Reviewed December 2022

Te Whatu Ora

Health New Zealand

Waitematā

Guide for Crushing Oral Medication for Residents with Swallowing Difficulties in Residential Aged Care

Medicine	Funded brand	Form	Administration if swallowing difficulties
ACICLOVIR	Lovir	Tablet	Soluble, dispersible ⁴ Swallow whole or disperse in at least 50mL of water ³
ALENDRONATE, ALENDRONATE <i>with</i> COLECALCIFEROL	Fosamax Fosamax Plus	Tablet	Do not divide, crush, chew or disperse ^{3,4} Mucous membrane irritant ^{1,4} Alternate bisphosphonate available as injection ³
ALLOPURINOL	DP-Allopurinol	Tablet	Scored, may be halved ³ Can crush and mix with water or yoghurt or apple puree ⁴
ALUMINIUM HYDROXIDE	Alu-Tab	Tablet	Film coated. Can crush; mix powder with 5- 10mL water, and give immediately. ⁴ If aspiration risk, may crush and mix with yoghurt. ⁴
AMIODARONE	Aratac	Tablet	Scored, uncoated tablet. ³ May disperse tablet; disperses within 5min. If it does not disperse within 5 min, may crush ⁴ Tablets have a bitter taste, may be given with fruit juice ⁴
AMITRIPTYLINE	Arrow- Amitriptyline	Tablet	Film coated ³ Can crush but tablet has a bitter burning taste and may numb mouth, ensure mouth is rinsed well after taking ⁴
AMLODIPINE	Vasorex	Tablet	Do not halve ³ Disperse the tablet in water or crush and mix with apple puree, tablet has a bitter taste ⁴
AMOXICILLIN	Alphamox	Capsule	Alternative route available ³ Oral liquid form available ³
AMOXICILLIN/ CLAVULANIC ACID	Curam Duo 500/125	Tablet	Film coated ³ Can crush, but use immediately (clavulanic acid is sensitive to moisture) ⁴ . Wear a mask and gloves if crushing. Alternative route available; oral liquid form available ³
ARIPIPRAZOLE	Aripiprazole Sandoz	Tablet	Can crush and mix with water or yoghurt or apple puree. Wear a mask and gloves if crushing ⁴
ANASTRAZOLE	Anatrole	Tablet	Film coated3. Do not halve ³ Disperse in water, may take up to 8min to disperse. Wear a mask and gloves if dispersing and do not disperse if you are pregnant. ⁴

Disclaimer: This document is considered to be a guide only and is not intended to replace sound clinical practice. Occupational health and safety risks in crushing medicines can be significant. Crushing tablets may have repercussions on the licensed status of the medicine and how the medicine may affect the patient. Please check with a pharmacist for further advice if necessary.

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
ASCORBIC ACID	Cvite	Tablet	No information.
ASCORDIC ACID	Cvite	Tablet	Chewable tablet available but not funded ⁷
ASPIRIN EC	Ethics Aspirin EC	Tablet	Enteric coated, swallow whole; ⁷ do not divide, crush, chew or disperse ^{4,7} Soluble, dispersible tablet available ⁷
ASPIRIN (dispersible)	Ethics Aspirin	Tablet	Soluble, dispersible; dissolve in 10-20ml of water before taking ⁷
ATENOLOL	Mylan Atenolol	Tablet	Film coated, may be halved ³ Disperse in water or if not dispersed in 5min, can crush ⁴
ATORVASTATIN	Lorstat	Tablet	Film coated; 20mg, 40mg and 80mg may be halved ³ Disperse tablet in water or if slow to disperse, can crush. Do not disperse or crush tablet if you are pregnant ⁴
AZATHIOPRINE	Azamun	Tablet	Film coated ³ Swallow whole, do not divide or chew ^{3,4}
BACLOFEN	Pacifen	Tablet	Disperse tablet in water or crush and mix with yoghurt or apple puree. ⁴ Oral liquid is available ⁷
BENDROFLUMETHIAZIDE	Arrow- Bendrofluazide	Tablet	Do not halve ³
BETAHISTINE	Vergo 16	Tablet	No information
	Serc	Tablet	Crush the tablet and mix with water or yoghurt or apple puree ⁴
BEZAFIBRATE	Bezalip	Tablet	Film coated tablet, swallow whole ³
BEZAFIBRATE SR	Bezalip Retard	Tablet	Sustained release, film coated, swallow whole ³
BICALUTAMIDE	Binarex	Tablet	Occupational exposure may be harmful. Do not crush if pregnant, crush in a closed tablet crusher, tablet is difficult to crush. ⁴
BISACODYL EC	Bisacodyl laxative PSM	Tablet	Enteric sugar coated; swallow whole ³ Do not divide, crush, chew or disperse ⁴ Alternative route available, suppositories available ³
BISOPROLOL	Bisoprolol Mylan	Tablet	Film coated tablet ³ Swallow whole, do not chew ³
BUMETANIDE	Burinex Section 29	Tablet	May be crushed⁴
BUSPIRONE	Viatris Buspirone	Tablet	No information
CALCITRIOL	Calcitriol-AFT	Capsule	No information
CALCIUM CARBONATE	Calci-Tab 500	Tablet	May be crushed ⁴ Oral liquid form avaliable ⁷

