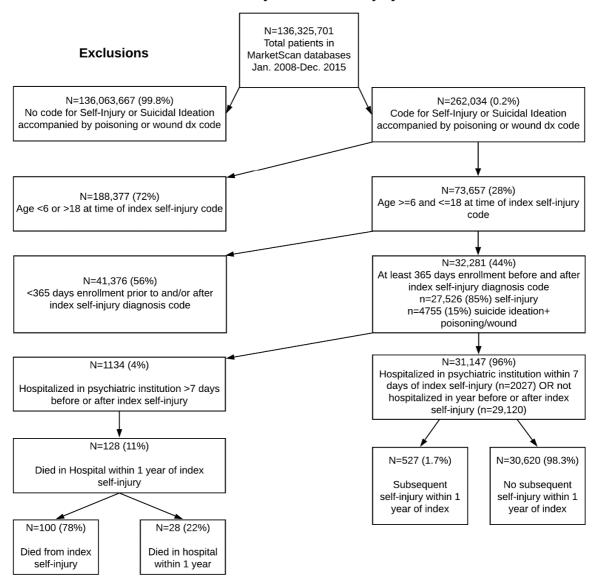
Online Supplemental Table 1. ICD-9 Codes utilized to identify self-injury.

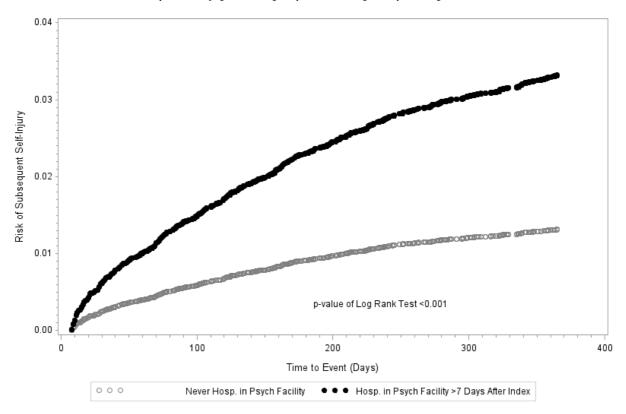
ICD-9-CM	
Codes*	Description
870-879	Open wound of head, neck, and trunk
880-897	Open wound of limbs
960-979	Poisoning by drugs, medicinals, and biological substances
	Toxic effects of substances chiefly nonmedicinal as to
980-989	source
E950-E959	Suicide and self-inflicted injury
E930-E939	Suicide and sen-inflicted injury
	Injury undetermined whether accidentally or purposely
E980-E989	inflicted
V6284	Suicidal ideation

^{*}Note. The corresponding ICD10 codes were also used but are not listed due to their non-contiguous numbering.

Flow of Medically Treated Self-Injury Patients



Cumulative Hazard Curve
Subsequent Self-Injury Stratified by Hospitalization in Psych Hospital >7 Days After Index



Cumulative Hazard Curve showing risk of subsequent self-injury in 365 days following index, stratified by whether the patient had at least 1 inpatient hospitalization in a psychiatric facility **at any time** during the year prior to and the year after the index event. Adjusted for patient age (continuous), sex, region of residence, health insurance plan type, calendar year of index, and psychiatric disorders summary score.

Characteristics of Patients Medically Treatment for Self-injuries from 2008-2015 and their hospitalization **at any time** status.

Characteristics	No hospitalization in psychiatric facility n= 29,120		Hospitalization in psychiatric facility at any time $n = 3161$		P value
Age (years)	Mean	SD	Mean	SD	
	14.1	± 3.1	15.4	± 1.7	<0.0001
Age (years)	N	Row %	N	Row %	
6-11	5768	99	43	1	
12-14	4293	92	375	8	<0.0001
15-18	19,059	87	2743	13	
Gender					
Male	13,386	93	948	7	
Female	15,734	88	2213	12	<0.0001
Type of health plan					
Comprehensive	217	94	14	6	
Exclusive/Preferred provider org.	19,309	91	1974	9	
Health maintenance organization	2681	88	352	12	< 0.0001
Point of service	1616	89	192	11	
Consumer-directed/High-deductible	5079	90	577	10	
Missing	218		52		
Geographic region					
Northeast	4807	95	227	5	
North Central	7876	90	882	10	< 0.0001
South	10,203	90	1107	10	
West	6084	87	943	13	
Missing	150		2		
Year of index self-injury					
2008	1297	94	90	6	
2009	2182	92	186	8	
2010	2688	94	173	6	< 0.0001
2011	4234	94	264	6	
2012	3576	91	364	9	
2013	4210	88	584	12	
2014	4604	88	652	12	
2015	6329	88	848	12	
Mental health assessment performed during	145	73%	54	27%	<0.0001
index self-injury					

Diagnoses in the year prior to the index self-injury stratified by whether the patient was hospitalized **at any time** in a psychiatric facility.

