

CMTA
CHARCOT-MARIE-TOOTH ASSOCIATION

CMT MEDICAL ALERT

Neurotoxic Medication List

The medications listed in this table are potentially toxic to CMT patients. Vincristine has been proven hazardous and should be avoided by all CMT patients, including those with no symptoms. Taxols also pose a high risk to people with CMT. The remainder of the medications listed present varying degrees of potential risk for worsening CMT neuropathy.

Before taking any medication or changing medication, all CMT patients should make sure the treating physician is fully aware of their medical condition.

(Note: This table is not a complete list of brand names, manufacturers, or labeled uses. There may be others, and patients should be aware that many drugs have off-label uses. Always check the ingredients before taking any medication.)

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Definite High Risk		
Generic Name	**Brand Name/Manufacturer**	**Labeled Uses**
Vincristine sulfate	Oncovin/Eli Lilly; Vincasar PFS/Pfizer; Vincristine Sulfate Injection/ Abbott, Mayne	Acute leukemia; malignant lymphomas and carcinomas
Cabazitaxel	Jevtana/Sanofi-Aventis	Advanced prostate cancer
Docetaxel	Taxotere/Sanofi-Aventis	Breast and prostate carcinomas; lung cancer
Paclitaxel	Onxol/IVAX; Paclitaxel Injection/UDL, Bedford Taxol/Bristol-Myers Squibb	Breast, lung, ovarian and esophageal carcinomas
Taxols (see specific drug names)		
Moderate to Significant Risk		
Amiodarone HCL	Cordarone/Wyeth-Ayerst	Ventricular arrhythmias (fibrillation and tachycardia)
Arsenic Trioxide	Trisenox/Cephalon	Acute promyelocytic leukemia
Auranofin	Ridaura/Prometheus	Rheumatoid arthritis
Aurothioglucose	Solganal/Schering	Rheumatoid arthritis
Bortezomib	Velcade/Millenium	Multiple myeloma (bone cancer)
Brentuximab Vedotin	Adcetris/Seattle Genetics	Hodgkin's lymphoma; systemic anaplastic large cell lymphoma
Cetuximab	Erbitux/Lilly	Cancer of the head, neck or colon
Ciprofloxacin	Cipro; Cipro IV/Bayer	Bacterial infections, including skin, bone, blood, urinary, respiratory, and gastrointestinal tract infections; pneumonia; sinusitis; typhoid fever
Cisplatin	Cisplatin Injection/Abbot, American Pharmaceutical Partners, Baxter; Platinol-AQ/Bristol-Myers Squibb	Bladder, ovarian, and testicular carcinomas
Colchicine (risk with extended use)	Colchicine Tablets/Abbot; Colchicine Injection/Bedford; Probenecid and Colchicine Tablets/IVAX, Truxton	Gout prevention; gouty arthritis; (unlabeled use: hepatic cirrhosis due to alcohol)
Dapsone	Dapsone Tablets/Jacobus	Bullous herpetiformis dermatitis; leprosy
Didanosine; Dideoxyinosine (ddI)	Videx/Bristol-Myers Squibb	HIV infection
Dichloroacetate (DCA)	Not FDA approved; in clinical trials	Chronic lactic acidosis
Disulfiram	Antabuse/Odyssey	Alcoholism
Enoxacin	Penetrex/Aventis	Urinary tract infections; gonorrhea
Eribulin Mesylate	Halaven/Eisai	Metastatic breast cancer (patients who have received two prior chemotherapy regimens)

