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# PSYCKES

## Treatment Engagement Measures

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February 2020

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Technical Specifications

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**Office of  
Mental Health**

**PSYCKES**

## Adherence to Antipsychotic Medications for Individuals with Schizophrenia

### Description:

The percentage of Medicaid enrollees/members 18-64 with a diagnosis of schizophrenia or schizoaffective disorder (see Table 1 in Appendix for list of diagnoses) who remained on an antipsychotic for less than 80 percent of the treatment period.

### Eligible Population:

Age:	18 to 64 as of PSYCKES report date.
Inclusion Criteria:	<p>Medicaid enrollees with diagnosis of schizophrenia or schizoaffective disorder in the year prior to the PSYCKES report date and had picked up at least one antipsychotic during the intake period (first 9 months of the 12 months prior to the PSYCKES report date).</p> <p>Enrollees with continuous Medicaid eligibility the year prior to the PSYCKES report date (No more than one gap of 45 days).</p> <p>Enrollees had at least two antipsychotic medication dispensing events in the year prior to the PSYCKES report date.</p>
Exclusion Criteria:	<p>Dual Eligible (Medicare).</p> <p>Enrollees with a primary diagnosis of dementia in the year prior to the PSYCKES report date.</p>

### Definitions:

IPSD:	Index prescription start date (IPSD) is the earliest prescription dispensing date for any antipsychotic medication during the first 9 months of the 12 months prior to the PSYCKES report date.
Treatment Period:	The period of time beginning on the IPSD through the PSYCKES report date.
PDC:	Proportion of days covered (PDC) is the total days covered by at least one antipsychotic medication prescription (or inpatient days), divided by total days in treatment period.
Calculation:	<p>Days covered for any antipsychotic prescriptions:</p> <ol style="list-style-type: none"> <li>1. When antipsychotic medications are dispensed on the same day, use the prescription with longest days of supply.</li> <li>2. If multiple prescriptions for different medications are dispensed on different days, only count each day once.</li> <li>3. If multiple prescriptions for the same medications are dispensed on different days, for oral medication, sum the total days supply for this medication; for injection, only count once for each day.</li> <li>4. If an enrollee is covered with an antipsychotic medication within 50 days of the report date, it is assumed the enrollee has antipsychotic medication coverage until the report date.</li> </ol>
Inpatient Days*:	Inpatient stays occurring during the treatment period are treated as days with antipsychotic medication.

**Specification:**

**Numerator:** Number of enrollees/members (from the eligible population) whose PDC (total days covered with an antipsychotic divided by total days in treatment period) is less than 80 percent.

**Denominator:** Eligible Population

Note: This indicator is based on the “Adherence to Antipsychotic Medications for Individuals with Schizophrenia”, HEDIS 2013, Volume 2. Differences include: inverting the indicator by reporting the percent of enrollees with a PDC of less than 80% and treating inpatient days as days covered with antipsychotic medication.

## Adherence to Mood Stabilizer Medications for Individuals with Bipolar Disorder

### Description:

The percentage of Medicaid enrollees/members 18-64 with a diagnosis of bipolar disorder (see Table 2 in Appendix for list of diagnoses) who remained on an antipsychotic/mood stabilizer for less than 80 percent of the treatment period.

### Eligible Population:

Age:	18 – 64 as of PSYCKES report date.
Inclusion Criteria:	<p>Medicaid enrollees with diagnosis of bipolar disorder in the year prior to the PSYCKES report date and had picked up at least one antipsychotic/mood stabilizer during the intake period (first 9 months of the 12 months prior to the PSYCKES report date).</p> <p>Enrollees with continuous Medicaid eligibility the year prior to the PSYCKES report date (No more than one gap of 45 days).</p> <p>Enrollees had at least two antipsychotic medication dispensing events in the year prior to the PSYCKES report date.</p>
Exclusion Criteria:	<p>Dual Eligible (Medicare).</p> <p>Enrollees with a primary diagnosis of dementia in the year prior to the PSYCKES report date.</p>