Dxs in the year prior to index self-injury	No hospitalization in psychiatric facility n= 29,120		psychiatric facility at any time n = 3161		P value
	N	Column %	N	Column %	
Disruptive Mood Dysregulation Dis.	144	0.5	66	2.1	<0.0001
Major Depressive Dis.	3866	13	1469	46	<0.0001
Persistent Depressive Dis. (Dysthymia)	1042	3.6	346	11	<0.0001
Pre-Menstrual Dysphoric Dis.	70	0.2	30	0.9	<0.0001
Depressive Dis. due to Med. Condition	134	0.5	52	1.6	<0.0001
Other Specified/Unspecified	4694	16	1543	49	<0.0001
Any unipolar mood disorder	6541	22	2080	66	< 0.0001
Bipolar I	490	1.7	231	7.3	<0.0001
Bipolar II	282	1	127	4	<0.0001
Cyclothymic Disorder	23	0.08	6	0.2	<0.0001
Bipolar due to Med. Condition	133	0.5	51	1.6	<0.0001
Other Specified/Unspecified	6	.02	1	0.03	0.37
Any bipolar mood disorder	836	2.9	366	12	<0.0001
Delusional Dis.	17	0.06	9	0.3	<0.0001
Brief Psychotic Dis.	117	0.40	76	2.4	<0.0001
Schizophreniform Dis.	10	0.03	7	0.2	<0.0001
Schizophrenia	41	0.1	22	0.7	<0.0001
Schizoaffective Dis. (Bipolar & Depressive)	54	0.2	35	1.1	<0.0001
Psychotic Dis. due to Med. Condition	9	0.03	1	0.03	0.39
Other Specified/Unspecified	751	2.6	354	11	<0.0001
Any psychotic disorder	806	2.8	385	12	<0.0001
Conduct Disorder	51	0.2	23	0.7	<0.0001
Disruptive Behavior Disorder	599	2.1	172	5.4	<0.0001
ODD	900	3.1	313	9.9	<0.0001
ADHD	3589	12	703	22	<0.0001
Any behavior disorder	4335	15	955	30	< 0.0001
Generalized Anxiety Disorder (GAD)	1543	5.3	536	17	<0.0001
Panic Disorders	413	1.4	162	5.1	<0.0001
Obsessive Compulsive Disorder (OCD)	325	1.1	110	3.5	<0.0001
Post-Traumatic Stress Disorder (PTSD)	569	2.0	256	8.1	<0.0001
Acute Stress Disorder	50	0.2	10	0.3	0.07
Phobias	306	1.1	111	3.5	<0.0001
Separation Anxiety	32	0.1	4	0.1	0.79
Adjustment Disorder	63	0.2	24	0.8	<0.0001
Any anxiety disorder	2628	9.0	892	28	<0.0001

Summary score of disorder diagnoses					
0	19,592	67	747	24	
1	5526	19	944	30	
2	2724	9.4	869	27	< 0.0001
3	979	3.4	438	14	
4	260	0.9	133	4.2	
5	39	0.1	30	1.0	

Patient services utilization during the 12 months before and after index self-injury event. Stratified by hospitalization in psychiatric facility **at any time**.

