

Supplement Figure 1**Psychiatric Symptoms:** Please rate the severity of the patient's current psychiatric symptoms:

	None	Mild	Moderate	Severe	Don't Know
a. Depressive symptoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Anxiety symptoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Psychotic symptoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Manic symptoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Alcohol/other substance use symptoms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Sleeping problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Supplement: Table 2

Association of sleep problems with psychiatric hospitalization in Medicaid psychiatric patients.

Variable	Bivariate ^a			Multivariate ^a		
	OR	95% CI	<i>p</i>	AOR	95% CI	<i>p</i>
Severity of sleep problems						
None	1.00		Ref.	1.00		Ref.
Mild	1.57	1.12- 2.19	.008	1.51	1.04-2.19	.029
Moderate	2.43	1.78- 3.32	<.001	1.98	1.35-2.90	<.001
Severe	2.80	1.91- 4.12	<.001	1.68	1.06-2.68	.028
Age						
<18	1.00		Ref.	1.00		Ref.
18-35	2.37	1.74- 3.24	<.001	.58	.36- .94	.028
36-45	1.78	1.28- 2.46	<.001	.42	.26- .70	<.001
>45	1.25	.89- 1.74	.196	.34	.20- .58	<.001
Sex						
Female	1.00		Ref.	1.00		Ref.
Male	1.31	1.06- 1.62	.014	1.13	.85-1.49	.398
Race/ethnicity						
Non-Hispanic white	1.00		Ref.	1.00		Ref.
African American	1.63	1.28- 2.08	<.001	1.24	.91-1.69	.169
Hispanic	1.10	.78- 1.55	.596	1.12	.74-1.70	.598
Other, mixed, or unknown	.71	.37- 1.37	.311	.51	.22-1.14	.102
Diagnosis ^b						
Schizophrenia	2.96	2.35- 3.73	<.001	.83	.33-2.09	.695
Major depression	.66	.51- .85	.002	.84	.34-2.08	.712
Bipolar disorder	1.37	1.05- 1.78	.019	.50	.20-1.25	.136
Anxiety disorder	.49	.35- .67	<.001	.29	.10- .78	.015
Childhood disorder	.42	.31- .56	<.001	.18	.07- .47	<.001
Substance use disorder	2.79	2.07- 3.75	<.001	.54	.20-1.48	.230
Other disorder	.85	.64- 1.12	.254	.44	.17-1.14	.093
Psychiatric comorbidity						
1 disorder	1.00		Ref.	1.00		Ref.
2 disorders	1.25	.99- 1.58	.058	3.09	1.16-8.27	.024
3 or more disorders	1.49	.99- 2.24	.058	8.31	1.18-58.43	.033
Moderate to severe symptoms						
Depressive symptoms	1.47	1.18- 1.82	.001	1.19	.86-1.63	.296
Anxiety symptoms	1.27	1.03- 1.58	.027	1.15	.84-1.56	.379
Psychotic symptoms	5.19	4.09- 6.60	<.001	2.81	1.98-3.99	<.001
Manic symptoms	3.12	2.32- 4.20	<.001	1.37	.91-2.08	.136
Alcohol or other substance use symptoms	4.56	3.45- 6.01	<.001	2.39	1.62-3.53	<.001

General medical conditions						
None	1.00		Ref.	1.00		Ref.
1 condition	1.31	.97- 1.77	.079	1.33	.93-1.91	.119
2 or more conditions	1.16	.83- 1.62	.391	1.00	.66-1.51	.988
Psychiatric medication prescribed ^c						
Antidepressants	.60	.48- .74	<.001	.85	.62-1.16	.301
Antipsychotics	3.63	2.87- 4.61	<.001	1.80	1.29-2.50	<.001
Benzodiazepines	.72	.55- .94	.016	.76	.54-1.08	.130
Mood stabilizers	2.17	1.71- 2.74	<.001	1.95	1.40-2.70	<.001
Non-benzodiazepine hypnotics	.74	.43- 1.26	.268	.92	.51-1.64	.772

^a Results from binary logistic regression analyses. OR stands for odds ratio, AOR for adjusted odds ratio and CI for confidence interval. Analyses were weighted by the clinician's Medicaid caseload, as well as the number of psychiatrists treating Medicaid patients in each state.

