

## Drug Use Evaluation: Use of Antipsychotics in Children

### Research Questions:

- 1) How frequently are antipsychotics prescribed to antipsychotic-naïve children with FDA-approved or guideline endorsed indications?
- 2) What is the duration of therapy for newly started antipsychotics in children?
- 3) Which prescriber types and specialties are associated with new-start antipsychotics in children?

### Conclusions:

- 1) Since 2009, gross and per member per month rates of newly started antipsychotics in children have been steadily declining. However, it is unclear from these data if the decline corresponds to changes in the target patient population, implemented initiatives, or provider preferences.
- 2) FDA-approved antipsychotic indications were infrequently found in children receiving their first antipsychotic (autism spectrum disorders (16%), bipolar disorder (4%) and schizophrenia (4%).
  - a) Initiation of antipsychotic therapy in children is most commonly associated with Affective Disorders (excluding Bipolar disorder), Attention-Deficit/Hyperactivity Disorder (ADHD), Adjustment Disorder and Acute Stress Reactions.
  - b) In children 0-5 years of age, initiation of antipsychotic therapy is most commonly associated with ADHD, Developmental Disorders and Disruptive Behavior Disorders.
- 3) The most common duration of therapy was categorized as short-term (43%).
  - a) Duration of therapy did not appear to be associated with identified indications or prescriber specialties.
  - b) There were 275 children under the age of 10 years who received either intermittent or long-term therapy.
- 4) Antipsychotics were initiated most commonly by mental health specialists (57%).
  - a) 18% of new starts were prescribed by providers specializing in pediatrics.
  - b) 7% of new starts were prescribed by providers specializing in family medicine.
  - c) A minority of providers (5.5%) accounted for 34% of newly started antipsychotics.

### Recommendations:

- 1) Develop a RetroDUR program which provides new start patients access to care coordination and referral for expert consultation. Profiles of patients who are less than 10 years of age and prescribed long-term therapy will be referred for expert review. Experts can then coordinate with prescribing providers in order to improve patient care.

## Background

Since the 1990s, several studies have noted an increased trend in use of antipsychotic medications in children and adolescents.<sup>1-3</sup> For example in the Texas Medicaid population, the number of prescriptions for children and adolescents increased 494% between 1996 and 2000 for second generation antipsychotics.<sup>1</sup> Similarly in the Tennessee Medicaid population, from 1996 to 2001 new users of atypical antipsychotics increased from 6.8% to 95.9%.<sup>4</sup> Utilization which paralleled state Medicaid trends was also observed in a national study completed in 2006.<sup>5</sup> Other studies noted that, in the absence of any comorbid psychiatric diagnosis, ADHD-diagnosed foster care children had more than 3-fold greater adjusted odds of atypical antipsychotic use than did children enrolled in income-eligible Medicaid categories.<sup>6</sup> Nearly one-third of such ADHD-diagnosed foster care children received atypical antipsychotics regardless of age group, with annual duration of use more than 250 days in children ages 2 to 12 years.<sup>6</sup>

These trends are particularly concerning due to the lack of good quality evidence addressing the safety and efficacy of antipsychotics in children. Initiation of antipsychotic therapy in children is most commonly associated with Affective Disorders (excluding Bipolar Disorder), Attention-Deficit/Hyperactivity Disorder (ADHD), Adjustment Disorder and Acute Stress Reactions. Adjustment Disorder is defined as an emotional or behavioral reaction to a stressful event or change in a child's life.<sup>7</sup> Acute Stress Reactions occur when a child has a very strong reaction to a life changing event such as death or illness in their family, a serious injury, or a natural disaster. An AHRQ systematic review of antipsychotics in children found mixed strength evidence for the use of antipsychotics in this population.<sup>8</sup> In patients with ADHD and Disruptive Behavior Disorder, Bipolar Disorder, and Schizophrenia, there was moderate strength of evidence for the improvement of clinical global impression (CGI) scores with the use of second generation antipsychotics over placebo. <sup>8</sup> Similar improvements in behavioral symptoms were noted for children with ADHD and Disruptive Behavior Disorder and for improvements in tics associated with Tourette Syndrome with antipsychotics compared to placebo. <sup>8</sup> Outside of these outcomes, evidence was of low or insufficient quality for treatment of other conditions, for children under 6 years of age for any indication, and for combination treatment with multiple antipsychotics.<sup>8</sup> Guidelines from the American Academy of Child and Adolescent Psychiatry (AACAP) for the use of psychotropic medication in children, calls for "a marked amount of caution" when considering treatment with antipsychotics.<sup>9</sup> Due to the lack of long-term safety and efficacy data, guidelines recommend that long-term therapy should be reassessed based on patient needs and changing environments and not be assumed as the appropriate course of action. Similar recommendations were echoed by a U.S. Department of Health and Human Services report in 2015. The report raised concerns regarding the quality of care for Medicaid-enrolled children on psychotropic and antipsychotic medications.<sup>10</sup> Sixty-seven percent of Medicaid claims reviewed revealed quality issues including: Medication Taken Too Long (34%), Wrong Treatment (41%), and Poor Monitoring (53%).<sup>10</sup>

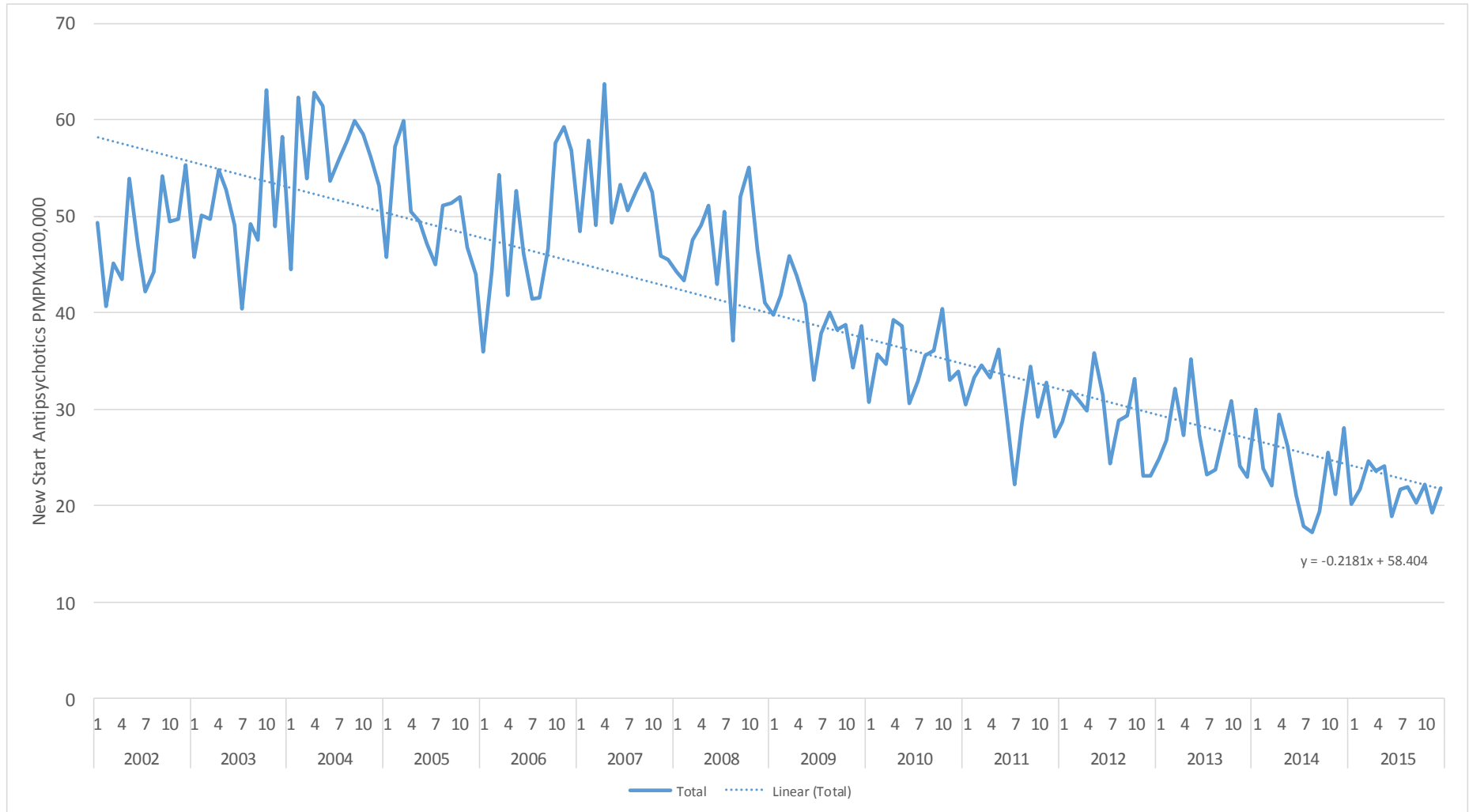
Due to the rapid increase in use and the lack of high quality data supporting efficacy of these medication, particularly for Medicaid children within the foster care system, the Centers for Medicare and Medicaid Services (CMS) recommended State Medicaid programs monitor and oversee use of psychotropic medications for in children in foster care. In 2010, Oregon statutes were amended to insure children in foster care are appropriately assessed and any mental health disorders are diagnosed early.<sup>11</sup> An assessment by a qualified mental health professional, except in emergency situations, is required prior to prescribing a psychotropic for a foster child under 6 years of age; any foster child receiving an antipsychotic; and any foster child prescribed 3 or more psychotropics. Psychotropic medications included under this policy are listed in **Appendix 2**. Annual medication reviews are also required for these foster children.<sup>12</sup> Currently, the Drug Use Research and Management (DURM) program at the Oregon State University College of Pharmacy assists the Child Welfare program to identify and evaluate individual patient cases for children in the foster care system. Profiles for children who may benefit from additional care coordination are forwarded to advocates in the foster care system who then work with prescribers and psychiatric consultants at the Oregon Psychiatric Access Line about Kids (OPAL-K) to

improve therapy for the children. OPAL-K is an organization at Oregon Health and Science University which provides physician to physician, patient-specific consultation service for primary care providers in Oregon.