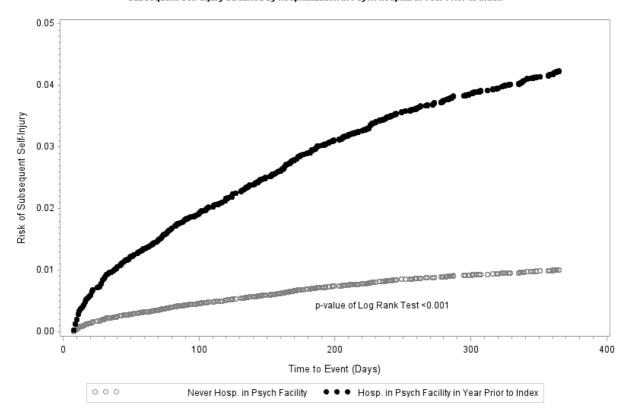
		4: 14 .4	I
	No	Hospitalization	<i>P</i> -value
	hospitalization	in psychiatric	
Characteristics	in psychiatric	facility at any	
	facility at any	time	
	time	N = 3161	
10 1 77777 777 1011	N = 29,120		
12 months PRIOR TO index self-inju	ry healthcare utili	ization	
Inpatient claims			
≥1 Inpatient hospitalization (any location) N (%)	2820 (10)	1238 (39)	<0.0001
Among those with ≥ 1 # of Inpatient hospitalizations	$1.6 (\pm 1.2)$	$1.8 (\pm 1.3)$	<0.0001
(unique admissions, any location) Mean (SD)			
ER claims		-	
≥1 ER visit N (%)	9745 (33)	1621 (33)	< 0.0001
Among those with ≥ 1 , ER visits (unique days) Mean (SD)	$1.9 (\pm 1.8)$	$2.4 (\pm 2.6)$	< 0.0001
Outpatient claims			
≥1 outpatient visit (any psych facility location N (%)	549 (2)	506 (16)	<0.0001
Among those with ≥ 1 , # of outpatient visits (unique dates	$8.2 (\pm 10.7)$	$7.3 (\pm 10.1)$	0.15
of service, any psych facility location Mean (SD)			
≥1 outpatient visit at any type of facility N (%)	27246 (94)	3055 (97)	<0.0001
# of outpatient visits (unique dates of service) at any type	10.5 (± 14.6)	19.4 (± 20.4)	< 0.0001
of facility Mean (SD)			
≥1 All-indication medication filled N (%)	18,160 (62)	2413 (76)	< 0.0001
Among those with ≥ 1 , # of all-indication medications filled	10.0 (± 12.3)	17.1 (± 17.8)	< 0.0001
Mean (SD)			
12 months after index self-injury l	healthcare utilizat	ion	
Inpatient claims			
≥1 Inpatient hospitalization (any location) N (%)	3066 (11)	1377 (44)	<0.0001
Among those with ≥ 1 # of Inpatient hospitalizations	0.11 (± 0.31)	$0.44 (\pm 0.50)$	< 0.0001
(unique admissions, any location) Mean (SD)	, ,	, ,	
ER claims			
≥1 ER visit N (%)	10,058 (35)	1861 (59)	<0.0001
Among those with ≥ 1 , ER visits (unique days) Mean (SD)	2.1 (± 2.5)	2.8 (± 2.9)	< 0.0001
Outpatient claims		, ,	
≥1 outpatient visit (any psych facility location N (%)	960 (3)	844 (27)	<0.0001
Among those with ≥ 1 , # of outpatient visits (unique dates	8.9 (± 12)	8.0 (± 11)	0.09
of service, any psych facility location Mean (SD)	, ,	` <i>'</i>	
≥1 outpatient visit at any type of facility N (%)	27,755 (95)	3104 (98)	<0.0001
# of outpatient visits (unique dates of service) at any type	14.4 (± 18.5)	28.0 (± 24.3)	<0.0001
of facility Mean (SD)	= = : (= ==)		
≥1 All-indication medication filled N (%)	19,003 (65)	2625 (83)	<0.0001
Among those with ≥ 1 , # of all-indication medications filled	13.1 (± 15)	25 (± 20)	<0.0001
Mean (SD)	(= 10)	(,	
Subsequent self-injury (yes/no) N (%)	417 (1.4)	263 (8.3)	<0.0001
	()	_00 (0.0)	10.0001

Median time to subsequent self-injury Mean (SD [range])	117 (± 101 (8-	110 (± 97 (8-	0.76
	365))	361))	

Hazard ratios and 95% confidence intervals of risk of subsequent self-injury in 365 days following index self-injury.