Medicine	Funded brand	Form	Administration if swallowing difficulties
CANDECADTAN	Candagtar	Toblet	May be helyed ³
CANDESARTAN	Candestar	Tablet	May be halved ³ May crush and mix with water, yoghurt or apple puree Do not crush if you are pregnant ⁴
CARBAMAZEPINE	Tegretol	Tablet	May disperse in water ⁴ . Wear a mask and gloves and do not disperse if pregnant ⁴ Oral liquid form available ⁷
CARBAMAZEPINE CR	Tegretol CR	Tablet	Controlled release, film coated ³ May be halved ³ Do not crush, chew or disperse ⁴
CARBIMAZOLE	Neo-Mercazole	Tablet	May be crushed ⁴ Wear a mask a gloves if crushing, do not crush if pregnant ⁴
CARVEDILOL	Carvedilol Sandoz	Tablet	May be dispersed in water within 1-8 min ⁴
CEFACLOR CETIRIZINE	Ranbaxy-Cefactor Zista	Capsule Tablet	Oral liquid form available ³ Film coated; may be halved ³ Oral liquid form avaliable ⁷ Can be crushed but has very bitter taste ⁴
CICLOSPORIN	Neoral	Capsule	Swallow whole, ³ do not crush, chew or open ⁴ Alternative route available, oral liquid form available ³
CILAZAPRIL	Zapril	Tablet	Film coated ³ May be divided ³
CIPROFLOXACIN	Cipflox	Tablet	Film coated ³ The 500mg strength if scored, may be halved ³ Alternative route available ³ Can crush. Wear a mask and gloves if crushing ⁴
CITALOPRAM	PSM Citalopram	Tablet	Film coated ³ Disperse the tablet in water, may take up to 10min to disperse ⁴
CLINDAMYCIN	Dalacin C	Capsule	Can disperse capsule contents in 10ml of water, but has an unpleasant taste; can mix with food or juice to mask taste ⁴ Alternative route available ⁷
CLOMIPRAMINE	Clomipramine- Teva	Tablet	Film coated; do not halve ³ Disperse in water or crush if taking long to disperse, the dispersed or crushed tablet will numb the mouth, rinse mouth well after taking ⁴
CLONAZEPAM	Paxam	Tablet	May be crushed or dispersed in water ⁴ may be halved ³ Oral liquid form available ³
CLONIDINE	Clonidine Teva Catapres	Tablet	Alternative route available ⁷ May be dispersed in water ⁴ May be halved ³ Alternative route available ⁷
CLOPIDOGREL	Clopidogrel – Multichem	Tablet	Film coated ³ Crush the tablet and mix with water, yoghurt or apple puree ⁴

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
CLOZAPINE	Clozaril	Tablet	Oral liquid form available ³ Occupational exposure hazard, not recommended to be crushed ⁴
	Clopine		May be halved ³ Oral liquid form available ³ Occupational exposure hazard, not recommended to be crushed ⁴
CODEINE PHOSPHATE	Codeine phosphate PSM	Tablet	Can crush and mix with water, yoghurt or apple puree ⁴ .
COLCHICINE	Colgout	Tablet	May be dispersed in water ⁴
COLECALCIFEROL	Vit.D3	Capsule	Soft gelatin capsule ³ No stability data about withdrawal of capsule contents ^{4,6} Oral liquid available ⁷
CO-TRIMOXAZOLE	Trisul	Tablet	Alternative route available, oral liquid available ³
CYCLIZINE	Nausicalm	Tablet	Can be divided into equal doses ³ Alternative route available ³ Can be crushed but is hard to crush ⁴
CYCLOPHOSPHAMIDE	Cyclonex	Tablet	Do not divide, crush, chew or disperse ⁴ Cytotoxic, occupational health and safety risk to staff ²
DABIGATRAN	Pradaxa	Capsule	Do not crush, chew or open ⁴ Bioavailability increases by 75% when pellets are taken without the capsule shell ¹
DEXAMETHASONE	Dexmethsone	Tablet	Crush the tablet and mix with water, yoghurt or apple puree ⁴ Alternate route available, oral liquid available ⁷
DIAZEPAM	Arrow-Diazepam	Tablet	Can be divided into equal doses. Alternative route available ³ Disperse the tablet in water, will take 2-5min
DICLOFENAC EC	Diclofenac	Tablet	to disperse ⁴ Enteric coated; do not crush, divide or
	Sandoz		chew ^{3,4} Alternative route available, dispersible tablet available ³
DICLOFENAC SR	Voltaren SR	Tablet	Slow release. Swallow whole, do not divide, crush, chew or disperse ³ Alternative route available ³
DICLOFENAC DISPERSIBLE	Voltaren D	Tablet	Do not divide or chew the tablet, disperse the tablet in a glass of water ³
DIGOXIN	Lanoxin	Tablet	May be crushed ⁴ Oral liquid form available ³
DILIVERGOODEINE	Lanoxin PG	T-11.	,
DIHYDROCODEINE TARTRATE LA	DHC Continus	Tablet	Long- acting; swallow whole ³ Do not divide, crush, chew or disperse ³

