



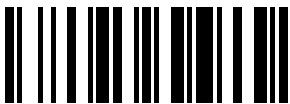
## Therapeutic Interchange Agreement

Dear Prescriber,

Pharmacy law allows for a written agreement between a prescriber and a pharmacist, so that the pharmacist may make therapeutic alternative interchanges based on a protocol agreed upon by the prescriber and the pharmacy. The preference protocols are only available between medications that offer comparable effectiveness, safety and tolerability, though these medications are not AB-rated and are not considered equivalent. **The prescriber has the right to modify the protocol, agree to any or all parts of the protocol, and/or exclude individual residents from the protocol.** Any modifications to the protocol, including exclusion of a resident, must be made in writing and provided via email, fax or other means of written communication delivery to MAC Rx Long Term Care Pharmacy. Updates to the protocol medications may be submitted for review quarterly.

By signing this document, you authorize the pharmacists at MAC Rx Long Term Care Pharmacy to modify existing and future prescribing orders for all residents at all facilities serviced by MAC Rx Long Term Care Pharmacy within the listed therapeutic categories.

When an order is written for a non-protocol medication for a dose indicated in the tables that follow, the order will be changed to the appropriate therapeutic alternative of an equivalent dose. A notification of the interchanged order will be communicated to the facility to be part of the resident's record. **In the event of specific resident instances where the provider would require a non-protocol option, he/she may add the phrase "do not interchange" on the order to remain the prescribed drug.**





## Therapeutic Interchange Agreement

I authorize the pharmacists at MAC Rx Long Term Care Pharmacy to make therapeutic alternative interchanges among the therapeutic categories as described in body of the agreement. **Any modifications that I am requesting are noted below.** This authorization will remain in effect until the retirement of my practice/license, or upon written notice and certified mail delivery to MAC Rx Long Term Care Pharmacy.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINTED FULL NAME: \_\_\_\_\_

LICENSE #: \_\_\_\_\_ NPI #: \_\_\_\_\_

FACILITY: \_\_\_\_\_

If you wish to make any modifications to the Therapeutic Interchange Agreement, please clearly note in the space below. If nothing is written in the space below, you agree to the entire Therapeutic Interchange Agreement.

**To interrupt Interchange Formula on a specific patient situation, mark the order as “Do not interchange”.**

**Please email this form to Therapeutic Interchange - TI\_Group@MACRX.COM Thank you!**



# Pharmacy Therapeutic Interchange

## 5-ALPHA REDUCTASE INHIBITORS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Dutasteride 0.5mg QD		Finasteride 5mg QD

1. [Steven A Kaplan](#), MD Update on the American Urological Association Guidelines for the Treatment of Benign Prostatic Hyperplasia. Rev Urol. 2006; 8(Suppl 4): S10–S17.
2. Lepor, H, Williford WO, Barry, MJ, et al. Efficacy of terazosin, finasteride or both in benign prostatic hyperplasia. NEJM 1996; 335:533-9.
3. Kirby, RS, Roehrborn, C, Boyle, P, et al. Efficacy and tolerability of doxazosin and finasteride alone or in combination in treatment of symptomatic benign prostatic hyperplasia: the Prospective European Doxazosin and Combination Therapy (PREDICT) trial. Urology 2003; 61:119-26.

Generic finasteride is being recommended because it is comparably effective and safe and is generally available at a lower cost.

## ACYCLOVIR (TOPICAL)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Acyclovir 5% cream		Acyclovir 5% ointment (same directions)

## ALPHA-1A ANTAGONISTS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Alfuzosin 10mg QD		Tamsulosin 0.4mg QD
Silodosin 4-8mg QD		

1. Chen, BH., Hypertension and alpha-adrenergic blockers; preliminary ALLHAT results. CMAJ 2000; 163:437.
2. Messerli FH. Implications of discontinuation of doxazosin arm of ALLHAT. Antihypertensives and lipid-lowering treatment to prevent heart attack trial. Lancet 2000; 355:863-4.
3. Comparison of alpha<sub>1</sub>-blockers. Pharmacist's Letter/Prescriber's Letter 2009;25(5):250505.

## ALPHA AGONIST – OPHTHALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Alphagan P (brimonidine) 0.1%		Brimonidine tartrate 0.2% same dose and freq
Alphagan P (brimonidine) 0.15%		

## AMANTADINE

Interchangeable With	Interchangeable With	Interchangeable With
Amantadine capsules		Amantadine tablets same dose and directions
Gocovri 137mg capsule QD		Amantadine 100mg tablets BID
Gocovri 68.5mg capsule QD		
Osmolex ER 129mcg QD		

## ANTICONVULSANTS – OXCARBAZEPINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Oxtellar XR 150mg QD		Oxcarbazepine 75mg BID
Oxtellar XR 300mg QD		Oxcarbazepine 150mg BID
Oxtellar XR 600mg QD		Oxcarbazepine 300mg BID