Variable	Hazard Ratio	95% CI	p-value
Hospitalization in psychiatric hospital	3.28	2.76, 3.88	< 0.0001
at any time			
Age	1.05	1.02, 1.09	0.004
Male	0.66	0.56, 0.78	< 0.0001
Health Insurance Type			
Consumer Directed/High Deductible	Referent		
Comprehensive Insurance	0.53	0.17, 1.68	0.28
Exclusive/Preferred Provider Org.	0.90	0.74, 1.09	0.29
Health Maintenance Org.	1.01	0.76, 1.35	0.95
Point of Service	0.85	0.58, 1.24	0.39
Region			
West	Referent		
Northeast	1.06	0.82, 1.36	0.65
North Central	1.14	0.93, 1.39	0.22
South	0.84	0.68, 1.04	0.11
Year of Index Self-injury			
2008	Referent		
2009	1.85	0.95, 3.61	0.07
2010	2.22	1.16, 4.26	0.02
2011	1.97	1.04, 3.72	0.04
2012	2.55	1.36, 4.77	0.003
2013	2.45	1.32, 4.55	0.005
2014	2.54	1.37, 4.69	0.003
2015	1.97	1.07, 3.65	0.03
Number of Unique Categories of			
Mood Disorder Diagnoses in Year			
Prior to Index			
0	Referent		
1	2.47	2.00, 3.05	< 0.0001
2	3.44	2.76, 4.30	< 0.0001
3	4.72	3.65, 6.11	< 0.0001
4	4.12	2.71, 6.25	< 0.0001
5	3.14	1.16, 8.51	0.02

Cumulative Hazard Curve
Subsequent Self-Injury Stratified by Hospitalization in Psych Hospital in Year Prior to Index



Cumulative Hazard Curve showing risk of subsequent self-injury in 365 days following index self-injury, stratified by whether the patient had at least 1 inpatient hospitalization in a psychiatric facility **in the year prior to the index event**. Adjusted for patient age (continuous), sex, region of residence, health insurance plan type, calendar year of index self-injury, and psychiatric disorders summary score.

Characteristics of Patients Medically Treatment for Self-injuries from 2008-2015 and their hospitalization status in the year prior the index self-injury event.

Characteristics	No hospitalization in psychiatric facility n= 29,120		Hospitalization in psychiatric facility in the year prior to index self-injury event $n = 941$		P value
Age (years)	Mean	SD	Mean	SD	
	14.1	± 3.1	15.5	± 1.7	< 0.0001
Age (years)	N	Row %	N	Row %	
6-11	5768	99	10	0.2	
12-14	4293	98	4293	2	< 0.0001
15-18	19,059	96	19,059	4	
Gender					
Male	13,386	98	327	2	
Female	15,734	96	614	4	< 0.0001
Type of health plan					
Comprehensive	217	97	6	3	
Exclusive/Preferred provider org.	19,309	97	583	4	
Health maintenance organization	2681	96	112	4	0.004
Point of service	1616	96	59	3	
Consumer-directed/High-deductible	5079	97	167	6	
Missing	218		14		
Geographic region					
Northeast	4807	95	73	2	
North Central	7876	90	285	3	
South	10,203	90	319	3	< 0.0001
West	6084	87	264	4	
Missing	150		0		
Year of index self-injury					
2008	1297	98	28	2	
2009	2182	97	58	3	
2010	2688	98	66	2	
2011	4234	98	80	2	
2012	3576	96	81	2	<0.0001
2013	4210	96	170	4	
2014	4604	96	199	4	
2015	6329	96	259	4	
Mental health assessment performed during index self-injury	145	92	12	8	0.001

Diagnoses in the year prior to the index self-injury stratified by whether the patient was hospitalized in a psychiatric facility **in the year prior to index self-injury event**.

