

Data Extracted

Using each patient's first/earliest hospitalization in our dataset, we extracted the following *patient demographic information* from the electronic health record (EHR): child age in years (recoded as 4-12 years vs. 13 and over to coincide with typical hospital unit age distinctions), race (fixed-choice options in EHR based on patient/family self-report at registration: Black, Caucasian (i.e., White), Hispanic/Latino, Asian, Other/Unknown [including 1 who identified as American Indian]), primary language (English, Spanish, other [Mandarin, Vietnamese, American Sign Language]), and insurance type. Values were present for all variables. The name of a patient's insurance company was coded in the EHR and subsequently cross-referenced against an institutional payor table to categorize it as one of the following insurance types: Commercial, Medicaid, TRICARE (a program for uniformed service members and families), Self-Insured, or Other (unable to categorize insurance type based on payor listed).

The following *clinical information* about each patient's earliest hospitalization was also extracted: length of stay in days (recoded as 0-7 vs. more than 7 given distribution: M=7.2, SD=6.4) and ICD-10-CM diagnostic codes. Authors with clinical expertise recoded the ICD-10-CM codes to identify 1) whether suicidality was present in the ICD-10-CM code list and 2) to categorize the primary admission diagnosis. For suicidality, admissions were coded as either suicidality not present (no ICD-10-CM code related to suicidality), suicidal ideation only (e.g., R45.851, "suicidal ideations" without additional suicide attempt codes), or suspected suicide attempt with or without ideation (e.g., T14.91XA, "suicide attempt, initial encounter"; T39.312A, "poisoning by propionic acid derivatives, intentional self-harm, initial encounter"). To categorize primary diagnoses, authors with clinical expertise created diagnostic categories of ICD-10-CM codes to align with the *DSM-5*. The patient's first listed (i.e., primary) mental health

diagnosis (ICD-10-CM F-code ranging from F01-F99) was used to assign the patient's admission to a diagnostic category (see Table 1 for characteristics of study sample and Table 2 for diagnostic categories). There were no exclusion criteria based on the manner of admission to the inpatient psychiatric unit (i.e., data includes all admissions including from the emergency department, medical floors, and direct admits),

Note that due to small sub-sample sizes and given comparable rates of readmission, the following categories were combined for multivariate analyses: 'Asian' (1.3%, n=21) and 'Other/Unknown' (1.3%, n=21) were combined into 'Other' race; 'Commercial' (35.3%, n=566), and 'Other' (2.1%, n=33) became the reference group for insurance type.

Table 1. Demographic Characteristics.

	% of full sample (N=1604)	n	% who were readmitted within 1 year	n	Chi-2
Age					1.5
4 -12 years old	32.8	526	17.1	90	
13 years and older	67.2	1078	14.7	159	
Race					16.6***
Black	59.2	948	18.4	174	
White	18.3	293	9.2	27	
Hispanic/Latino	20	321	13.7	44	
Other/Unknown	2.6	42	9.5	4	
Language					0.62
English	87.7	1407	15.7	221	
Spanish	12	192	14.1	27	
Other	0.2	4	25	1	
Insurance Type					17.2***
Commercial/other	37.4	599	11.9	71	
Medicaid	60.6	972	18.3	178	
Self-insured	1.8	29	0	0	
Length of Stay					9.4**
0-7 days	69.6	1117	13.7	153	
> 7 days	30.4	487	19.7	96	
Suicidality					3.1
None	50.2	806	16.1	130	
Ideation only	35.7	573	16.2	93	
Attempt	14	225	11.6	26	
Primary Psychiatric Diagnosis Category					4.1
Anxiety and related disorders	6.2	99	14.6	14	
Mood (e.g., depressive and bipolar) disorders	64.5	1035	16.3	169	
Disruptive behavioral disorders	5.4	87	19.5	17	
Neurodevelopmental disorders (e.g., ASD, ADHD)	10.5	168	13.1	22	
Psychotic disorders	3.1	49	14.3	7	
Trauma- or stressor-related disorders	7.5	120	12.5	15	
Other (feeding, medically related, somatic, dissociative, substance, unspecified, and unknown) disorders	2.9	46	10.9	5	

