



## **Meds That Should Not Be Crushed**

## full update April 2025

Crushing pills can improve ease of administration, but some shouldn't be crushed. Crushing **extended-release** meds can result in administration of a large dose all at once. Crushing **delayed-release** meds can alter the mechanism designed to protect the drug from gastric acids or prevent gastric mucosal irritation. Crushing **sublingual or buccal** tabs can alter effectiveness. Crushing pills **based on certain technologies** (i.e., amorphous solid dispersion or nanocrystals) can alter bioavailability. Crushing **bitter-tasting** meds can be unpleasant for the patient. Crushing **irritating or hazardous** meds can be harmful to the individual crushing the meds. If hazardous meds [e.g., carcinogenic] must be crushed, follow USP Chapter <800> standards in healthcare settings or advising outpatients on proper procedures. Hazardous meds below explicitly state not to crush in the product information. The NIOSH hazardous meds list is at https://www.cdc.gov/niosh/docs/2025-103/pdfs/2025-103.pdf?id=10.26616/NIOSHPUB2025103.

This table has some **common** meds that should not be crushed; many more may not be listed. Brand names are representative and may not be allinclusive. The most current product labeling for US and Canadian products was used to confirm information, in addition to listed references.

Modified-release: Indicates extended-release or delayed-release formulation.<sup>7</sup>

Medications That Should Not Be Crushed 1,3-5,10,13,14,22				
Generic Name	Brand Name	Dosage Form	Comments	
Acamprosate	Campral (brand discontinued)	Tablet	Modified-release	
Acetaminophen	Tylenol Arthritis Pain Extended-Release (US)	Tablet	Modified-release	
Acoramidis	Attruby	Tablet	• No information on the effects of crushing	
Adagrasib	Krazati (US)	Tablet	• Risk of instability; contact manufacturer for crushing instructions <sup>1</sup>	
Alendronate	Fosamax	Tablet	• Irritant (oropharyngeal)	
Alfuzosin	Uroxatral (US), Xatral (Canada)	Tablet	Modified-release	
Alprazolam	Xanax XR (US)	Tablet	Modified-release	
Ambrisentan	Letairis (US), Volibris (Canada)	Tablet	• Risk of fetal harm and impaired fertility	
Amoxicillin/Clavulanate	Augmentin XR (US; brand discontinued)	Tablet	Modified-release	
			• Scored tablets can be split	
Aprepitant	Emend (US)	Capsule	• Nanocrystal <sup>9</sup>	
Asciminib	Scemblix	Tablet	• Potential for altered release or absorption due to salt form conversion <sup>1</sup>	

Generic Name	Medications That Should		
	Brand Name	Dosage Form	Comments
Aspirin	Ecotrin	Tablet	Modified-release
			• Irritant (gastric)
Aspirin/Dipyridamole	Aggrenox (US; brand discontinued)	Capsule	Modified-release
Atogepant	Qulipta	Tablet	• May be an amorphous solid disperson <sup>1</sup>
Atomoxetine	Strattera	Capsule	• Irritant (ocular)
Avacopan	Tavneos	Capsule	• May be an amorphous solid disperson <sup>1</sup>
Avapritinib	Ayvakit	Tablet	• Potential for altered release or absorption due to changes in crystalline form or particle size <sup>1</sup>
Belumosudil	Rezurock	Tablet	• Potential for altered release or absorption due to salt form conversion <sup>1</sup>
Benzonatate	Tessalon Perles (US)	Capsule	• Local anesthetic effect could increase the risk of choking
Bexagliflozin	Brenzavvy (US)	Tablet	• Modified-release <sup>20</sup>
Bisacodyl	Dulcolax	Tablet	Modified-release
			• Irritant (gastric)
Brivaracetam	Briviact (US), Brivlera (Canada)	Tablet	• Bad taste <sup>10</sup>
Bosutinib	Bosulif	Tablet	Riks of fetal harm and impaired fertility
Budesonide	Entocort EC (US),	Capsule	Modified-release
	Entocort (Canada)		• Can be opened for administration of intact granules
Budesonide	Uceris (US)	Tablet	Modified-release
Buprenorphine	Belbuca (US)	Film	Sublingual dosage form
Bupropion	Aplenzin (US), Forfivo XL (US), Wellbutrin SR (US), Wellbutrin XL, Zyban	Tablet	Modified-release
Cabozantinib	Cabometyx, Cometriq (US)	Capsule, Tablet	Risk of fetal harm and impaired fertility
Capivasertib	Truqap	Tablet	No information on the effects of crushing
Capmatinib	Tabrecta	Tablet	• Potential for altered release or absorption due to salt form conversion <sup>1</sup>
Carbamazepine	Carbatrol (US),	Capsule	Modified-release
•	Equetro (US)		• Can be opened for administration of intact granules
Carbamazepine	Tegretol XR (US), Tegretol CR (Canada)	Tablet	Modified-release