Dxs in the year prior to index self-injury	No hospitalization in psychiatric facility n= 29,120		psychiatric facility in year prior to index $n = 941$		P value
	N	Column %	N	Column %	
Disruptive Mood Dysregulation Dis.	144	0.5	42	4	< 0.0001
Major Depressive Dis.	3866	13	757	80	< 0.0001
Persistent Depressive Dis. (Dysthymia)	1042	3.6	156	17	< 0.0001
Pre-Menstrual Dysphoric Dis.	70	0.2	11	1	< 0.0001
Depressive Dis. due to Med. Condition	134	0.5	31	3	< 0.0001
Other Specified/Unspecified	4694	16	682	72	< 0.0001
Any unipolar mood disorder	6541	22	869	92	<0.0001
Bipolar I	490	1.7	158	17	< 0.0001
Bipolar II	282	1	78	8	< 0.0001
Cyclothymic Disorder	23	0.08	2	0.2	0.18
Bipolar due to Med. Condition	133	0.5	31	3	< 0.0001
Other Specified/Unspecified	6	.02	1	0.1	0.09
Any bipolar mood disorder	836	2.9	231	25	< 0.0001
Delusional Dis.	17	0.06	6	0.6	< 0.0001
Brief Psychotic Dis.	117	0.40	58	6	< 0.0001
Schizophreniform Dis.	10	0.03	4	0.4	< 0.0001
Schizophrenia	41	0.1	11	1	< 0.0001
Schizoaffective Dis. (Bipolar & Depressive)	54	0.2	23	2	< 0.0001
Psychotic Dis. due to Med. Condition	9	0.03	1	0.1	0.27
Other Specified/Unspecified	751	2.6	242	26	< 0.0001
Any psychotic disorder	806	2.8	256	27	< 0.0001
Conduct Disorder	51	0.2	14	1	< 0.0001
Disruptive Behavior Disorder	599	2.1	98	10	< 0.0001
ODD	900	3.1	179	19	< 0.0001
ADHD	3589	12	302	32	< 0.0001
Any behavior disorder	4335	15	432	46	< 0.0001
Generalized Anxiety Disorder (GAD)	1543	5.3	276	29	< 0.0001
Panic Disorders	413	1.4	87	9	< 0.0001
Obsessive Compulsive Disorder (OCD)	325	1.1	59	6	< 0.0001
Post-Traumatic Stress Disorder (PTSD)	569	2.0	153	16	< 0.0001
Acute Stress Disorder	50	0.2	4	0.4	0.09
Phobias	306	1.1	59	6	< 0.0001
Separation Anxiety	32	0.1	0	0	0.63
Adjustment Disorder	63	0.2	8	0.9	< 0.0001
Any anxiety disorder	2628	9.0	446	47	<0.0001

Summary score of disorder diagnoses					
0	19,592	67	11	1	
1	5526	19	178	19	
2	2724	9.4	355	38	
3	979	3.4	270	29	< 0.0001
4	260	0.9	99	11	
5	39	0.1	28	3	

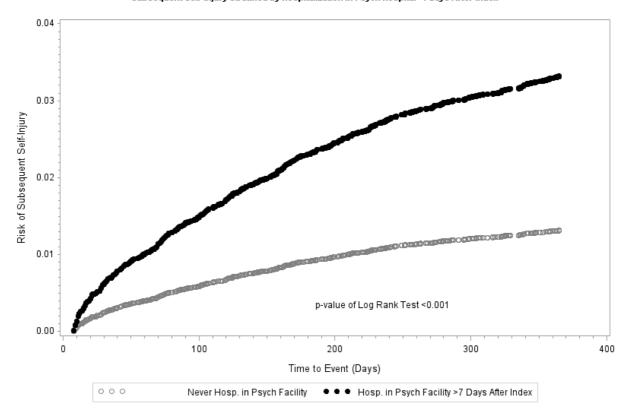
Patient services utilization during the 12 months before and after index self-injury event. Stratified by hospitalization in psychiatric hospital in year prior to index self-injury.

N.7	TT 1, 11	D '
		<i>P-</i> value
•		
	L	
iury healthcare ut	ilization	
1		
2820 (10)		< 0.0001
1.6 (± 1.2)	1.9 (±1.3)	< 0.0001
	<u> </u>	
9745 (33)	728 (77)	< 0.0001
1.9 (± 1.8)	$2.7 (\pm 2.4)$	< 0.0001
549 (2)	370 (39)	< 0.0001
8.2 (± 10.7)	7.6 (± 11.0)	0.39
27,246 (94)	938 (100)	< 0.0001
10.5 (± 14.6)	29.7 (± 24.5)	< 0.0001
18,160 (62)	817 (87)	< 0.0001
10.0 (± 12.3)	22.3 (±19.7)	< 0.0001
healthcare utilize	ation	
3066 (11)	425 (45)	< 0.0001
1.7 (±1.4)	2.2 (± 2.3)	< 0.0001
10,058 (35)	592 (63)	< 0.0001
2.1 (± 2.5)	3.0 (±3.6)	< 0.0001
	,	
960 (3)	264 (28)	<0.0001
8.9 (± 12)	` '	0.17
27,755 (95)	929 (99)	< 0.0001
14.4 (± 18.5)	31.7 (± 29.9)	<0.0001
,	, ,	
19,003 (65)	821 (87)	<0.0001
	28.4 (± 21.1)	<0.0001
417 (1.4)	68 (7.2)	<0.0001
, ,	·	0.40
365))	361))	
	2820 (10) 1.6 (± 1.2) 9745 (33) 1.9 (± 1.8) 549 (2) 8.2 (± 10.7) 27,246 (94) 10.5 (± 14.6) 18,160 (62) 10.0 (± 12.3) 20 healthcare utilized 3066 (11) 1.7 (±1.4) 10,058 (35) 2.1 (± 2.5) 960 (3) 8.9 (± 12) 27,755 (95) 14.4 (± 18.5) 19,003 (65) 13.1 (± 15) 417 (1.4) 117 (± 101 (8-	hospitalization in psychiatric facility facility prior to index N = 29,120 N = 941