Additional policies which have been adopted by the Oregon Drug Use Review / Pharmacy & Therapeutics (P&T) committee have included initiatives to promote annual metabolic monitoring for patient receiving antipsychotics and interventions to review the most complex regimens (5 or more concurrent psychotropics, 2 or more concurrent antipsychotics, and psychotropic use in children under 6 years of age). Since 2009, gross and per member per month rates of newly started antipsychotics in children have been steadily declining (**Figures 1 and 2**). However, it is unclear from these data if the decline corresponds to changes in the target patient population, implemented initiatives, or provider preferences. Since the start of these initiatives, there has been a 5% decrease (from 28% to 23%) in the prevalence of antipsychotics in children receiving at least one psychotropic.<sup>13-16</sup> This decrease was likely because of Medicaid expansion in January 2014 and not due to the quality improvement initiatives. Similarly, in a recent review of the policy to improve metabolic monitoring, annual rate of metabolic monitoring had only improved by 4.2%.

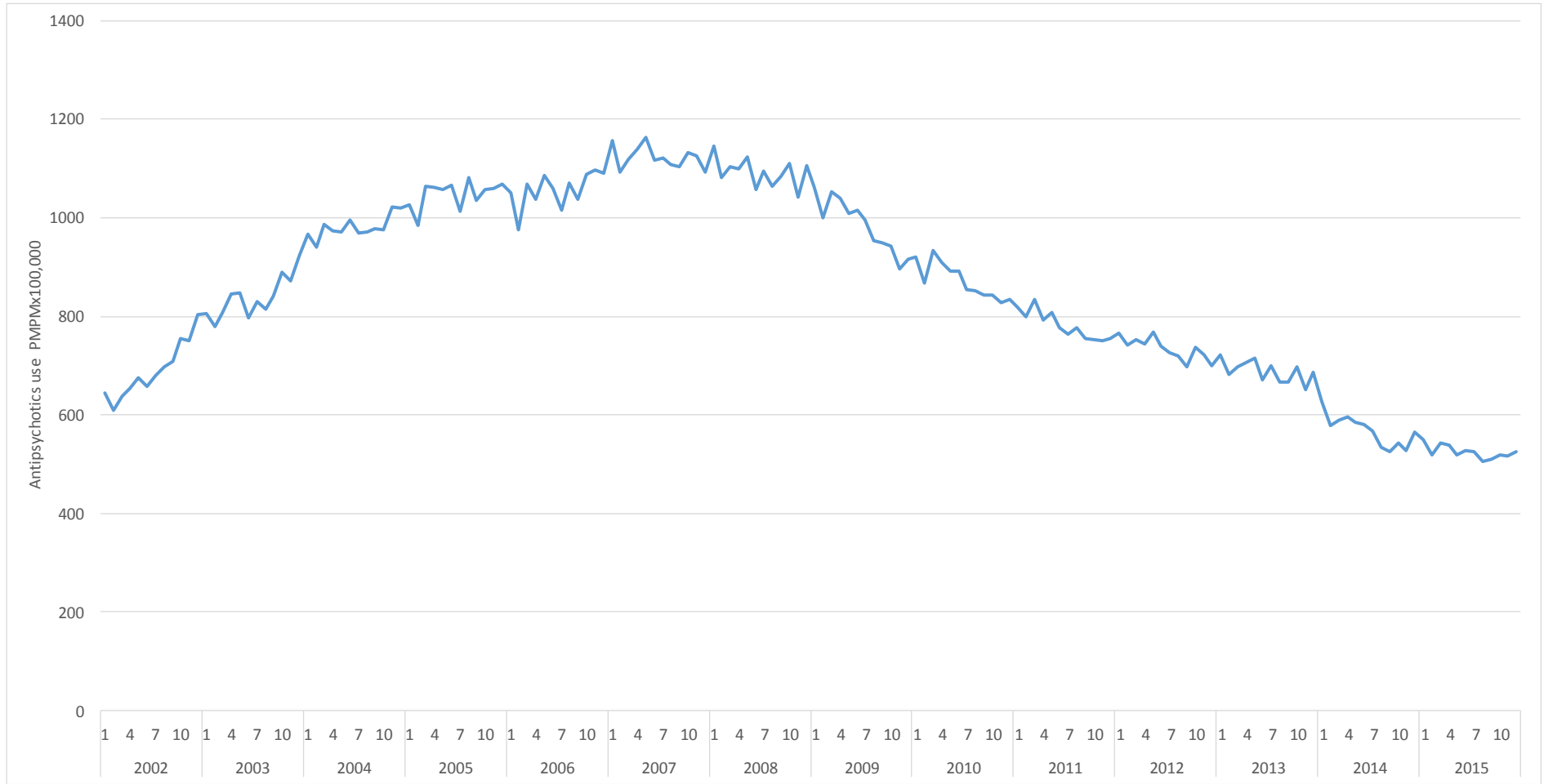
This report will attempt to gather information concerning when antipsychotics are used in children, for how long, and from which provider types in order to inform policy recommendations.

Figure 1. New start antipsychotic rate in children in the Oregon Medicaid program 2002-2015



Key: PMPM = Per Member Per Month. Denominator = All eligible children in Oregon Medicaid under 18 years old. Numerator = All eligible children in Oregon Medicaid under 18 years old with a newly started antipsychotic

Figure 2. Prevalence of antipsychotic use in children in the Oregon Medicaid program 2002-2015



Key: PMPM = Per Member Per Month. Denominator = All eligible children in Oregon Medicaid under 18 years old. Numerator = All eligible children in Oregon Medicaid under 18 years old with any prescription for an antipsychotic

**Methods:**

An observational longitudinal cohort design was used to identify patients starting antipsychotic medications. The cohort was defined as Medicaid members less than 18 years of age with an index event from 1/1/2014-12/31/2014. The index event (IE) was defined as the first paid FFS pharmacy claim for any drug listed in **Table A1** (see **Appendix 1**) without a paid pharmacy claim 120 days prior to the paid date.

Patients were excluded if they had Medicare Part D coverage (benefit packages BMM, BMD, MND or MED). Patients were excluded if they had less than 75% days of Oregon Medicaid eligibility from 90 days prior to the index date to 365 days after the index date to ensure the most complete data possible.

Duration of therapy was assessed using the proportion of days covered (PDC).<sup>11,17</sup> The PDC is the number of days covered by at least one antipsychotic medication prescription, divided by the number of days in the evaluation period. PDC differs from medication possession ratio (MPR) in several ways, the most salient difference being MPR uses the first and last prescription date, whereas the PDC use the first prescription date and the end date of the evaluation period. MPR may overestimate adherence rates for patients who discontinue medications. Short-term therapy was defined as a PDC of 33% (i.e. 120-day supply) or less for the 365 days following the IE. Long-term therapy was defined as a PDC exceeding 80%. Intermittent therapy was defined as a PDC greater than 33% and less than 80%. Intermittent therapy represents either continuous prescribed therapy with low adherence or high adherence to moderate duration therapy.

Indications for the use of antipsychotics were determined using International Classification of Disease (ICD) codes from 12 months prior to the IE and 90 days after the IE. A list of all ICD codes and categorizations (e.g. Developmental Disorders, Adjustment and Acute Reactions, etc.) appears in **Table A2**. Baseline characteristics of age, gender, foster care status and ethnicity were assessed at the IE. Prescriber specialties were assessed using the National Provider Identifier (NPI) number associated with the IE and the associated taxonomy.

**Results:**

Baseline demographics appear in **Table 1**. The majority (74%) of antipsychotics initiated in children were in children 10 years of age and older.

Associated diagnosis data are summarized in **Tables 2 and 3**. **Table 2** lists psychiatric diagnoses found in patients receiving newly started antipsychotics. The most commonly found psychiatric disorders were Affective Disorders (excluding Bipolar) (59%), ADHD (49%), and Adjustment and Acute Reactions (43%). **Table 3** shows diagnosis history by age group. Antipsychotic initiation in the presence of ADHD (62%), Disruptive Behavioral Disorders (57%) or Developmental Disorders (54%) were the most common indications found in children 0-5 years of age. The presence of ADHD and Adjustment and Acute Reactions were common in all age groups and were the most common diagnoses for children 6-9 years of age. Affective Disorders (excluding Bipolar) were the most common diagnoses identified in children 10-17 years of age (68%). Schizophrenia and bipolar disorder were the least frequently identified disorders in all age groups.

Duration of therapy data are described in **Tables 4 and 5**. **Table 4** indicates antipsychotics were most commonly used for short-term treatment (42%) with an average of 57 days covered in the 365 days following the IE. **Table 5** illustrates that duration of therapy varied somewhat by indication with short-term therapy the most common (mean 42%, range 30-55%), followed by intermittent therapy (mean 32%, range 27-38%) and long-term therapy (mean 26%, range 14-41%). There were 275 children under the age of 10 years who received either intermittent or long-term therapy.

The most common specialties for prescribers of the first antipsychotic were Child and Adolescent Psychiatrists (26%), followed by Mental Health Nurse Practitioners (17%) and Pediatric Physicians (14%) (**Table 6**). The average number of prescribed first antipsychotic per prescriber was skewed due to several outlier providers. A de-identified list of prescribers initiating antipsychotics in 10 or more children during the evaluation period is listed in **Table 7**. The 24 prescribers (5.5%) listed account for 406 new antipsychotic starts (34%). Top prescribers initiated long-term therapy with the slightly greater frequency vs. non-top prescribers (29% vs. 25%). Top prescribers initiated intermittent therapy at a similar rate to non-top prescribers (31% vs. 32%). A greater proportion of children were 6-9 years old when antipsychotics were initiated by top prescribers vs. non-top prescribers (76% vs 70%).