Medications That Should Not Be Crushed 1,3-5,10,13,14,22			
Generic Name	Brand Name	Dosage Form	Comments
Carvedilol	Coreg CR (US; brand discontinued)	Capsule	Modified-release
			• Can be opened for administration of intact granules
Cefuroxime	Ceftin (brand discontinued)	Tablet	Bad taste
Ciprofloxacin	Cipro (US; brand discontinued in Canada)	Tablet	Bad taste
Ciprofloxacin	Cipro XR (US); Cipro XL (Canada; brand discontinued)	Tablet	Modified-release
Clarithromycin	Biaxin XL	Tablet	Modified-release
Clonidine	Kapvay (US)	Tablet	Modified-release
Colestipol	Colestid	Tablet	Choking hazard
Cyclobenzaprine	Amrix (US)	Capsule	Modified-release
Cyclophosphamide	Cytoxan (US), Procytox (Canada)	Capsule (US), Tablet	Carcinogenic     Cytotoxic     Risk of fetal harm and impaired fertility
Dabigatran	Pradaxa	Capsule	• Intact product must be taken to avoid increased exposure (bioavailability)
Dalfampridine	Ampyra (US)	Tablet	Modified-release
Darifenacin	Enablex	Tablet	Modified-release
Dasatinib	Sprycel	Tablet	Riks of fetal harm and impaired fertility
Deferasirox	Exjade	Tablet	• Tablet is for oral suspension
Desvenlafaxine	Pristiq	Tablet	Modified-release
Dexlansoprazole	Dexilant	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Dexmethylphenidate	Focalin XR (US)	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Dextroamphetamine	Dexedrine Spansule	Capsule	<ul> <li>Modified-release</li> <li>Can be opened for administration of intact granules<sup>5</sup></li> </ul>
Dextroamphetamine/ Amphetamine	Adderall XR	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Diclofenac	Voltaren (brand discontinued)	Tablet	Modified-release     Irritant (gastric) <sup>11</sup>

Medications That Should Not Be Crushed <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Diclofenac/misoprostol	Arthrotec	Tablet	Modified-release
			• Irritant (gastric) <sup>11</sup>
			• Risk of fetal harm
Diclofenac	Voltaren XR (US: Brand discontinued), Voltaren SR (Canada)	Tablet	Modified-release
Diflunisal	Dolobid (US; brand discontinued)	Tablet	• Irritant (gastric) <sup>5</sup>
Diltiazem	Cardizem CD (US), Cardizem LA (US),	Tablet,	Modified-release
	Cartia XT (US), Dilt-XR (US), Tiazac,	Capsule	• Can be opened for administration of intact granules
	Tiazac XC (Canada)		(Tiazac)
Dimethyl Fumarate	Tecfidera	Capsule	Modified-release
Disopyramide	Norpace CR (US)	Capsule	Modified-release
Divalproex	Depakote Sprinkle (US)	Capsule	Modified-release
			• Can be opened for administration of intact granules
Divalproex	Depakote (US), Depakote ER (US), Epival (Canada)	Tablet	Modified-release
Docusate Sodium	Colace	Capsule	Bad taste
Donepezil	Aricept (23 mg strength only [US])	Tablet	• Intact product must be taken to avoid increased rate of absorption <sup>5</sup>
Doxazosin	Cardura XL (US)	Tablet	Modified-release
Doxycycline	Doryx (US),	Capsule, Tablet	Modified-release
	Apprilon (Canada)		• Scored tablets can be broken up, taking care not to
			crush the pellets.
Drospirenone/estetrol	Nextstellis	Tablet	• Low-dose product with risk of instability <sup>1</sup>
Duloxetine	Cymbalta	Capsule	Modified-release
Dutasteride	Avodart,	Capsule	Risk of fetal harm and impaired fertility
	Jalyn		• Irritant (oropharyngeal)
Elacestrant	Orserdu	Tablet	• Crushing may alter bioavailability <sup>7</sup>
Elbasvir/Grazoprevir	Zepatier (US)	Tablet	• Amorphous solid dispersion <sup>9</sup>
Elexacaftor/Tezacaftor/	Trikafta	Tablet	• Amorphous solid dispersion <sup>9</sup>
Ivacaftor			
Ensartinib	Ensacove (US)	Capsule	• No information on the effects of opening capsules
Enzalutamide	Xtandi	Capsule	Risk of fetal harm and impaired fertility