Hazard ratios and 95% confidence intervals of risk of subsequent self-injury in 365 days following index self-injury.

** ***	TT 1D 1	OF CT	
Variable	Hazard Ratio	95% CI	p-value
Hospitalization in psychiatric hospital	1.78	1.34, 2.35	< 0.0001
in year prior to index			
Age	1.04	1.00, 1.08	0.03
Male	0.66	0.54, 0.80	< 0.0001
Health Insurance Type			
Consumer Directed/High Deductible	Referent		
Comprehensive Insurance	0.63	0.20, 1.98	0.42
Exclusive/Preferred Provider Org.	0.86	0.68, 1.09	0.22
Health Maintenance Org.	1.11	0.79, 1.54	0.56
Point of Service	0.81	0.52, 1.28	0.37
Region			
West	Referent		
Northeast	1.12	0.84, 1.48	0.45
North Central	1.14	0.89, 1.46	0.30
South	0.82	0.63, 1.07	0.15
Year of Index Self-injury			
2008	Referent		
2009	1.76	0.87, 3.57	0.12
2010	2.09	1.05, 4.16	0.04
2011	1.57	0.80, 3.10	0.19
2012	2.23	1.14, 4.34	0.02
2013	2.18	1.13, 4.21	0.02
2014	2.02	1.05, 3.89	0.04
2015	1.62	0.84, 3.12	0.15
Number of Unique Categories of			
Mood Disorder Diagnoses in Year			
Prior to Index			
0	Referent		
1	3.10	2.41, 4.00	< 0.0001
2	4.98	3.82, 6.48	< 0.0001
3	7.87	5.84, 10.62	< 0.0001
4	7.82	4.98, 12.28	< 0.0001
5	6.11	2.22, 16.81	0.0005

Cumulative Hazard Curve
Subsequent Self-Injury Stratified by Hospitalization in Psych Hospital >7 Days After Index



Cumulative Hazard Curve showing risk of subsequent self-injury in 365 days following index, stratified by whether the patient had at least 1 inpatient hospitalization in a psychiatric facility **in year after index event**. Adjusted for patient age (continuous), sex, region of residence, health insurance plan type, calendar year of index self-injury, and psychiatric disorders summary score.

Characteristics of Patients Medically Treatment for Self-injuries from 2008-2015 and their hospitalization status **in year after index self-injury event**.

Characteristics	No hospitalization in psychiatric facility n= 29,120		Hospitalization in psychiatric facility in in year after index self-injury event $n=1196$		P value
Age (years)	Mean	SD	Mean	SD	
	14.1	± 3.1	15.2	±1.8	<0.0001
Age (years)	N	Row %	N	Row %	
6-11	5768	99	19	0.3	
12-14	4293	96	188	4	< 0.0001
15-18	19,059	95	989	5	
Gender					
Male	13,386	97	383	3	
Female	15,734	95	813	5	< 0.0001
Type of health plan					
Comprehensive	217	98	4	2	
Exclusive/Preferred provider org.	19,309	96	757	4	
Health maintenance organization	2681	96	123	4	
Point of service	1616	96	67	4	0.0006
Consumer-directed/High-deductible	5079	96	224	4	
Missing	218		21		
Geographic region					
Northeast	4807	98	87	2	
North Central	7876	96	331	4	
South	10,203	96	419	4	< 0.0001
West	6084	94	358	6	
Missing	150		1		
Year of index self-injury					
2008	1297	97	37	3	
2009	2182	97	66	3	
2010	2688	98	65	2	
2011	4234	98	108	2	
2012	3576	96	151	4	< 0.0001
2013	4210	95	223	5	
2014	4604	95	245	5	
2015	6329	95	301	5	
Mental health assessment performed during index self-injury	145	87	21	13	<0.0001

Diagnoses in the year prior to the index self-injury stratified by whether the patient was hospitalized in a psychiatric facility **in year after index self-injury event**.

