

**Maximum Daily Dose (MDD)<sup>A,B,C</sup>: Medication Summary (DRAFT)**

For the purposes of the Medication Practice Guidelines, Maximum Daily Dose (MDD) is the maximum dose approved by the FDA and listed in the Manufacturer’s Package Insert.

Exceeding Maximum Daily Dose requires consultation with the Chiefs/Designee and there are two requirements: 1. Must document the rationale, 2. MDD may be exceeded by documentation of consultation with the Chiefs of Emergency Psychiatric Services, Barbara Aarons Pavilion, Outpatient County Clinics and the Contract Agencies or their designee in their absence.

**Patients ≥65 yo:** When initiating medication therapy for a new start, begin at a lower dose than standard dosage recommendation and titrate up slowly depending on the tolerability and efficacy, taking into consideration the side effect profile for all the patient’s medications.

**Patients 5-12 yo:** Evidence and experience indicates that psychopharmacologic treatments for children cannot be extrapolated from the studies conducted involving adult patients. Children and Adolescents have different central nervous system development, exhibit different cognitive, behavioral, and affective” norms” and are exposed to different environmental influences. All these factors influence the response to psychopharmacological treatment, efficacy as well as tolerability. As a result, providers should use prudence in prescribing psychiatric medications to children and adolescents. It is imperative that informed consent is obtained and documented prior to initiation of psychotropic medications.

“**Non-FDA approved**” means the use of the medication is currently not approved by the FDA. In general, many psychotropic agents are not approved for use in the Adolescent & Children. Prescribing of psychiatric medications for children up to age 12 or adolescents up to age 17, unless otherwise specified by the FDA, is limited to child psychiatrists or in consultation with a child psychiatrist.

**Alzheimer's Agents**

Generic Name	Brand Name	Adults	Adolescents & Children
Donepezil	Aricept	23 mg	non-FDA approved
Galantamine	Reminyl, <b>Razadyne ER</b>	24 mg	non-FDA approved
<b>Memantine</b>	<b>Namenda, Namenda XR</b>	20 mg, 28mg	non-FDA approved
Rivastigmine	Exelon <b>Exelon Patch</b>	12 mg 13.3mg	non-FDA approved
<b>Memantine/Donepezil</b>	<b>Namzaric</b>	28mgER/10	

**Antianxiety & Sedative/Hypnotic Agents**

Generic Name	Brand Name	Adults	Adolescents & Children
Alprazolam	Xanax	4 mg	non-FDA approved
	<b>Xanax XR</b>	6 mg	non-FDA approved
Buspirone	Buspar	60 mg	60 mg (≥6 yo)
Chlordiazepoxide	Librium	100 mg	30 mg (≥6 yo)
Clonazepam	Klonopin	4 mg	0.01 - 0.03 mg/kg
Clorazepate	<b>Tranxene; Tranxene SD</b>	90 mg	non-FDA approved
Diazepam	Valium	40 mg	10 mg (>6 mos.)
Diphenhydramine	Benadryl	300 mg	1 mg/kg (2-12 yo); 150mg (6-11 yo), 150 mg (>12 yo)

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Estazolam	<b>Prosom</b>	3 mg	non-FDA approved
Eszopiclone	<b>Lunesta</b>	2 mg	non-FDA approved
Flurazepam	<b>Dalmane</b>	30 mg	non-FDA approved
Hydroxyzine	Atarax (HCl); Vistaril (Pamoate)	600 mg	2 mg/kg (<6 yo); 100 mg (6-12 yo), >12yo adult dosing
Lorazepam	Ativan	10 mg	4 mg (≥12 yo)
Oxazepam	Serax	120 mg	120 mg (≥12 yo)
Quazepam	<b>Doral</b>	15 mg	non-FDA approved
Phenobarbital	Luminal	400 mg	6 mg/kg
Ramelteon	<b>Rozerem</b>	8 mg	non-FDA approved
Temazepam	Restoril	30 mg	non-FDA approved
Triazolam	Halcion	0.5 mg	non-FDA approved
Zaleplon	Sonata	20 mg	non-FDA approved
Zolpidem	Ambien	10 mg	non-FDA approved
	<b>Ambien CR</b>	12.5 mg	non-FDA approved

