



Oral Dosage Forms That Should Not Be Crushed

John F. Mitchell, Pharm.D., FASHP
Medication Safety Coordinator
University of Michigan Hospitals and Health Centers ¹



Last updated: 11/8/06

Wall charts may be purchased by contacting
Facts and Comparisons (800-223-0554)
<http://www.factsandcomparisons.com/hospitalpharm/>

Drug Product	Dosage Form	Dosage Reasons/Comments ²
Aciphex	Tablet	Slow-release
Actonel	Tablet	Irritant Note: chewed, crushed, or sucked tablets May cause oropharyngeal irritation
Accuhist-LA	Tablet	Slow-release (h)
Accutane	Capsule	Mucous membrane irritant
Actiq	Lozenge	Slow-release Note: this lollipop delivery system requires the patient to slowly allow dissolution
Adalat CC	Tablet	Slow-release
Aggrenox	Capsule	Slow-release Note: Capsule may be opened. Contents include an aspirin tablet that may be chewed and dipyridamole pellets that may be sprinkled on applesauce
Adderall XR	Capsule	Slow-release (a)
Advicor	Tablet	Slow-release
AeroHist Plus	Tablet	Slow-release (h)
Afeditab CR	Tablet	Slow-release

Alavert Allergy Sinus 12 Hour	Tablet	Slow-release
Allegra-D	Tablet	Slow-release
Altacor	Tablet	Slow-release
Ambien CR	Tablet	Slow-release
Andrx	Tablet	Slow-release
Arthritis Bayer Time Release	Capsule	Slow-release
Arthrotec	Tablet	Enteric-coated
ASA Enseals	Tablet	Enteric-coated
Asacol	Tablet	Slow-release
Ascriptin A/D	Tablet	Enteric coated
Ascriptin Extra Strength	Tablet	Enteric coated
Azulfidine EN-tabs	Tablet	Enteric-coated
Augmentin XR	Tablet	Slow-release (b,h)
Avinza	Capsule	Slow-release (a; not pudding)
Avodart	Capsule	Note: drug may cause fetal abnormalities; women who are, or may become, pregnant, should not handle capsules; all woman should use caution in handling capsules, especially if leaking
Bayer Enteric-coated	Caplet	Enteric-coated
Bayer Low Adult 81mg	Tablet	Enteric-coated
Bayer Regular Strength 325mg Caplet	Caplet	Enteric-coated
Bellahist-D LA	Tablet	Slow-release
Biaxin-XL	Tablet	Slow-release
Biltricide	Tablet	Taste (h)

Biohist LA	Tablet	Slow-release (h)
Bisacodyl	Tablet	Enteric-coated (c)
Bontril SR	Capsule	Slow-release
Bromafed PD	Capsule	Slow-release
Bromafed SR	Capsule	Slow-release
Budeprion SR	Tablet	Slow-release
Calan SR	Tablet	Slow-release (h)
Campral	Tablet	Slow-release
Carbatrol	Capsule	Slow-release (a)
Cardene SR	Capsule	Slow-release
Cardizem	Tablet	Slow-release
Cardizem CD	Capsule	Slow-release (a)
Cardizem LA	Tablet	Slow-release
Cardizem SR	Capsule	Slow-release (a)
Cardura XL	Tablet	Slow-release
Carter's Little Pills	Tablet	Enteric-coated
Cartia XT	Capsule	Slow-release
Ceftin	Tablet	Taste (b) Note: use suspension for children
CellCept	Capsule, Tablet	Teratogenic potential (i)
Charcoal Plus	Tablet	Enteric-coated
Chloral Hydrate	Capsule	Note: product is in liquid form within a special capsule (b)
Chlor-Trimeton 12-Hour	Tablet	Slow-release (b)
Cipro	Tablet	Taste (e)