### Definitions:

IPSD:	Index prescription start date (IPSD) is the earliest prescription dispensing date for any antipsychotic/mood stabilizer medication during the first 9 months of the 12 months prior to the PSYCKES report date.
Treatment Period:	The period of time beginning on the IPSD through the PSYCKES report date.
PDC:	Proportion of days covered (PDC) is the total days covered by at least one antipsychotic medication prescription (and/or inpatient day), divided by total days in treatment period.
Calculation:	<p>Days covered for any antipsychotic/mood stabilizer prescriptions:</p> <ol style="list-style-type: none"> <li>1. When antipsychotic/mood stabilizer medications are dispensed on the same day, use the prescription with longest days of supply.</li> <li>2. If multiple prescriptions for different medications are dispensed on different days, only count each day once.</li> <li>3. If multiple prescriptions for the same medications are dispensed on different days, for oral medication, sum the total days supply for this medication; for injection, only count once for each day.</li> <li>4. If an enrollee is covered with an antipsychotic/mood stabilizer medication within 50 days of the report date, it is assumed the enrollee has antipsychotic medication coverage until the report date.</li> </ol>

Inpatient Days\*: Inpatient stays occurring during the treatment period are treated as days with antipsychotic medication.

**Specification:**

Numerator: Number of enrollees/members (from the eligible population) with a PDC (total days covered with an antipsychotic/mood stabilizer divided by total days in treatment period) is less than 80 percent.

Denominator:

Eligible Population

Note: This indicator is based on the “Adherence to Antipsychotic Medications for Individuals with Schizophrenia”, HEDIS 2013, Volume 2. We adapted the measure to include individuals with a bipolar diagnosis and observed with either antipsychotic or mood stabilizer medications; to invert the indicator by reporting the percent of enrollees with a PDC of less than 80%; and to treat inpatient days as days covered with antipsychotic medication.

## Antidepressant Trial of less than 12 weeks for Individuals with Depression

### Description:

The percentage of Medicaid enrollees/members 18-64 with a primary or secondary diagnosis of depression (see Table 3 in Appendix for the list of diagnoses) who were newly started on an antidepressant medication but did not remain on any antidepressant for a minimum of 12 weeks (84 days) in the year prior to PSYCKES report date.

### Eligible Population:

Age:	18 – 64 as of PSYCKES report date.
Inclusion Criteria:	Medicaid enrollees/members with a primary or secondary diagnosis of major depression in the year prior to the PSYCKES report date and have no evidence of antidepressant medication in the 90 days prior to the first antidepressant pick up in the measurement period. Enrollees/members are continuously enrolled during the year prior to PSYCKES report date (no more than one gap of 45 days).
Exclusion Criteria:	Dual Eligible (Medicare). Enrollees with antidepressant treatment 90 days prior to the IPSD.

### Definitions:

IESD:	Index Episode Start Date (IESD) is the earliest encounter during the year prior to the PSYCKES report date with any diagnosis of major depression and a 90-day Negative Medication History. For inpatient, the IESD is the date of discharge.
IPSD:	Index prescription start date (IPSD) is the earliest prescription dispensing date for an antidepressant medication during the period of 30 days prior to the IESD (inclusive) through 14 days after the IESD (inclusive).
Negative Medication History:	A period of 90 days prior to the IPSD when the member had no pharmacy claims for either new or refill prescriptions for an antidepressant medication.

### Specification:

Numerator*:	Number of enrollees/members (from the eligible population) who had less than 12 weeks (84 days) of continuous treatment with antidepressant medication during the 114 day period following the IPSD <sup>(2)</sup> . If an enrollee is covered with an antidepressant medication within 50 days of the report date, it is assumed the enrollee has antidepressant medication coverage until the report date.
Denominator:	Enrollees from the eligible population who have received one or more services from an inpatient or BH provider in the 9 months prior to the PSYCKES report date.

\*If an enrollee's/member's IPSD is within 114 days of the report date, we consider the enrollee/member to have continuous treatment with antidepressant medication.

Note: This indicator is based on Antidepressant Medication Management (AMM) from HEDIS 2013, volume 2. We inverted the indicator to report the percent of enrollees who had less than 12 weeks of antidepressant medication.