### Antidepressant Agents

Generic Name	Brand Name	Adults	Adolescents & Children
Amitriptyline	Elavil	300 mg	non-FDA approved
Amoxapine	Ascendin	400mg Outpatient, 600 mg Inpatient	non-FDA approved
Bupropion	Wellbutrin IR, Wellbutrin XL	450 mg	non-FDA approved
	Wellbutrin SR	400 mg	non-FDA approved
Citalopram	Celexa	40 mg	non-FDA approved
Clomipramine	Anafranil	250 mg	200 mg ≥10 yo
Desipramine	Norpramin	300 mg	150 mg ≥ 13 yo
Doxepin	Sinequan	300 mg	non-FDA approved
Duloxetine	Cymbalta	120 mg	60mg (7-17 yo)
Escitalopram	<b>Lexapro</b>	20 mg	<b>20 mg (&gt;7 yo)</b>
<b>Esketamine</b>	<b>Spravato</b>	<b>28 mg</b>	<b>non-FDA approved</b>
Fluoxetine	Prozac	80 mg	<b>60 mg (7-17 yo)</b>
Fluoxetine weekly	<b>Prozac Weekly</b>	90 mg	non-FDA approved
			<b>200 mg (8-17 yo); 300 mg (&gt;17 yo)</b>
Fluvoxamine	<b>Luvox, Luvox ER</b>	300 mg	
Imipramine	Tofranil	300 mg	<b>50 mg (6-12 yo); 75mg (≥13 yo)</b>
Isocarboxazid	Marplan	60 mg	non-FDA approved
Mirtazapine	Remeron, <b>Remeron ODT</b>	45 mg	non-FDA approved
Nefazodone	<b>Nefazodone (Generic Available in US)</b>	600 mg	non-FDA approved
Nortriptyline	Pamelor	150 mg	non-FDA approved

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Paroxetine	Paxil	60 mg	<b>non-FDA approved</b>
	<b>Paxil CR</b>	75 mg	non-FDA approved
Phenelzine	Nardil	90 mg	non-FDA approved
Protriptyline	<b>Vivactil</b>	60 mg	non-FDA approved
Sertraline	Zoloft	200 mg	200 mg (6-17 yo)
Tranlycypromine	Parnate	60 mg	non-FDA approved
Trazodone	Desyrel	600 mg	<b>non-FDA approved</b>
<b>Trazodone ER</b>	<b>Oleptro</b>	<b>375mg</b>	<b>non-FDA approved</b>
Venlafaxine	Effexor	375 mg	non-FDA approved
	Effexor SR	225 mg	non-FDA approved
<b>Vilazodone</b>	<b>Viibryd</b>	<b>40 mg</b>	<b>non-FDA approved</b>
<b>Vortioxetine</b>	<b>Trintellix</b>	<b>20 mg</b>	<b>non-FDA approved</b>

### Antiparkinson Agents

Generic Name	Brand Name	Adults	Adolescents & Children
Amantadine	Symmetrel	300 mg	non-FDA approved
Benzotropine	Cogentin	<b>6 mg</b>	<b>4 mg (&gt;3 yo)</b>
Diphenhydramine	Benadryl	<b>300 mg PO, 400 mg IM/IV</b>	<b>150 mg (6-11 yo), 300mg PO (≥12yo) and 400 mg IM/IV</b>
Trihexyphenidyl	Artane	15 mg	non-FDA approved

### Antipsychotic Agents-Atypicals

Generic Name	Brand Name	Adults	Adolescents & Children
Aripiprazole	<b>Abilify, Abilify Dismelt</b>	30 mg	30 mg (10-17 yo)
	<b>Abilify Intramuscular</b>	30 mg	non-FDA approved
<b>Brexpiprazole</b>	<b>Rexulti</b>	<b>4 mg</b>	<b>4 mg (13-17 yo)</b>
<b>Cariprazine</b>	<b>Vraylar</b>	<b>6 mg</b>	<b>non-FDA approved</b>
Clozapine	Clozaril, FazaClo ODT	900 mg	<b>700 mg (≥10 yo)</b>
<b>Lumateperone</b>	<b>Caplyta</b>	<b>42mg</b>	<b>non-FDA approved</b>
Lurasidone	Latuda	160 mg	non-FDA approved
Olanzapine	Zyprexa, Zyprexa Zydis	20 mg, <b>40mg at APS</b>	<b>20 mg (13-17 yo)</b>
	<b>Zyprexa Intramuscular</b>	30 mg	non-FDA approved
Quetiapine	Seroquel, Seroquel XR	800 mg	<b>800 mg (13-17 yo)</b>
Paliperidone	<b>Invega</b>	12 mg	<b>12 mg (12-17 yo)</b>
	Risperdal, <b>Risperdal M-Tab</b>		<b>6 mg (10-17 yo)</b>
Risperidone		16 mg	
	<b>Risperdal Consta</b>	50 mg IM q2wk	<b>50 mg (≥ 13 yo)</b>
Ziprasidone	Geodon	200 mg	non-FDA approved
	Geodon Intramuscular	40 mg	non-FDA approved