Cipro XR	Tablet	Slow-release
Claritin-D 12 Hour	Tablet	Slow-release
Claritin-D 24 Hour	Tablet	Slow-release
Colace	Capsule	Taste (e)
Colestid	Tablet	Slow-release
Comhist LA	Capsule	Slow-release (a)
Compazine Spansule	Capsule	Slow-release (b)
Concerta	Tablet	Slow-release
Commit	Lozenge	Note: integrity compromised by chewing or crushing
Contac 12-Hour	Tablet	Slow-release (a,b)
Cotazym-S	Capsule	Enteric-coated (a)
Covera-HS	Tablet	Slow-release
Creon 5, 10, 20	Capsule	Slow-release (a)
Crixivan	Capsule	Taste Note: capsule may be opened and mixed with fruit puree (e.g., banana)
Cymbalta	Capsule	Slow-release
Cytosan	Tablet	Note: drug may be crushed but company recommends using injection
Cytovene	Capsule	Skin irritant
Dallergy	Capsule	Slow-release
Dallergy - JR	Capsule	Slow-release
Deconamine SR	Capsule	Slow-release (b)
Depakene	Capsule	Slow-release mucous membrane irritant (b)
Depakote	Tablet	Slow-release

Depakote ER	Tablet	Slow-release
Desoxyn	Tablet	Slow-release
Desyrel	Tablet	Taste (e)
Detrol LA	Capsule	Slow-release
Dexedrine Spansule	Capsule	Slow-release
Diamox Sequels	Capsule	Slow-release
Dilacor XR	Capsule	Slow-release
Dilatrate-SR	Capsule	Slow-release
Diltia XT	Capsule	Slow-release
Ditropan XL	Tablet	Slow-release
Dolobid	Tablet	Irritant
Donnatal Extentab	Tablet	Slow-release (b)
Drisdol	Capsule	Liquid filled (d)
DriHist SR	Tablet	Slow-release (h)
Drixoral	Tablet	Slow-release (b)
Drixoral Plus	Tablet	Slow-release
Drixoral Sinus	Tablet	Slow-release
Droxia	Capsule	NOTE: exposure to the powder may cause serious skin toxicities; healthcare workers should wear gloves to administer
Dulcolax	Tablet	Enteric-coated (c)
Dulcolax	Capsule	Liquid-filled
DuraHist	Tablet	Slow-release (h)
Dynabac	Tablet	Enteric-coated
DynaCirc CR	Tablet	Slow-release

Easprin	Tablet	Enteric-coated
EC-Naprosyn	Tablet	Enteric-coated
Ecotrin Adult Low Strength	Tablet	Enteric-coated
Ecotrin Maximum Strength	Tablet	Enteric-coated
Ecotrin Regular Strength	Tablet	Enteric-coated
Ed A-Hist	Tablet	Slow-release
E.E.S. 400	Tablet	Enteric-coated (b)
Effexor XR	Capsule	Slow-release
Efidac/24 Pseudoephedrine	Tablet	Slow-release
Efidac/24	Tablet	Slow-release
E-Mycin	Tablet	Enteric-coated
Enablex	Tablet	Slow-release
Entex LA	Capsule	Slow-release (b)
Entex PSE	Capsule	Slow-release
Entocort EC	Capsule	Enteric-coated (a)
Equetro	Capsule	Slow-release (a)
Ergomar	Tablet	Sublingual form (g)
Eryc	Capsule	Enteric-coated (a)
Ery-Tab	Tablet	Enteric-coated
Erythrocin Stearate	Tablet	Enteric-coated
Erythromycin Base	Tablet	Enteric-coated
Eskalith CR	Tablet	Slow-release

