

Differential diagnosis for drug-induced movement disorders (DIMDs)

This material is intended for HCPs only.

1 Many therapeutic and illicit drugs can cause DIMDs^{1,2}

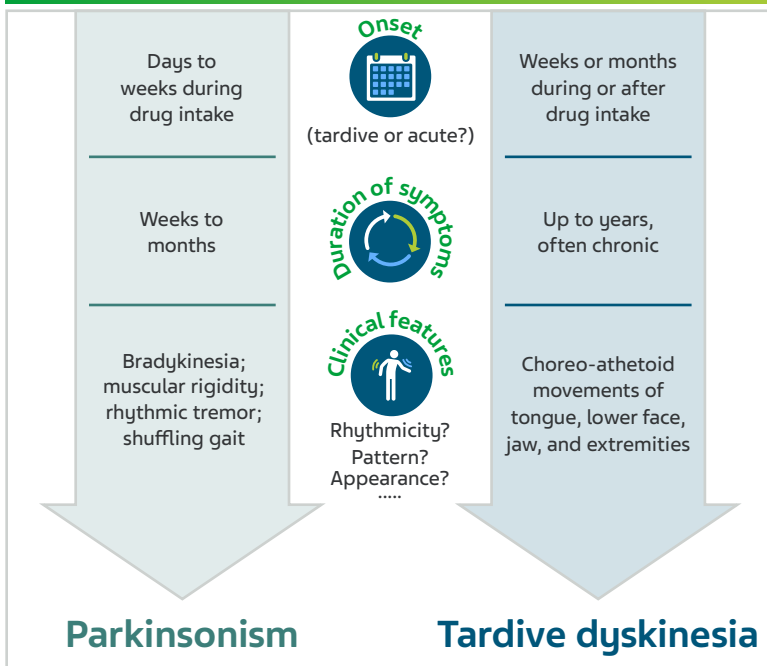


2 The term “extrapyramidal symptoms” (EPS) lacks clinical precision³⁻⁶

DIMDs are commonly referred to as EPS

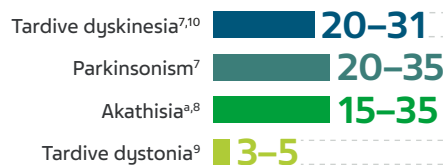


3 Differential diagnosis is based on onset, duration, and clinical features^{2,5,7,9}

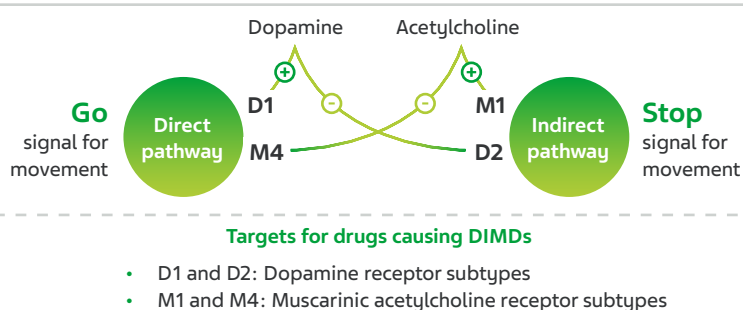


4 Tardive dyskinesia and drug-induced parkinsonism are common DIMDs⁷⁻¹⁰

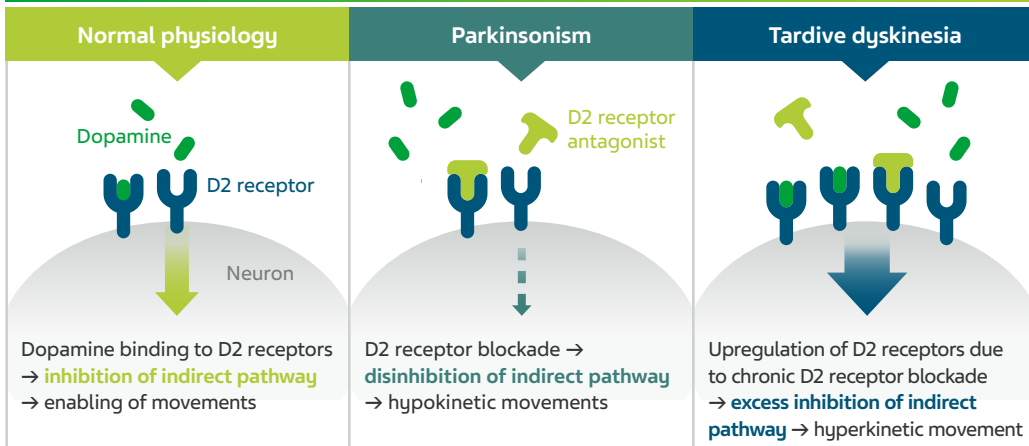
Prevalence rates (%)



5 Dopamine or acetylcholine receptor antagonists can interfere with control of movement¹¹⁻¹³



6 Tardive dyskinesia and drug-induced parkinsonism differ in their pathophysiology^{3,7,9,12,14,15}



7 Differential diagnosis informs management of DIMDs^{3,5,7,9}

- Because etiologies differ, management of DIMDs should be based on differential diagnosis
- Specific drugs are indicated to treat specific DIMDs
- Discontinuation or dose reduction of the drug causing DIMDs may exacerbate the underlying condition

*This study investigated the prevalence of akathisia in a community-dwelling sample of patients with schizophrenia.

References 1. Alam SA, et al. Open J Psychiatry Allied Sci. 2016;7:111. 2. Duma SR, Fung VS. Aust Prescr. 2019;42:56–61. 3. Savitt D, Jankovic J. J Neurol Sci. 2018;389:35–42. 4. Frei K, et al. J Neurol Sci. 2018;389:10–16. 5. Galvez-Jimenez N, Tuite P. Uncommon Causes of Movement Disorders. Cambridge: Cambridge University Press; 2011. 6. FDA. Cogentin (benztropine mesylate) injection label. https://www.accessdata.fda.gov/drugsatfda_docs/label/2013/012015s0261bl.pdf. Accessed June 2025. 7. Ward KM, Citrome L. Neurol Ther. 2018;7:233–48. 8. Salem H, et al. Curr Neuropharmacol. 2017;15:789–98. 9. Caroff SN, Campbell EC. Psychiatr Clin N Am. 2016;39:391–411. 10. Carbon M, et al. J Clin Psychiatry. 2017;78:e264–78. 11. Benarroch EE. Neurology. 2012;79:274–81. 12. Meppelink AM, Edwards MJ. Medication-Induced Movement Disorders: Chapter 2: Acute dystonia. Cambridge: Cambridge University Press; 2015. 13. Fahn S, et al. Principles and practice of movement disorders. 2nd ed. Edinburgh, New York: Elsevier Saunders; 2011. 14. Fazl A, Fleisher J. Semin Pediatr Neurol. 2018;25:2–9. 15. Stahl SM. CNS Spectr. 2017;22:427–34.