Medicine	Funded brand	Form	Administration if swallowing difficulties
DILTIAZEM CD	Apo-Diltiazem CD	Capsule	Controlled delivery; do not crush or chew ³
	Accord	Capsule	May open the capsule and mix the pellets with a spoonful of yoghurt or apple puree.
	Cardizem CD	Capsule	The pellets must be swallowed without chewing ⁴
DIPYRIDAMOLE SR	Pytazen SR	Tablet	Sustained release; swallow whole ³ Do not divide, crush, chew or disperse ³
DOCUSATE & SENNA	Laxsol	Tablet	Film coated ⁷ May be crushed, crushed tablet has an unpleasant taste ⁴
DOCUSATE SODIUM	Coloxyl	Tablet	May be crushed but is hard to crush ⁴
DOMPERIDONE	Domperidone (Pharmacy Health)	Tablet	Disperse tablet in water ⁴
DONEPEZIL	Donepezil-Rex	Tablet	Film coated ³ May be crushed or dispersed in water ⁴
DOXAZOSIN	Doxazosin Clinect	Tablet	No information
DOXYCYCLINE	Doxine	Tablet	Film coated ³ Crushing may cause oesophageal irritation and ulceration ³
EMPAGLIFLOZIN	Jardiance	Tablet	Film coated ³ May be crushed ⁴ Do not crush the tablet if you are pregnant ⁴
EMPAGLIFLOZIN with METFORMIN	Jardiamet	Tablet	Film coated ³ May be crushed ⁴ Do not crush the tablet if you are pregnant ⁴
ENALAPRIL	Acetec	Tablet	May be crushed, the crushed tablet has an unpleasant taste ⁴ Do not crush if you are pregnant ⁴
ENTACAPONE	Comtan	Tablet	Film coated ³ Disperse the tablet in at least 20 mL of water. The tablet will disperse within 7 minutes ⁴
ERYTHROMYCIN ETHYL SUCCINATE	E-Mycin	Tablet	Film coated ^{3,4} Alternative route available, liquid form available ³ May be crushed wearing a mask and gloves, crushed tablets have a bitter taste ⁴
ESCITALOPRAM	Escitalopram Ethics	Tablet	Film coated ³ Disperse tablet in water ⁴ Tablets have bitter taste ⁴
EZETIMIBE	Ezetimibe-Sandoz	Tablet	May be crushed ⁴
FAMOTIDINE	Famotidine Hovid	Tablet	Disperse tablet in 5-10mL water and given immediately ⁴ May crush tablet if not dispersed within 3-5 min ⁴ Alternative route available ⁷

Medicine	Funded brand	Form	Administration if swallowing difficulties
FEBUXOSTAT	Febuxostat multichem	Tablet	Film-coated, immediate release ³ May be crushed ⁴
FELODIPINE ER	Plendil ER	Tablet	Extended release ³ Do not divide, crush or chew ³
	Felo 5 ER		Do not divide, crash or onew
	Felo 10 ER		
FERROUS FUMARATE	Ferro-tab	Tablet	May be crushed ⁴ Alternative route available, oral liquid form available ⁷
FERROUS FUMARATE with FOLIC ACID	Ferro-F-tabs	Tablet	Film coated; ⁴ swallow whole ⁴ Alternative route available, liquid form available ⁷
FERROUS SULFATE (long acting)	Ferrograd	Tablet	Film coated, modified release ⁴ Do not divide, crush, chew or disperse ⁴ Alternative route available, liquid form available ⁷
FINASTERIDE	Ricit	Tablet	Film coated ³ May be dispersed in an enteral syringe ⁴ Women of child-bearing potential should not crush/disperse or handle broken tablets ³
FLUCLOXACILLIN	Flucloxacillin-AFT	Capsule	Do not crush, chew or open; contents have a bitter taste ⁴ Alternative route available, liquid form available ³
FLUCONAZOLE	Fluconazole Mylan	Capsule	Swallow the capsules whole with a glass of water ³ Alternative route available, liquid form available ³
FLUDROCORTISONE ACETATE	Florinef	Tablet	May be dispersed in water; will disperse within 1 minute, give immediately after dispersing ⁴
FLUOXETINE	Fluox	Capsule	Swallow whole, dispersible tablet available ³
FLUOXETINE (dispersible)	Fluox	Tablet	Soluble, dispersible ³ May be swallowed whole, or broken in half for a 10mg dose, or dispersed in 100mL of water before drinking immediately ³
FOLIC ACID	Folic acid multichem	Tablet	May disperse in water, may take up to 6min to disperse ⁴
	Folic acid Mylan	Tablet	
FUROSEMIDE (FRUSEMIDE)	IPCA-Frusemide	Tablet	Oral liquid available ³ Disperse in 10-20ml of water or may be crushed ⁴
	Urex Forte	Tablet	Does not disperse easily, may be crushed ⁴
	Furosemid- Ratiopharm	Tablet	Disperse in 10-20ml of water or may be crushed ⁴