Evista	Tablet	Taste; teratogenic potential (i)
Extendryl JR	Capsule	Slow-release
Extendryl SR	Capsule	Slow-release (b)
Feldene	Capsule	Mucous membrane irritant
Feosol	Tablet	Enteric-coated (b)
Feratab	Tablet	Enteric-coated (b)
Fergon	Tablet	Enteric-coated
Fero-Grad 500 mg	Tablet	Slow-release
Ferro-Sequels	Tablet	Slow-release
Flagyl ER	Tablet	Slow-release
Flomax	Capsule	Slow-release
Focalin XR	Capsule	Slow-release (a)
Fosamax	Tablet	Mucous membrane irritant
Fumatonic	Capsule	Slow-release
Geocillin	Tablet	Taste
GFN / PSE / DM	Tablet	Slow-release
Gleevec	Tablet	Taste (h) Note: may be dissolved in mineral oil or apple juice
Glucophage XR	Tablet	Slow-release
Glucotrol XL	Tablet	Slow-release
Glumetza	Tablet	Slow-release
Gris-Peg	Tablet	Note: crushing may result in precipitation as larger particles
Guaifed	Capsule	Slow-release

Guaifed-PD	Capsule	Slow-release
Guaifenex DM	Tablet	Slow-release (h)
Guaifenex PSE	Tablet	Slow-release (h)
Guaimax-D	Tablet	Slow-release
Histade	Capsule	Slow-release
Hista-Vent DA	Tablet	Slow-release (h)
Humibid DM	Capsule	Slow-release (a)
Humibid LA	Tablet	Slow-release
Hydrea	Capsule	NOTE: exposure to the powder may cause serious skin toxicities; healthcare workers should wear gloves to administer
Iberet Filmtab	Tablet	Slow-release (b)
Iberet 500	Tablet	Slow-release (b)
Iberet-Folic	Tablet	Slow-release
ICaps Time Release	Tablet	Slow-release
Imdur	Tablet	Slow-release (h)
Inderal LA	Capsule	Slow-release
Inderide LA	Capsule	Slow-release
Indocin SR	Capsule	Slow-release (a,b)
Innopran XL	Capsule	Slow-release
Ionamin	Capsule	Slow-release
Isoptin SR	Tablet	Slow-release
Isordil Sublingual	Tablet	Sublingual form (g)
Isosorbide Dinitrate Sublingual	Tablet	Sublingual form (g)

Isosorbide SR	Tablet	Slow-release
K - 8	Tablet	Slow-release (b)
K - 10	Tablet	Slow-release (b)
Kadian	Capsule	Slow-release (a) Note: do give via N/G tubes
Kaon CL	Tablet	Slow-release (b)
K-Dur	Tablet	Slow-release
Klor-Con	Tablet	Slow-release (b)
Klor-Con M	Tablet	Slow-release (b)
Klotrix	Tablet	Slow-release (b)
K-Lyte	Tablet	Effervescent tablet (f)
K-Lyte CL	Tablet	Effervescent tablet (f)
K-Lyte DS	Tablet	Effervescent tablet (f)
K-Tab	Tablet	Slow-release (b)
Lescol XL	Tablet	Slow-release
Levbid	Tablet	Slow-release (h)
Levsinex Timecaps	Capsule	Slow-release
Lexxel	Tablet	Slow-release
Lipram 4500	Capsule	Enteric-coated (a)
Lipram CR, PN, UL	Capsule	Enteric-coated (a)
Lipram (all)	Capsule	Slow-release (a)
Liquibid-D 1200	Tablet	Slow-release (h)
Liquibid-PD	Tablet	Slow-release (h)
Lithobid	Tablet	Slow-release

Lodine-XL	Tablet	Slow-release
Lodrane LD	Capsule	Slow-release (a)
Macrobid	Capsule	Slow-release
Mag-Tab SR	Tablet	Slow-release
Maxifed	Tablet	Slow-release
Maxifed DM	Tablet	Slow-release
Maxifed G	Tablet	Slow-release
Medent-DM	Tablet	Slow-release
Medent LD	Tablet	Slow-release
Mestinon Timespan	Tablet	Slow-release (b)
Metadate ER	Tablet	Slow-release
Metadate CD	Capsule	Slow-release (a)
Methylin ER	Tablet	Slow-release
Micro K	Capsule	Slow-release (a,b)
Morphine sulfate extended-release	Tablet	Slow-release
Motrin	Tablet	Taste (e)
MS Contin	Tablet	Slow-release (b)
Mucinex	Tablet	Slow-release
Muco-Fen-DM	Tablet	Slow-release (h)
Myfortic	Tablet	Slow-release
Naprelan	Tablet	Slow-release
Nasatab LA	Tablet	Slow-release (h)
Nexium	Capsule	Slow-release (a)