<b>Medications That Should Not Be Crushed</b> <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Ergotamine	Ergomar (US)	Tablet	For sublingual administration
Erythromycin delayed- release	Ery-Tab (US)	Tablet	Modified-release
Erythromycin ethylsuccinate	E.E.S. (US)	Tablet	• Bad taste <sup>18</sup>
Esomeprazole	Nexium	Capsule (US), Tablet (Canada)	<ul> <li>Modified-release</li> <li>Capsule can be opened for administration of intact granules<sup>12</sup></li> </ul>
Esomeprazole/naproxen	Vimovo (brand discontinued in US)	Tablet	Modified-release
Eszopiclone	Lunesta (US)	Tablet	Bad taste
Etravirine	Intelence	Tablet	<ul> <li>Amorphous solid dispersion<sup>9</sup></li> <li>Tablet may be dispersed in water</li> <li>Scored tablets can be split</li> </ul>
Everolimus	Afinitor, Zortress (US)	Tablet	<ul> <li>Amorphous solid dispersion<sup>9</sup></li> <li>Risk of fetal harm and impaired fertility</li> </ul>
Felodipine	Plendil (brand discontinued in US)	Tablet	Modified-release
Fenofibrate	TriCor (US; brand discontinued)	Tablet	• Nanocrystal <sup>9</sup>
Ferrous Sulfate	Feosol	Tablet	• Mucosal ulceration <sup>2</sup>
Fesoterodine	Toviaz	Tablet	Modified-release
Fexofenadine/ Pseudoephedrine	Allegra-D	Tablet	Modified-release
Fezolinetant	Veozah	Tablet	• Effect of crushing on pharmacokinetics is unknown <sup>19</sup>
Finasteride	Propecia, Proscar	Tablet	• Risk of fetal harm
Fluoxetine	Prozac Weekly (US; brand discontinued)	Capsule	Modified-release
Fluvastatin	Lescol XL (US)	Tablet	Modified-release (Lescol XL)
Fluvoxamine	Luvox CR (US; brand discontinued)	Capsule	Modified-release
Futibatinib	Lytgobi (US)	Tablet	• Low-dose product with risk of instability <sup>1</sup>
Gabapentin	Gralise (US), Horizant (US)	Tablet	Modified-release

<b>Medications That Should Not Be Crushed</b> <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Galantamine	Razadyne ER (US; brand discontinued), Zunveyl (US), Reminyl ER (Canada; brand discontinued)	Capsule, Tablet	Modified-release
Gepirone	Exxua (US)	Tablet	Modified-release
Glecaprevir/Pibrentasvir	Mavyret	Tablet	• Amorphous solid dispersion <sup>9</sup>
Glipizide	Glucotrol XL (US)	Tablet	Modified-release
Guaifenesin	Mucinex (US)	Tablet	Modified-release
Guaifenesin/ Dextromethorphan	Mucinex DM (US)	Tablet	Modified-release
Guaifenesin/ Pseudoephedrine	Mucinex D (US)	Tablet	Modified-release
Guanfacine	Intuniv (US), Intuniv XR (Canada)	Tablet	Modified-release
Hydroxyurea	Droxia (US; brand discontinued), Hydrea, Siklos (US)	Capsule, Tablet	<ul><li>Cytotoxic</li><li>Risk of fetal harm and impaired fertility</li></ul>
Ibandronate	Boniva (US; brand discontinued)	Tablet	• Irritant (oropharyngeal)
Ibuprofen	Advil, Motrin	Tablet	• Bad taste <sup>4</sup>
Imatinib	Gleevec	Tablet	<ul> <li>Irritant (gastrointestinal)</li> <li>Scored tablets can be split</li> <li>Can be dispersed in water</li> <li>Risk of fetal harm</li> </ul>
Inavolisib	Itovebi (US)	Tablet	No information on the effects of crushing
Indomethacin	Indocin SR (US; brand discontinued)	Capsule	<ul> <li>Modified-release</li> <li>Can be opened for administration of intact granules<sup>4</sup></li> </ul>
Iptacopan	Fabhalta	Capsule	No information on the effects of opening capsules
Isavuconazonium Sulfate	Cresemba	Capsule	• Risk of instability or reduced absorption <sup>15</sup>
Isosorbide Mononitrate	Imdur (US; brand discontinued)	Tablet	<ul><li>Modified-release</li><li>Scored tablets can be split</li></ul>

