

Drug Side Effects That Cause Oral Issues

Class	Example Drugs	Suggested Treatment		
	Xerosto	omia		
Antihistamines	(diphenhydramine,	Medication change, OTC products such as		
	fexofenadine, cetirizine)	Biotene or Act Dry Mouth Mouthwash, or		
		prescription pilocarpine or cevimeline		
Anticholinergics	(trihexyphenidyl,	Medication change, OTC products such as		
	benztropine,	Biotene or Act Dry Mouth Mouthwash, or		
	chlorpromazine,	prescription pilocarpine or cevimeline		
	carbidopa-levodopa)			
Antipsychotics	(quetiapine, olanzapine,	Medication change, OTC products such as		
	aripiprazole)	Biotene or Act Dry Mouth Mouthwash, or		
		prescription pilocarpine or cevimeline		
Antidepressants	(TCAs, SSRIs, SNRIs)	Medication change, OTC products such as		
		Biotene or Act Dry Mouth Mouthwash, or		
		prescription pilocarpine or cevimeline		
Benzodiazepines	(lorazepam, alprazolam,	Medication change, OTC products such as		
	clonazepam)	Biotene or Act Dry Mouth Mouthwash, or		
		prescription pilocarpine or cevimeline		
Opiates	(hydrocodone,	Medication change, OTC products such as		
	oxycodone, morphine)	Biotene or Act Dry Mouth Mouthwash, or		
		prescription pilocarpine or cevimeline		
	Oral Ulce	ration		
NSAIDs	(indomethacin,	Topical steroid trial, if no response then either		
	ibuprofen, naproxen)	dose reduction or change in drug may be		
		required		
Bisphosphonates	(alendronate,	Topical steroid trial, if no response then either		
	ibandronate)	dose reduction or change in drug may be		
		required		
Immunosuppressant	(methotrexate, some	Topical steroid trial, if no response then either		
	chemotherapies,	dose reduction or change in drug may be		
	everolimus)	required		
Angioedema				
ACE-Inhibitors	(lisinopril, enalapril,	Antihistamines, corticosteroids, or epinephrine		
	captopril)	depending on severity		
Analgesics	(ibuprofen, naproxen,	Antihistamines, corticosteroids, or epinephrine		
	aspirin, indomethacin)	depending on severity		
Antibiotics	(sulfonamides,	Antihistamines, corticosteroids, or epinephrine		
	cephalosporins, beta-	depending on severity		
	lactams)			



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	Gingival Hyp			
Calcium channel blockers	(nifedipine, verapamil, diltiazem)	May resolve on its own if drug discontinued. May need nonsurgical mechanical debridement and good home hygiene. If that does not work, may need surgery		
Immunosuppressants	(cyclosporine, everolimus, mycophenolate)	May resolve on its own if drug discontinued. May need nonsurgical mechanical debridement and good home hygiene. If that does not work, may need surgery		
Anticonvulsants	phenytoin, tiagabine, oxcarbazepine	May resolve on its own if drug discontinued. May need nonsurgical mechanical debridement and good home hygiene. If that does not work, may need surgery		
Erythema Multiforme				
Calcium channel blockers	Amlodipine, nifedipine, diltiazem	Remove drug, treat with systemic antihistamines, analgesics as needed, local skin care, and soothing magic mouthwash		
Anticonvulsants	Phenytoin, oxcarbazepine	Remove drug, treat with systemic antihistamines, analgesics as needed, local skin care, and soothing magic mouthwash		
	Mucos	itis		
Oncology Agents	5-fluorouracil, methotrexate, bleomycin, doxorubicin, mercaptopurine	Immunomodulatory agents, analgesics, antiseptics, antibacterials, antifungals, mucosal barriers, cytoprotectants, cryotherapy, allopurinol, mouthwashes		
Candidiasis				
Steroids	Budesonide, betamethasone, fluticasone	Remove offending drug, use of topical and systemic antifungals such as nystatin or an –azole		
Immunosuppressant	Cyclosporine, mycophenolate	Remove offending drug, use of topical and systemic antifungals such as nystatin or an –azole		
Antibiotics	Amoxicillin, cephalosporins, fluoroquinolones	Remove offending drug, use of topical and systemic antifungals such as nystatin or an –azole		
	Taste Distu	rbances		
Proton pump inhibitors	Omeprazole, esomeprazole, rabeprazole, pantoprazole	Drug change or change when taking drug based on meals, artificial saliva		
Carbonic anhydrase inhibitor	Dorzolamide, acetazolamde	Drug change or change when taking drug based on meals, artificial saliva		



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Antibiotics	Tetracyclines, metronidazole, macrolides	Drug change or change when taking drug based on meals, artificial saliva		
Others	Eszopiclone, topiramate, captopril, lithium	Drug change or change when taking drug based on meals, artificial saliva		
	Osteoned	crosis		
Bisphosphonates	Alendronate, ibandronate, zoledronic acid	Use of antiseptics, antibiotics, analgesics, and possible laser therapy. Surgical debridement or major surgery may be needed depending on severity. Possibly decrease dose or discontinue offending agent.		
RANK ligand inhibitor	Denosumab	Use of antiseptics, antibiotics, analgesics, and possible laser therapy. Surgical debridement or major surgery may be needed depending on severity. Possibly decrease dose or discontinue offending agent.		
Antiangiogenic agents	Bevacizumab, sunitinib, sorafenib	Use of antiseptics, antibiotics, analgesics, and possible laser therapy. Surgical debridement or major surgery may be needed depending on severity. Possibly decrease dose or discontinue offending agent.		
m-TOR inhibitors	Everolimus	Use of antiseptics, antibiotics, analgesics, and possible laser therapy. Surgical debridement or major surgery may be needed depending on severity. Possibly decrease dose or discontinue offending agent.		
Hypersalivation				
Cholinergics	Pilocarpine	Drug dose decrease or discontinue. Can try trihexyphenidyl, clonidine or ipratropium		
Antipsychotics	Clozapine, risperidone, olanzapine	Drug dose decrease or discontinue. Can try trihexyphenidyl, clonidine or ipratropium		
Parkinson's / movement disorder drugs	Ropinirole, rivastigmine, pyridostigmine	Drug dose decrease or discontinue. Can try trihexyphenidyl, clonidine or ipratropium		
Oral Pigmentation (Black Hairy Tongue)				
Penicillins	Amoxicillin, Augmentin, Dicloxacillin, Penicillin V	May resolve on its own after completion of therapy. Practice proper oral hygiene.		
Bismuth-Containing- Antacids	Bismuth Subsalicylate	May resolve on its own after completion of therapy. Practice proper oral hygiene.		
Dental Discoloration				
Tetracyclines	Doxycycline, Minocycline, Tetracycline	Avoid use in children, particularly under the age of 8 years old to prevent permanent discoloration.		