Niaspan	Tablet	Slow-release
Nicotinic Acid	Capsule, Tablet	Slow-release
Nifediac CC	Tablet	Slow-release
Nitrofurantoin	Capsule	Slow-release Note: affects only dual-release monohydrate and macrocrystalline forms
Nitrostat	Tablet	Sublingual route (g)
Norflex	Tablet	Slow-release
Norpace CR	Capsule	Slow-release form within a special capsule
Ondrox	Tablet	Slow-release
Opana ER	Tablet	Slow-release Note: tablet disruption may cause a potentially fatal overdose of oxymorphone
Optilets 500	Tablet	Enteric-coated
Oracea	Capsule	Slow-release
Oramorph SR	Tablet	Slow-release (b)
OxyContin	Tablet	Slow-release Note: tablet disruption may cause a potentially fatal overdose of oxycodone
Palgic-D	Tablet	Slow-release (h)
Pancrease	Capsule	Enteric-coated (a)
Pancrease MT	Capsule	Enteric-coated (a)
Pancrecarb MS	Capsule	Enteric-coated (a)
PanMist Jr, LA	Tablet	Slow-release (h)
PanMist DM	Tablet	Slow-release (h)
Pannaz	Tablet	Slow-release (h)

Papaverine Sustained Release	Capsule	Slow-release
Paroxetine CR	Tablet	Slow-release
Paxil CR	Tablet	Slow-release
Pentasa	Capsule	Slow-release
Perdiem	Granules	Wax- coated
PhenaVent D	Tablet	Slow-release (h)
PhenaVent LA	Capsule	Slow-release
Pre-Hist-D	Tablet	Slow-release (h)
Plendil	Tablet	Slow-release
Prelu-2	Capsule	Slow-release
Prevacid	Capsule	Slow-release
Prevacid Suspension	Suspension	Slow-release Note: contains enteric-coated granules
Prilosec	Capsule	Slow-release
Procanbid	Tablet	Slow-release
Procainamide HCL Extended Release	Tablet	Slow-release
Procardia XL	Tablet	Slow-release Note: AUC is unaffected
Profen II	Tablet	Slow-release (h)
Profen II DM	Tablet	Slow-release (h)
Profen Forte DM	Tablet	Slow-release
Pronestyl SR	Tablet	Slow-release
Propecia	Tablet	Note: women who are, or may become, pregnant, should not handle crushed or broken tablets

Proquin XR	Tablet	Slow-release
Proscar	Tablet	Note: women who are, or may become, pregnant, should not handle crushed or broken tablets
Protonix	Tablet	Slow-release
Pseudovent DM	Tablet	Slow-release (h)
Pytest	Capsule	Note: radiopharmaceutical
QDALL	Capsule	Slow-release
Ranexa	Tablet	Slow-release
Razadyne ER	Capsule	Slow-release
Renagel	Tablet	Note: tablets expand in liquid if broken or crushed
Rescon JR	Tablet	Slow-release
Rescon MX	Tablet	Slow-release
Respa-1st	Tablet	Slow-release (h)
Respa-DM	Tablet	Slow-release (h)
Respahist	Capsule	Slow-release (a)
Respaire 120 SR	Capsule	Slow-release
Ritalin SR	Tablet	Slow-release
Rondec TR	Tablet	Slow-release (b)
R-Tanna	Tablet	Slow-release
Rythmol SR	Capsule	Slow-release
Sinemet CR	Tablet	Slow-release
Singlet for Adults	Tablet	Slow-release
SINUvent PE	Tablet	Slow-release (h)