Medicine	Funded brand	Form	Administration if swallowing difficulties
GABAPENTIN	Nupentin	Capsule	Capsule contents have an unpleasant taste. May open capsule and mix contents with applesauce or orange juice. Give immediately (gabapentin hydrolyses rapidly) ⁴
GLICLAZIDE	Glizide	Tablet	May be halved ³ Disperse in 10-20ml of water or may be crushed ⁴
GLIPIZIDE	Minidiab	Tablet	Disperse in water; will disperse in 1 minute or may be crushed ⁴
HALOPERIDOL	Serenace	Tablet	Disperse in water, will take 4min or may be crushed. Wear gloves as can cause dermatitis ⁴ Alternative route available, oral liquid form available ³
METHENAMINE (HEXAMINE) HIPPURATE	Hiprex	Tablet	May be halved ⁴ May be crushed ⁴
HYDROXYCHLOROQUINE	Plaquenil	Tablet	Film coated tablets ³ May be crushed but has a very bitter taste. Do not crush if you are pregnant. ⁴
HYDROXYUREA (HYDROXYCARBAMIDE)	Devatis	Capsule	Cytotoxic, if the patient can self-administer they should wear a mask and gloves and empty the contents of the capsule into a glass of water and take it immediately. ⁴
HYOSCINE BUTYL BROMIDE	Buscopan	Tablet	Sugar coated; ³ may be crushed ⁴ Alternate route avaliable ⁷
IBUPROFEN	Ibuprofen Relieve	Tablet	Film coated; swallow whole, do not chew, break, crush or suck – may cause oral discomfort and throat irritation ³ Oral liquid form available ³
IBUPROFEN SR	Brufen SR	Tablet	Sustained release ³ Swallow whole with plenty of fluids ⁷
IMIPRAMINE	Tofranil	Tablet	Sugar coated ³ May be crushed, does not disperse easily. Crushed tablet may numb the mouth ⁴
INDAPAMIDE	Dapa-Tabs	Tablet	Film coated; do not halve ³ May be crushed ⁴
	Mylan Indapamide	Tablet	No information
ISOSORBIDE MONONITRATE	Ismo 20	Tablet	Do not crush or chew, may be divided along the score line ³
ISOSORBIDE MONONITRATE SR	Duride Ismo 40 Retard	Tablet	Sustained release; swallow whole ^{3,4} Do not crush, chew or disperse ⁴ May be divided (but each portion swallowed whole) ^{3,4} Immediate release preparations available ³ Slow release; swallow whole ³ Do not divide tablet Immediate release preparations available ³
IVERMECTIN	Stromectol	Tablet	Disperse the tablet in water or may be crushed ⁴

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
LAMOTRIGINE	Logem Lamictal	Tablet	May be chewed, dispersed in a small amount of water, or swallowed whole ^{3,4}
LANSOPRAZOLE	Lanzol Relief	Capsule	Swallow whole, do not crush or chew ³
LEFLUNOMIDE	Arava	Tablet	Film coated ³ Swallow whole, do not divide ³ May disperse using a closed system such as an oral dispenser; will disperse within 5 min of shaking ⁴ Warning: Do not handle dispersed tablets if pregnant or intending to become pregnant ⁴
LETROZOLE	Letrole	Tablet	Film coated, do not break or crush the tablet, can be dispersed in water if wearing a mask and gloves. Do not disperse the tablet if you are pregnant. ⁴
LEVETIRACETAM	Everet	Tablet	Film coated; do not halve ³ Alternative route available, oral liquid available ⁷ May be crushed but tablet has a bitter taste ⁴
LEVODOPA/CARBIDOPA	Sinemet	Tablet	May be crushed or dispersed in water but is very slow to disperse and may require crushing first ⁴ The tablet can be divided to aide swallowing but should be consumed as a whole dose ³
LEVODOPA/CARBIDOPA CR	Sinemet CR	Tablet	Controlled release ³ Do not divide, crush, chew or disperse ³ Immediate release preparations available ³
LEVODOPA/BENSERAZIDE (dispersible) LEVODOPA/BENSERAZIDE	Madopar Rapid Madopar	Tablet Capsule	Soluble dispersible tablet ³ Disperse in 10mL water before taking ⁴ Open the capsule and disperse the contents in water, will disperse within 1min to form an
LEVODOPA/BESERAZIDE (long acting)	Madopar HBS	Capsule	even suspension ⁴ Modified release; swallow whole, do not crush, chew, disperse or open capsules ^{3,4} Immediate release and dispersible preparations available ³
LEVOMEPROMAZINE MALEATE	Nozinan	Tablet	Film coated ³ Tablet can be divided ³ Alternative route avaliable ³
LISINOPRIL	Ethics Lisinopril	Tablet	Disperse in water or may be crushed ⁴ 5mg tablet can be halved ³
LITHIUM CARBONATE	Lithium Carbonate (Douglas)	Capsule	No information
LITHIUM CARBONATE (long acting)	Priadel	Tablet	Modified release ³ Scored, may be halved ³ Do not, crush, chew or swallow with hot liquid ³
LOPERAMIDE	Diamide Relief	Capsule	Open the capsule and disperse the contents in water ⁴
	Nodia	Tablet	Scored tablet, but dose equivalence when the tablet is divided has not been established. May be crushed 4