Table 1. Demographics

Subgroups	n (1193)	
	#	%
<b>Age</b>		
0-5	63	5%
6-9	249	21%
10-17	881	74%
<b>Ethnicity</b>		
Non-White	464	39%
White	729	61%
<b>Foster Care Status</b>		
Foster Care	94	8%
Non-Foster Care	1099	92%
<b>Gender</b>		
F	480	40%
M	713	60%

Table 2. New start antipsychotics in children by diagnosis

	#	%
Affective Disorders, Excluding Bipolar	698	59%
ADHD	584	49%
Adjustment and Acute Reactions	509	43%
Other Psychotic Disorders	490	41%
PTSD	310	26%
Disruptive Behavior Disorders	310	26%
Other Mental Health Diagnosis	291	24%
Developmental Disorders	230	19%
Autism Spectrum Disorders	193	16%
Sleep Disorders	108	9%
Personality Disorders	60	5%
Schizophrenia	42	4%
No Diagnosis Found	42	4%
Bipolar	33	3%
<b>Grand Total</b>	<b>1193</b>	<b>100%</b>



Table 3. Indications and age groups

	0-5		6-9		10-17		Overall	
	#	%	#	%	#	%	#	%
Affective Disorders, Excluding Bipolar	13	21%	88	35%	597	68%	698	59%
ADHD	39	62%	170	68%	375	43%	584	49%
Adjustment and Acute Reactions	28	44%	144	58%	337	38%	509	43%
Other Psychotic Disorders	16	25%	96	39%	378	43%	490	41%
PTSD	7	11%	59	24%	244	28%	310	26%
Disruptive Behavior Disorders	36	57%	87	35%	187	21%	310	26%
Other Mental Health Diagnosis	5	8%	26	10%	260	30%	291	24%
Developmental Disorders	34	54%	78	31%	118	13%	230	19%
Autism Spectrum Disorders	19	30%	56	22%	118	13%	193	16%
Sleep Disorders	17	27%	28	11%	63	7%	108	9%
Personality Disorders	5	8%	14	6%	41	5%	60	5%
Schizophrenia	0	0%	1	0%	41	5%	42	4%
No Diagnosis Found	2	3%	5	2%	35	4%	42	4%
Bipolar	1	2%	3	1%	29	3%	33	3%

Table 4. Duration of Antipsychotic Therapy

	#	%	Average Days Covered
Short Term	501	42%	57
Intermittent	381	32%	211
Long Term	311	26%	330
<b>Grand Total</b>	<b>1193</b>	<b>100%</b>	<b>177</b>

Table 5. Duration of therapy by indication

	Short Term		Intermittent		Long Term		Total #
	#	%	#	%	#	%	
Affective Disorders, Excluding Bipolar	316	45%	231	33%	151	22%	698
ADHD	220	38%	175	30%	189	32%	584
Adjustment and Acute Reactions	198	39%	171	34%	140	28%	509
Other Psychotic Disorders	169	34%	172	35%	149	30%	490
PTSD	118	38%	107	35%	85	27%	310
Disruptive Behavior Disorders	111	36%	98	32%	101	33%	310
Other Mental Health Diagnosis	122	42%	111	38%	58	20%	291
Developmental Disorders	70	30%	77	33%	83	36%	230
Autism Spectrum Disorders	61	32%	52	27%	80	41%	193
Sleep Disorders	45	42%	33	31%	30	28%	108
Personality Disorders	21	35%	16	27%	23	38%	60
Schizophrenia	14	33%	13	31%	15	36%	42
No Diagnosis Found	23	55%	13	31%	6	14%	42
Bipolar	14	42%	9	27%	10	30%	33
<b>Grand Total</b>	<b>501</b>	<b>42%</b>	<b>381</b>	<b>32%</b>	<b>311</b>	<b>26%</b>	<b>1193</b>

Table 6. Provider specialties for patients receiving initial antipsychotic therapy

	Patients	%	Prescribers	Patients Per Prescriber
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	310	26%	57	5.44
NURSE PRACTITIONER - PSYCHIATRIC/MENTAL HEALTH	207	17%	62	3.34
PHYSICIAN-PEDIATRICS	162	14%	75	2.16
PHYSICIAN-PSYCHIATRY&NEUROLOGY-PSYCHIATRY	148	12%	52	2.85
Unavailable	122	10%	37	3.30
PHYSICIAN-FAMILY MEDICINE	58	5%	47	1.23
PHYSICIAN-PEDIATRICS-DEVELOPMENTAL BEHAVIORAL PEDIATRICS	34	3%	10	3.40
NURSE PRACTITIONER - FAMILY	26	2%	18	1.44
REGISTERED NURSE - PSYCHIATRIC/MENTAL HEALTH	26	2%	4	6.50
NURSE PRACTITIONER - PEDIATRICS: PEDIATRICS	16	1%	10	1.60
PHYSICIAN ASSISTANT	15	1%	12	1.25
PHYSICIAN ASSISTANT - MEDICAL	14	1%	4	3.50
PHYSICIAN-EMERGENCY MEDICINE	11	1%	11	1.00
STUDENT IN AN ORGANIZED HEALTH CARE EDUCATION/TRAINING PROGRAM	7	1%	6	1.17
PHYSICIAN-INTERNAL MEDICINE	6	1%	6	1.00
PHYSICIAN-PEDIATRICS-ADOLESCENT MEDICINE	5	0%	3	1.67
NURSE PRACTITIONER	5	0%	3	1.67
NURSE PRACTITIONER - COMMUNITY HEALTH	3	0%	2	1.50
PHYSICIAN-EMERGENCY MEDICINE-EMERGENCY MEDICAL SERVICES	2	0%	2	1.00
SPECIALIST	2	0%	2	1.00
COUNSELOR - MENTAL HEALTH	2	0%	1	2.00
PHYSICIAN-PEDIATRICS-PEDIATRIC HEMATOLOGY ONCOLOGY	2	0%	2	1.00
PHYSICIAN-INTERNAL MEDICINE-ADOLESCENT MEDICINE	1	0%	1	1.00
REGISTERED NURSE	1	0%	1	1.00
PHYSICIAN-OTOLARYNGOLOGY	1	0%	1	1.00
CLINIC/CENTER - RURAL HEALTH	1	0%	1	1.00
CLINICAL NURSE SPECIALIST - PSYCHIATRIC/MENTAL HEALTH	1	0%	1	1.00
PHYSICIAN-PSYCHIATRY&NEUROLOGY-NEUROLOGY	1	0%	1	1.00
PHYSICIAN-PSYCHIATRY&NEUROLOGY-NEUROLOGY WITH SPECIAL QUAL IN CHILD NEUROLO	1	0%	1	1.00
CLINICAL NURSE SPECIALIST	1	0%	1	1.00
NATUROPATH	1	0%	1	1.00
PHYSICIAN-PSYCHIATRY&NEUROLOGY-FORENSIC PSYCHIATRY	1	0%	1	1.00
<b>Grand Total</b>	<b>1193</b>	<b>100%</b>	<b>436</b>	2.74

Table 7. List of prescribers (deidentified) initiating antipsychotic therapy in 10 or more children during the one year evaluation period

Specialty	Provider City	Members
PHYSICIAN-PEDIATRICS	WOODBURN	35
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	NORTH BEND	27
Specialty Unavailable	Unavailable	24
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	PORTLAND	24
REGISTERED NURSE - PSYCHIATRIC/MENTAL HEALTH	GRESHAM	23
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	PORTLAND	22
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	EUGENE	21
NURSE PRACTITIONER - PSYCHIATRIC/MENTAL HEALTH	KLAMATH FALLS	20
PHYSICIAN-PEDIATRICS	MEDFORD	20
PHYSICIAN-PSYCHIATRY&NEUROLOGY-PSYCHIATRY	EUGENE	19
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	PORTLAND	16
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	PORTLAND	15
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	EUGENE	15
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	EUGENE	14
NURSE PRACTITIONER - PSYCHIATRIC/MENTAL HEALTH	PORTLAND	13
Specialty Unavailable	Unavailable	12
PHYSICIAN-PSYCHIATRY&NEUROLOGY-PSYCHIATRY	EUGENE	12
Specialty Unavailable	Unavailable	11
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	EUGENE	11
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	PORTLAND	11
NURSE PRACTITIONER - PSYCHIATRIC/MENTAL HEALTH	TIGARD	11
NURSE PRACTITIONER - PSYCHIATRIC/MENTAL HEALTH	SPRINGFIELD	10
PHYSICIAN-PSYCHIATRY&NEUROLOGY-CHILD&ADOLESCENT PSYCHIATRY	SALEM	10
PHYSICIAN-PSYCHIATRY&NEUROLOGY-PSYCHIATRY	CORVALLIS	10
<b>Total</b>		<b>406</b>

**Limitations and discussion:**

There are several limitations to this drug use evaluation. As with any retrospective claims analysis, diagnosis information may not accurately reflect the true clinical diagnosis. A paid pharmacy claim may not correspond to a patient actually taking a medication. The use of medication samples and inpatient hospitalizations may also produce apparent gaps in therapy where none exists. Despite these limitations, some studies suggest administrative claims data to have a high positive predictive value (96%) for detecting the presence of bipolar disorder and schizophrenia.<sup>18</sup> The use of PDC to determine the length of therapy has not been validated and may not accurately represent the duration of therapy.

In Oregon Medicaid, antipsychotics were most commonly prescribed short-term (<120 days) for Affective Disorders (excluding Bipolar disorder), ADHD, Adjustment Disorder and Acute Stress Reactions. However, there were a significant portion of patients under 10 years of age who received intermittent or long-term therapy (n=275). Because there is limited evidence for use of antipsychotics in children and long-term safety or efficacy of these agents is unclear, further initiatives are necessary to improve quality of care for Medicaid children prescribed antipsychotics. Individual review of patient profiles for children less than 10 year of age on long-term antipsychotics could help to identify areas of improvement in therapy and enhance care coordination for this vulnerable patient population. Currently, patient-specific consultations for Oregon Medicaid foster care children receiving an antipsychotic or children prescribed 3 or more psychotropics are conducted by child psychiatrists at OPAL-K for foster children. Expansion of this collaboration to also include consultation and/or patient profile reviews for children on long-term antipsychotics could help to improve care coordination and provide resources for primary care physicians. Profiles of patients meeting criteria will be forwarded to child psychiatrists who can then consult with prescribing providers in order to improve care and optimize therapy if necessary.