## APPENDIX

Table 1: Diagnosis codes for Schizophrenia

Diagnosis code	Diagnosis label	ICD version	Diagnosis code	Diagnosis label	ICD version
295	Schizophrenic disorders	9	2956	Residual type schizophrenic disorders	9
2950	Simple type schizophrenia	9	29560	Schizophrenic disorders, residual type, unspecified	9
29500	Simple type schizophrenia, unspecified	9	29561	Schizophrenic disorders, residual type, subchronic	9
29501	Simple type schizophrenia, subchronic	9	29562	Schizophrenic disorders, residual type, chronic	9
29502	Simple type schizophrenia, chronic	9	29563	Schizophrenic disorders, residual type, subchronic with acute exacerbation	9
29503	Simple type schizophrenia, subchronic with acute exacerbation	9	29564	Schizophrenic disorders, residual type, chronic with acute exacerbation	9
29504	Simple type schizophrenia, chronic with acute exacerbation	9	29565	Schizophrenic disorders, residual type, in remission	9
29505	Simple type schizophrenia, in remission	9	2957	Schizoaffective disorder	9
2951	Disorganized type schizophrenia	9	29570	Schizoaffective disorder, unspecified	9
29510	Disorganized type schizophrenia, unspecified	9	29571	Schizoaffective disorder, subchronic	9
29511	Disorganized type schizophrenia, subchronic	9	29572	Schizoaffective disorder, chronic	9
29512	Disorganized type schizophrenia, chronic	9	29573	Schizoaffective disorder, subchronic with acute exacerbation	9
29513	Disorganized type schizophrenia, subchronic with acute exacerbation	9	29574	Schizoaffective disorder, chronic with acute exacerbation	9
29514	Disorganized type schizophrenia, chronic with acute exacerbation	9	29575	Schizoaffective disorder, in remission	9
29515	Disorganized type schizophrenia, in remission	9	2958	Other specified types of schizophrenia	9
2952	Catatonic type schizophrenia	9	29580	Other specified types of schizophrenia, unspecified	9
29520	Catatonic type schizophrenia, unspecified	9	29581	Other specified types of schizophrenia, subchronic	9
29521	Catatonic type schizophrenia, subchronic	9	29582	Other specified types of schizophrenia, chronic	9
29522	Catatonic type schizophrenia, chronic	9	29583	Other specified types of schizophrenia, subchronic with acute exacerbation	9
29523	Catatonic type schizophrenia, subchronic with acute exacerbation	9	29584	Other specified types of schizophrenia, chronic with acute exacerbation	9



29524	Catatonic type schizophrenia, chronic with acute exacerbation	9	29585	Other specified types of schizophrenia, in remission	9
29525	Catatonic type schizophrenia, in remission	9	2959	Unspecified schizophrenia	9
2953	Paranoid type schizophrenia	9	29590	Unspecified schizophrenia, unspecified	9
29530	Paranoid type schizophrenia, unspecified	9	29591	Unspecified schizophrenia, subchronic	9
29531	Paranoid type schizophrenia, subchronic	9	29592	Unspecified schizophrenia, chronic	9
29532	Paranoid type schizophrenia, chronic	9	29593	Unspecified schizophrenia, subchronic with acute exacerbation	9
29533	Paranoid type schizophrenia, subchronic with acute exacerbation	9	29594	Unspecified schizophrenia, chronic with acute exacerbation	9
29534	Paranoid type schizophrenia, chronic with acute exacerbation	9	29595	Unspecified schizophrenia, in remission	9
29535	Paranoid type schizophrenia, in remission	9	F20	Schizophrenia	10
2954	Schizophreniform disorder	9	F200	Paranoid schizophrenia	10
29540	Schizophreniform disorder, unspecified	9	F201	Disorganized schizophrenia	10
29541	Schizophreniform disorder, subchronic	9	F202	Catatonic schizophrenia	10
29542	Schizophreniform disorder, chronic	9	F203	Undifferentiated schizophrenia	10
29543	Schizophreniform disorder, subchronic with acute exacerbation	9	F205	Residual schizophrenia	10
29544	Schizophreniform disorder, chronic with acute exacerbation	9	F208	Other schizophrenia	10
29545	Schizophreniform disorder, in remission	9	F2081	Schizophreniform disorder	10
2955	Latent schizophrenia	9	F2089	Other schizophrenia	10
29550	Latent schizophrenia, unspecified	9	F209	Schizophrenia, unspecified	10
29551	Latent schizophrenia, subchronic	9	F250	Schizoaffective disorder, bipolar type	10
29552	Latent schizophrenia, chronic	9	F251	Schizoaffective disorder, depressive type	10
29553	Latent schizophrenia, subchronic with acute exacerbation	9	F258	Other schizoaffective disorders	10
29554	Latent schizophrenia, chronic with acute exacerbation	9	F259	Schizoaffective disorder, unspecified	10
29555	Latent schizophrenia, in remission	9			