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xanomeline and trospium	Cobenfy	125mg/30mg orally twice daily	non-FDA approved
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**Antipsychotic Agents- Long Acting Injectables (LAIs)**

Generic Name	Brand Name	Adults	Adolescents & Children
Aripiprazole ER Suspension	Abilify Maintena	400 mg	non-FDA approved
Aripiprazole ER Suspension	Abilify Asimtufii	960mg	non-FDA approved
Olanzapine	Zyprexa Relprevv	405 mg	non-FDA approved
Paliperidone Palmitate	Invega Sustenna	234 mg	non-FDA approved
Paliperidone Palmitate	Invega Trinza	819 mg	non-FDA approved
Paliperidone Palmitate	Invega Hafyera	1560 mg	non-FDA approved
Risperidone	Risperdal Consta	50 mg	50 mg (≥ 13 yo)
Risperidone	Perseris	120mg	non-FDA approved
Risperidone	Uzedly	250mg	non-FDA approved
Haloperidol Decanoate	Haldol decanoate	450 mg	non-FDA approved
Fluphenazine Decanoate	Prolixen decanoate	100 mg/4wk	non-FDA approved

**Antipsychotic Agents-Conventionals**

Generic Name	Brand Name	Adults	Adolescents & Children
Chlorpromazine	Thorazine	1000 mg	50 mg (6mo-5 yo), 200 mg (5-12 yo), ≥ 12 yo adult dosing
Fluphenazine	Prolixen	40 mg	non-FDA approved
Fluphenazine decanoate	Prolixen decanoate	100 mg/4wk	non-FDA approved
Haloperidol	Haldol	100 mg	non-FDA approved
Haloperidol decanoate	Haldol decanoate	450 mg/month	non-FDA approved
Loxapine	Loxitane	250 mg	non-FDA approved
Molindone	Moban	225 mg	225 mg (≥12 yo)
Perphenazine	Trilafon	64 mg	non-FDA approved
Pimozide	Orap	10 mg	10 mg (≥12 yo)
Thioridazine	Mellaril	800 mg	non-FDA approved
Thiothixene	Navane	60 mg	60 mg (≥12 yo)
Trifluoperazine	Stelazine	40 mg	15 mg (6-12 yo)

**Mood Stabilizers**

Generic Name	Brand Name	Adults	Adolescents & Children
Carbamazepine ER <sup>1</sup>	Equetro	1600 mg	non-FDA approved
Lamotrigine <sup>2</sup>	Lamictal	200 mg	non-FDA approved
Lithium carbonate <sup>3</sup>	Lithium	1800 mg	1800 mg (≥7 yo & >30Kg)
	Lithobid	1800 mg	1800 mg (≥12 yo)
Divalproex sodium <sup>4</sup>	Depakote, Depakote ER	60 mg/kg	non-FDA approved

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**Psychostimulants & Other ADHD Related Agents**

Generic Name	Brand Name	Maximum Daily Dosage	
		Adult	Adolescent & Children

**Amphetamine Preparations:**

**Short Acting:**

Amphetamine/D. Amphetamine	Adderall	40mg (ADHD) 60mg (Narcolepsy)	40mg (>3yo, ADHD) 60mg (≥6yo, Narcolepsy)
Dextroamphetamine	Dexedrine, <b>Dextrostat</b>	60 mg	40mg >6yo, ADHD 60mg>6yo, Narcolepsy
Methamphetamine	<b>Desoxyn</b>	25 mg	25 mg (≥ 6 yo)

**Long Acting:**

Amphetamine/D. Amphetamine	Adderall XR <sup>1</sup>	60mg	30mg (6-12yo); 40mg (13-17yo)
Dextroamphetamine	Dexedrine Spansule	60mg	40 mg (≥ 6, ADHD), 60 mg (≥ 6 yo, dose to optimal resp. Narcolepsy)
<b>Amphetamine XR-ODT</b>	<b>Adzenys XR ODT</b>	<b>18.8mg</b>	<b>18.8mg (≥ 6 yo)</b>
<b>Amphetamine ER Oral Suspension</b>	<b>Dyanavel XR</b>	<b>20mg</b>	<b>20mg (≥ 6 yo)</b>
Lisdexamfetamine	<b>Vyvanse</b>	70 mg	70 mg (≥ 6 yo)