## ANTICONVULSANTS – TOPAMAX (TOPIRAMATE)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Qudexy XR 50mg QD		Topiramate 25mg BID
Qudexy XR 100mg QD		Topiramate 50mg BID
Qudexy XR 200mg QD		Topiramate 100mg BID
Trokendi XR 50mg QD		Topiramate 25mg BID
Trokendi XR 100mg QD		Topiramate 50mg BID
Trokendi XR 200mg QD		Topiramate 100mg BID

## ANTIFUNGAL/CORTICOSTEROID – TOPICAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Nystatin/triamcinolone cream and ointment		Clotrimazole/betamethasone cream

## ANTI-GOUT AGENTS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Febuxostat 40mg QD		Allopurinol 200mg QD (2 x 100mg tabs)
Febuxostat 80mg QD		Allopurinol 300mg QD

## ANTI-HISTAMINES – OPHTHALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Pataday 0.2% soln – 1 drop in affected eye(s) QD		Azelastine 0.05% soln – 1 drop in affected eye(s) BID
Patanol 0.1% soln – any directions		
Bepreve 1.5% soln – any directions		
Ketotifen 0.025% soln – 1 drop in affected eye(s) BID		

## ANTI-INFECTIVE (ANTISEPTIC) – TOPICAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Mupiricin 2% cream – any sig		Mupirocin 2% ointment – same sig
Altabax 1% oint – and sig		
Centany AT Kit – any sig		
Bactroban Nasal 2% oint – any sig		

1. Bactroban (mupirocin) ointment [prescribing information]. Research Triangle Park, NC: GlaxoSmithKline; March 2017.
2. The Food and Drug Administration: The Orange Book; Approved Drug Products with Therapeutic Equivalence Evaluations. Available at: <http://www.fda.gov/Drugs/InformationOnDrugs/ucm129662.htm>. Accessed April 30, 2018.  
Mupirocin *ointment* is being recommended over mupirocin *cream* as it is comparably safe and effective and is generally available at a lower cost.

## ANTIMUSCARINICS FOR OVERACTIVE BLADDER (OAB)

Interchangeable With	Interchangeable With	Interchangeable With
Darifenacin (Enablex) 7.5mg QD		Oxybutynin ER 5mg QD
Darifenacin (Enablex) 15mg QD		Oxybutynin ER 10mg QD
Fesoterodine (Toviaz) 4mg QD		Oxybutynin ER 5mg QD
Fesoterodine (Toviaz) 8mg QD		Oxybutynin ER 10mg QD
Mirabegron (Myrbetriq) 25 or 50mg QD		Oxybutynin ER 5mg QD
Oxybutynin gel 10% (Gelnique)		
Oxybutynin patch 3.9mg/24hr (Oxytrol)		
Solifenacin (Vesicare) 5mg QD		Oxybutynin ER 10mg QD
Solifenacin (Vesicare) 10mg QD		
Tolterodine (Detrol) 1mg BID		Oxybutynin ER 5mg QD
Tolterodine LA (Detrol LA) 2mg QD		
Tolterodine (Detrol) 2mg BID		
Tolterodine LA (Detrol LA) 4mg QD		Oxybutynin ER 10mg QD
Trospium (Sanctura) 20mg QD		
Trospium (Sanctura) 20mg BID		
Trospium XR (Sanctura XR) 60mg QD		Oxybutynin ER 10mg QD

1. Athanasopoulos, A & Giannitsas, K. An Overview of the Clinical Use of Antimuscarinics in the Treatment of Overactive Bladder. *Advances in Urology*, 2011. <http://dx.doi.org/10.1155/2011/820816>
2. Harvey MA, Baker K, Wells GA. Tolterodine versus oxybutynin in the treatment of urge urinary incontinence: a meta-analysis. *Am J Obstet Gynecol*. 2001 Jul;182(1):56-61.

## ANTIMUSCARINICS (ANTICHOLINERGICS) – INHALED

**(DO NOT INTERCHANGE FOR TRACH PATIENTS)**

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Atrovent HFA (scheduled orders only)		Incruse Ellipta – 1 inh QD
Lonhala Magnair – any sig		
Seebri Neohaler – any sig		
Spiriva Handihaler – any sig		
Spiriva Respimat – any sig		
Tudorza Pressair – any sig		

1. Feldman G, Maltais F, et al. A Randomized, blinded study to evaluate the efficacy and safety of umeclidinium 62.5mcg compared with tiotropium 18mcg in patients with COPD. [Int J Chron Obstruct Pulmon Dis](#). 2016 Apr 7;11:719-30.
2. Ismaila AS, Huisman E, et al. Comparative efficacy of long-acting muscarinic antagonist monotherapies in COPD: a systematic review and network meta-analysis. <https://doi.org/10.2147/COPD.S92412>.
3. Incruse Ellipta (umeclidinium) [prescribing information]. Research Triangle Park, NC: GlaxoSmithKline; October 2017.

Umeclidinium (Incruse®) is being recommended due to proven efficacy and is generally available at a lower cost.