Slo-Niacin	Tablet	Slow-release (h)
Slow-K	Tablet	Slow-release (b)
Slow-Mag	Tablet	Slow-release
Solodyn	Tablet	Slow-release
Somnote	Capsule	Liquid filled
Sudafed 12 hour	Capsule	Slow-release (b)
Sular	Tablet	Slow-release
Symax SR	Tablet	Slow-release
Taztia XT	Capsule	Slow-release
Tegretol-XR	Tablet	Slow-release
Temodar	Capsule	Note: If capsules are accidentally opened or damaged, rigorous precautions should be taken to avoid inhalation or contact of contents with the skin or mucous membranes (i)
Tessalon Perles	Capsule	Slow-release
Theo-24	Capsule	Slow-release (b)
Theochron	Tablet	Slow-release
Theo-Time SR	Tablet	Slow-release
Tiazac	Capsule	Slow-release
Topamax	Tablet Capsule	Taste Taste (a)
Touro CC	Tablet	Slow-release
Touro LA	Tablet	Slow-release
Tracleer	Tablet	Note: women who are, or may become, pregnant, should not handle crushed or broken tablets
Trental	Tablet	Slow-release

Triptone	Tablet	Slow-release
Tussafed LA	Tablet	Slow-release
Tylenol Arthritis	Tablet	Slow-release
Tylenol 8 Hour	Tablet	Slow-release
Ultram ER	Tablet	Slow-release Note: tablet disruption may cause a potentially fatal overdose of tramadol
Ultrase	Capsule	Enteric-coated (a)
Ultrase MT	Capsule	Enteric-coated (a)
Uniphyl	Tablet	Slow-release
Urocit-K	Tablet	Wax-coated
Verelan	Capsule	Slow-release (a)
Videx EC	Capsule	Slow-release
Voltaren XR	Tablet	Slow-release
VoSpire ER	Tablet	Slow-release
Wellbutrin SR, XL	Tablet	Slow-release
Xanax XR	Tablet	Slow-release
Z-Cof LA	Tablet	Slow-release (h)
Zephrex LA	Tablet	Slow-release
ZORprin	Tablet	Slow-release
Zyban	Tablet	Slow-release

(a) Capsule may be opened and the contents taken without crushing or chewing; soft food such as applesauce or pudding may facilitate administration; contents may generally be administered via nasogastric tube using an appropriate fluid provided entire contents are washed down the tube.

- (b) Liquid dosage forms of the product are available; however, dose, frequency of administration and manufacturers may differ from that of the solid dosage form.
- (c) Antacids and/or milk may prematurely dissolve the coating of the tablet.
- (d) Capsule may be opened and the liquid contents removed for administration.
- (e) The taste of this product in a liquid form would likely be unacceptable to the patient; administration via nasogastric tube should be acceptable.
- (f) Effervescent tablets must be dissolved in the amount of diluent recommended by the manufacturer.
- (g) Tablets are made to disintegrate under the tongue.
- (h) Tablet is scored and may be broken in half without affecting release characteristics .
- (i) Skin contact may enhance tumor production; avoid direct contact.

Disclaimer: This listing is not meant to represent all products, either by generic or trade name. The author encourages manufacturers, pharmacists, nurses, and other health professionals to notify him of any changes or updates.

1. Correspondence regarding this list may be addressed to:

John F. Mitchell, Pharm.D., FAHSP
Department of Pharmacy Services
B2D 301 University Hospital
1500 E. Medical Center Drive
Ann Arbor, MI 48109-0008

Email: johnfm@umich.edu

2. Two official USP terms are used to designate special-release medication forms: "extended release" and "delayed release". Others such as "sustained release", "controlled release", etc. are commonly used on package labeling. The term "Slow-release" is being used here to signify all such drugs with a special-release mechanism.