^b Patients with each diagnosis were compared with all other patients not carrying that diagnosis. For example, patients with a diagnosis of schizophrenia were compared with all patients without a diagnosis of schizophrenia.

^c Patients prescribed each type of medication were compared to all other patients not prescribed that type of medication.

Supplement: Table 3

Association of sleep problems with emergency department visits in Medicaid psychiatric patients.

Variable	Bivariate ^a			Multivariate ^a		
	OR	95% CI	<i>p</i>	AOR	95% CI	<i>p</i>
Severity of sleep problems						
None	1.00		Ref.	1.00		Ref.
Mild	1.42	1.03- 1.95	.033	1.29	.91- 1.83	.148
Moderate	2.43	1.80- 3.28	<.001	1.79	1.26- 2.55	.001
Severe	3.77	2.59- 5.47	<.001	2.37	1.52- 3.70	<.001
Age						
<18	1.00		Ref.	1.00		Ref.
18-35	2.70	1.98- 3.67	<.001	.89	.57- 1.39	.604
36-45	2.24	1.63- 3.09	<.001	.74	.46- 1.19	.217
>45	1.47	1.07- 2.04	.019	.51	.31- .85	.010
Sex						
Female	1.00		Ref.	1.00		Ref.
Male	1.07	.87- 1.32	.510	.98	.76- 1.26	.871
Race/ethnicity						
Non-Hispanic white	1.00		Ref.	1.00		Ref.
African American	1.35	1.06- 1.71	.015	1.12	.84- 1.50	.434
Hispanic	1.09	.78- 1.52	.597	1.08	.73- 1.59	.708
Other, mixed, or unknown	.75	.40- 1.37	.347	.58	.27- 1.26	.170
Diagnosis ^b						
Schizophrenia	2.18	1.74- 2.74	<.001	.60	.25- 1.43	.249
Major depression	.88	.69- 1.12	.302	.74	.32- 1.72	.487
Bipolar disorder	1.21	.93- 1.56	.153	.39	.16- .94	.036
Anxiety disorder	.69	.52- .91	.010	.39	.15- 1.00	.051
Childhood disorder	.40	.30- .52	<.001	.23	.09- .58	.002
Substance use disorder	2.89	2.15- 3.90	<.001	.66	.26- 1.70	.391
Other disorder	.87	.66- 1.13	.293	.41	.17- .99	.046
Psychiatric comorbidity						
1 disorder	1.00		Ref.	1.00		Ref.
2 disorders	1.31	1.04- 1.63	.020	2.70	1.08- 6.76	.034
3 or more disorders	1.38	.92- 2.07	.116	5.49	.89- 33.66	.066
Moderate to severe symptoms						
Depressive symptoms	1.63	1.32- 2.01	<.001	1.06	.78- 1.43	.728
Anxiety symptoms	1.65	1.34- 2.03	<.001	1.41	1.05- 1.89	.021
Psychotic symptoms	3.64	2.89- 4.60	<.001	2.01	1.44- 2.81	<.001
Manic symptoms	2.46	1.83- 3.31	<.001	1.24	.83- 1.85	.286
Alcohol or other substance use symptoms	4.65	3.51- 6.17	<.001	2.33	1.59- 3.42	<.001

General medical conditions						
None	1.00		Ref.	1.00		Ref.
1 condition	1.03	.78- 1.38	.825	.95	.69- 1.32	.770
2 or more conditions	1.16	.84- 1.59	.370	.93	.64- 1.35	.710
Psychiatric medication prescribed ^c						
Antidepressants	.76	.62- .94	.010	.85	.64- 1.14	.280
Antipsychotics	2.71	2.17- 3.37	<.001	1.75	1.29- 2.38	<.001
Benzodiazepines	.86	.67- 1.11	.250	.76	.55- 1.05	.102
Mood stabilizers	1.73	1.37- 2.18	<.001	1.51	1.11- 2.06	.009
Non-benzodiazepine hypnotics	.65	.38- 1.10	.106	.64	.37- 1.13	.124

^a Results from binary logistic regression analyses. OR stands for odds ratio, AOR for adjusted odds ratio and CI for confidence interval. Analyses were weighted by the clinician's Medicaid caseload, as well as the number of psychiatrists treating Medicaid patients in each state.

^b Patients with each diagnosis were compared with all other patients not carrying that diagnosis. For example, patients with a diagnosis of schizophrenia were compared with all patients without a diagnosis of schizophrenia.

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