## BETA BLOCKERS - CARVEDILOL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Carvedilol CR 10mg QD		Carvedilol 3.125mg BID
Carvedilol CR 20mg QD		Carvedilol 6.25mg BID
Carvedilol CR 40mg QD		Carvedilol 12.5mg BID
Carvedilol CR 80mg QD		Carvedilol 25mg BID

1. Coreg (carvedilol immediate release) [prescribing information]. Research Triangle Park, NC: GlaxoSmithKline; September 2017
2. Coreg CR (carvedilol extended release) [prescribing information]. Research Triangle Park, NC: GlaxoSmithKline; September 2017.

## BETA BLOCKERS - METOPROLOL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Kaspargo Sprinkle 25mg QD		Metoprolol tartrate 12.5mg BID
Kaspargo Sprinkle 50mg QD		Metoprolol tartrate 25mg BID
Kaspargo Sprinkle 100mg QD		Metoprolol tartrate 50mg BID
Kaspargo Sprinkle 200mg QD		Metoprolol tartrate 100mg BID

MERIT-HF Study Group. Effect of metoprolol CR/XL in chronic heart failure: Metoprolol CR/XL Randomised Intervention Trial in Congestive Heart Failure. *Lancet* 1999;353(9169): 2001-07. <https://www.ncbi.nlm.nih.gov/pubmed?term=10376614>

## BETA BLOCKERS - SOTALOL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Sotalol AF 80mg		Sotalol 80mg – same dose
Sotalol AF 120mg		Sotalol 120mg – same dose
Sotalol AF 160mg		Sotalol 160mg – same dose
Sotylize 5mg/ml		Sotalol 80, 120, or 160mg tabs – same dose

## BISPHOSPHONATE DERIVATIVES

Interchangeable With	Interchangeable With	Interchangeable With
Alendronate 5mg QD		Alendronate 35mg once weekly
Alendronate 10mg QD		Alendronate 70mg once weekly (pharmacy to flag for accurate start date)  *For Ibandronate 150mg and Risendronate 150mg – obtain last admin date and initiate weekly Alendronate when next monthly dose would have been due
Alendronate (Binosto) 70mg effervescent tablet		
Risedronate 5mg QD		
Risedronate IR 35mg once weekly		
Risedronate DR 35mg once weekly		
*Risendronate sodium tab 150mg every 30 days		
*Ibandronate 150mg every 30 days		

1. Drug Class Review. Oral Bisphosphonates in the Treatment of Osteoporosis. July 2003. Available at: <http://www.pbm.med.va.gov>. Accessed December 22, 2011
2. Actonel® [package insert] North Norwich, NY: Norwich Pharmaceuticals, Inc. 2011.
3. Boniva® [package insert] South San Francisco, CA. Genentech USA, Inc. 2011.
4. Fosamax (alendronate) [prescribing information]. Whitehouse Station, NJ: Merck & Co Inc; March 2016

## BONE DENSITY REGULATORS – INJECTABLE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Forteo (teriparatide) 20mcg subq once daily		Denosumab (Prolia) 60mg subq every 6 months

## CARBONIC ANHYDROUS INHIBITORS - OPTHMALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Azopt (Brinzolamide) oph susp		Dorzolamide 2% oph soln – same sig

## CEPHALEXIN - ORAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Cephalexin tablets		Cephalexin capsules – same dose and frequency

## CHOLINESTERASE INHIBITORS

Interchangeable With	Interchangeable With	Interchangeable With
Galantamine 4mg BID		Donepezil 5mg QHS
Galantamine SR 8mg QD		
Galantamine 8mg BID		
Galantamine 12mg BID		
Galantamine SR 16mg QD		
Galantamine SR 24mg QD		
Rivastigmine 1.5mg caps BID		Donepezil 10mg QHS
Rivastigmine 3mg caps BID		
Rivastigmine 4.5mg caps BID		
Rivastigmine 6mg caps BID		
		Donepezil 5mg QHS
		Donepezil 10mg QHS

## COLCHICINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Colchicine 0.6mg capsules (Mitigare)		Colchicine 0.6mg tablets – same dose and freq

## COLONY STIMULATING FACTORS – **SUBQ ADMIN ONLY**

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Neupogen <i>OR</i> Nivestym 300mcg/0.5ml syringe or 300mcg/1ml vial SUBQ ADMIN ONLY		Granix 300mcg/0.5ml syringe SUBQ – same frequency
Neupogen <i>OR</i> Nivestym 480mcg/0.8ml syringe or 480mcg/1.6ml vial SUBQ ADMIN ONLY		Granix 480mcg/0.8ml syringe SUBQ – same frequency
Zarxio 300mcg/0.5ml syringe SUBQ admin only		Granix 300mcg/0.5ml syringe SUBQ – same frequency
Zarxio 480mcg/0.8ml syringe SUBQ admin only		Granix 480mcg/0.8ml syringe SUBQ – same frequency

## CORTICOSTEROIDS - TOPICAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Trianex (triamcinolone) 0.05% oint		Triamcinolone 0.1% oint – same sig
Sila III Pak (triamcinolone 0.1% oint w/ gauze)		
Tritocin (triamcinolone) 0.05% oint		
Triderm (triamcinolone) 0.1% cream		
Desonide 0.05% (lotion, cream, gel, oint)		
Verdeso (desonide) 0.05% foam		