Dxs in the year prior to index self-injury	No hospitalization in psychiatric facility n= 29,120		Hospitalization in psychiatric facility in year after index self-injury event $n = 1196$		P value
	N	Column %	N	Column %	
Disruptive Mood Dysregulation Dis.	144	0.5	22	2	< 0.0001
Major Depressive Dis.	3866	13	557	47	< 0.0001
Persistent Depressive Dis. (Dysthymia)	1042	3.6	140	12	< 0.0001
Pre-Menstrual Dysphoric Dis.	70	0.2	14	1	< 0.0001
Depressive Dis. due to Med. Condition	134	0.5	16	1	< 0.0001
Other Specified/Unspecified	4694	16	593	50	< 0.0001
Any unipolar mood disorder	6541	22	790	66	< 0.0001
Bipolar I	490	1.7	90	8	< 0.0001
Bipolar II	282	1	49	4	< 0.0001
Cyclothymic Disorder	23	0.08	5	0.4	0.004
Bipolar due to Med. Condition	133	0.5	15	1	0.0001
Other Specified/Unspecified	6	0.02	1	0.08	0.25
Any bipolar mood disorder	836	2.9	136	11	< 0.0001
Delusional Dis.	17	0.06	6	0.5	< 0.0001
Brief Psychotic Dis.	117	0.40	32	3	< 0.0001
Schizophreniform Dis.	10	0.03	3	0.3	0.01
Schizophrenia	41	0.1	7	0.6	0.0002
Schizoaffective Dis. (Bipolar & Depressive)	54	0.2	16	1	< 0.0001
Psychotic Dis. due to Med. Condition	9	0.03	0	0	
Other Specified/Unspecified	751	2.6	139	12	< 0.0001
Any psychotic disorder	806	2.8	152	13	< 0.0001
Conduct Disorder	51	0.2	8	0.7	0.0001
Disruptive Behavior Disorder	599	2.1	70	6	<0.0001
ODD	900	3.1	127	11	< 0.0001
ADHD	3589	12	287	24	< 0.0001
Any behavior disorder	4335	15	388	32	< 0.0001
Generalized Anxiety Disorder (GAD)	1543	5.3	214	18	< 0.0001
Panic Disorders	413	1.4	52	4	< 0.0001
Obsessive Compulsive Disorder (OCD)	325	1.1	46	4	< 0.0001
Post-Traumatic Stress Disorder (PTSD)	569	2.0	101	8	<0.0001
Acute Stress Disorder	50	0.2	5	0.4	0.07
Phobias	306	1.1	43	4	< 0.0001
Separation Anxiety	32	0.1	3	0.3	0.16
Adjustment Disorder	63	0.2	7	0.6	0.009

Any anxiety disorder	2628	9.0	342	29	< 0.0001
Summary score of disorder diagnoses					
0	19,592	67	266	22	
1	5526	19	363	30	
2	2724	9.4	331	28	
3	979	3.4	173	14	< 0.0001
4	260	0.9	51	4	
5	39	0.1	12	1	

Patient services utilization during the 12 months before and after index self-injury event. Stratified by hospitalization in psychiatric facility in year after the index event.