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
LORATADINE	Lorafix	Tablet	May be crushed but may have a very bitter taste ⁴ Oral liquid avaliable ³
LORAZEPAM	Ativan	Tablet	Disperse in water, may be crushed or given sublingually ⁴
LOSARTAN	Losartan Actavis	Tablet	Film coated; ³ do not halve ³
LOSARTAN AND HYDROCHLORTHIAZIDE	Arrow-Losartan & Hydrochlorothia zide	Tablet	Film coated ³ No information
MEBEVERINE	Colofac	Tablet	Sugar coated ³ Do not chew, has a very bitter taste ³ Disperse in water, will take 5min to disperse ⁴
MEDROXYPROGESTERON E	Provera	Tablet	5mg and 100mg tablets will disperse within 2 minutes or may be crushed ⁴ Gloves and mask should be worn, women of child-bearing potential should not crush or handle broken tablets ⁴
MELATONIN (long acting)	Vigisom	Tablet	Prolonged release; swallow whole ³ May be crushed however the release will be immediate and not prolonged-release ⁴
MESALAZINE (long acting)	Pentasa	Tablet	Prolonged-release; do not divide, crush or chew ⁷ May disperse in 50mL of cold water; stir and drink immediately ³ Alternative route available ³
MESALAZINE EC	Asacol	Tablet	Enteric coated; do not divide, crush, chew or disperse ³ Alternative route available ³
METFORMIN	Metformin Mylan	Tablet	Film coated ³ May be crushed ⁴
METHADONE	Methatabs	Tablet	Alternative route available ³ Oral liquid form available ³ Will disperse in water within 5 min ⁴
METHOTREXATE	Trexate	Tablet	Do not divide, crush, chew or disperse ³ Cytotoxic; crushing causes occupational health and safety risk ³
METHYLPREDNISOLONE	Medrol	Tablet	Do not halve ³
METOCLOPRAMIDE	Metoclopramide Actavis	Tablet	Film coated; may be divided ³ Alternative route available ³ May be crushed ⁴
METOPROLOL SUCCINATE CR	Betaloc CR	Tablet	Controlled release ³ May be halved, but must not be chewed, crushed ³ or dispersed ⁶
METOPROLOL TARTRATE	IPCA-Metoprolol	Tablet	May be crushed ⁴

Medicine	Funded brand	Form	Administration if swallowing difficulties
METOPROLOL TARTRATE (long acting)	Slow-Lopresor	Tablet	Slow release; do not divide, crush, chew or disperse ³
METRONIDAZOLE	Metrogyl	Tablet	Tablet may be dispersed, will disperse within 5min ,give with or immediately after food ⁴ Wear a mask and gloves as antibiotics can be irritant ⁴ Alternative route available ³ Oral liquid form available ³
MIDODRINE	Gutron	Tablet	If there are no other options, may be crushed. May cause stomatitis ⁴
MIRTAZAPINE	Mirtazapine Noumed	Tablet	Film coated; do not chew ³ May be crushed ⁴
MOCLOBEMIDE	Aurorix	Tablet	Film coated ⁴ May be crushed ⁴
MOLNUPIRAVIR	Lagevrio	Capsule	Open the 4 capsules and disperse contents in 40ml of water or mix with yoghurt ⁴
MORPHINE SULPHATE	Sevredol	Tablet	Film coated, do not chew but may halve ³ Crushing will cause unacceptable taste ² Alternative route available; oral liquid form available ³
MORPHINE SULPHATE (long acting)	m-Eslon	Capsule	Modified release ³ May be opened, and microgranules given with soft food or liquids. Do not chew or crush granules, this will cause rapid release of morphine and toxic concentrations ³
MULTIVITAMINS	Mvite	Tablet	Film coated ³
MULTIVITAMIN RENAL	Clinicians Renal Vit	Capsule	No information
NAPROXEN	Noflam	Tablet	Can be halved and the halves swallowed whole ³
NAPROXEN SR	Naprosyn SR	Tablet	Slow release; do not divide, crush, chew or disperse ^{3,4}
NEFOPAM	Acupan	Tablet	Film coated ³
NIFEDIPINE (long acting)	Tensipine MR10 Nifedipine Mylan	Tablet	Controlled release ³ Do not divide, crush, chew or disperse; ^{3,4}
	Nyefax Retard		
NIRMATRELVIR with RITONAVIR	Paxlovid	Tablet	Give nirmatrelvir and ritonavir tablets at the same time. May be crushed, Nirmatrelvir may be dispersed in water ⁴
NITROFURANTOIN	Nifuran	Tablet	No information An oral liquid may be compounded ⁷
NITROFURANTOIN (long acting)	Macrobid	Capsule	Modified release capsule, swallow whole, do not open capsule ⁷