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## Appendix 1: Reference Tables

Table A1: Antipsychotics

Class	HSN	Drug
Antipsychotics, 1st Gen	001621	CHLORPROMAZINE HCL
Antipsychotics, 1st Gen	001626	FLUPHENAZINE HCL
Antipsychotics, 1st Gen	001662	HALOPERIDOL
Antipsychotics, 1st Gen	001661	HALOPERIDOL LACTATE
Antipsychotics, 1st Gen	039886	LOXAPINE
Antipsychotics, 1st Gen	001663	LOXAPINE HCL
Antipsychotics, 1st Gen	001664	LOXAPINE SUCCINATE
Antipsychotics, 1st Gen	001627	PERPHENAZINE
Antipsychotics, 1st Gen	001637	PIMOZIDE
Antipsychotics, 1st Gen	001622	PROMAZINE HCL
Antipsychotics, 1st Gen	001631	THIORIDAZINE HCL
Antipsychotics, 1st Gen	001668	THIOTHIXENE
Antipsychotics, 1st Gen	001667	THIOTHIXENE HCL
Antipsychotics, 1st Gen	001630	TRIFLUOPERAZINE HCL
Antipsychotics, 2nd Gen	024551	ARIPIRAZOLE
Antipsychotics, 2nd Gen	036576	ASENAPINE MALEATE
Antipsychotics, 2nd Gen	042283	BREXPIRAZOLE
Antipsychotics, 2nd Gen	042552	CARIPRAZINE HCL
Antipsychotics, 2nd Gen	004834	CLOZAPINE
Antipsychotics, 2nd Gen	036778	ILOPERIDONE
Antipsychotics, 2nd Gen	037321	LURASIDONE HCL
Antipsychotics, 2nd Gen	011814	OLANZAPINE
Antipsychotics, 2nd Gen	034343	PALIPERIDONE
Antipsychotics, 2nd Gen	043373	PIMAVANSERIN TARTRATE
Antipsychotics, 2nd Gen	014015	QUETIAPINE FUMARATE
Antipsychotics, 2nd Gen	008721	RISPERIDONE
Antipsychotics, 2nd Gen	021974	ZIPRASIDONE HCL

Class	HSN	Drug
Antipsychotics, Parenteral	024551	ARIPIRAZOLE
Antipsychotics, Parenteral	042595	ARIPIRAZOLE LAUROXIL
Antipsychotics, Parenteral	001621	CHLORPROMAZINE HCL
Antipsychotics, Parenteral	001624	FLUPHENAZINE DECANOATE
Antipsychotics, Parenteral	001625	FLUPHENAZINE ENANTHATE
Antipsychotics, Parenteral	001626	FLUPHENAZINE HCL
Antipsychotics, Parenteral	001660	HALOPERIDOL DECANOATE
Antipsychotics, Parenteral	001661	HALOPERIDOL LACTATE
Antipsychotics, Parenteral	001663	LOXAPINE HCL
Antipsychotics, Parenteral	001635	MESORIDAZINE BESYLATE
Antipsychotics, Parenteral	011814	OLANZAPINE
Antipsychotics, Parenteral	036716	OLANZAPINE PAMOATE
Antipsychotics, Parenteral	036479	PALIPERIDONE PALMITATE
Antipsychotics, Parenteral	001627	PERPHENAZINE
Antipsychotics, Parenteral	001622	PROMAZINE HCL
Antipsychotics, Parenteral	025509	RISPERIDONE MICROSPHERES
Antipsychotics, Parenteral	001667	THIOTHIXENE HCL
Antipsychotics, Parenteral	001630	TRIFLUOPERAZINE HCL
Antipsychotics, Parenteral	001623	TRIFLUPROMAZINE HCL

Table A2: Mental Health Diagnosis Codes

Category	ICD Version	Code	Description
ADHD	9	3140	Attention deficit disorder of childhood
ADHD	9	31400	Attention deficit disorder without mention of hyperactivity
ADHD	9	31401	Attention deficit disorder with hyperactivity
ADHD	9	3149	Unspecified hyperkinetic syndrome
ADHD	10	F90	Attention-deficit hyperactivity disorders
ADHD	10	F900	Attention-deficit hyperactivity disorder, predominantly inattentive type
ADHD	10	F901	Attention-deficit hyperactivity disorder, predominantly hyperactive type
ADHD	10	F902	Attention-deficit hyperactivity disorder, combined type
ADHD	10	F908	Attention-deficit hyperactivity disorder, other type
ADHD	10	F909	Attention-deficit hyperactivity disorder, unspecified type
Adjustment and Acute Reactions	9	308	Acute reaction to stress
Adjustment and Acute Reactions	9	3080	Predominant disturbance of emotions
Adjustment and Acute Reactions	9	3081	Predominant disturbance of consciousness
Adjustment and Acute Reactions	9	3082	Predominant psychomotor disturbance
Adjustment and Acute Reactions	9	3083	Other acute reactions to stress
Adjustment and Acute Reactions	9	30830	DSM other acute reactions to stress
Adjustment and Acute Reactions	9	3084	Mixed disorders as reaction to stress
Adjustment and Acute Reactions	9	3089	Unspecified acute reaction to stress
Adjustment and Acute Reactions	9	309	Adjustment reaction
Adjustment and Acute Reactions	9	3090	Adjustment disorder with depressed mood
Adjustment and Acute Reactions	9	30900	DSM brief depressive reaction
Adjustment and Acute Reactions	9	3091	Prolonged depressive reaction
Adjustment and Acute Reactions	9	3092	Predominant disturbance other emotions as adjustment reaction
Adjustment and Acute Reactions	9	30921	Separation anxiety disorder
Adjustment and Acute Reactions	9	30922	Emancipation disorder of adolescence and early adult life
Adjustment and Acute Reactions	9	30923	Specific academic or work inhibition
Adjustment and Acute Reactions	9	30924	Adjustment disorder with anxiety
Adjustment and Acute Reactions	9	30928	Adjustment disorder with mixed anxiety and depressed mood
Adjustment and Acute Reactions	9	30929	Other adjustment reactions with predominant disturbance of other emotions
Adjustment and Acute Reactions	9	3093	Adjustment disorder with disturbance of conduct
Adjustment and Acute Reactions	9	30930	DSM adjustment reaction disorder
Adjustment and Acute Reactions	9	3094	Adjustment disorder with mixed disturbance of emotions and conduct
Adjustment and Acute Reactions	9	30940	DSM adjustment reaction disorder
Adjustment and Acute Reactions	9	3098	Other specified adjustment reactions
Adjustment and Acute Reactions	9	30982	Adjustment reaction with physical symptoms
Adjustment and Acute Reactions	9	30983	Adjustment reaction with withdrawal
Adjustment and Acute Reactions	9	30989	Other specified adjustment reactions
Adjustment and Acute Reactions	9	3099	Unspecified adjustment reaction
Adjustment and Acute Reactions	9	30990	DSM unspecified adjustment reaction
Adjustment and Acute Reactions	9	313	Disturbance emotions specific to childhood & adolescence
Adjustment and Acute Reactions	9	3130	Overanxious disorder specific to childhood & adolescence



Category	ICD Version	Code	Description
Adjustment and Acute Reactions	9	31300	DSM overanxious disorder of childhood & adolescence
Adjustment and Acute Reactions	9	3131	Misery and unhappiness disorder specific to childhood and adolescence
Adjustment and Acute Reactions	9	3132	Sensitivity shyness & social withdrawal disorder
Adjustment and Acute Reactions	9	31321	Shyness disorder of childhood
Adjustment and Acute Reactions	9	31322	Introverted disorder of childhood
Adjustment and Acute Reactions	9	31323	Selective mutism
Adjustment and Acute Reactions	9	3133	Relationship problems specific to childhood and adolescence
Adjustment and Acute Reactions	9	3138	Other/mixed emotional disturb child/adolescence
Adjustment and Acute Reactions	9	31381	Oppositional defiant disorder
Adjustment and Acute Reactions	9	31382	Identity disorder of childhood or adolescence
Adjustment and Acute Reactions	9	31383	Academic underachievement disorder of childhood or adolescence
Adjustment and Acute Reactions	9	31389	Other emotional disturbances of childhood or adolescence
Adjustment and Acute Reactions	9	3139	Unspecified emotional disturbance of childhood or adolescence
Adjustment and Acute Reactions	10	F06	Other mental disorders due to known physiological condition
Adjustment and Acute Reactions	10	F060	Psychotic disorder with hallucinations due to known physiological condition
Adjustment and Acute Reactions	10	F061	Catatonic disorder due to known physiological condition
Adjustment and Acute Reactions	10	F062	Psychotic disorder with delusions due to known physiological condition
Adjustment and Acute Reactions	10	F063	Mood disorder due to known physiological condition
Adjustment and Acute Reactions	10	F0630	Mood disorder due to known physiological condition, unspecified
Adjustment and Acute Reactions	10	F0631	Mood disorder due to known physiological condition with depressive features
Adjustment and Acute Reactions	10	F0632	Mood disorder due to known physiological condition with major depressive-like episode
Adjustment and Acute Reactions	10	F0633	Mood disorder due to known physiological condition with manic features
Adjustment and Acute Reactions	10	F0634	Mood disorder due to known physiological condition with mixed features
Adjustment and Acute Reactions	10	F064	Anxiety disorder due to known physiological condition
Adjustment and Acute Reactions	10	F068	Other specified mental disorders due to known physiological condition
Adjustment and Acute Reactions	10	F34	Persistent mood [affective] disorders
Adjustment and Acute Reactions	10	F340	Cyclothymic disorder
Adjustment and Acute Reactions	10	F341	Dysthymic disorder
Adjustment and Acute Reactions	10	F348	Other persistent mood [affective] disorders
Adjustment and Acute Reactions	10	F349	Persistent mood [affective] disorder, unspecified
Adjustment and Acute Reactions	10	F43	Reaction to severe stress, and adjustment disorders
Adjustment and Acute Reactions	10	F430	Acute stress reaction
Adjustment and Acute Reactions	10	F432	Adjustment disorders
Adjustment and Acute Reactions	10	F4320	Adjustment disorder, unspecified
Adjustment and Acute Reactions	10	F4321	Adjustment disorder with depressed mood
Adjustment and Acute Reactions	10	F4322	Adjustment disorder with anxiety
Adjustment and Acute Reactions	10	F4323	Adjustment disorder with mixed anxiety and depressed mood
Adjustment and Acute Reactions	10	F4324	Adjustment disorder with disturbance of conduct
Adjustment and Acute Reactions	10	F4325	Adjustment disorder with mixed disturbance of emotions and conduct
Adjustment and Acute Reactions	10	F4329	Adjustment disorder with other symptoms
Adjustment and Acute Reactions	10	F438	Other reactions to severe stress
Adjustment and Acute Reactions	10	F439	Reaction to severe stress, unspecified
Adjustment and Acute Reactions	10	F93	Emotional disorders with onset specific to childhood
Adjustment and Acute Reactions	10	F930	Separation anxiety disorder of childhood
Adjustment and Acute Reactions	10	F938	Other childhood emotional disorders

