



Drugs reported to cause seizures or lower seizure threshold

Psychotropic drugs:
▪ Tricyclic, tetracyclic antidepressants
▪ Serotonin reuptake inhibitors
▪ Neuroleptic agents (phenothiazines, haloperidol, clozapine)
▪ Lithium
▪ Bupropion
Methylxanthines (theophylline, caffeine)
Selected opioids (meperidine , propoxyphene, tramadol)
Antimicrobials:
▪ Penicillins, cephalosporins (cefepime) in high dose
▪ Imipenem , meropenem , doripenem
▪ Isoniazid
▪ Antimalarials
▪ Cyclosporine
▪ Nalidixic acid
Chemotherapeutic agents (methotrexate, chlorambucil)
General anesthetics (ketamine, enflurane)
Local anesthetics (lidocaine, bupivacaine)
Stimulants (amphetamines , cocaine , pseudoephedrine)
Antiarrhythmics (mexiletine, procainamide, propranolol overdose)
Antihistamines (diphenhydramine)
Baclofen
Antiemetics (chlorpromazine)

Drugs most likely to be associated with seizures, even at therapeutic doses, are shown in **bold font**.

Data from:

1. Olson KR, Kearney TE, Dyer JE, et al. Seizures associated with poisoning and drug overdose. *Am J Emerg Med* 1994; 12:392.

2. Shorvon SD, Tallis RC, Wallace HK. Antiepileptic drugs: coprescription of proconvulsant drugs and oral contraceptives: a national study of antiepileptic drug prescribing practice. *J Neurol Neurosurg Psychiatry* 2002; 72:114.
 3. Messing RO, Closson, RG, Simon, RP. Drug-induced seizures: a 10-year experience. *Neurology* 1984; 34:1582.
 4. Bey TA, Walter FJ. Seizures, in Ford: *Clinical Toxicology*, 1st ed., Copyright © 2001 W. B. Saunders Company.
 5. Gilmore RL. Seizures associated with noneurologic medical conditions. In: *The treatment of epilepsy: principles and practice*, 3rd ed, Elaine Wyllie (Ed), Williams & Wilkins, Baltimore 2001.
 6. Sutter R, Rüegg S, Tschudin-Sutter S. Seizures as adverse events of antibiotic drugs: A systematic review. *Neurology* 2015; 85:1332.
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