

# Dopamine-Serotonin Antagonists in Pediatric Primary Care

Medication	Brand Name	FDA approval	Dosing forms	Starting dose children	Starting dose adolescents	Target dosing aggression	Target dosing psychosis/ Bipolar
<b>Risperidone</b>	Risperdal	5-17 ASD +irritable 10-17 Bipolar Disorder (BD) manic/mixed; 13-17 Schizophrenia 6+ Tourettes	Tab: 0.25, 0.5, 1, 2, 3, 4 mg ODT: 0.25, 0.5,1,2,3,4 SOL: 1 mg/ml	0.25 mg HS	0.25-0.5 mg HS	1-2 mg/d	2-4 mg
<b>Aripiprazole</b>	Abilify	6-17 ASD + irritable; 10-17 BD (manic/mixed); 6-18 Tourettes	2,5,10,15, 20,30 tab ODT 10, 15 mg SOL 1mg/ml	2 mg QD	2-5 mg/day	2-10 mg /day	10-30 mg
<b>Lurasidone</b>	Latuda	10-17 BD (Dep) 13-17 Schizophrenia	20, 40, 60, 80 mg tab	--	20 mg QD (w/ food)	20-40 mg	40-80 mg
<b>Quetiapine</b>	Seroquel	10-17 BD (Manic); 13-17 Schizophrenia	Tab: 25,50,100, 200, 300, 400 mg; ER tab: 50,150,200, 300, 400	--	12.5-25 mg BID; ER 25-50 mg	50-200 mg Divided doses	400-800 mg Divided doses
<b>Olanzapine</b>	Zyprexa	10-17 BD (acute depression) 13-17 BDI acute mania 13-17 Schizophrenia	Tab: 2.5, 5, 7.5, 10, 15, 20 mg ODT (Zydis): 5, 10, 15, 20 mg	2.5 mg QD	2.5-5 mg QD	2.5-10 mg Note: <b>generally only used in ED for acute agitation or some cases of Eating disorders</b>	10-20 mg QD

# Comparison of Common Side Effects of Second Generation Atypical Antipsychotics

Atypical Anti-psychotic	Brand Name	Weight Gain	Constipation	Hyper-prolactinemia	Nausea/Vomiting	Orthostasis	Dizziness	Akathisia	EPS	Somnolence	Tachycardia	↑ BG	↑ Lipids
Aripiprazole	Abilify	●●●	●●	—	●●	●●●	●	●●	●●	●●	●	●	—
Lurasidone	Latuda	—	—	—	●	—	●	●●	●●●●	●●●	●	—	—
Quetiapine	Seroquel	●●●	●	—	●	●	●●	●	●●	●●●●	●	●	●
Risperidone	Risperdal	●●●●	●●	●●●●	●●●	●	●●	●	●●●	●●●●	●	●	—

## Monitoring Strategies in Children and Adolescents Treated With Antipsychotic Agents

Initial Assessment	Routine Follow-up
Personal and family medical history	Annually
Lifestyle behaviors	Each visit
Sedation/somnolence	Each visit
Sexual/reproductive dysfunction	During titration, then every 3 months
Parkinsonism, akathisia	During titration, then every 3 months
Height, weight, BMI	Each visit
Blood pressure and pulse	At 3 months and annually
Electrolytes, blood count, renal and liver function	Annually
Fasting blood glucose and lipids	At 3 months, then every 6 months
Liver function tests	At 3 months, then annually
Prolactin	Only if symptomatic
ECG	Only if taking ziprasidone