## CORTICOSTEROID - NASAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Beclomethasone (Beconase AQ or Qnasl)		Fluticasone prop 50mcg – 2 sprays in both nostrils QD
Budesonide nasal 32mcg		
Ciclesonide (Omnaris) 50mcg		
Ciclesonide (Zetonna) 37mcg		
Flonase Sensimist (fluticasone furoate) 27.5mcg		
Flunisolide nasal 25mcg		
Mometasone furoate (Nasonex) 50mcg		
Olopatadine (Patanase) 665mcg		
Triamcinolone nasal (Nasacort)		
Xhance (fluticasone prop) 93mcg		

## CORTICOSTEROID INHALERS (DO NOT INTERCHANGE FOR TRACH PATIENTS)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Alvesco HFA 80mcg – 1 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Alvesco HFA 160mcg – 1 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Alvesco HFA 160mcg – 2 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
Asmanex HFA 100mcg – 2 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Asmanex HFA 200mcg – 2 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
Asmanex Twisthaler 220mcg – 1 inh QD		Arnuity Ellipta 100mcg – 1 inh QD
Asmanex Twisthaler 220mcg – 2 inh QD		Arnuity Ellipta 200mcg – 1 inh QD
Flovent Diskus 100mcg – 1 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Flovent Diskus 250mcg – 1-2 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
Flovent HFA 44mcg – 2 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Flovent HFA 110mcg – 2 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
Flovent HFA 220mcg – 2 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
Pulmicort Flexhaler 180mcg – 1-2 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
Pulmicort Flexhaler 180mcg – 4 inh bid		Arnuity Ellipta 200mcg – 1 inh QD
QVAR Redihaler 40mcg – 2 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
QVAR Redihaler 80mcg – 2 inh bid		Arnuity Ellipta 100mcg – 1 inh QD
QVAR Redihaler 80mcg – 4 inh bid		Arnuity Ellipta 200mcg – 1 inh QD

1. Arnuity Ellipta (fluticasone furoate inhalation powder) [prescribing information]. Research Triangle Park, NC: GlaxoSmithKline; November 2014.
2. Daley-Yates PT. Inhaled Corticosteroids: potency, dose equivalence and therapeutic index. [Br J Clin Pharmacol](#). 2015 Sep; 80(3):372–380.
3. Global Initiative for Chronic Obstructive Lung Disease (GOLD Guidelines): Global Strategy for the Diagnosis, Management, and Prevention of Chronic Obstructive Pulmonary Disease; 2009.
4. AMDA Clinical Practice Guideline: COPD Management in Long Term Care Setting. American Medical Directors Association, 2010.

Arnuity Ellipta® (fluticasone furoate) is a dry powder inhaler which is comparable in safety, efficacy and cost, but is easier to use. Cognitively impaired elderly patients may more reliably receive the correct dose of medication with a dry powder inhaler versus a metered-dose inhaler; dry powder inhalers do not require timing, coordination of inhalation or priming. Arnuity Ellipta® is dosed once daily.

## CORTICOSTEROID/AMINOGLYCOSIDE ANTIBIOTIC – OPHTHALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Tobradex 0.3%-0.1% oph oint		Neo/polyB/dex oph oint (Maxitrol) – same sig

## CORTICOSTEROID/LABA COMBINATION INHALERS

**(DO NOT INTERCHANGE FOR TRACH PATIENTS)**

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Advair HFA 45/21mcg – 2 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Advair HFA 115/21mcg – 2 inh bid		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Advair HFA 230/21mcg – 2 inh bid		Fluticasone/salmeterol 500/50mcg – 1 inh bid
Airduo (Resplick or Digihaler) 55/14mcg – 1 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Airduo (Resplick or Digihaler) 113/14mcg – 1 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Airduo (Resplick or Digihaler) 232/14mcg – 1 inh bid		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Breo Ellipta 100/25mcg – 1 inh qd		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Breo Ellipta 200/25mcg – 1 inh qd		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Dulera 100/5mcg – 2 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Dulera 200/5mcg – 2 inh bid		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Symbicort 80/4.5mcg – 2 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Symbicort 160/4.5mcg – 2 inh bid		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Wixela 100/50mcg – 1 inh bid		Fluticasone/salmeterol 100/50mcg – 1 inh bid
Wixela 250/50mcg – 1 inh bid		Fluticasone/salmeterol 250/50mcg – 1 inh bid
Wixela 500/50mcg – 1 inh bid		Fluticasone/salmeterol 500/50mcg – 1 inh bid

1. Global Initiative for Chronic Obstructive Lung Disease (GOLD Guidelines): Global Strategy for the Diagnosis, Management, and Prevention of Chronic Obstructive Pulmonary Disease; 2009.
2. AMDA Clinical Practice Guideline: COPD Management in Long Term Care Setting. American Medical Directors Association, 2010.
3. Miller-Larrson A and Selroos O. Advances in Asthma and COPD Treatment: Combination Therapy with Inhaled Corticosteroids and Long-Acting B2-Agonists. *Current Pharmaceutical Design*, 2006, 12, 3261-3279.

