalities, OR 1+ visit to a Behavioral Health/Clinical Psychology department.

Again, we capture a range of relevant ICD codes to be used *post-hoc* as exclusionary/co-variates, pending review, power analysis etc.

Data Capture, Controls:

* EHR history of 365+ days (i.e. 365+ days between most recent and least recent visit)
* Age at last visit: 741+ days old
* ICD visits: 2+ in-person visits of any kind at any age with one visit being at age 741+
* Absence of any control-exclusion codes at any age (see **Table 6**)
* Absence of any control-exclusion medication or procedure at any age (see **Table 7**)
* Exclude as a control if the patient has 2+ visits to a Behavioral Health/Clinical Psychology department at any age (see example department names below – these names vary across institutions and are not included in the accompanying spreadsheet and text files).
* Additional ICD codes, meds, and procedures at any age captured for use post-hoc as potential covariates/exclusions (see **Table 8).** Alsocapture the department visit for any control that has exactly 1 visit to a Behavioral Health/Clinical Psychology department at any age (use the same departments used for control exclusions if they have 2+ visits).

Sample department names for exclusion (2+ visits) or covariate reporting (exactly 1 visit) in the Control algorithm:

Behavioral Health

Developmental and Behavioral Pediatrics

Behavioral Medicine and Clinical Psychology

Community Psychiatric Supportive Treatment

Psychiatry

Psych Intake

The underscore following the ICD9 codes in the text file is to prevent unwanted changes if a file is opened in Excel. The ICD codes should all have a trailing wildcard when used for database searches.