

eTable 1. Coding of Inpatient Admission and ED Visit Diagnoses & Birth Exclusions

Admission/visit diagnosis	ICD-9 Code	Comments
1. All behavioral health	All codes between 290.xx to 319.xx	Primary diagnosis for Inpatient admissions or any diagnosis for emergency department visits
2. Depression	296.2, 296.3, 300.4, 311.XX, V79.0	Primary diagnosis for Inpatient admissions or any diagnosis for emergency department visits
3. Substance use disorder (SUD)	303.XX, 304.XX, 305.XX AND 292.xx	Primary diagnosis for Inpatient admissions or any diagnosis for emergency department visits
4. Psychoses	293.81 and 293.82, 294.2x-294.9x, 295.xx, 297.xx, 298.xx, 296.8 and 296.9	Primary diagnosis for Inpatient admissions or any diagnosis for emergency department visits
5. SUD with any mental illness.	Any code in #3 plus any code in #1 not in #3	Emergency department visits only
6. Multiple mental health, >1 diagnosis of mental illness (not SUD)	Any 2 or more codes in #1 but not in #3 (i.e. not SUDs)	Emergency department visits only
7. All other behavioral health	All remaining diagnoses between 290.XX and 319.xx not coded above in #2-#4 (inpatient) or #2-#6 (emergency)	Diagnosis #s 2 through 7 are mutually exclusive. For inpatient admissions, the sum of admissions in #s 2,3,4,7 = admissions in #1. For emergency department visits, the sum of visits in #s 2-7 = visits in #1.
8. Codes used to exclude birth related discharges	V22-V24, V27-V39	