Category	ICD Version	Code	Description
Adjustment and Acute Reactions	10	F939	Childhood emotional disorder, unspecified
Adjustment and Acute Reactions	10	F94	Disorders of social functioning with onset specific to childhood and adolescence
Adjustment and Acute Reactions	10	F940	Selective mutism
Adjustment and Acute Reactions	10	F941	Reactive attachment disorder of childhood
Adjustment and Acute Reactions	10	F942	Disinhibited attachment disorder of childhood
Adjustment and Acute Reactions	10	F948	Other childhood disorders of social functioning
Adjustment and Acute Reactions	10	F949	Childhood disorder of social functioning, unspecified
Affective Disorders, Excluding Bipolar	9	2962	Major depressive disorder single episode
Affective Disorders, Excluding Bipolar	9	29620	Major depressive affective disorder, single episode, unspecified
Affective Disorders, Excluding Bipolar	9	29621	Major depressive affective disorder, single episode, mild
Affective Disorders, Excluding Bipolar	9	29622	Major depressive affective disorder, single episode, moderate
Affective Disorders, Excluding Bipolar	9	29623	Major depressive affective disorder, single episode, severe, without mention of psychotic behavior
Affective Disorders, Excluding Bipolar	9	29624	Major depressive affective disorder, single episode, severe, specified as with psychotic behavior
Affective Disorders, Excluding Bipolar	9	29625	Major depressive affective disorder, single episode, in partial or unspecified remission
Affective Disorders, Excluding Bipolar	9	29626	Major depressive affective disorder, single episode, in full remission
Affective Disorders, Excluding Bipolar	9	2963	Major depressive disorder recurrent episode
Affective Disorders, Excluding Bipolar	9	29630	Major depressive affective disorder, recurrent episode, unspecified
Affective Disorders, Excluding Bipolar	9	29631	Major depressive affective disorder, recurrent episode, mild
Affective Disorders, Excluding Bipolar	9	29632	Major depressive affective disorder, recurrent episode, moderate
Affective Disorders, Excluding Bipolar	9	29633	Major depressive affective disorder, recurrent episode, severe, without mention of psychotic behavior
Affective Disorders, Excluding Bipolar	9	29634	Major depressive affective disorder, recurrent episode, severe, specified as with psychotic behavior
Affective Disorders, Excluding Bipolar	9	29635	Major depressive affective disorder, recurrent episode, in partial or unspecified remission
Affective Disorders, Excluding Bipolar	9	29636	Major depressive affective disorder, recurrent episode, in full remission
Affective Disorders, Excluding Bipolar	9	2980	Depressive type psychosis
Affective Disorders, Excluding Bipolar	9	30000	Anxiety state, unspecified
Affective Disorders, Excluding Bipolar	9	30001	Panic disorder without agoraphobia
Affective Disorders, Excluding Bipolar	9	30002	Generalized anxiety disorder
Affective Disorders, Excluding Bipolar	9	30009	Other anxiety states
Affective Disorders, Excluding Bipolar	9	3004	Dysthymic disorder
Affective Disorders, Excluding Bipolar	9	30040	DSM neurotic depression
Affective Disorders, Excluding Bipolar	9	30113	Cyclothymic disorder
Affective Disorders, Excluding Bipolar	9	311	Depressive disorder, not elsewhere classified
Affective Disorders, Excluding Bipolar	10	F32	Major depressive disorder, single episode
Affective Disorders, Excluding Bipolar	10	F320	Major depressive disorder, single episode, mild
Affective Disorders, Excluding Bipolar	10	F321	Major depressive disorder, single episode, moderate
Affective Disorders, Excluding Bipolar	10	F322	Major depressive disorder, single episode, severe without psychotic features
Affective Disorders, Excluding Bipolar	10	F323	Major depressive disorder, single episode, severe with psychotic features
Affective Disorders, Excluding Bipolar	10	F324	Major depressive disorder, single episode, in partial remission
Affective Disorders, Excluding Bipolar	10	F325	Major depressive disorder, single episode, in full remission
Affective Disorders, Excluding Bipolar	10	F328	Other depressive episodes
Affective Disorders, Excluding Bipolar	10	F329	Major depressive disorder, single episode, unspecified
Affective Disorders, Excluding Bipolar	10	F33	Major depressive disorder, recurrent
Affective Disorders, Excluding Bipolar	10	F330	Major depressive disorder, recurrent, mild
Affective Disorders, Excluding Bipolar	10	F331	Major depressive disorder, recurrent, moderate
Affective Disorders, Excluding Bipolar	10	F332	Major depressive disorder, recurrent severe without psychotic features

Category	ICD Version	Code	Description
Affective Disorders, Excluding Bipolar	10	F333	Major depressive disorder, recurrent, severe with psychotic symptoms
Affective Disorders, Excluding Bipolar	10	F334	Major depressive disorder, recurrent, in remission
Affective Disorders, Excluding Bipolar	10	F3340	Major depressive disorder, recurrent, in remission, unspecified
Affective Disorders, Excluding Bipolar	10	F3341	Major depressive disorder, recurrent, in partial remission
Affective Disorders, Excluding Bipolar	10	F3342	Major depressive disorder, recurrent, in full remission
Affective Disorders, Excluding Bipolar	10	F338	Other recurrent depressive disorders
Affective Disorders, Excluding Bipolar	10	F339	Major depressive disorder, recurrent, unspecified
Affective Disorders, Excluding Bipolar	10	F41	Other anxiety disorders
Affective Disorders, Excluding Bipolar	10	F410	Panic disorder [episodic paroxysmal anxiety] without agoraphobia
Affective Disorders, Excluding Bipolar	10	F411	Generalized anxiety disorder
Affective Disorders, Excluding Bipolar	10	F413	Other mixed anxiety disorders
Affective Disorders, Excluding Bipolar	10	F418	Other specified anxiety disorders
Affective Disorders, Excluding Bipolar	10	F419	Anxiety disorder, unspecified
Autism Spectrum Disorders	9	2990	Autistic disorder
Autism Spectrum Disorders	9	29900	Autistic disorder, current or active state
Autism Spectrum Disorders	9	29901	Autistic disorder, residual state
Autism Spectrum Disorders	10	F840	Autistic disorder
Autism Spectrum Disorders	10	F845	Asperger's syndrome
Bipolar	9	2960	Bipolar I disorder single manic episode
Bipolar	9	2961	Manic disorder, recurrent episode
Bipolar	9	2964	Bipolar I disorder most recent episode manic
Bipolar	9	2965	Bipolar I disorder most recent episode depressed
Bipolar	9	2966	Bipolar I disorder most recent episode mixed
Bipolar	9	2967	Bipolar I disorder, most recent episode (or current) unspecified
Bipolar	9	2968	Other and unspecified bipolar disorders
Bipolar	10	F30	Manic episode
Bipolar	10	F301	Manic episode without psychotic symptoms
Bipolar	10	F3010	Manic episode without psychotic symptoms, unspecified
Bipolar	10	F3011	Manic episode without psychotic symptoms, mild
Bipolar	10	F3012	Manic episode without psychotic symptoms, moderate
Bipolar	10	F3013	Manic episode, severe, without psychotic symptoms
Bipolar	10	F302	Manic episode, severe with psychotic symptoms
Bipolar	10	F303	Manic episode in partial remission
Bipolar	10	F304	Manic episode in full remission
Bipolar	10	F308	Other manic episodes
Bipolar	10	F309	Manic episode, unspecified
Bipolar	10	F31	Bipolar disorder
Bipolar	10	F310	Bipolar disorder, current episode hypomanic
Bipolar	10	F311	Bipolar disorder, current episode manic without psychotic features
Bipolar	10	F3110	Bipolar disorder, current episode manic without psychotic features, unspecified
Bipolar	10	F3111	Bipolar disorder, current episode manic without psychotic features, mild
Bipolar	10	F3112	Bipolar disorder, current episode manic without psychotic features, moderate
Bipolar	10	F3113	Bipolar disorder, current episode manic without psychotic features, severe
Bipolar	10	F312	Bipolar disorder, current episode manic severe with psychotic features
Bipolar	10	F313	Bipolar disorder, current episode depressed, mild or moderate severity

Category	ICD Version	Code	Description
Bipolar	10	F3130	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified
Bipolar	10	F3131	Bipolar disorder, current episode depressed, mild
Bipolar	10	F3132	Bipolar disorder, current episode depressed, moderate
Bipolar	10	F314	Bipolar disorder, current episode depressed, severe, without psychotic features
Bipolar	10	F315	Bipolar disorder, current episode depressed, severe, with psychotic features
Bipolar	10	F316	Bipolar disorder, current episode mixed
Bipolar	10	F3160	Bipolar disorder, current episode mixed, unspecified
Bipolar	10	F3161	Bipolar disorder, current episode mixed, mild
Bipolar	10	F3162	Bipolar disorder, current episode mixed, moderate
Bipolar	10	F3163	Bipolar disorder, current episode mixed, severe, without psychotic features
Bipolar	10	F3164	Bipolar disorder, current episode mixed, severe, with psychotic features
Bipolar	10	F317	Bipolar disorder, currently in remission
Bipolar	10	F3170	Bipolar disorder, currently in remission, most recent episode unspecified
Bipolar	10	F3171	Bipolar disorder, in partial remission, most recent episode hypomanic
Bipolar	10	F3172	Bipolar disorder, in full remission, most recent episode hypomanic
Bipolar	10	F3173	Bipolar disorder, in partial remission, most recent episode manic
Bipolar	10	F3174	Bipolar disorder, in full remission, most recent episode manic
Bipolar	10	F3175	Bipolar disorder, in partial remission, most recent episode depressed
Bipolar	10	F3176	Bipolar disorder, in full remission, most recent episode depressed
Bipolar	10	F3177	Bipolar disorder, in partial remission, most recent episode mixed
Bipolar	10	F3178	Bipolar disorder, in full remission, most recent episode mixed
Bipolar	10	F318	Other bipolar disorders
Bipolar	10	F3181	Bipolar II disorder
Bipolar	10	F3189	Other bipolar disorder
Bipolar	10	F319	Bipolar disorder, unspecified
Developmental Disorders	9	315	Specific delays in development
Developmental Disorders	9	3150	Specific developmental reading disorder
Developmental Disorders	9	31500	Developmental reading disorder, unspecified
Developmental Disorders	9	31501	Alexia
Developmental Disorders	9	31502	Developmental dyslexia
Developmental Disorders	9	31509	Other specific developmental reading disorder
Developmental Disorders	9	3151	Mathematics disorder
Developmental Disorders	9	31510	DSM specific arithmetic disorder
Developmental Disorders	9	3152	Other specific developmental learning difficulties
Developmental Disorders	9	3153	Developmental speech or language disorder
Developmental Disorders	9	31531	Expressive language disorder
Developmental Disorders	9	31532	Mixed receptive-expressive language disorder
Developmental Disorders	9	31534	Speech and language developmental delay due to hearing loss
Developmental Disorders	9	31535	Childhood onset fluency disorder
Developmental Disorders	9	31539	Other developmental speech or language disorder
Developmental Disorders	9	3154	Developmental coordination disorder
Developmental Disorders	9	3155	Mixed development disorder
Developmental Disorders	9	31550	DSM mixed specific develop dis
Developmental Disorders	9	3158	Other specified delays in development
Developmental Disorders	9	3159	Unspecified delay in development

