

Extrapyramidal Side Effect	Symptoms	Treatments
Akathisia	Subjective complaints of leg or arm movements, rocking, pacing, feeling restless like they cannot sit still Develops within the first few weeks of starting or increasing dose of medication or reducing or removing a medication that is used to mitigate EPS	Dose reduction, switch to another antipsychotic medication, treatment with beta blocker, benzodiazepine, or amantadine
Dystonia	Involuntary contractions and spasms of the muscles, painful, starts in the face, neck, shoulders Develops within a few days of starting or increasing dose of medication or reducing or removing a medication that is used to mitigate EPS	Dose reduction, and switch to another antipsychotic medication, treatment with Cogentin or Benadryl
Tardive dyskinesia	Involuntary facial movements, sucking, chewing, lip smacking, tongue protruding, blinking eyes	Dose reduction, removal of the offending agent, and switch to another antipsychotic medication, treatment with tetrabenazine or deutetrabenazine
Pseudoparkinson's (Drug induced parkinsonism)	Shuffling gait, stiff facial muscles, tremors, bradykinesia, akinesia Develops within a few weeks of starting or increasing a dose of medication or	Dose reduction, removal of the offending agent and switch to another antipsychotic medication, treatment with amantadine or levadopa

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	reducing or removing a medication that is used to mitigate EPS	
Neuroleptic malignant disturbance	Onset is usually two weeks after the initiation of antipsychotic treatment or a change in dosage High fever (102 to 104 degrees Fahrenheit), irregular pulse, tachycardia, tachypnea, muscle rigidity, confusion, hypertension, diaphoresis <i>This is a medical emergency</i>	Removal of the offending agent, supportive care, maintenance of cardiovascular status through monitoring, mechanical respiration, medications, maintenance with IV fluids, treatment of hyperthermia with cooling blankets, benzodiazepines for agitation, and dantrolene for muscle rigidity and elevated CK and bromocriptine/amantadine for moderate to severe symptoms

Table 15.5 Extrapyramidal Side Effects and Treatments (Caroff & Campbell, 2016; Ware et al., 2018)