

Supplemental Table 1. ICD-9 Codes for Mental Health Disorders

Diagnosis	ICD-9 Code
Depression Disorders	296.20–296.26, 296.30-296.36, 300.4, 311.00, and 293.83
Anxiety Disorders	293.84, 293.89, 300.00-300.02, 300.09, 300.21, 300.23, 300.29, 300.3
Posttraumatic Stress Disorder	309.81, 308.0
Bipolar Disorder	296.00-296.06, 296.40-296.89, 301.13
Psychotic Disorders	295.10-295.90, 296.90, 297.1, 297.3, 298.8, 299.10
Personality Disorders	301.0, 301.20, 301.22, 301.4, 301.50, 301.6, 301.7, 301.81, 301.82, 301.83, 301.9
Substance Use Disorders	303.0-3.3.03, 303.90-303.93, 304.0-301.9, 305.0-305.9
Cognitive Disorders	290.4, 294.1, 294.2, 331.1, 331.82, 331.83, 438.0, 854.01, 959.01

ICD-9 = International Classification of Diseases, 9th Revision

Supplemental Table 2. Mental Health Treatment

CPT Codes for Psychotherapy	90804, 90806, 90808, 90810-90829, 90832, 90834, 90837, 90839, 90845, 90846, 90847, 90849, 90853, 90875, 90876, 90884- 90904, 96152- 96155
Psychiatric Medications	<p><u>antidepressant medications</u>: amitriptyline, bupropion, citalopram, doxepin, duloxetine, escitalopram, fluoxetine, mirtazapine, nortriptyline, paroxetine, sertraline, venlafaxine</p> <p><u>antianxiety medications</u>: alprazolam, buspirone, chlordiazepoxide, clonazepam, diazepam, lorazepam, risperidone</p> <p><u>antipsychotic medications</u>: aripiprazole, chlorpromazine, haloperidol, olanzapine, prochlorperazine, quetiapine, ziprasidone</p>

CPT = current procedural terminology

Supplemental Table 3. Postoperative Outcomes by Mental Health Diagnosis and Treatment Type

	Total N	>1 Complication		LOS		90-Day Readmission	
		n	%	Median	IQR	n	%
No MH Diagnosis	49,932	14,882	29.9	8	6	11,458	22.9
Depression Disorders	2,738						
No Treatment	797	237	29.7	8	7	228	28.6
Medication Only	1,864	558	29.9	7	6	477	25.6
Psychotherapy Only	77	22	28.6	7	6	16	20.8
Medication + Psychotherapy	0	0	0.0	-	-	0	0.0
Anxiety Disorders	942						
No Treatment	258	71	27.5	8	5	53	20.5
Medication Only	665	219	32.9	8	7	180	27.1
Psychotherapy Only	19	7	36.8	8	6	4	21.1
Medication + Psychotherapy	0	0	0.0	-	-	0	0.0
PSTD	1,762						
No Treatment	505	139	27.5	7	6	129	25.5
Medication Only	1,179	355	30.1	7	6	315	26.7
Psychotherapy Only	78	27	34.6	7	5	16	20.5
Medication + Psychotherapy	0	0	0.0	-	-	0	0.0
Bipolar Disorders	505						
No Treatment	129	39	30.2	7	6	45	34.9
Medication Only	327	97	29.7	7	7	81	24.8
Psychotherapy Only	18	2	11.1	6.5	3	4	22.2
Medication + Psychotherapy	31	12	38.7	8	9	7	22.6
Psychotic Disorders	679						
No Treatment	166	54	32.5	9	9	43	25.9
Medication Only	408	141	34.6	9	10	105	25.7
Psychotherapy Only	27	6	22.2	7	9	7	25.9
Medication + Psychotherapy	78	24	30.8	10.5	10	28	35.9
Personality Disorders	105						
No Treatment	25	11	44.0	7	5	10	40.0
Medication Only	72	22	30.6	8.5	8.5	17	23.6
Psychotherapy Only	3	1	33.3	8	24	1	33.3
Medication + Psychotherapy	5	1	20.0	11	2	2	40.0
Substance Use Disorders	4,579						
No Treatment	2,990	941	31.5	7	6	739	24.7
Medication Only	1,376	458	33.3	8	6	364	26.5
Psychotherapy Only	155	39	25.2	8	8	30	19.4
Medication + Psychotherapy	58	21	36.2	9.5	12	12	20.7
Cognitive Disorders	239						
No Treatment	158	61	38.6	8	9	41	26.0
Medication Only	72	31	43.1	11	11	21	29.2
Psychotherapy Only	7	4	57.1	13	53	2	28.6
Medication + Psychotherapy	2	0	0.0	8	4	1	50.0