Characteristics 12 months PRIOR TO index sel	No hospitalization in psychiatric facility N = 29,120	Hospitalization in psychiatric facility in year after index self- injury event $n = 1196$	<i>P-</i> value
Inpatient claims	j-injury neauncar	e uiiiizaiion	
≥1 Inpatient hospitalization (any location) N (%)	2820 (10)	471 (39)	<0.0001
Among those with ≥ 1 # of Inpatient hospitalizations	1.6 (± 1.2)	1.9 (± 1.5)	<0.0001
(unique admissions, any location) Mean (SD)	1.0 (± 1.2)	1.9 (± 1.3)	<0.0001
ER claims			
≥1 ER visit N (%)	9745 (33)	641 (54)	<0.0001
Among those with ≥ 1 , ER visits (unique days) Mean (SD)	1.9 (± 1.8)	2.5 (± 3.1)	<0.0001
Outpatient claims	1.9 (± 1.0)	2.3 (± 3.1)	<0.0001
≥1 outpatient visit (any psych facility location N (%)	549 (2)	202 (17)	<0.0001
Among those with ≥ 1 , # of outpatient visits (unique dates	8.2 (± 10.7)	$7.3 (\pm 9.3)$	0.26
of service, any psych facility location Mean (SD)	0.2 (± 10.7)	7.3 (± 7.3)	0.20
≥1 outpatient visit at any type of facility N (%)	27,246 (94)	1164 (97)	<0.0001
# of outpatient visits (unique dates of service) at any type	10.5 (± 14.6)	21.1 (± 22.4)	<0.0001
of facility Mean (SD)	10.5 (± 14.0)	21.1 (± 22.4)	<0.0001
≥1 All-indication medication filled N (%)	18,160 (62)	929 (78)	<0.0001
Among those with ≥ 1 , # of all-indication medications filled	10.0 (± 12.3)	18.3 (± 20.2)	<0.0001
Mean (SD)	1000 (= 1200)	1010 (= 2012)	10.0001
12 months after index self-in	iury healthcare u	tilization	
Inpatient claims	gury recurrence con		
≥1 Inpatient hospitalization (any location) N (%)	3066 (11)	1084 (91)	<0.0001
Among those with ≥ 1 # of Inpatient hospitalizations	1.7 (±1.4)	2.1 (± 1.9)	<0.0001
(unique admissions, any location) Mean (SD)	107 (=10.1)	202 (2 202)	1010002
ER claims			
≥1 ER visit N (%)	10,058 (35)	1021 (85)	<0.0001
Among those with ≥1, ER visits (unique days) Mean (SD)	2.1 (± 2.5)	3.2 (±2.9)	<0.0001
Outpatient claims			
≥1 outpatient visit (any psych facility location N (%)	960 (3)	507 (42)	<0.0001
Among those with ≥ 1 , # of outpatient visits (unique dates	8.9 (± 12)	8.3 (± 11.7)	0.33
of service, any psych facility location Mean (SD)	,		
≥1 outpatient visit at any type of facility N (%)	27,755 (95)	1176 (98)	< 0.0001
# of outpatient visits (unique dates of service) at any type	14.4 (± 18.5)	34.1 (± 27.6)	<0.0001
of facility Mean (SD)			
≥1 All-indication medication filled N (%)	19,003 (65)	1021 (85)	< 0.0001
Among those with ≥ 1 , # of all-indication medications filled	13.1 (± 15)	30.4 (± 21.7)	< 0.0001
Mean (SD)			
Subsequent self-injury (yes/no) N (%)	417 (1.4)	202 (17)	<0.0001
Median time to subsequent self-injury (SD [range])	117 (± 101 (8-	110 (±95 (9-355))	0.54
	365))		

Hazard ratios and 95% confidence intervals of risk of subsequent self-injury in 365 days following index self-injury.

Variable	Hazard Ratio	95% CI	p-value
Hospitalization in psychiatric hospital	6.86	5.71, 8.23	< 0.0001
in year after index			
Age	1.07	1.03, 1.11	0.0002
Male	0.66	0.55, 0.78	< 0.0001
Health Insurance Type			
Consumer Directed/High Deductible	Referent		
Comprehensive Insurance	0.60	0.19, 1.90	0.39
Exclusive/Preferred Provider Org.	0.91	0.74, 1.11	0.35
Health Maintenance Org.	1.11	0.82, 1.50	0.49
Point of Service	0.88	0.59, 1.31	0.52
Region			
West	Referent		
Northeast	1.08	0.83, 1.40	0.58
North Central	1.18	0.96, 1.47	0.12
South	0.82	0.66, 1.03	0.09
Year of Index Self-injury			
2008	Referent		
2009	1.88	0.96, 3.67	0.06
2010	2.05	1.06, 3.96	0.03
2011	1.76	0.93. 3.35	0.08
2012	2.30	1.22, 4.32	0.01
2013	2.31	1.24, 4.31	0.01
2014	2.36	1.27, 4.38	0.01
2015	1.92	1.03, 3.56	0.04
Number of Unique Categories of			
Mood Disorder Diagnoses in Year			
Prior to Index			
0	Referent		
1	2.48	1.99, 3.09	< 0.0001
2	3.53	2.80, 4.46	< 0.0001
3	4.86	3.71, 6.37	< 0.0001
4	4.29	2.76, 6.66	< 0.0001
5	3.39	1.25, 9.23	0.02