Table 2. Primary Psychiatric Diagnosis Categorization Using ICD-10-CM Codes

Diagnostic Categorization	ICD-10-CM Codes	Descriptor of ICD-10-CM Codes	Categorization Notes
Psychotic disorders (n=49)	F20-F29	Schizophrenia, schizotypal, delusional, and other non-mood psychotic disorders	
Mood (e.g., depressive and bipolar) disorders (n=1035)	F30-F39	Mood [affective] disorders	
Anxiety and related disorders (n=99)	F40-F48, F93-F93.9, F94.0, F95.0-F95.9	Anxiety, dissociative, stress-related, somatoform and other nonpsychotic mental disorders	No primary dissociative or somatoform disorders identified Recategorize: F43-F43.9, Trauma
Trauma or stressor-related disorders (n=120)	F43-F43.9, F94.1, F94.2	Trauma or stressor-related disorders	
Neurodevelopmental (e.g., ASD, ADHD) disorders (n=168)	F70-F79, F80-F89, F90-F90.9	Intellectual disabilities Pervasive and specific developmental or neurodevelopmental disorders	No primary intellectual disability diagnoses identified
Disruptive and/or behavioral disorders (n=87)	F91-F98, F63-F63.9	Behavioral and emotional disorders with onset usually occurring in childhood and adolescence	Recategorize: F90-F90.9, Neurodevelopmental Recategorize: F93-F93.9, Anxiety Recategorize: F94.0, Anxiety Recategorize: F94.1, F94.2, Trauma Recategorize: F94.8, F94.9, Other Recategorize: F95.0-F95.9, Anxiety Recategorize: F98.0-F98.9, Other
Other (feeding, medically related, somatic, dissociative, unspecified, and unknown) disorders (n=46)	F01-F09, F10-F19, F50-F59, F60-F69, F99, F94.8-F94.9, F98.0-F98.9	Mental disorders due to known physiological conditions Mental and behavioral disorders due to psychoactive substance use Behavioral syndromes associated with physiological disturbances and physical factors Disorders of adult personality and behavior Unspecified mental disorders	Recategorize: F63-F63.9, Disruptive

Table 3. Estimated Odds Ratios for Multivariate Logistic Regression Model of Any Readmission within 1 Year, by Significant Demographic and Clinical Factors

Variable	Any Readmission within 1 Year		
	AOR	95% CI	<i>p</i>
Race (reference: White)			
Black	1.90	1.19–3.04	0.007
Hispanic	1.39	0.81–2.40	0.24
Other/Unknown	1.02	0.34–3.11	0.97
Insurance type (reference: Commercial, other)			
Medicaid	1.40	1.01–1.94	0.04
Self-pay	0	0	1
Length of stay (reference: 0–7 days)			
>7 days	1.58	1.19–2.10	0.002

Table 4. Estimated Odds Ratio for Random Effects Multinomial Logistic Regression Model of Readmissions within One Year, by Significant Demographic and Clinical Factors

	Readmitted Once vs. None			Readmitted More than Once vs. None			Readmitted Once vs. More Than Once		
	AOR	95% CI	<i>p</i>	AOR	95% CI	<i>p</i>	AOR	95% CI	<i>p</i>
Race (reference: White)									
Black	1.70	1.0-2.88	0.05	2.50	1.0-6.26	0.05	0.68	0.24-1.91	0.46
Hispanic/Latino	1.56	0.85-2.86	0.15	0.96	0.31-2.98	0.95	1.62	0.46-5.68	0.45
Other/Unknown	1.35	0.44-4.19	0.60	0	0	1.0	-	-	-
Insurance type (reference: Commercial, other)									
Medicaid	1.23	0.85-1.79	0.27	1.92	1.04-3.53	0.04	0.64	0.32-1.28	0.64
Self-pay	0	0	1.0	0	0	-	0.52	0	0.52
Length of stay (reference: 0-7 days)									
>7 days	1.43	1.03-2.0	0.04	1.92	1.19-3.09	0.01	0.75	0.43-1.30	0.75