Medications That Should Not Be Crushed <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Isotretinoin	Absorica (US), Absorica LD, Accutane (Canada), Amnesteem (US), Claravis (US), Clarus (Canada), Epuris (Canada), Myorisan (US), Zenatane (US)	Capsule	• Irritant (esophageal) • Teratogenic
Itraconazole	Sporanox	Capsule	• Amorphous solid dispersion <sup>9</sup>
Ivacaftor	Kalydeco	Tablet	• Amorphous solid dispersion <sup>9</sup>
Ivosidenib	Tibsovo	Tablet	• Amorphous solid dispersion <sup>9</sup>
Lamotrigine	Lamictal XR (US)	Tablet	Modified-release
Lansoprazole	Prevacid	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Lansoprazole	Prevacid SoluTab (US), Prevacid FasTab (Canada)	Tablet	• Should be dissolved in the mouth, not chewed
Lazertinib	Lazcluze	Tablet	No information on the effects of crushing
Lenalidomide	Revlimid	Capsule	Teratogenic
Lenacapavir	Sunlenca	Tablet	• Potential for altered release or absorption due to salt form conversion <sup>1</sup>
Lenvatinib	Lenvima	Capsule	Risk of fetal harm and impaired fertility
Levetiracetam	Keppra	Tablet	• Bad taste <sup>4</sup>
Levetiracetam	Keppra XR (US)	Tablet	Modified-release
Levodopa/Carbidopa	Sinemet CR	Tablet	<ul><li>Modified-release</li><li>Scored tablets can be split</li></ul>
Levomilnacipran	Fetzima	Capsule	Modified-release
Lithium Carbonate	Lithobid (US), Lithmax (Canada)	Tablet	Modified-release
Lopinavir/Ritonavir	Kaletra	Tablet	<ul> <li>Amorphous solid dispersion<sup>9</sup></li> <li>Reduced bioavailability with crushing<sup>8</sup></li> </ul>
Loratadine/ Pseudoephedrine	Claritin-D (US), Claritin Allergy and Sinus (Canada)	Tablet	Modified-release
Lovastatin	Altoprev (US)	Tablet	Modified-release
Lubiprostone	Amitiza	Capsule	• Exposure of capsule contents will impair absorption <sup>25</sup>
Lumacaftor/Ivacaftor	Orkambi	Tablet	• Amorphous solid dispersion <sup>9</sup>