Category	ICD Version	Code	Description
Developmental Disorders	9	31590	DSM unspecified delays in development
Developmental Disorders	9	316	Psychic factors associated with diseases classified elsewhere
Developmental Disorders	9	3160	Psychic factors associated with diseases classified elsewhere
Developmental Disorders	9	31600	DSM psychic factors associated with diseases classified elsewhere
Developmental Disorders	9	317	Mild intellectual disabilities
Developmental Disorders	9	318	Other specified mental retardation
Developmental Disorders	9	3180	Moderate intellectual disabilities
Developmental Disorders	9	31800	DSM moderate mental retardation
Developmental Disorders	9	3181	Severe intellectual disabilities
Developmental Disorders	9	31810	DSM severe mental retardation
Developmental Disorders	9	3182	Profound intellectual disabilities
Developmental Disorders	9	31820	DSM profound mental retardation
Developmental Disorders	9	319	Unspecified intellectual disabilities
Developmental Disorders	10	F80	Specific developmental disorders of speech and language
Developmental Disorders	10	F800	Phonological disorder
Developmental Disorders	10	F801	Expressive language disorder
Developmental Disorders	10	F802	Mixed receptive-expressive language disorder
Developmental Disorders	10	F804	Speech and language development delay due to hearing loss
Developmental Disorders	10	F808	Other developmental disorders of speech and language
Developmental Disorders	10	F8081	Childhood onset fluency disorder
Developmental Disorders	10	F8089	Other developmental disorders of speech and language
Developmental Disorders	10	F809	Developmental disorder of speech and language, unspecified
Developmental Disorders	10	F81	Specific developmental disorders of scholastic skills
Developmental Disorders	10	F810	Specific reading disorder
Developmental Disorders	10	F812	Mathematics disorder
Developmental Disorders	10	F818	Other developmental disorders of scholastic skills
Developmental Disorders	10	F8181	Disorder of written expression
Developmental Disorders	10	F8189	Other developmental disorders of scholastic skills
Developmental Disorders	10	F819	Developmental disorder of scholastic skills, unspecified
Developmental Disorders	10	F82	Specific developmental disorder of motor function
Developmental Disorders	10	F84	Pervasive developmental disorders
Developmental Disorders	10	F842	Rett's syndrome
Developmental Disorders	10	F843	Other childhood disintegrative disorder
Developmental Disorders	10	F848	Other pervasive developmental disorders
Developmental Disorders	10	F849	Pervasive developmental disorder, unspecified
Developmental Disorders	10	F88	Other disorders of psychological development
Developmental Disorders	10	F89	Unspecified disorder of psychological development
Disruptive Behavior Disorders	9	3120	Undersocialized conduct disorder aggressive type
Disruptive Behavior Disorders	9	31200	Undersocialized conduct disorder, aggressive type, unspecified
Disruptive Behavior Disorders	9	31201	Undersocialized conduct disorder, aggressive type, mild
Disruptive Behavior Disorders	9	31202	Undersocialized conduct disorder, aggressive type, moderate
Disruptive Behavior Disorders	9	31203	Undersocialized conduct disorder, aggressive type, severe
Disruptive Behavior Disorders	9	3121	Undersocialized conduct disorder unaggressive
Disruptive Behavior Disorders	9	31210	Undersocialized conduct disorder, unaggressive type, unspecified
Disruptive Behavior Disorders	9	31211	Undersocialized conduct disorder, unaggressive type, mild

Category	ICD Version	Code	Description
Disruptive Behavior Disorders	9	31212	Undersocialized conduct disorder, unaggressive type, moderate
Disruptive Behavior Disorders	9	31213	Undersocialized conduct disorder, unaggressive type, severe
Disruptive Behavior Disorders	9	3122	Socialized conduct disorder
Disruptive Behavior Disorders	9	31220	Socialized conduct disorder, unspecified
Disruptive Behavior Disorders	9	31221	Socialized conduct disorder, mild
Disruptive Behavior Disorders	9	31222	Socialized conduct disorder, moderate
Disruptive Behavior Disorders	9	31223	Socialized conduct disorder, severe
Disruptive Behavior Disorders	9	3123	Disorders of impulse control NEC
Disruptive Behavior Disorders	9	31230	Impulse control disorder, unspecified
Disruptive Behavior Disorders	9	31231	Pathological gambling
Disruptive Behavior Disorders	9	31232	Kleptomania
Disruptive Behavior Disorders	9	31233	Pyromania
Disruptive Behavior Disorders	9	31234	Intermittent explosive disorder
Disruptive Behavior Disorders	9	31235	Isolated explosive disorder
Disruptive Behavior Disorders	9	31239	Other disorders of impulse control
Disruptive Behavior Disorders	9	3124	Mixed disturbance of conduct and emotions
Disruptive Behavior Disorders	9	3128	Other specified disturbances of conduct NEC
Disruptive Behavior Disorders	9	31281	Conduct disorder, childhood onset type
Disruptive Behavior Disorders	9	31282	Conduct disorder, adolescent onset type
Disruptive Behavior Disorders	9	31289	Other conduct disorder
Disruptive Behavior Disorders	9	3129	Unspecified disturbance of conduct
Disruptive Behavior Disorders	9	V40	Mental and behavioral problems
Disruptive Behavior Disorders	9	V403	Other behavioral problems
Disruptive Behavior Disorders	9	V4039	Other specified behavioral problem
Disruptive Behavior Disorders	9	V409	Unspecified mental or behavioral problem
Disruptive Behavior Disorders	10	F63	Impulse disorders
Disruptive Behavior Disorders	10	F630	Pathological gambling
Disruptive Behavior Disorders	10	F631	Pyromania
Disruptive Behavior Disorders	10	F632	Kleptomania
Disruptive Behavior Disorders	10	F633	Trichotillomania
Disruptive Behavior Disorders	10	F638	Other impulse disorders
Disruptive Behavior Disorders	10	F6381	Intermittent explosive disorder
Disruptive Behavior Disorders	10	F6389	Other impulse disorders
Disruptive Behavior Disorders	10	F639	Impulse disorder, unspecified
Disruptive Behavior Disorders	10	F91	Conduct disorders
Disruptive Behavior Disorders	10	F910	Conduct disorder confined to family context
Disruptive Behavior Disorders	10	F911	Conduct disorder, childhood-onset type
Disruptive Behavior Disorders	10	F912	Conduct disorder, adolescent-onset type
Disruptive Behavior Disorders	10	F913	Oppositional defiant disorder
Disruptive Behavior Disorders	10	F918	Other conduct disorders
Disruptive Behavior Disorders	10	F919	Conduct disorder, unspecified
Other Mental Health Diagnosis	9	2930	Delirium due to conditions classified elsewhere
Other Mental Health Diagnosis	9	2931	Subacute delirium
Other Mental Health Diagnosis	9	3003	Obsessive-compulsive disorders
Other Mental Health Diagnosis	9	30081	Somatization disorder

Category	ICD Version	Code	Description
Other Mental Health Diagnosis	9	30082	Undifferentiated somatoform disorder
Other Mental Health Diagnosis	9	3009	Unspecified nonpsychotic mental disorder
Other Mental Health Diagnosis	9	3014	Obsessive-compulsive personality disorder
Other Mental Health Diagnosis	9	306	Physiological malfunction arise from mental factors
Other Mental Health Diagnosis	9	3060	Musculoskeletal malfunction arising from mental factors
Other Mental Health Diagnosis	9	3061	Respiratory malfunction arising from mental factors
Other Mental Health Diagnosis	9	3062	Cardiovascular malfunction arising from mental factors
Other Mental Health Diagnosis	9	3063	Skin disorder arising from mental factors
Other Mental Health Diagnosis	9	3064	Gastrointestinal malfunction arising from mental factors
Other Mental Health Diagnosis	9	3066	Endocrine disorder arising from mental factors
Other Mental Health Diagnosis	9	3067	Disorder of organs of special sense arising from mental factors
Other Mental Health Diagnosis	9	3068	Other specified psychophysiological malfunction
Other Mental Health Diagnosis	9	3069	Unspecified psychophysiological malfunction
Other Mental Health Diagnosis	9	3071	Anorexia nervosa
Other Mental Health Diagnosis	9	30751	Bulimia nervosa
Other Mental Health Diagnosis	9	3077	Encopresis
Other Mental Health Diagnosis	9	V6284	Suicidal ideation
Other Mental Health Diagnosis	10	F05	Delirium due to known physiological condition
Other Mental Health Diagnosis	10	F42	Obsessive-compulsive disorder
Other Mental Health Diagnosis	10	F45	Somatoform disorders
Other Mental Health Diagnosis	10	F450	Somatization disorder
Other Mental Health Diagnosis	10	F451	Undifferentiated somatoform disorder
Other Mental Health Diagnosis	10	F452	Hypochondriacal disorders
Other Mental Health Diagnosis	10	F4520	Hypochondriacal disorder, unspecified
Other Mental Health Diagnosis	10	F4521	Hypochondriasis
Other Mental Health Diagnosis	10	F4522	Body dysmorphic disorder
Other Mental Health Diagnosis	10	F4529	Other hypochondriacal disorders
Other Mental Health Diagnosis	10	F454	Pain disorders related to psychological factors
Other Mental Health Diagnosis	10	F4541	Pain disorder exclusively related to psychological factors
Other Mental Health Diagnosis	10	F4542	Pain disorder with related psychological factors
Other Mental Health Diagnosis	10	F458	Other somatoform disorders
Other Mental Health Diagnosis	10	F459	Somatoform disorder, unspecified
Other Mental Health Diagnosis	10	F500	Anorexia nervosa
Other Mental Health Diagnosis	10	F5000	Anorexia nervosa, unspecified
Other Mental Health Diagnosis	10	F5001	Anorexia nervosa, restricting type
Other Mental Health Diagnosis	10	F5002	Anorexia nervosa, binge eating/purging type
Other Mental Health Diagnosis	10	F502	Bulimia nervosa
Other Mental Health Diagnosis	10	F981	Encopresis not due to a substance or known physiological condition
Other Mental Health Diagnosis	10	R4585	Homicidal and suicidal ideations
Other Mental Health Diagnosis	10	R45850	Homicidal ideations
Other Mental Health Diagnosis	10	R45851	Suicidal ideations
Other Psychotic Disorders	9	2938	Other spec transient mental d/o due conditions classified elsewhere
Other Psychotic Disorders	9	29381	Psychotic disorder with delusions in conditions classified elsewhere
Other Psychotic Disorders	9	29382	Psychotic disorder with hallucinations in conditions classified elsewhere
Other Psychotic Disorders	9	29383	Mood disorder in conditions classified elsewhere