**Table 2: Diagnosis codes for Bipolar Disorder**

Diagnosis code	Diagnosis label	ICD version	Diagnosis code	Diagnosis label	ICD version
296	Episodic mood disorders	9	F301	Manic episode without psychotic symptoms	10
2960	Bipolar I disorder, single manic episode	9	F3010	Manic episode without psychotic symptoms, unspecified	10
29600	Bipolar I disorder, single manic episode, unspecified	9	F3011	Manic episode without psychotic symptoms, mild	10
29601	Bipolar I disorder, single manic episode, mild	9	F3012	Manic episode without psychotic symptoms, moderate	10
29602	Bipolar I disorder, single manic episode, moderate	9	F3013	Manic episode, severe, without psychotic symptoms	10
29603	Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior	9	F302	Manic episode, severe with psychotic symptoms	10
29604	Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior	9	F303	Manic episode in partial remission	10
29605	Bipolar I disorder, single manic episode, in partial or unspecified remission	9	F304	Manic episode in full remission	10
29606	Bipolar I disorder, single manic episode, in full remission	9	F308	Other manic episodes	10
2961	Manic disorder, recurrent episode	9	F309	Manic episode, unspecified	10
29610	Manic affective disorder, recurrent episode, unspecified	9	F31	Bipolar disorder	10
29611	Manic affective disorder, recurrent episode, mild	9	F310	Bipolar disorder, current episode hypomanic	10
29612	Manic affective disorder, recurrent episode, moderate	9	F311	Bipolar disorder, current episode manic without psychotic features	10
29613	Manic affective disorder, recurrent episode, severe, without mention of psychotic behavior	9	F3110	Bipolar disorder, current episode manic without psychotic features, unspecified	10
29614	Manic affective disorder, recurrent episode, severe, specified as with psychotic behavior	9	F3111	Bipolar disorder, current episode manic without psychotic features, mild	10
29615	Manic affective disorder, recurrent episode, in partial or unspecified remission	9	F3112	Bipolar disorder, current episode manic without psychotic features, moderate	10
29616	Manic affective disorder, recurrent episode, in full remission	9	F3113	Bipolar disorder, current episode manic without psychotic features, severe	10
2964	Bipolar I disorder, most recent episode (or current) manic	9	F312	Bipolar disorder, current episode manic severe with psychotic features	10
29640	Bipolar I disorder, most recent episode (or current) manic, unspecified	9	F313	Bipolar disorder, current episode depressed, mild or moderate severity	10

29641	Bipolar I disorder, most recent episode (or current) manic, mild	9	F3130	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	10
29642	Bipolar I disorder, most recent episode (or current) manic, moderate	9	F3131	Bipolar disorder, current episode depressed, mild	10
29643	Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior	9	F3132	Bipolar disorder, current episode depressed, moderate	10
29644	Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior	9	F314	Bipolar disorder, current episode depressed, severe, without psychotic features	10
29645	Bipolar I disorder, most recent episode (or current) manic, in partial or unspecified remission	9	F315	Bipolar disorder, current episode depressed, severe, with psychotic features	10
29646	Bipolar I disorder, most recent episode (or current) manic, in full remission	9	F3160	Bipolar disorder, current episode mixed, unspecified	10
2965	Bipolar I disorder, most recent episode (or current) depressed	9	F3161	Bipolar disorder, current episode mixed, mild	10
29650	Bipolar I disorder, most recent episode (or current) depressed, unspecified	9	F3162	Bipolar disorder, current episode mixed, moderate	10
29651	Bipolar I disorder, most recent episode (or current) depressed, mild	9	F3163	Bipolar disorder, current episode mixed, severe, without psychotic features	10
29652	Bipolar I disorder, most recent episode (or current) depressed, moderate	9	F3164	Bipolar disorder, current episode mixed, severe, with psychotic features	10
29653	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	9	F317	Bipolar disorder, currently in remission	10
29654	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	9	F3170	Bipolar disorder, currently in remission, most recent episode unspecified	10
29655	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	9	F3171	Bipolar disorder, in partial remission, most recent episode hypomanic	10
29656	Bipolar I disorder, most recent episode (or current) depressed, in full remission	9	F3172	Bipolar disorder, in full remission, most recent episode hypomanic	10
2966	Bipolar I disorder, most recent episode (or current) mixed	9	F3173	Bipolar disorder, in partial remission, most recent episode manic	10
29660	Bipolar I disorder, most recent episode (or current) mixed, unspecified	9	F3174	Bipolar disorder, in full remission, most recent episode manic	10