	Medications That Should Not Be Crushed <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments	
Mavorixafor	Xolremdi	Capsules	No information about the effects of opening capsules	
Memantine	Namenda XR (US)	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>	
Mesalamine (mesalazine)	Apriso (US), Asacol HD (US; brand discontinued), Delzicol (US; brand discontinued), Lialda (US), Mezavant (Canada), Octasa (Canada), Pentasa	Tablet, Capsule	Modified-release     Capsules can be opened for administration of intact granules (Delzicol, Pentasa)	
Metformin	Fortamet (US), Glucophage XR (US; brand discontinued), Glumetza	Tablet	Modified-release	
Methylphenidate	Aptensio XR (US), Biphentin (Canada), Metadate CD (US), Foquest (Canada), Jornay PM, Metadate CD, Ritalin LA (US)	Capsule	Modified-release     Can be opened for administration of intact granules	
Methylphenidate	Concerta, Cotempla XR-ODT (US), Relexxii (US), Ritalin SR (Canada; brand discontinued)	Tablet	Modified-release	
Metoprolol Succinate	Toprol-XL (US)	Tablet	Modified-release     Scored tablets can be split	
Miltefosine	Impavido	Capsule	Teratogenic     Risk of impaired fertility	
Minocycline	Emrosi (US), Solodyn (US; brand discontinued)	Capsule, Tablet	Modified-release	
Mirabegron	Myrbetriq	Tablet	Modified-release	
Momelotinib	Ojjaara	Tablet	No information on the effects of crushing	
Morphine Sulfate	Avinza (US; brand discontinued); Kadian (Canada; brand discontinued in US)	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>	
Morphine Sulfate	MS Contin	Tablet	Modified-release	
Mycophenolate	CellCept	Capsule, Tablet	<ul> <li>Teratogenic<sup>23</sup></li> <li>Irritant<sup>23</sup></li> <li>Immunosuppressive</li> </ul>	
Mycophenolic Acid	Myfortic	Tablet	Modified-release	

	<b>Medications That Should Not Be Crushed</b> <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	<b>Dosage Form</b>	Comments	
			Teratogenic	
			• Immunosuppressive	
Naproxen	EC Naprosyn (US), Naprelan (US), Pronaproxen EC (Canada), Teva-naproxen EC (Canada)	Tablet	Modified-release	
Nevirapine	Viramune XR (US)	Tablet	Modified-release	
Niacin	Niaspan (US; brand discontinued)	Tablet	Modified-release	
Nicotine	Nicorette (US)	Lozenge	Should be dissolved in the mouth, not chewed	
Nifedipine	Adalat CC (US; brand discontinued), Adalat Oros (Canda), Procardia XL (US), Adalat XL (Canada)	Tablet	Modified-release	
Nilotinib	Tasigna, Danziten (US)	Capsule	<ul> <li>Modified-release</li> <li>Risk of fetal harm</li> <li>Can be opened for administration of intact granules</li> </ul>	
Nirmatrelvir/ritonavir	Paxlovid	Tablets	No information on the effects of crushing	
Nirogacestat	Ogsiveo (US)	Tablet	• In one clinical trial, could be dispersed in water (may not fully dissolve). Ora-Sweet could be added. <sup>6</sup>	
Nisoldipine	Sular (US)	Tablet	Modified-release	
Nitroglycerin	Nitrostat	Tablet	Sublingual dosage form	
Olaparib	Lynparza	Tablet	Amorphous solid dispersion <sup>9</sup> Risk of fetal harm	
Omaveloxolone	Skyclarys	Capsule	Can be opened for administration	
Omeprazole	Prilosec (US), Losec (Canada)	Capsule, Tablet	<ul> <li>Modified-release</li> <li>Capsule can be opened for administration of intact granules<sup>5</sup></li> </ul>	
Opicapone	Ongentys (US)	Capsule	• Potential for instability <sup>1</sup>	
Orphenadrine	Norflex ER (US)	Tablet	Modified-release	
Oxybutynin	Ditropan XL (US; brand discontinued)	Tablet	Modified-release	
Oxycodone	OxyContin (US), OxyNEO (Canada), Xtampza ER (US)	Capsule, Tablet	Modified-release	
Oxymorphone	Opana ER (US; brand discontinued)	Tablet	Modified-release	
Paliperidone	Invega	Tablet	Modified-release	