Advair Diskus® recent patent expiration provides significant cost savings with comparable efficacy.

## DILTIAZEM CD (generic)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Diltiazem LA (Cardizem LA) 120mg tablet		Diltiazem CD 120mg capsule – same sig
Diltiazem LA (Cardizem LA) 180mg tablet		Diltiazem CD 180mg capsule – same sig
Diltiazem ER (Matzim LA) 180mg tablet		
Diltiazem LA (Cardizem LA) 240mg tablet		Diltiazem CD 240mg capsule – same sig
Diltiazem ER (Matzim LA) 240mg tablet		
Diltiazem LA (Cardizem LA) 300mg tablet		Diltiazem CD 300mg capsule – same sig
Diltiazem ER (Matzim LA) 300mg tablet		
Diltiazem LA (Cardizem LA) 360mg tablet		Diltiazem CD 360mg capsule – same sig
Diltiazem ER (Matzim LA) 360mg tablet		

## DOXYCYCLINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Doxycycline hyclate DR tablets		Doxycycline caps – same dose and sig
*Doxycycline hyclate DR 200mg will be changed to Doxycycline hyclate 2 x 100mg caps		

## DPP-IV INHIBITORS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Januvia (sitagliptan) 25mg QD		Alogliptin 6.25mg QD
Januvia (sitagliptan) 50mg QD		Alogliptin 12.5mg QD
Januvia (sitagliptan) 100mg QD		Alogliptin 25mg QD
Onglyza (saxagliptan) 2.5mg QD		Alogliptin 6.25mg QD
Onglyza (saxagliptan) 5mg QD		Alogliptin 25mg QD
Tradjenta (linagliptin) 5mg QD		Alogliptin 25mg QD

GlobalRPh dose comparison. <http://www.globalrph.com/DPP-4-inhibitors.htm>

## DULOXETINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Drizalma (duloxetine DR sprinkle) capsules – any dose and freq		Duloxetine DR particle capsules (Cymbalta) – same TOTAL dose, dosed QD

## EPINEPHRINE INJECTIONS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Epinephrine 0.15mg/0.15ml		Epinephrine 0.15mg/0.3ml auto injector pen – same sig
Epipen 0.3mg/0.3ml		Epinephrine 0.3mg auto injector pen– same sig
Auvi-Q 0.3mg/0.3ml		
Adrenaclick 0.3mg/0.3ml		

## ERYTHROID STIMULATING AGENTS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Procrit, Epogen 2,000units/ml vial (any dose/sig)		Retacrit 2,000units/ml vial – same dose and sig
Procrit, Epogen 3,000units/ml vial (any dose/sig)		Retacrit 3,000units/ml vial – same dose and sig
Procrit, Epogen 4,000units/ml vial (any dose/sig)		Retacrit 4,000units/ml vial – same dose and sig
Procrit, Epogen 10,000units/ml vial (any dose/sig)		Retacrit 10,000units/ml vial – same dose and sig
Procrit, Epogen 20,000units/ml vial (any dose/sig)		Retacrit 20,000units/ml vial – same dose and sig
Procrit, Epogen 40,000units/ml vial (any dose/sig)		Retacrit 40,000units/ml vial – same dose and sig
Aranesp 25mcg weekly		Retacrit 6,000units weekly (2 x 3,000unit vials)
Aranesp 60mcg weekly		Retacrit 20,000units/ml vial weekly
Aranesp 100mcg weekly		Retacrit 40,000units/ml vial weekly

\*\*\*ALL ORDERS SHOULD BE MARKED PROFILE ONLY AND ONLY SENT IF REQUESTED

## ESTROGENS, CONJUGATED - VAGINAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Premarin 0.625mg vaginal cream		Estradiol 0.01% vaginal cream – insert 0.5g vaginally three times weekly

## FIBRATES

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Fenofibrate 30mg		Fenofibrate 48mg tablets – same directions
Fenofibric acid 35mg		
Fenofibrate 40mg		
Fenofibrate 43mg		
Fenofibric acid 45mg		
Fenofibrate 50mg		
Fenofibrate 54mg		
Fenofibrate 67mg		
Fenofibrate 90mg		
Fenofibrate 105mg		
Fenofibrate 120mg		
Fenofibrate 130mg		
Fenofibric acid 135mg		
Fenofibrate 150mg		
Fenofibrate 160mg		

Tricor (fenofibrate) tablets [prescribing information]. North Chicago, IL: Abbott Laboratories; February 2018.