Category	ICD Version	Code	Description
Other Psychotic Disorders	9	29384	Anxiety disorder in conditions classified elsewhere
Other Psychotic Disorders	9	29389	Other specified transient mental disorders due to conditions classified elsewhere, other
Other Psychotic Disorders	9	2969	Other and unspecified episodic mood disorder
Other Psychotic Disorders	9	29690	Unspecified episodic mood disorder
Other Psychotic Disorders	9	29699	Other specified episodic mood disorder
Other Psychotic Disorders	9	2971	Delusional disorder
Other Psychotic Disorders	9	2973	Shared psychotic disorder
Other Psychotic Disorders	9	2978	Other specified paranoid states
Other Psychotic Disorders	9	2979	Unspecified paranoid state
Other Psychotic Disorders	9	2981	Excitatory type psychosis
Other Psychotic Disorders	9	2983	Acute paranoid reaction
Other Psychotic Disorders	9	2988	Other and unspecified reactive psychosis
Other Psychotic Disorders	9	2989	Unspecified psychosis
Other Psychotic Disorders	9	29890	DSM unspecified atypical psychosis
Other Psychotic Disorders	9	29910	Childhood disintegrative disorder, current or active state
Other Psychotic Disorders	9	2998	Other spec pervasive developmental disorders
Other Psychotic Disorders	9	29980	Other specified pervasive developmental disorders, current or active state
Other Psychotic Disorders	9	29981	Other specified pervasive developmental disorders, residual state
Other Psychotic Disorders	9	29990	Unspecified pervasive developmental disorder, current or active state
Other Psychotic Disorders	9	29991	Unspecified pervasive developmental disorder, residual state
Other Psychotic Disorders	9	3108	Other nonpsychotic mental disorder following organic brain damage
Other Psychotic Disorders	9	3109	Unspecified nonpsychotic mental disorder following organic brain damage
Other Psychotic Disorders	10	F22	Delusional disorders
Other Psychotic Disorders	10	F23	Brief psychotic disorder
Other Psychotic Disorders	10	F24	Shared psychotic disorder
Other Psychotic Disorders	10	F28	Other psychotic disorder not due to a substance or known physiological condition
Other Psychotic Disorders	10	F29	Unspecified psychosis not due to a substance or known physiological condition
Personality Disorders	9	3010	Paranoid personality disorder
Personality Disorders	9	30110	Affective personality disorder, unspecified
Personality Disorders	9	30112	Chronic depressive personality disorder
Personality Disorders	9	3013	Explosive personality disorder
Personality Disorders	9	30150	Histrionic personality disorder, unspecified
Personality Disorders	9	30159	Other histrionic personality disorder
Personality Disorders	9	3016	Dependent personality disorder
Personality Disorders	9	3017	Antisocial personality disorder
Personality Disorders	9	3018	Other personality disorders
Personality Disorders	9	30181	Narcissistic personality disorder
Personality Disorders	9	30182	Avoidant personality disorder
Personality Disorders	9	30183	Borderline personality disorder
Personality Disorders	9	30184	Passive-aggressive personality
Personality Disorders	9	30189	Other personality disorders
Personality Disorders	9	3019	Unspecified personality disorder
Personality Disorders	10	F60	Specific personality disorders
Personality Disorders	10	F600	Paranoid personality disorder
Personality Disorders	10	F601	Schizoid personality disorder



Category	ICD Version	Code	Description
Personality Disorders	10	F602	Antisocial personality disorder
Personality Disorders	10	F603	Borderline personality disorder
Personality Disorders	10	F604	Histrionic personality disorder
Personality Disorders	10	F605	Obsessive-compulsive personality disorder
Personality Disorders	10	F606	Avoidant personality disorder
Personality Disorders	10	F607	Dependent personality disorder
Personality Disorders	10	F608	Other specific personality disorders
Personality Disorders	10	F6081	Narcissistic personality disorder
Personality Disorders	10	F6089	Other specific personality disorders
Personality Disorders	10	F609	Personality disorder, unspecified
PTSD	9	30981	Posttraumatic stress disorder
PTSD	10	F431	Post-traumatic stress disorder (PTSD)
PTSD	10	F4310	Post-traumatic stress disorder, unspecified
PTSD	10	F4311	Post-traumatic stress disorder, acute
PTSD	10	F4312	Post-traumatic stress disorder, chronic
Schizophrenia	9	295	Schizophrenic disorders
Schizophrenia	9	2950	Simple type schizophrenia
Schizophrenia	9	29500	Simple type schizophrenia, unspecified
Schizophrenia	9	29501	Simple type schizophrenia, subchronic
Schizophrenia	9	29502	Simple type schizophrenia, chronic
Schizophrenia	9	29503	Simple type schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29504	Simple type schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29505	Simple type schizophrenia, in remission
Schizophrenia	9	2951	Disorganized type schizophrenia
Schizophrenia	9	29510	Disorganized type schizophrenia, unspecified
Schizophrenia	9	29511	Disorganized type schizophrenia, subchronic
Schizophrenia	9	29512	Disorganized type schizophrenia, chronic
Schizophrenia	9	29513	Disorganized type schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29514	Disorganized type schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29515	Disorganized type schizophrenia, in remission
Schizophrenia	9	2952	Catatonic type schizophrenia
Schizophrenia	9	29520	Catatonic type schizophrenia, unspecified
Schizophrenia	9	29521	Catatonic type schizophrenia, subchronic
Schizophrenia	9	29522	Catatonic type schizophrenia, chronic
Schizophrenia	9	29523	Catatonic type schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29524	Catatonic type schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29525	Catatonic type schizophrenia, in remission
Schizophrenia	9	2953	Paranoid type schizophrenia
Schizophrenia	9	29530	Paranoid type schizophrenia, unspecified
Schizophrenia	9	29531	Paranoid type schizophrenia, subchronic
Schizophrenia	9	29532	Paranoid type schizophrenia, chronic
Schizophrenia	9	29533	Paranoid type schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29534	Paranoid type schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29535	Paranoid type schizophrenia, in remission
Schizophrenia	9	2954	Schizophreniform disorder

Category	ICD Version	Code	Description
Schizophrenia	9	29540	Schizophreniform disorder, unspecified
Schizophrenia	9	29541	Schizophreniform disorder, subchronic
Schizophrenia	9	29542	Schizophreniform disorder, chronic
Schizophrenia	9	29543	Schizophreniform disorder, subchronic with acute exacerbation
Schizophrenia	9	29544	Schizophreniform disorder, chronic with acute exacerbation
Schizophrenia	9	29545	Schizophreniform disorder, in remission
Schizophrenia	9	2955	Latent schizophrenia
Schizophrenia	9	29550	Latent schizophrenia, unspecified
Schizophrenia	9	29551	Latent schizophrenia, subchronic
Schizophrenia	9	29552	Latent schizophrenia, chronic
Schizophrenia	9	29553	Latent schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29554	Latent schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29555	Latent schizophrenia, in remission
Schizophrenia	9	2956	Schizophrenic disorders residual type
Schizophrenia	9	29560	Schizophrenic disorders, residual type, unspecified
Schizophrenia	9	29561	Schizophrenic disorders, residual type, subchronic
Schizophrenia	9	29562	Schizophrenic disorders, residual type, chronic
Schizophrenia	9	29563	Schizophrenic disorders, residual type, subchronic with acute exacerbation
Schizophrenia	9	29564	Schizophrenic disorders, residual type, chronic with acute exacerbation
Schizophrenia	9	29565	Schizophrenic disorders, residual type, in remission
Schizophrenia	9	2957	Schizoaffective disorder
Schizophrenia	9	29570	Schizoaffective disorder, unspecified
Schizophrenia	9	29571	Schizoaffective disorder, subchronic
Schizophrenia	9	29572	Schizoaffective disorder, chronic
Schizophrenia	9	29573	Schizoaffective disorder, subchronic with acute exacerbation
Schizophrenia	9	29574	Schizoaffective disorder, chronic with acute exacerbation
Schizophrenia	9	29575	Schizoaffective disorder, in remission
Schizophrenia	9	2958	Other specified types of schizophrenia
Schizophrenia	9	29580	Other specified types of schizophrenia, unspecified
Schizophrenia	9	29581	Other specified types of schizophrenia, subchronic
Schizophrenia	9	29582	Other specified types of schizophrenia, chronic
Schizophrenia	9	29583	Other specified types of schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29584	Other specified types of schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29585	Other specified types of schizophrenia, in remission
Schizophrenia	9	2959	Unspecified schizophrenia
Schizophrenia	9	29590	Unspecified schizophrenia, unspecified
Schizophrenia	9	29591	Unspecified schizophrenia, subchronic
Schizophrenia	9	29592	Unspecified schizophrenia, chronic
Schizophrenia	9	29593	Unspecified schizophrenia, subchronic with acute exacerbation
Schizophrenia	9	29594	Unspecified schizophrenia, chronic with acute exacerbation
Schizophrenia	9	29595	Unspecified schizophrenia, in remission
Schizophrenia	10	F20	Schizophrenia
Schizophrenia	10	F200	Paranoid schizophrenia
Schizophrenia	10	F201	Disorganized schizophrenia
Schizophrenia	10	F202	Catatonic schizophrenia