29661	Bipolar I disorder, most recent episode (or current) mixed, mild	9	F3175	Bipolar disorder, in partial remission, most recent episode depressed	10
29662	Bipolar I disorder, most recent episode (or current) mixed, moderate	9	F3176	Bipolar disorder, in full remission, most recent episode depressed	10
29663	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	9	F3177	Bipolar disorder, in partial remission, most recent episode mixed	10
29664	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	9	F3178	Bipolar disorder, in full remission, most recent episode mixed	10
29665	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	9	F318	Other bipolar disorders	10
29666	Bipolar I disorder, most recent episode (or current) mixed, in full remission	9	F3181	Bipolar II disorder	10
2967	Bipolar I disorder, most recent episode (or current) unspecified	9	F3189	Other bipolar disorder	10
F30	Manic episode	10	F319	Bipolar disorder, unspecified	10

**Table 3: Diagnosis codes for Depression**

Diagnosis code	Diagnosis label	ICD version
29620	Major depressive affective disorder, single episode, unspecified	9
29621	Major depressive affective disorder, single episode, mild	9
29622	Major depressive affective disorder, single episode, moderate	9
29623	Major depressive affective disorder, single episode, severe, without mention of psychotic behavior	9
29624	Major depressive affective disorder, single episode, severe, specified as with psychotic behavior	9
29630	Major depressive affective disorder, recurrent episode, unspecified	9
29631	Major depressive affective disorder, recurrent episode, mild	9
29632	Major depressive affective disorder, recurrent episode, moderate	9
29633	Major depressive affective disorder, recurrent episode, severe, without mention of psychotic behavior	9
29634	Major depressive affective disorder, recurrent episode, severe, specified as with psychotic behavior	9
29635	Major depressive affective disorder, recurrent episode, in partial or unspecified remission	9
29625	Major depressive affective disorder, single episode, in partial or unspecified remission	9
2980	Depressive type psychosis	9
311	Depressive disorder, not elsewhere classified	9
F32	Major depressive disorder, single episode	10
F320	Major depressive disorder, single episode, mild	10

F321	Major depressive disorder, single episode, moderate	10
F322	Major depressive disorder, single episode, severe without psychotic features	10
F323	Major depressive disorder, single episode, severe with psychotic features	10
F324	Major depressive disorder, single episode, in partial remission	10
F325	Major depressive disorder, single episode, in full remission	10
F328	Other depressive episodes	10
F329	Major depressive disorder, single episode, unspecified	10
F33	Major depressive disorder, recurrent	10
F330	Major depressive disorder, recurrent, mild	10
F331	Major depressive disorder, recurrent, moderate	10
F332	Major depressive disorder, recurrent severe without psychotic features	10
F333	Major depressive disorder, recurrent, severe with psychotic symptoms	10
F334	Major depressive disorder, recurrent, in remission	10
F3340	Major depressive disorder, recurrent, in remission, unspecified	10
F3341	Major depressive disorder, recurrent, in partial remission	10
F3342	Major depressive disorder, recurrent, in full remission	10
F338	Other recurrent depressive disorders	10
F339	Major depressive disorder, recurrent, unspecified	10