### FLUOXETINE - ORAL

Prescribed Medication and Dose	Interchangeable With	Preferred Medication and Dose
Fluoxetine tablets – all strengths		Fluoxetine capsules – same dose and directions

### GLATIRAMER ACETATE

Prescribed Medication and Dose	Interchangeable With	Preferred Medication and Dose
Copaxone 20mg subq QD		Glatiramer 20mg subq QD
Glatopa 20mg subq		

### GLP-1 RECEPTOR AGONISTS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Byetta 5mcg subq bid		Trulicity 0.75mg subq once weekly
Byetta 10mcg subq bid		Trulicity 1.5mg subq once weekly
Ozempic 0.25-0.5mg subq once weekly		Trulicity 0.75mg subq once weekly
Ozempic 1mg subq once weekly		Trulicity 1.5mg subq once weekly

### GLUCAGON

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Baqsimi Nasal		Glucagon
Gvoke PFS		
Glucagen Hypokit		

### GUANYLATE CYCLASE-C AGONIST

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
<b>Indication: Chronic Idiopathic Constipation (CIC)</b>		
Linzess 145mcg QD		Lubiprostone (Amitiza) 24mcg BID
Trulance 3mg QD		
<b>Indication: Irritable Bowel Syndrome – Constipation (IBS-C)</b>		
Linzess 290mcg QD		Lubiprostone (Amitiza) 8mcg BID
Trulance 3mg QD		

## HMG CO-A REDUCATASE INHIBITORS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Ezetimibe/simvastatin 10mg/10mg QD		Atorvastatin 20mg QD
Ezetimibe/simvastatin 10mg/20mg QD		Atorvastatin 40mg QD
Ezetimibe/simvastatin 10mg/40mg QD		Atorvastatin 80mg QD
Ezetimibe/simvastatin 10mg/80mg QD		
Fluvastatin – any strength		
Lovastatin 10mg QD		Atorvastatin 10mg QD
Lovastatin 20mg (IR or ER) QD		
Lovastatin 40mg (IR or ER) QD		
Lovastatin ER 60mg QD		Atorvastatin 20mg QD
Lovastatin 80mg QD (2 x 40mg IR tabs)		
Pitavastatin (Livalo) 1mg QD		Atorvastatin 10mg QD
Pitavastatin (Livalo) 2mg QD		
Pitavastatin (Livalo) 4mg QD		Atorvastatin 20mg QD

1. Statin Dose Comparison. Pharmacist's Letter/Prescriber's Letter 2009; 25(8): 250801. Full Update June 2013.
2. <https://www.fda.gov/Drugs/DrugSafety/ucm256581.htm>
3. Lipitor (atorvastatin) [prescribing information]. New York, NY: Parke-Davis; June 2017.  
Atorvastatin is being recommended over the other statin options due to its side effect profile, fewer drug interactions and potency. It is also available at a lower cost.

## INSULINS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Novolog Mix 70/30 vial or pen		Humalog Mix 75/25 pen (generic)–same units &sig
Novolin 70/30 vial or pen		Humulin 70/30 3ml vial – same units and sig
Basaglar 100units/ml pen		
Insulin glargine-yfgn 100units/ml vial		Insulin glargine-yfgn 100units/ml pen – same units and sig
Lantus 100units/ml vial or pen		
Levemir 100units/ml vial or pen		
Tresiba 100units/ml vial or pen		
Novolin R 100units/ml vial or pen		Humulin R 100units/ml 3ml vial – same units / sig
Novolin N 100units/ml 10ml vial or pen		Humulin N 100units/ml 3ml vial – same units / sig
Humalog 100units/ml (insulin lispro) vial		
Admelog 100units/ml vial or pen		
Novolog 100units/ml (insulin aspart) vial or pen		Insulin lispo 100units/ml pen – same units and directions
Apidra 100units/ml vial or pen		
Fiasp 100units/ml vial or pen		
Lyumjev 100units/ml vial or pen		

1. How to Switch Between Insulin Products. Pharmacist's Letter/Prescriber's Letter 2009; 25(10): 2501005.
2. Comparison of Insulins and Injectable Diabetes Meds. Pharmacist's Letter/Prescriber's Letter 2010;26(3): 206304.

## INTERFERON BETA 1B

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Betaseron 0.3mg kit (250mcg)		Extavia 0.3mg kit (250mcg) – same dose and sig

## LEVOTHYROXINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Levothyroxine capsules (Tirosint)		Levothyroxine tablets – same dose

## LIDOCAINE PATCH

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Lidocaine 5% patch		Lidocaine 4% patch – same directions

## LONG-ACTING BETA2 AGONIST (LABA) INHALER

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Serevent Diskus – 1 inh q12h (or off-label: 1 inh QD, 2 inh QD, 2 inh BID)		Striverdi Respimat – 2 inh QD

Global Initiative for Chronic Obstructive Lung Disease (GOLD Guidelines): Global Strategy for the Diagnosis, Management, and Prevention of Chronic Obstructive Pulmonary Disease; 2009. Update. AMDA Clinical Practice Guideline: COPD Management in the Long-Term Care Setting. American Medical Directors Association, 2010.