<b>Medications That Should Not Be Crushed</b> <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Pancreatic Enzymes	Cotazym (Canada), Creon, Pancrease (Canada), Pancreaze (US), Pertzye (US), Viokace, Zenpep (US)	Capsule	<ul> <li>Modified-release (capsules)</li> <li>Irritant (oral mucosal)</li> <li>Capsules can be opened for administration of intact granules</li> </ul>
Pantoprazole	Protonix (US), Pantoloc (Canada)	Tablet	Modified-release
Paroxetine	Paxil CR	Tablet	Modified-release     Risk of fetal harm and impaired fertility
Pazopanib	Votrient	Tablet	Increased absorption     Risk of fetal harm and impaired fertility
Pentoxifylline	Trental (US; brand discontinued)	Tablet	Modified-release
Piroxicam	Feldene (US)	Capsule	• Irritant (oropharyngeal) <sup>4</sup>
Pirtobrutinib	Jaypirca (US)	Tablet	• Risk of fetal harm
Pomalidomide	Pomalyst	Capsule	Teratogenic
Posaconazole	Noxafil (US; brand discontinued), Posanol (Canada)	Tablet	Amorphous oral dispersion <sup>9</sup> Modified-release
Potassium Chloride	Micro-K (US; brand discontinued)	Capsule	<ul> <li>Modified-release</li> <li>Can be opened for administration of intact granules<sup>4</sup></li> </ul>
Potassium Chloride	Klor-Con (US), K-tab (US; brand discontinued)	Tablet	Modified-release
Potassium Chloride	Klor-Con (US; brand discontinued)	Capsule	Modified-release
Potassium Chloride	K-Dur (US; brand discontinued)	Tablet	<ul><li>Modified-release</li><li>Scored tablet may be cut in half.</li><li>May be dispersed in water.</li></ul>
Pralsetinib	Gavreto	Capsule	• Potential for instability <sup>1</sup>
Praziquantel	Biltricide (brand discontinued in US)	Tablet	<ul><li>Bad taste</li><li>Scored tablets can be split</li></ul>
Propafenone	Rythmol SR (US; brand discontinued)	Capsule	Modified-release
Propranolol	Inderal LA (US), InnoPran XL (US), Lupin-propranolol LA (Canada)	Capsule	Modified-release
Pseudoephedrine	Sudafed 12 Hour (US)	Tablet	Modified-release

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Generic Name	Brand Name	Dosage Form	Comments
Pseudoephedrine/ Desloratadine	Clarinex D (US)	Tablet	Modified-release
Pseudoephedrine/ Fexofenadine	Allegra D	Tablet	Modified-release
Pyridostigmine	Mestinon Timespan (US), Mestinon SR (Canada)	Tablet	Modified-release
Quetiapine	Seroquel XR	Tablet	Modified-release
Quizartinib	Vanflyta	Tablet	• In one clinical trial, tablets could be dissolved in water <sup>21</sup>
Rabeprazole	Aciphex (US), Aciphex Sprinkle (US), Pariet (Canada)	Capsule, Tablet	Modified-release
Raloxifene	Evista	Tablet	<ul> <li>Bad taste<sup>4</sup></li> <li>Risk of fetal harm</li> <li>Evidence of tumors at low doses in lab studies<sup>14</sup></li> </ul>
Ranolazine	Ranexa (US; brand discontinued), Corzyna (Canada)	Tablet	Modified-release
Regorafenib	Stivarga	Tablet	Amorphous solid dispersion <sup>9</sup> Risk of fetal harm and impaired fertility
Repotrectini	Augtyro (US)	Capsule	No information on the effects of opening capsules
Ripretinib	Qinlock	Tablet	• May be an amorphous solid disperson <sup>1</sup>
Risedronate	Actonel	Tablet	• Irritant (oropharyngeal)
Risedronate	Atelvia (US), Actonel DR (Canada)	Tablet	Modified-release     Irritant (oropharyngeal)
Risperidone	Risperdal M-Tab (US; brand discontinued)	Tablet	Must be allowed to dissolve on the tongue
Ritlecitinib	Litfulo	Capsule	No information on the effects of opening capsules
Ritonavir	Norvir	Tablet	• Amorphous solid dispersion <sup>9</sup>
Ropinirole	Requip XL (US; brand discontinued)	Tablet	Modified-release
Selumetinib	Koselugo	Capsules	• Special dosage form (semi-solid fill content) suggests bioavailability may be altered if crushed <sup>1</sup>
Sirolimus	Rapamune	Tablet	• Nanocrystal <sup>9</sup>