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
NORFLOXACIN	Arrow- Norfloxacin	Tablet	Film coated ³ May be crushed while wearing a mask and gloves. Do not administer with milk or yoghurt, can mix with chocolate syrup to mask the bitter taste. ⁴
NORTRIPTYLINE	Norpress	Tablet	Film coated ³ 25mg tablets may be divided ³ May be dispersed or crushed ⁴
OLANZAPINE	Zypine	Tablet	Film coated ³ Dispersible tablets available ³ Disperse the tablet in water or may crush but wear a mask, gloves and glasses as can cause contact dermatitis and is an irritant to the eyes ⁴
OLANZAPINE (dispersible)	Zypine ODT	Tablet	Orodispersible ³ Do not halve, place in mouth whole to disperse in saliva, followed by a glass of water ³ Alternatively disperse in water or juice ⁴
OMEPRAZOLE	Omeprazole Activis	Capsule	May open capsule and swallow the contents with water, fruit juice or yoghurt The pellets must not be crushed or chewed ³ Alternative route available ³ Oral liquid form available ⁷
ONDANSETRON	Onrex	Tablet	Film coated ³ May be dispersed in water ⁴ Dispersible tablet avaliable ⁷
ONDANSETRON (dispersible)	Ondansetron ODT-DRLA	Tablet	Orally disintegrating ³ Do not halve; place on top of tongue to disperse, then swallow ³
ORPHENADRINE CITRATE	Norflex	Tablet	Modified release, Do not crush or disperse the tablet4
OXYBUTYNIN	Alchemy- Oxybutynin	Tablet	May be crushed ⁴
OXYCODONE	OxyNorm	Capsule	Open the capsule and disperse the contents in water or mix with yoghurt ⁴ Alternative route available ³ Oral liquid form available ³
OXYCODONE (long acting)	Oxycodone Sandoz	Tablet	Controlled release; swallow whole ³ Do not break, chew or crush ³ Alternative route available ³ Oral liquid form available ³
PANTOPRAZOLE EC	Panzop Relief	Tablet	Enteric coated; swallow whole, do not chew, divide, crush or disperse ³
PARACETAMOL	Pacimol	Tablet	Alternative route available; suppositories available ³
	Noumed Paracetamol	Tablet	Oral liquid form available ³ May be dispersed or crushed but the taste may be unpleasant ⁴
PARACETAMOL & CODEINE	Relieve	Tablet	May be divided ³ May be crushed if no other options but the taste may be unpleasant ⁴

Medicine	Funded brand	Form	Administration if swallowing difficulties
PAROXETINE	Loxamine	Tablet	Film coated ³ May be crushed ⁴ Do not crush if pregnant ⁴
PERHEXILINE	Pexsig	Tablet	May be crushed ⁴
PERINDOPRIL	Coversyl	Tablet	Film coated; may be crushed ⁴ Do not crush if pregnant ⁴
PHENYTOIN	Dilantin	Capsule	May open the capsule and disperse contents in water. Wear a mask and gloves and do not disperse if pregnant. ⁴ Alternative route available, oral liquid form available (but check bioequivalence) ²
PHENYTOIN CHEWABLE	Dilantin infatab	Tablet	If the person can chew and does not require an excessive number of tablets use the chewable tablets. ⁴ Not bioequivalent to capsule ⁴ Oral liquid form available ⁷
PHOSPHATE	Phosphate phebra	Tablet	Effervescent; can be dissolved in one third to one half a glass of water ⁷
PIZOTIFEN	Sandomigran	Tablet	May be crushed ⁴
POTASSIUM CHLORIDE (long acting)	Span-K	Tablet	Sustained release; do not divide, crush, chew or disperse ^{3,4} Effervescent tablet available ³
POTASSIUM CHLORIDE/ POTASSIUM BICARBONATE/ POTASSIUM CARBONATE	Chlorvescent	Tablet	Effervescent, ⁷ soluble, dispersible ^{3,4} Dissolve in at least half a glass of water ⁴
PRAVASTATIN	Pravastatin Mylan	Tablet	May be crushed ⁴ Do not crush if you are pregnant ⁴
PREDNISONE	Prednisone Clinect	Tablet	May be crushed ⁴ Prednisolone syrup available ⁷
PREGABALIN	Pregabalin- Pfizer	Capsule	Open the capsule and disperse in 120mL of water ⁴
	Lyrica	Capsule	Open the capsule and disperse the contents in 120ml of water ⁴
PROCHLORPERAZINE	Nausafix	Tablet	May be crushed or dispersed in water, use immediately as sensitive to light. ⁴ Alternative route available ³ Buccal tablets available ⁷
PROMETHAZINE	Allersoothe	Tablet	Film coated ³ May be crushed or dispersed ⁴ Alternative route available ³ Oral liquid available ⁷
PROPRANOLOL	Drofate	Tablet	Do not halve ³
	IPCA- Propranolol	Tablet	No information.

