



Drugs That Prolong the QT Interval and/or Induce *Torsades de Pointes*

www.Torsades.org

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Information from the FDA-approved drug labeling and the medical literature.

- **QT:** prolongation is mentioned in the FDA-approved labeling as a known action of the drug.
- **TdP:** the FDA-approved labeling includes mention of cases or a risk of *Torsades de Pointes* (TdP).
- **Cases in Lit:** there are case reports of TdP in the medical literature.
- **Females>Males:** substantial evidence indicates a greater risk (usually \geq two-fold) of TdP in women.
- **Off Market:** this drug has been removed from the US market because of drug-induced TdP.

This list is maintained by Raymond L. Woosley, MD, PhD, in the Department of Pharmacology at Georgetown University, (WoosleyR@GUNET.Georgetown.edu). Suggested additions, deletions and references are most welcome; the list has benefited immensely from the input of practicing physicians and other researchers in the field. This page will be updated as new information becomes available. The content of this Table is for public use, free of charge and for information only. It is not intended to be used in any other manner. The author disclaims any liability, loss, injury, or damage incurred as a consequence, directly or indirectly, or the use and application of any of the contents of this Table. The information presented on this site is intended as general health information and as an educational tool. It is not intended as medical advice. Only a physician, pharmacist, or other health care professional should advise a patient on medical issues and should do so using a medical history and other factors identified and documented as part of the health professional/patient relationship.

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Drug (Brand Names)	Drug Class (Clinical Usage)	QT	TdP	Comments
Amiodarone (Cordarone®)	Antiarrhythmic (heart rhythm)	QT	TdP	Female>Males, TdP Cases in Lit
Amitriptyline (Elavil®, Endep®)	Antidepressant (depression, pain, other)			TdP Cases in Lit
*Astemizole (Hismanal®)	Antihistamine (allergy)	QT	TdP	* Off Market
Arsenic trioxide (Trisenox®)	Anticancer (leukemia)	QT	TdP	TdP Cases in Lit
Azelastine (Astelin®)	Antihistamine (allergy)	QT		Only pertains to oral therapy
Bepridil (Vasacor®)	Antianginal (heart pain)	QT	TdP	Females>Males
Chlorpromazine (Thorazine®)	Antipsychot/Antiemetic(schizophrenia/nausea)			Females>Males, TdP Cases in Lit
*Cisapride (Propulsid®)	GI stimulant (stimulates GI motility)	QT	TdP	Open perscription restricted
Clarithromycin (Biaxin®)	Antibiotic (bacterial infection)			TdP Cases in Lit
Desipramine (Norpramin®)	Antidepressant (depression, others)	QT		TdP Cases in Lit
Disopyramide (Norpace®)	Antiarrhythmic (heart rhythm)	QT	TdP	Females>Males
Dofetilide (Tikosyn®)	Antiarrhythmic (heart rhythm)	QT	TdP	
Doxepin (Sinequan®, Zonalon®)	Antidepressant (depression, pain, other)			TdP Cases in Lit
Droperidol (Inapsine®)	Sedative/Hypnotic (anesthesia adjunct)	QT	TdP	TdP Cases in Lit
Erythromycin (E.E.S.®, Erythrocin®,+)	Antibiotic/GI stimulant (infection/GI motility)	QT	TdP	Females>Males
Felbamate (Felbatol®)	Anticonvulsant (seizures)		TdP	
Flecainide (Tambocor®)	Antiarrhythmic (heart rhythm)	QT	TdP	Association not clear
Fluoxetine (Prozac®)	Antidepressant (depression)	QT		Association not clear
Foscarnet (Foscavir®)	Antiviral (HIV infection)	QT		
Fosphenytoin (Cerebyx®)	Anticonvulsant (seizures)	QT		
Gatifloxacin (Tequin®)	Antibiotic (bacterial infection)	QT		
*Grepafloxacin (Raxar®)	Antibiotic (bacterial infection)	QT		*Off Market
Halofantrine (Halfan®)	Antimalarial (malaria infection)	QT	TdP	Females>Males
Haloperidol (Haldol®)	Antipsychotic (schizophrenia, agitation)	QT	TdP	
Ibutilide (Corvert®)	Antiarrhythmic (heart rhythm)	QT	TdP	Females>Males
Imipramine (Tofranil®)	Antidepressant (depression, pain, other)			TdP Cases in Lit
Indapamide (Lozol®)	Diuretic (stimulates urine & salt loss)	QT		TdP Cases in Lit, ↑QT in Animals
Isradipine (Dynacirc®)	Antihypertensive (high blood pressure)	QT		
Levomethadyl (Orlaam®)	Opiate agonist (narcotic dependence)	QT		
Mesoridazine (Serentil®)	Antipsychotic (schizophrenia)	QT		
Moexipril/HCTZ (Uniretic®)	Antihypertensive (high blood pressure)	QT		
Moxifloxacin (Avelox®)	Antibiotic (bacterial infection)	QT		
Naratriptan (Amerge®)	Migraine treatment	QT		
Nicardipine (Cardene®)	Antihypertensive (high blood pressure)	QT		
Octreotide (Sandostatin®)	Endocrine (acromeg/carcinoid diarrhea)	QT		
Pentamidine(Pentam®, NebuPent®,+)	Anti-infective (Pneumocystis pneumonia)	QT	TdP	Females>Males
Pimozide (Orap®)	Antipsychotic (Tourette's tics)	QT		Females>Males, TdP Cases in Lit
Probucol (Lorelco®)	Antilipemic (lowers cholesterol)	QT	TdP	Females>Males
Procainamide(Procan®, Pronestyl®,+)	Antiarrhythmic (heart rhythm)		TdP	
Quetiapine (Seroquel®)	Antipsychotic (schizophrenia)	QT		
Quinidine(Cardioquin®, Quinaglute®,+)	Antiarrhythmic (heart rhythm)	QT	TdP	Females>Males
Risperidone (Risperdal®)	Antipsychotic (schizophrenia)	QT		
Salmeterol (Serevent®)	Sympathomimetic (asthma, COPD)	QT		
Sotalol (Betapace®)	Antiarrhythmic (heart rhythm)	QT	TdP	Females>Males
Sparfloxacin (Zagam®)	Antibiotic (bacterial infection)	QT	TdP	
Sumatriptan (Imitrex®)	Migraine treatment	QT		
Tacrolimus (Prograf®)	Immune suppressant			TdP Cases in Lit
Tamoxifen (Nolvadex®)	Anticancer (breast cancer)	QT		
*Terfenadine (Seldane®)	Antihistamine (allergy)	QT	TdP	Females>Males, *Off Market
Thioridazine (Mellaril®)	Antipsychotic (schizophrenia)	QT	TdP	
Tizanidine (Zanaflex®)	Muscle relaxant	QT		↑QT in animals
Trimethoprim Sulfa(Bactrim®, Septra®)	Antibiotic (bacterial infection)			Questionable case report
Venlafaxine (Effexor®)	Antidepressant (depression)	QT		
Zolmitriptan (Zomig®)	Migraine treatment	QT		



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