Category	ICD Version	Code	Description
Schizophrenia	10	F203	Undifferentiated schizophrenia
Schizophrenia	10	F205	Residual schizophrenia
Schizophrenia	10	F208	Other schizophrenia
Schizophrenia	10	F2081	Schizophreniform disorder
Schizophrenia	10	F2089	Other schizophrenia
Schizophrenia	10	F209	Schizophrenia, unspecified
Schizophrenia	10	F21	Schizotypal disorder
Schizophrenia	10	F25	Schizoaffective disorders
Schizophrenia	10	F250	Schizoaffective disorder, bipolar type
Schizophrenia	10	F251	Schizoaffective disorder, depressive type
Schizophrenia	10	F258	Other schizoaffective disorders
Schizophrenia	10	F259	Schizoaffective disorder, unspecified
Sleep Disorders	9	3074	Specific disorders of sleep of nonorganic origin
Sleep Disorders	9	30740	Nonorganic sleep disorder, unspecified
Sleep Disorders	9	30741	Transient disorder of initiating or maintaining sleep
Sleep Disorders	9	30742	Persistent disorder of initiating or maintaining sleep
Sleep Disorders	9	30745	Circadian rhythm sleep disorder of nonorganic origin
Sleep Disorders	9	30746	Sleep arousal disorder
Sleep Disorders	9	30747	Other dysfunctions of sleep stages or arousal from sleep
Sleep Disorders	9	30748	Repetitive intrusions of sleep
Sleep Disorders	9	30749	Other specific disorders of sleep of nonorganic origin
Sleep Disorders	9	327	Organic sleep disorders
Sleep Disorders	9	3270	Organic disorders initiating & maintaining sleep
Sleep Disorders	9	32730	Circadian rhythm sleep disorder, unspecified
Sleep Disorders	9	32731	Circadian rhythm sleep disorder, delayed sleep phase type
Sleep Disorders	9	32732	Circadian rhythm sleep disorder, advanced sleep phase type
Sleep Disorders	9	32733	Circadian rhythm sleep disorder, irregular sleep-wake type
Sleep Disorders	9	32734	Circadian rhythm sleep disorder, free-running type
Sleep Disorders	9	32735	Circadian rhythm sleep disorder, jet lag type
Sleep Disorders	9	32737	Circadian rhythm sleep disorder in conditions classified elsewhere
Sleep Disorders	9	32739	Other circadian rhythm sleep disorder
Sleep Disorders	9	7805	Sleep disturbances
Sleep Disorders	9	78050	Sleep disturbance, unspecified
Sleep Disorders	9	V694	Lack of adequate sleep
Sleep Disorders	10	F51	Sleep disorders not due to a substance or known physiological condition
Sleep Disorders	10	F510	Insomnia not due to a substance or known physiological condition
Sleep Disorders	10	F5101	Primary insomnia
Sleep Disorders	10	F5102	Adjustment insomnia
Sleep Disorders	10	F5103	Paradoxical insomnia
Sleep Disorders	10	F5104	Psychophysiologic insomnia
Sleep Disorders	10	F5105	Insomnia due to other mental disorder
Sleep Disorders	10	F5109	Other insomnia not due to a substance or known physiological condition
Sleep Disorders	10	F511	Hypersomnia not due to a substance or known physiological condition
Sleep Disorders	10	F5111	Primary hypersomnia
Sleep Disorders	10	F5112	Insufficient sleep syndrome

Category	ICD Version	Code	Description
Sleep Disorders	10	F5113	Hypersomnia due to other mental disorder
Sleep Disorders	10	F5119	Other hypersomnia not due to a substance or known physiological condition
Sleep Disorders	10	F513	Sleepwalking [somnambulism]
Sleep Disorders	10	F514	Sleep terrors [night terrors]
Sleep Disorders	10	F515	Nightmare disorder
Sleep Disorders	10	F518	Other sleep disorders not due to a substance or known physiological condition
Sleep Disorders	10	F519	Sleep disorder not due to a substance or known physiological condition, unspecified
Sleep Disorders	10	G47	Sleep disorders
Sleep Disorders	10	G470	Insomnia
Sleep Disorders	10	G4700	Insomnia, unspecified
Sleep Disorders	10	G4701	Insomnia due to medical condition
Sleep Disorders	10	G4709	Other insomnia
Sleep Disorders	10	G471	Hypersomnia
Sleep Disorders	10	G4710	Hypersomnia, unspecified
Sleep Disorders	10	G4711	Idiopathic hypersomnia with long sleep time
Sleep Disorders	10	G4712	Idiopathic hypersomnia without long sleep time
Sleep Disorders	10	G4713	Recurrent hypersomnia
Sleep Disorders	10	G4714	Hypersomnia due to medical condition
Sleep Disorders	10	G4719	Other hypersomnia
Sleep Disorders	10	G472	Circadian rhythm sleep disorders
Sleep Disorders	10	G4720	Circadian rhythm sleep disorder, unspecified type
Sleep Disorders	10	G4721	Circadian rhythm sleep disorder, delayed sleep phase type
Sleep Disorders	10	G4722	Circadian rhythm sleep disorder, advanced sleep phase type
Sleep Disorders	10	G4723	Circadian rhythm sleep disorder, irregular sleep wake type
Sleep Disorders	10	G4724	Circadian rhythm sleep disorder, free running type
Sleep Disorders	10	G4725	Circadian rhythm sleep disorder, jet lag type
Sleep Disorders	10	G4726	Circadian rhythm sleep disorder, shift work type
Sleep Disorders	10	G4727	Circadian rhythm sleep disorder in conditions classified elsewhere
Sleep Disorders	10	G4729	Other circadian rhythm sleep disorder
Sleep Disorders	10	G473	Sleep apnea
Sleep Disorders	10	G4730	Sleep apnea, unspecified
Sleep Disorders	10	G4731	Primary central sleep apnea
Sleep Disorders	10	G4732	High altitude periodic breathing
Sleep Disorders	10	G4733	Obstructive sleep apnea (adult) (pediatric)
Sleep Disorders	10	G4734	Idiopathic sleep related non obstructive alveolar hypoventilation
Sleep Disorders	10	G4735	Congenital central alveolar hypoventilation syndrome
Sleep Disorders	10	G4736	Sleep related hypoventilation in conditions classified elsewhere
Sleep Disorders	10	G4737	Central sleep apnea in conditions classified elsewhere
Sleep Disorders	10	G4739	Other sleep apnea
Sleep Disorders	10	G474	Narcolepsy and cataplexy
Sleep Disorders	10	G4741	Narcolepsy
Sleep Disorders	10	G47411	Narcolepsy with cataplexy
Sleep Disorders	10	G47419	Narcolepsy without cataplexy
Sleep Disorders	10	G4742	Narcolepsy in conditions classified elsewhere
Sleep Disorders	10	G47421	Narcolepsy in conditions classified elsewhere with cataplexy

Category	ICD Version	Code	Description
Sleep Disorders	10	G47429	Narcolepsy in conditions classified elsewhere without cataplexy
Sleep Disorders	10	G475	Parasomnia
Sleep Disorders	10	G4750	Parasomnia, unspecified
Sleep Disorders	10	G4751	Confusional arousals
Sleep Disorders	10	G4752	REM sleep behavior disorder
Sleep Disorders	10	G4753	Recurrent isolated sleep paralysis
Sleep Disorders	10	G4754	Parasomnia in conditions classified elsewhere
Sleep Disorders	10	G4759	Other parasomnia
Sleep Disorders	10	G476	Sleep related movement disorders
Sleep Disorders	10	G4761	Periodic limb movement disorder
Sleep Disorders	10	G4762	Sleep related leg cramps
Sleep Disorders	10	G4763	Sleep related bruxism
Sleep Disorders	10	G4769	Other sleep related movement disorders
Sleep Disorders	10	G478	Other sleep disorders
Sleep Disorders	10	G479	Sleep disorder, unspecified

## Appendix 2 - Oregon DHS Psychotropic Medication Reference Chart <sup>13</sup>

\*\*This chart was compiled by DHS personnel and includes “off label” recommendations\*\*

Generic Name (Brand Name)	Age Parameters
<b>Category I: ADHD Medications: Stimulants, Non-Stimulant and Alpha Agonist Medications</b>	
<i>Expected benefits include: increased ability to focus, decreased distractibility, decreased impulsivity, decreased hyperactivity</i>	
Methylphenidate (Ritalin, Methylin, Metadate)	Ages 6 and older
Methylphenidate ER (Concerta, Metadate ER, Quillichew ER)	
Amphetamine - Dextroamphetamine (Adderall)	Ages 3 and older
Dextroamphetamine (Dexedrine)	Ages 3 and older
Dexmethylphenidate (Focalin)	Ages 6 and older
Lisdexamfetamine (Vyvanse)	Ages 6 and older
Atomoxetine (Strattera)	Weight based (no age range)
Clonidine extended release (Kapvay)	No age range
Guanfacine extended release (Intuniv)	No age range
<b>Category II: Antidepressants</b>	
<i>Used to treat depression, phobias, panic attacks, anxiety, eating disorders, obsessive-compulsive disorders, PTSD, and ADHD</i>	
Fluoxetine (Prozac)	Ages 7 and older
Paroxetine (Paxil)	No age range
Citalopram (Celexa)	No age range
Escitalopram (Lexapro)	No age range
Sertraline (Zoloft)	No age range
Bupropion (Wellbutrin)	No age range
Venlafaxine (Effexor)	No age range
Duloxetine (Cymbalta)	No age range
Desvenlafaxine (Pristiq)	No age range
Mirtazapine (Remeron)	No age range
Trazodone (Desyrel)	No age range
<b>Category III: Anti-Anxiety</b>	
<i>Used to treat sleep terror syndrome, anxiety, panic disorder, bi-polar disorder in adolescents, aggressive dyscontrol and tic disorders</i>	
Buspirone (Buspar)	No age range
Propranolol (Inderal)	No age range
Gabapentin (Neurontin)	Ages 3 and older
Diphenhydramine (Benadryl)	No age range
Hydroxyzine Hydrochloride (Atarax)	No age range
Hydroxyzine Pamoate (Vistaril)	No age range

Diazepam (Valium)	No age range
Clonazepam (Klonopin)	No age range
Lorazepam (Ativan)	No age range
Alprazolam (Xanax)	No age range
<b>Category IV: Mood Stabilizers</b>	
<i>Used to treat bi-polar disorder, excessive mood swings, aggressive behavior, impulse control disorder, and schizophrenia</i>	
Lithium (Carbolith, Eskalith, Lithobid)	No age range
Divalproex Sodium (Depakote)	No age range
Carbamazepine (Tegretol)	Ages 6 and older
Lamotrigine (Lamictal)	No age range
Topiramate (Topamax)	No age range
<b>Category V: Anti-Psychotics</b>	
<i>Used to treat schizophrenia, delusion, hallucinations, disorganized thinking, explosive aggression in conduct disorder, disruptive behavior, agitation in children with developmental delays (mental retardation, autism, etc.), tic disorders, Tourette's Syndrome, adolescent bi-polar disorders, early onset psychotic depression, disruptive behaviors, and agitation in children with traumatic brain injuries</i>	
Risperidone (Risperdal)	No age range
Olanzapine (Zyprexa)	No age range
Quetiapine (Seroquel)	No age range
Aripiprazole (Abilify)	Ages 10 and older
Ziprasidone (Geodon)	No age range
Clozapine (Clozaril)	No age range
Paliperidone (Invega)	No age range