Medications That Should Not Be Crushed 1,3-5,10,13,14,22			
Generic Name	Brand Name	Dosage Form	Comments
Solifenacin	Vesicare	Tablet	Bad taste
Sotagliflozin	Inpefa	Tablet	No information on the effects of crushing
Sulfasalazine	Azulfidine EN-Tabs (US), Salazopyrin EN (Canada)	Tablet	Modified-release
Suvorexant	Belsomra (US)	Tablet	• Amorphous solid dispersion <sup>9</sup>
Suzetrigine	Journavx (US)	Tablet	• Can be dispersed in a small amount of water for immediate administration. <sup>24</sup>
Tacrolimus	Astagraf XL (US), Prograf	Capsule	• Amorphous solid dispersion <sup>9</sup>
Tamsulosin	Flomax (US; brand discontinued), Flomax CR (Canada; brand discontinued)	Capsule, Tablet	<ul> <li>Modified-release</li> <li>Capsule may be opened for administration of intact beads.<sup>16</sup></li> </ul>
Tapentadol	Nucynta ER	Tablet	Modified-release
Temozolomide	Temodar (US; brand discontinued), Temodal (Canada)	Capsule	Cytotoxic     Risk of fetal harm and impaired fertility
Tezacaftor/Ivacaftor	Symdeko	Tablet	• Amorphous solid dispersion <sup>9</sup>
Theophylline	Theo-24 (US)	Capsule	<ul><li>Modified-release</li><li>Can be opened for administration of intact granules</li></ul>
Theophylline	Theo-ER (Canada), Uniphyl (US; brand discontinued), Theo-Dur (US; brand discontinued)	Tablet	Modified-release
Tipranavir	Aptivus	Capsule	• Bad taste <sup>4</sup>
Tolterodine	Detrol LA	Capsule	Modified-release
Topiramate	Topamax	Capsule, Tablet	Bad taste     Capsules can be opened for administration of intact granules
Topiramate	Qudexy XR (US), Trokendi XR (US)	Capsule	<ul> <li>Modified-release</li> <li>Can be opened for administration of intact granules (Qudexy XR)</li> </ul>
Tramadol	ConZip (US), Ultram ER (US; brand discontinued), Zytram XL (Canada)	Capsule, Tablet	Modified-release
Trazodone	Desyrel (brand discontinued)	Tablet	<ul> <li>Bad taste<sup>5</sup></li> <li>Scored tablets can be split</li> </ul>

Medications That Should Not Be Crushed <sup>1,3-5,10,13,14,22</sup>			
Generic Name	Brand Name	Dosage Form	Comments
Tucatinib	Tukysa	Tablet	May be an amorphous solid disperson <sup>1</sup>
Vadadustat	Vafseo (US)	Tablet	No information on the effects of crushing
Valganciclovir	Valcyte	Tablet	• Irritant <sup>17</sup> • Risk fetal harm and impaired fertility • Carcinogenic
Valproic Acid	Depakene (brand discontinued)	Capsule	• Irritant (oropharyngeal)
Vandetanib	Caprelsa	Tablet	<ul><li> Tablet may be dispersed in water.</li><li> Risk of fetal harm and impaired fertility</li></ul>
Vemurafenib	Zelboraf	Tablet	• Amorphous solid dispersion <sup>9</sup>
Venetoclax	Venclexta	Tablet	• Amorphous solid dispersion <sup>9</sup>
Venlafaxine	Effexor XR	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Verapamil	Verelan (US), Verelan PM (US)	Capsule	<ul><li> Modified-release</li><li> Can be opened for administration of intact granules</li></ul>
Verapamil	Isoptin SR (brand discontinued in US)	Tablet	Modified-release     Scored tablets can be split
Vimseltinib	Romvimza (US)	Capsule	No information on the effects of opening capsules
Vismodegib	Erivedge	Capsule	Teratogenic
Voclosporin	Lupkynis	Capsule	Special dosage form (one-piece soft gelatin capsule) suggests bioavailability may be altered if crushed <sup>1</sup>
Vorasidenib	Voranigo	Tablet	• No information on the effects of crushing
Vorinostat	Zolinza	Capsule	Risk of fetal harm and impaired fertility
Xanomeline/trospium	Cobenfy (US)	Capsule	No information on effects of opening capsules
Zileuton	Zyflo CR (US; brand discontinued)	Tablet	Modified-release
Zolpidem	Ambien CR (US)	Tablet	Modified-release
Zolpidem	Edluar (US), Intermezzo (US; brand discontinued)	Tablet	Sublingual dosage form

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Users of this resource are cautioned to use their own professional judgment and consult any other necessary or appropriate sources prior to making clinical judgments based on the content of this document. Our editors have researched the information with input from experts, government agencies, and national organizations. Information and internet links in this article were current as of the date of publication.

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