## LONG-ACTING BETA2 AGONIST (LABA) / ANTICHOLINERGIC INHALERS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Bevespi – 2 inh BID (or off-label: 1 inh QD/BID/TID/QID or 2 inh QD)		Anoro Ellipta – 1 inh QD
Combivent Respimat (any <i>scheduled</i> dose)		
Stiolto – 2 inh QD (or off-label: 1 inh QD/BID)		

## MEGESTROL SUSPENSION

Interchangeable With	Interchangeable With	Interchangeable With
Megestrol acetate extra strength (Megace ES) 625/5ml		Megestrol acetate 800mg/20mg – 10ml (400mg) BID with food

## METFORMIN – EXTENDED RELEASE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Metformin ER (Fortamet, Glucophage XR) 500mg QD		Metformin 500mg QD with a meal
Metformin ER modified release (Glumetza) 500mg QD		
Metformin ER (Fortamet, Glucophage XR) 500mg BID		Metformin 500mg BID with meals
Metformin ER modified release (Glumetza) 500mg BID		
Metformin ER 750mg QD		Metformin 850mg QD with a meal
Metformin ER 750mg – 1 tab BID or 2 tabs QD		Metformin 850mg BID with meals
Metformin ER 1000mg (osmotic or modified release) – 1 tab QD		Metformin 500mg BID with meals
Metformin ER 1000mg (osmotic or modified release) – 1 tab BID or 2 tabs QD		Metformin 1000mg BID with meals

## NMDA RECEPTOR ANTAGONISTS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Memantine XR 7mg QD		Memantine IR 5mg BID
Memantine XR 14m QD		
Memantine XR 21mg QD		Memantine IR 5mg QAM AND 10mg QPM
Memantine XR 28mg QD		Memantine IR 10mg BID

1. NamendaXR for HCP. <http://www.namendaxrhcp.com/patients-currently-taking-namenda.aspx>
2. Memantine [prescribing information]. Weston, FL: Apotex Corp; August 2017

## NSAID – ORAL DICLOFENAC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Zorvolex capsule 18mg		Diclofenac sodium DR 25mg – same sig
Zorvolex capsule 35mg		Diclofenac sodium DR 50mg – same sig

## NSAID – TOPICAL DICLOFANAC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Pennsaid solution 2% - 2 pumps (40mg) to affected knee(s) BID		Diclofenac solution 1.5% - 40 drops to affected knee(s) QID

## ONDANSETRON - ORAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Ondansetron ODT or film 4mg		Ondansetron 4mg tablet – same frequency
Ondansetron ODT or film 8mg		Ondansetron 8mg tablet – same frequency

## OPIOID ANTAGONIST, PERIPHERALLY-ACTING

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Relistor 150mg tab – 3 tabs QD		Movantik 25mg QD
Symproic 0.2mg tab – 1 tab QD		

## PHOSPHATE BINDERS (NON-CALCIUM) - RENAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Auryxia 210mg – 1 tab TID		Sevelamer carbonate 800mg – 1 tab TID with meals
Auryxia 210mg – 2 tabs TID		Sevelamer carbonate 800mg – 2 tabs TID with meals
Fosrenol (lanthanum carbonate) 500mg – 1 tab TID		Sevelamer carbonate 800mg – 1 tab TID with meals
Fosrenol (lanthanum carbonate) 500mg – 2 tabs TID		Sevelamer carbonate 800mg – 2 tabs TID with meals
Sevelamer HCl 400mg – 2 tablets TID		Sevelamer carbonate 800mg – 1 tab TID with meals
Sevelamer HCl 800mg – 1 tablet TID		
Sevelamer HCl 800mg – 2 tablets TID		Sevelamer carbonate 800mg – 2 tabs TID with meals
Sevelamer carbonate 0.8gm packet – 1 packet TID		Sevelamer carbonate 800mg – 1 tab TID with meals
Sevelamer carbonate 0.8gm packet – 2 packets TID		Sevelamer carbonate 800mg – 2 tabs TID with meals
Velphoro chew 500mg		Lanthanum carbonate 500mg chew – same dose/freq

1. Renvela (sevelamer carbonate) [prescribing information]. Cambridge, MA: Genzyme Corp; March 2017.
2. Simla TP, Beizer JL, Higbee MD. Geriatric Dosage Handbook. Hudson, Ohio: Lexicomp 2012.

These agents display comparable effectiveness, safety and cost. Renagel® can be interchanged to Renvela® on a mg per mg basis.

## POTASSIUM CHLORIDE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Potassium chloride 8mEq capsules		Potassium chloride 8mEq tablets – same sig
Potassium chloride 10mEq capsules		Potassium chloride 10mEq tablets – same sig

## PROSTAGLANDIN ANALOGUE - OPHTHALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Bimatoprost (Lumigan) – any dose		Latanoprost 0.005% - 1 drop in affected eye(s) at bedtime (specify which eye if original order does)
Travoprost (Travatan Z) – any dose		
Zioptan (tafluprost) – any dose		

1. Parrish RK, Palmber P, Sheu WP, et al. A comparison of latanoprost, bimatoprost, and travoprost in patients with elevated intraocular pressure: a 12-week, randomized, masked evaluator multicenter study. Am J Ophthalmol 2003; 135:688-703.

Generic latanoprost is being recommended over other available, because it is comparably safe and effective and is generally available at a lower cost.