**Methylphenidate Preparation:**

**Short Acting:**

Dexmethylphenidate	<b>Focalin</b>	20 mg	20 mg (≥ 6 yo)
Methylphenidate	<b>Methylin</b>	60 mg	60 mg (> 6 yo)
Methylphenidate	Ritalin	60 mg	60 mg (> 6 yo)

**Intermediate Acting**

Methylphenidate	<b>Metadate ER<sup>2</sup></b>	60 mg	60 mg (> 6 yo)
Methylphenidate	Ritalin SR <sup>2</sup>	60 mg	60 mg (> 6 yo)

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Methylphenidate	<b>Metadate CD<sup>3</sup></b>	60 mg	60 mg (> 6 yo)
Methylphenidate	<b>Ritalin LA<sup>4</sup></b>	60 mg	60 mg (> 6 yo)

**Long Acting:**

Dexmethylphenidate	<b>Focalin XR<sup>5</sup></b>	40 mg	30 mg (≥ 6 yo)
Methylphenidate	Concerta <sup>6</sup>	72 mg	54 mg (6-12 yo); 72 (>13 yo)
Methylphenidate	<b>Daytrana</b>	30mg/9h patch	30 mg/9h patch (>6 yo)
<b>Methylphenidate</b>	<b>Jornay PM<sup>7</sup></b>	<b>100mg</b>	<b>100mg (≥6yo)</b>
<b>Methylphenidate HCL Extended release</b>	<b>Aptensio XR</b>	<b>60mg</b>	<b>60mg (≥ 6 yo)</b>
<b>Methylphenidate HCL Extended release</b>	<b>Adhansia XR</b>	<b>85mg</b>	<b>70mg (≥ 6 yo)</b>
<b>Serdexmethylphenidate and Dexmethylphenidate</b>	<b>Azstarys</b>	<b>52.3mg/10.4 mg</b>	<b>52.3mg/10.4 mg (≥ 6 yo)</b>
<b>Methylphenidate ER- ODT</b>	<b>Cotempla XR-ODT</b>	<b>51.8mg</b>	<b>51.8mg (≥ 6-17 yo)</b>

**Non-Stimulants**

Atomoxetine	Strattera	100mg	1.4mg/kg (>6yo, ≤70kg); 100mg (.6yo,>70kg)
<b>Viloxazine ER</b>	<b>Qelbree</b>	<b>400mg</b>	<b>400mg (≥6yo)</b>

**Alpha2 Adrenergic Agonist**

<b>Generic Name</b>	<b>Brand Name</b>	<b>Adults</b>	<b>Adolescents &amp; Children</b>
Clonidine	Kapvay	Non-FDA approved	<b>0.4mg/day (6-17yo)</b>
Guanfacine ER	Intuniv	3 mg	0.05-0.12 mg/kg/dose

**Beta Blockers**

<b>Generic Name</b>	<b>Brand Name</b>	<b>Adults</b>	<b>Adolescents &amp; Children</b>
Atenolol	Tenormin	100 mg	non-FDA approved
Metoprolol	Lopressor	200 mg	non-FDA approved
Propranolol	Inderal	160 mg	non-FDA approved

**Thyroid Agents**

<b>Generic Name</b>	<b>Brand Name</b>	<b>Adults</b>	<b>Adolescents &amp; Children</b>
<b>Levothyroxine</b>	<b>Synthroid</b>	<b>Non-FDA approved (for Depression augmentation)</b>	<b>Non-FDA approved (for Depression augmentation)</b>

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Liothyronine	Cytomel	<b>Non-FDA approved (for Depression augmentation)</b>	<b>Non-FDA approved (for Depression augmentation)</b>
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**Agents to Consider for Prevention and Treatment of Antipsychotic Induce Metabolic Syndrome  
(Off-Label)**

<b>Generic Name</b>	<b>Brand Name</b>	<b>Adults</b>	<b>Adolescents &amp; Children</b>
Metformin, Metformin XR	Glucophage, Glucophage XR	2000 mg <b>with food</b>	1,000 mg (for youth<50kg), 1,500 mg (for youth 50-70Kg, 2,000mg (for youth >70Kg)
Topiramate	Topamax	400mg	
<b>Olanzapine/Samidorphane</b>	<b>Lybalvi</b>	<b>20mg/10mg</b>	<b>.15 mg/kg (3-12 yo &amp; 15-40 kg); 15 mg (≥12 yo)</b>

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