Moderate to Significant Risk		
Generic Name	**Brand Name/Manufacturer**	**Labeled Uses**
Fluoroquinolones (see specific drug names)		
Gatifloxacin	Tequin/Bristol-Myers Squibb; Tequin Injection/Bristol-Myers Squibb	Pneumonia and bronchitis; sinus, respiratory tract, and urinary tract infections; sexually transmitted diseases
Gold Salts (see specific drug names)		
Gold Sodium Thiomalate	Aurolate/Taylor	Rheumatoid arthritis
Ipilimumab	Yervoy/ Bristol-Myers Squibb	Melanoma
Ixabepilone	Ixempra/Bristol-Myers Squibb	Metastatic or locally advanced breast cancer
Leflunomide	Arava/Aventis	Rheumatoid arthritis
Lenalidomide	Revlimid/Celgene	Myelodysplastic syndrome
Levofloxacin	Levaquin/Ortho-McNeil	Infections, including skin, respiratory, and urinary tract infections; venereal diseases
Metronidazole (risk with extended use)	Flagyl/Pfizer	Intestinal, vaginal and other bacterial infections; septicemia; peritonitis; endocarditis
Misonidazole (risk with extended use)		Cancer treatment; radiotherapy
Moxifloxacin	Avelox/Bayer	Skin and respiratory tract infections
Nitrofurantoin; Macrodantin	Nitrofurantoin Capsules/ Sandoz; Macrobid/Proctor & Gamble; Furadantin/Elan	Urinary tract infections
Nitrous Oxide (risk with inhalation abuse or vitamin B12 deficiency)		General anesthesia
Nivolumab	Opdivo/ Bristol-Myers Squibb	Melanoma, advanced renal cell carcinoma
Norfloxacin	Noroxin/Merck	Urinary tract infections; prostatitis; gonorrhea
Oxaliplatin	Eloxatin/Sanofi-Synthelabo	Colorectal carcinoma
Ofloxacin	Floxin/Ortho-McNeil	Urinary tract, skin, bone, and heart infections
Pembrolizumab	Keytruda/Merck	Melanoma, non-small-cell lung cancer
Perhexiline (not used in US)	Pexsig/Sigma (Australia and New Zealand)	Angina pectoris
Pomalidomide	Pomalyst/Celgene	Multiple myeloma
Pyridoxine (risk with megadoses)	Vitelle Nestrex/Fielding	Vitamin B6 deficiency; antidote to drug-induced neuropathy

Moderate to Significant Risk		
Generic Name	**Brand Name/Manufacturer**	**Labeled Uses**
Sparfloxacin	Zagam/Bertek	Lower respiratory tract infections
Stavudine (d4T)	Zerit/Bristol-Myers Squibb	HIV infection
Suramin	Awaiting FDA approval	African sleeping sickness; river blindness; experimental cancer treatment (prostate)
Thalidomide	Thalomid/Celgene	Erythema (reddening of the skin); nosodum leprosum (a rash associated with treatment of leprosy); many other off-label uses (mainly autoimmune disease and chemotherapy)
Trovafloxacin (Alatrofloxacin)	Trovan/Pfizer	Pneumonia; abdominal, pelvic, and skin infections
Zalcitabine; Dideoxycytidine (ddC)	Hivid/Roche	HIV infection
Uncertain or Minor Risk		
5-Fluorouracil; (5-FU)	Adrucil/Pfizer; Fluorouracil injection/Baxter, Valeant, SoloPak, APP	Breast, colorectal, gastric and pancreatic carcinomas
Adriamycin (Doxorubicin HCL)	Adriamycin/Bedford; Adriamycin RDF/Pfizer	Leukemia; lymphomas; carcinomas
Almitrine	Vectarion/Not manufactured bin US	Acute respiratory failure
Atorvastatin	Lipitor/Pfizer	Elevated LDL cholesterol
Chloroquine	Aralen Phosphate/Sanofi-Synthelabo; Aralen Hydrochloride/Sanofi-Synthelabo	Amebiasis; malaria
Cytarabine (Ara-C; Cytosine arabinoside); Cytarabine liposomal (risk with high doses)	Cytarabine Injection/Mayne, Bedford; Cytosar-U/Pfizer DepoCyt/Enzon	Leukemias; Lymphomatous meningitis
Ethambutol	Ethambutol Tablets/Versa; Myambutol/Elan	Tuberculosis
Etoposide (VP-16)	Etoposide Capsules/Mylan; VePescid/Bristol-Myers Squibb Etoposide for Injection/ Abbot, Bedford, Gensia Sicor, SuperGen; Toposar/Pfizer; VePescid, Etopophos/Bristol-Myers Squibb	Small cell lung carcinoma; refractory testicular neoplasm
Fluvastatin	Lescol/Reliant	Elevated LDL cholesterol
Gemcitabine	Gemzar/Lilly	Non-small cell lung cancer; pancreatic carcinoma
Griseofulvin	Grifulvin V/Ortho-Neutrogena; Fulvicin U/F/Schering; Gris-PEG/Pedinol	Tineas (ringworm infections) of the skin, hair, and nails
Hexamethylmelamine (Altretamine)	Hexalen/MGI Pharma	Ovarian cancer

