

PHARMACOKINETICS OF ATYPICAL ANTIPSYCHOTICS

Brand (Generic & Formulation)	Bioavailability	Half-life	Cytochrome P450 Metabolism
Abilify (aripiprazole tabs, soln, inj) Abilify Discmelt (aripiprazole ODT)	Oral: 87% (tablet) IM: 100%	~75 hrs (aripiprazole) and ~94 hrs (dehydro-aripiprazole)	CYP 2D6, 3A4
Clozaril (clozapine tabs)	—	75mg: 8 hrs 100mg twice daily: 12 hrs	CYP 1A2, 2D6, 3A4
Fanapt (iloperidone tabs)	96%	EM: 18 hrs (iloperidone), 26 hrs (P88), and 23 hrs (P95) PM: 33 hrs (iloperidone), 37 hrs (P88), and 31 hrs (P95)	CYP 2D6, 3A4
Fazaclo (clozapine ODT)	—	75mg: 8 hrs 100mg twice daily: 12 hrs	CYP 1A2, 2D6, 3A4
Geodon (ziprasidone HCl caps) Geodon for inj (ziprasidone mesylate inj)	Oral: ~60% (with food) IM: 100%	Oral: ~7 hrs IM: 2–5 hrs	CYP 1A2, 3A4
Invega (paliperidone ext-rel tabs) Invega Sustenna (paliperidone ext-rel inj)	Oral: 28% (absolute) IM: n/a	Oral: ~23 hrs IM: 25–49 days	—
Latuda (lurasidone HCl tabs)	9–19%	~18 hrs (mean)	CYP 3A4
Risperdal (risperidone tabs, soln) Risperdal Consta (risperidone long-acting inj)	70% (absolute)	Oral: ~20 hrs (mean) IM: 3–6 days	CYP 2D6
Saphris (asenapine SL tabs)	35% (absolute)	~24 hours (mean)	CYP 1A2, 2D6, 3A4
Seroquel (quetiapine fumarate tabs) Seroquel XR (quetiapine fumarate ext-rel tabs)	—	IR: ~6 hrs Ext-rel: ~7 hrs (quetiapine), 9–12 hrs (N-desalkyl quetiapine)	CYP 3A4
Zyprexa (olanzapine tabs) Zyprexa Zydis (olanzapine ODT) Zyprexa IntraMuscular (olanzapine inj)	~60%	21–54 hrs	CYP 1A2, 2D6

NOTES

EM = extensive metabolizers; ext-rel = extended-release; inj = injection; IR = immediate-release; ODT = orally-disintegrating tablets;

PM = poor metabolizers; SL = sublingual; tabs = tablets

*Not a complete list of atypical antipsychotics. For a more complete listing visit www.eMPR.com.

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