## PROTON PUMP INHIBITORS

Interchangeable With	Interchangeable With	Interchangeable With
Dexlansoprazole (Dexilant) 30mg capsule		Omeprazole 20mg DR capsule – same sig
Dexlansoprazole (Dexilant) 60mg capsule		Omeprazole 40mg DR capsule – same sig
Esomeprazole 20mg capsules (as Mg, OTC or Rx)		Omeprazole 20mg DR capsule – same sig
Esomeprazole 40mg capsule		Omeprazole 40mg DR capsule – same sig
Esomeprazole packet (2.5mg, 5mg, 10mg, 20mg)		Omeprazole 20mg DR capsule – same sig
Esomeprazole packet 40mg		Omeprazole 40mg DR capsule – same sig
Lansoprazole 15mg capsule		Omeprazole 20mg DR capsule – same sig
Lansoprazole 30mg capsule		Omeprazole 40mg DR capsule – same sig
Lansoprazole solutabs/ODT 15mg		Omeprazole 20mg DR capsule – same sig
Lansoprazole solutabs/ODT 30mg		Omeprazole 40mg DR capsule – same sig
First-Lansoprazole solution 3mg/ml -5ml (15mg)		Omeprazole 20mg DR capsule – same sig
First-Lansoprazole solution 3mg/ml – 10ml (30mg)		Omeprazole 40mg DR capsule – same sig
Omeprazole 20mg DR tabs, as magnesium (OTC)		Omeprazole 20mg DR capsule – same sig
Omeprazole (Prilosec) granules – 2.5mg, 10mg		Omeprazole 20mg DR capsule – same sig
First-Omeprazole solution 2mg/ml – 10ml (20mg)		Omeprazole 20mg DR capsule – same sig
First-Omeprazole solution 2mg/ml – 20ml (40mg)		Omeprazole 40mg DR capsule – same sig
Omeprazole/Sodium bicarb cap 20/1100mg QD		Omeprazole 20mg DR capsule – same sig
Omeprazole/Sodium bicarb cap 40/1100mg QD		Omeprazole 40mg DR capsule – same sig
Omeprazole/sod bicarb powder 20/1680mg QD		Omeprazole 20mg DR capsule – same sig
Omeprazole/sod bicarb powder 40/1680mg QD		Omeprazole 40mg DR capsule – same sig
Pantoprazole 20mg tablet		Omeprazole 20mg DR capsule – same sig
Pantoprazole 40mg tablet and 40mg pak/granules		Omeprazole 40mg DR capsule – same sig

1. Proton Pump Inhibitor Dose Comparison. Pharmacist's Letter/Prescriber's Letter 2009; 25(8): 250801.
2. Prilosec (omeprazole) [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals; December 2016.

## PULMONARY HYPERTENSION

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Sildenafil suspension 10mg/ml – 2ml TID		Sildenafil 20mg tablet – 1 tab TID

## QUETIAPINE – ORAL

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Quetiapine ER 50mg		Quetiapine 50mg tab – same total dose and freq
Quetiapine ER 200mg		Quetiapine 200mg tab – same total dose and freq
Quetiapine ER 300mg		Quetiapine 300mg tab – same total dose and freq
Quetiapine ER 400mg		Quetiapine 400mg tab – same total dose and freq

## SHORT-ACTING BETA2 AGONISTS (SABA)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
ProAir HFA 90mcg inhaler		Albuterol HFA 90mcg inhaler (8.5g) – same directions
ProAir RespiClick 90mcg inhaler		
ProAir Digihaler 108mcg inhaler		
Proventil HFA 90mcg inhaler		
Ventolin HFA 90mcg inhaler		
Albuterol sulf nebulizer soln 0.5%		Albuterol 2.5mg/3ml (0.083%) nebulizer soln – same sig
Xopenex (levalbuterol) nebulizer soln – any strength		

## SUCRALFATE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Sucralfate suspension – and dose		Sucralfate 1gm tablets – same dose and freq

## SYNDROME OF INAPPROPRIATE ANTIDIURETIC HORMONE (SIADH)

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Samsca 15mg QD		Demeclocycline 150mg QID
Ure-NA 15 gram packet QD		

## TIMOLOL - OPHTHALMIC

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Betimol 0.25% solution		Timolol 0.25% solution – same sig
Betimol 0.5% solution		Timolol 0.5% solution – same sig

## TIZANIDINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Tizanidine capsules		Tizanidine tablets – same dose and frequency

## URINARY ANALGESICS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Elmiron 100mg TID		Phenazopyridine 100mg – same dose and frequency

## VENLAFAXINE

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Venlafaxine ER tablets		Venlafaxine ER capsules – same dose and frequency

## VMAT2 INHIBITORS

Prescribed Medication and Dose	Interchangeable With	Medication and Dose
Austedo 6mg QD		Tetrabenazine 12.5mg QD
Austedo 6mg BID		Tetrabenazine 25mg QD
Austedo 9mg BID		Tetrabenazine 37.5mg QD
Austedo 12mg BID		Tetrabenazine 50mg QD
Austedo 18mg (2 x 9mg) BID		Tetrabenazine 75mg QD
Austedo 24mg (2 x 12mg) BID		Tetrabenazine 100mg QD
Ingrezza 80mg QD		Tetrabenazine 25mg BID