Uncertain or Minor Risk		
Generic Name	**Brand Name/Manufacturer**	**Labeled Uses**
Hydralazine	Apresoline/IVAX; Hydra-zide/Par; Apresazide/Novartis; Marpres/Marnel	Hypertension
Ifosfamide	Ifex/Bristol-Myers Squibb	Testicular germ cell carcinoma; bone and soft tissue sarcomas
Infliximab	Remicade/Centocor	Rheumatoid arthritis; Crohn's disease
Isoniazid (INH)	Nydrazid/Sandoz; Laniazid/Lannett	Tuberculosis
Lansoprazole	Prevacid/TAP Phramaceuticals	Ulcers;gastroesophageal reflux disease (GERD); Zolliger-Ellison Syndrome
Lovastatin	Lovastatin/Mylan, Par, Sandoz, Teva; Mevacor/Merck; Altocor/Andrx	Elevated LDL cholesterol
Mefloquine	Lariam/Roche	Prevention and treatment of malaria
Omeprazole	Prilosec/Proctor and Gamble; Zegerid/ Santarus	Ulcers; gastroesophageal reflux disease (GERD); Zolliger-Ellison Syndrome
Phenytoin	Dilantin/Pfizer; Phenytoin Sodium Injection/ Baxter, Hospira, Sanofi	Epilepsy; convulsions; seizures
Podophyllin resin (high risk with excessive time exposure or unintended route--oral; deep injection)	Podocon-25/Paddock	Removal of benign growths and warts, esp. external genital and perianal exophytic warts caused by human papilloma-virus (HPV)
Pravastatin	Pravachol; Pravigard/Bristol-Myers Squibb	Elevated LDL cholesterol
Rosuvastatin	Crestor/AstraZeneca	Elevated LDL cholesterol
Sertraline	Zoloft/Pfizer	Depression; panic attacks; obsessivecompulsive disorder; PTSD; social disorder
Simvastatin	Zocor/Merck	Elevated LDL cholesterol
Statins (see specific drug names)	Statins are generally prescribed to control cholesterol and triglyceride levels and to prevent coronary events.	
Tacrolimus (FK506)	Prograf/Fujisawa	Prevention of liver, kidney, and other organ transplant rejection
Zimeldine (not in US)	(Withdrawn from market)	Depression
α-Interferon	Roferon/Roche; Intron; Rebetron/Schering; Infergen/InterMune; Alferon/Hemispherx	Hepatitis B and C; warts caused by human papillo-mavirus (HPV); Kaposi's sarcoma; renal cell carcinoma; multiple myeloma (bone cancer); malignant melanoma (skin cancer); Non-Hodgkin's lymphoma

Negligible or Doubtful Risk		
Generic Name	**Brand Name/Manufacturer**	**Labeled Uses**
Allopurinol	Zyloprim/Prometheus; Aloprim/Nabi	Gout; gouty arthritis; kidney and urinary tract stones
Amitriptyline	Elavil/Zeneca	Depression
Chloramphenicol	Cloramphenicol Sodium Succinate/American Pharmaceutical Partners; Chloromycetin/Monarch	Meningitis; typhoid fever
Chlorprothixene	Taractan/Roche	Psychosis
Cimetidine	Tagamet/GlaxoSmithKline; Cimetadine Hydrocloride Injection/American Regent, Hospira, Endo	Gastric and duodenal ulcers; gastroesophageal reflux
Clioquinol	Clioquinol is an ingredient in many formulations (often with hydrocortisone) used to treat bacterial and fungal infections of the skin	Dermatitis; folliculitis; eczema; athlete's foot; jock itch; ringworm
Clofibrate	Atromid/Wyeth-Ayerst	Hyperlipidaemias
Cyclosporin A	Sandimmune; Neoral/Novartis	Prevention of rejection of organ transplants; severe cases of psoriasis and rheumatoid arthritis
Enalapril	Vasotec/Biovail; Enalaprilat Injection/Abbott, Baxter, Bedford, Faulding	Hypertension; congestive heart failure
Gluthethimide	Not currently in use	Insomnia
Lithium	Lithium Carbonate/Rugby, Roxane; Lithobid/Solvay; Eskalith/GlaxoSmithKline	Bipolar disorder (manic/ depressive disorder)
Phenelzine	Nardil/Pfizer	Depression
Propafenone	Propafenone HCL/Watson; Rythmol/Abbott	Atrial fibrillation; ventricular arrhythmias
Sulfacetamide	Sulfathiazole	Acne; seborrheic dermatitis; eye and vaginal infections
Sulfabenzamide	Numerous brand names	Vaginitis
Sulfadiazine	Sulfadiazine Tablets/Eon, Raway, UDL	Toxoplasmosis
Sulphasalazine	Azulfidine/Pfizer	Rheumatoid arthritis; ulcerative colitis
Sulfathiazole	Numerous brand names	Vaginitis
Sulphamethoxazole	Proloprim; Septra/Monarch; Trimpex/Roche	Urinary tract infections; otitis media (middle ear infection)
Sulfisoxazole (sulfafurazole)	Gantrisin/Roche	Urinary tract infections; otitis media (middle ear infection)
Sulfonamides (see specific drug names)	Though listed here, the use of sulfonamides to treat infections has decreased due to the increase in drug-resistant bacteria.	