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
PROPRANOLOL (long acting)	Cardinol LA	Capsule	Long acting; do not divide, crush, chew or disperse ³
PYRIDOSTIGMINE	Mestinon	Tablet	May be crushed or dispersed in water. Tablets are slow to disperse ⁴
PYRIDOXINE	Pyridoxine multichem Vitamin B6 25	Tablet	May be crushed, or dispersed in water ⁴
QUETIAPINE	Quetapel	Tablet	Film coated. May be crushed or dispersed in water, do not halve ^{3.}
QUINAPRIL	Arrow-Quinapril	Tablet	Film coated; swallow whole with a full glass of water, do not chew ³ . Do not crush or disperse the tablet ³ .
QUINAPRIL/ HYDROCHLOROTHIAZIDE	Accuretic	Tablet	Film coated; swallow whole with a full glass of water, do not chew ³ . Do not crush or disperse the tablet ³ .
RALOXIFENE	Evista	Tablet	Film coated ³ tablets have unpleasant taste ¹ Avoid contact with skin, wear a mask and gloves; teratogenic potential ¹ . Do not disperse or crush the tablet if you are pregnant ⁴ .
RISEDRONATE	Risedronate Sandoz	Tablet	Film coated, do not divide, crush, chew or disperse ^{3,4} Potential for oropharyngeal irritation ³ Alternate bisphosphonate available as injection ³
RISPERIDONE	Risperidone Teva	Tablet	Film coated; do not halve ³ Oral liquid form available ³
RIVAROXABAN	Xarelto	Tablet	Film coated tablet ³ Tablets may be crushed and mixed with water or apple sauce immediately prior to use ³
ROPINIROLE	Ropin	Tablet	Film coated ³ ; tablets may be halved. May be dispersed or crushed ⁴
ROSUVASTATIN	Rosuvastatin Viatris	Tablet	Film coated; do not halve ³ . Do not crush or disperse the tablet if you are pregnant. ⁴
ROXITHROMYCIN	Arrow- Roxithromycin	Tablet	Film coated; swallow whole ³ . Wear a mask and gloves if crushing the tablet ⁴ . Bioavailability of the crushed tablet is greater than the whole tablet ⁴ . Dispersible tablet available ⁷
ROXITHROMYCIN (dispersible)	Rulide-D	Tablet	Dispersible tablet. Disperse in a small amount of water (may take 30-40 seconds) ⁷ Give immediately after dispersion, the suspension develops a bitter taste over time ⁴ Delisted 1/3/23
SERTRALINE	Setrona	Tablet	Film coated; may be crushed but has a bitter taste and slight anaesthetic effect ⁴ Disperse tablets within 1-5min with agitation ⁴

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
SIMVASTATIN	Simvastatin Mylan	Tablet	Film coated ³ ; crush the tablet and mix with water. Do not crush or disperse the tablet if you are pregnant. ⁴
SODIUM BICARBONATE	Sodibic	Capsule	May open and disperse contents in 10mL water, give immediately ⁴
SODIUM VALPROATE	Epilim Crushable	Tablet	May be crushed ^{3,4} but do not halve ³ Alternative route available, oral liquid form ³ Do not crush or disperse tablets if you are pregnant. ⁴
SODIUM VALPROATE EC	Epilim	Tablet	Enteric coated ³ Do not divide, crush, chew or disperse ⁴ Alternative route available, oral liquid form ³
SOTALOL	Sotalol Mylan	Tablet	No information
SOLIFENACIN	Solifenacin Mylan	Tablet	Film coated ³ Crushed tablets may have a bitter taste ⁴ .
SPIRONOLACTONE	Spiractin	Tablet	Wear a mask and gloves if crushing the tablet ⁴ . May be dispersed in water, will disperse within 2-5 min ⁴
SULFASALAZINE	Salazopyrin	Tablet	May be crushed ⁴ ; does not disperse easily. Crushed tablets may be irritant, wear a mask and gloves ⁴ .
SULFASALAZINE EC	Salazopyrin EN	Tablet	Enteric coated; do not divide, crush, chew or disperse ^{3,4} Immediate release tablet available ^{2,3}
SUMATRIPTAN	Sumagran	Tablet	Film coated; swallow whole with water, do not halve ³ May be crushed ⁴ . Alternative route available ³
TAMSULOSIN (long acting)	Tamsulosin-Rex	Capsule	Modified release; swallow whole, do not crush or chew ³
TAMOXIFEN	Tamoxifen Sandoz	Tablet	Disperse tablet in 5-10mL of water, using a closed system such as an oral dispenser ⁴ Wear a mask and gloves if crushing or dispersing the tablet ⁴ . Do not crush or disperse the tablet if you are pregnant of a woman of child-bearing potential ⁴ .
TEMAZEPAM	Normison	Tablet	May be crushed. do not halve ³ Tablet difficult to disperse ⁴
TENOXICAM	Tilcotil	Tablet	Film coated, do not chew but can divide ³
TERBINAFINE	Deolate	Tablet	Scored, can be halved ³ May be crushed ⁴
THEOPHYLLINE SR	Nuelin-SR	Tablet	Slow release; do not divide, crush, chew or disperse ^{3,4} Oral liquid available ⁴
THIAMINE	Max Health	Tablet	Uncoated ⁷ May be crushed ⁴

Document number: 010-03-09-004 Review date: Dec 2022

Medicine	Funded brand	Form	Administration if swallowing difficulties
THYROXINE (Levothyroxine)	Eltroxin Mercury Pharma	Tablet	Swallow whole with a full glass of water, do not halve ³ Swallow whole ³
	Synthroid		May be crushed and suspended in 5-10mL water, or sprinkled on small amount of food (eg apple sauce), and given immediately ³ Do not halve ⁴ .
TICAGRELOR	Brilinta	Tablet	Film coated; can crush, mix with water, stir and drink immediately ³
TOLCAPONE	Tasmar	Tablet	Film coated; swallow whole, has bitter taste ³
TRAMADOL	Arrow-Tramadol	Capsule	Swallow whole with water ³ . May open capsules and disperse contents in water ⁴ .
TRAMADOL SR	Tramal SR	Tablet	Sustained release; do not divide, crush, chew or disperse ^{3,4}
TRANEXAMIC ACID	Mercury Pharma	Tablet	Film coated ³ . May be crushed or dispersed in 10-20mL of water ⁴ .
TRIAZOLAM	Hypam	Tablet	Do not halve ³ No information.
TRIMETHOPRIM	ТМР	Tablet	May be crushed or dispersed ⁴ Community pharmacy may be able to compound oral liquid ⁷
VENLAFAXINE	Enlafax XR	Capsule	Extended release; do not crush, chew or disperse ³
VERAPAMIL	Isoptin	Tablet	Film coated, ³ may be crushed or dispersed in water ⁴
VERAPAMIL SR	Isoptin SR	Tablet	Sustained release; do not crush or chew ⁴ Immediate release tablets available ³
VILDAGLIPTAN	Galvus	Tablet	May be crushed ⁴
VILDAGLIPTAN with METFORMIN	Galvumet	Tablet	May be crushed ⁴
VITAMIN B COMPLEX	Bplex	Tablet	No information.
WARFARIN	Coumadin	Tablet	May be crushed ⁴ Do not crush or disperse tablet if you are pregnant ⁴
	Marevan		Disperse tablet in water or if slow to disperse can crush. ⁴ Do not disperse or crush tablet if you are pregnant ⁴
ZINC SULPHATE	Zincaps	Capsule	May open capsule and disperse contents in water ⁴
ZOPICLONE	Zopiclone Actavis	Tablet	Film coated; may be crushed ³ May disperse tablet; disperses within 5min. If it does not disperse within 5 min, may crush ⁴ Tablets have a bitter taste, may be given with yogurt ⁴

References

- Mitchell JF. ISMP (Institute for Safe Medication Practices) Oral Dosage Forms That Should Not Be Crushed January 2014 http://www.ismp.org/tools/donotcrush.pdf (Accessed 21-07-14)
- 2. 8.1 Draft guidelines for modification of oral formulations. (Adapted from 'Guidelines for medication management in residential aged care facilities; Australian Pharmaceutical Advisory Council November 2002' and 'Australian Pharmaceutical Formulary and Handbook 18th edition and 19th edition'.)
- 3. Medsafe Data Sheets and Consumer Medicines Information www.medsafe.govt.nz (Accessed July 2022)
- 4. Society of Hospital Pharmacists of Australia. Don't rush to crush handbook. Fourth edition; Dec 2021; ISBN 978-0-9871103-7-4
- 5. The Drugsite Trust. Docusate. www.drugs.com/mtm/docusate.html (Accessed 11-08-14)
- 6. Direct correspondence with manufacturer
- 7. New Zealand Formulary www.nzf.org.nz