

# Therapeutic Interchanges

Updated: 7-2015

**TABLE 1: STATINS**

<i>HMG-CoA Reductase Inhibitor</i>		<i>% LDL Reduction Capability</i>
<b>Pravastatin (Pravachol) FORMULARY</b>	10mg	22
	20mg	32
	40mg	34
	80mg	37
<b>Atorvastatin (Lipitor) FORMULARY</b>	10mg	39
	20mg	43
	40mg	50
	80mg	60
Lovastatin (Mevacor)	10mg	21
	20mg	27
	40mg	31
	80mg	42
Simvastatin (Zocor)	5mg	26
	10mg	30
	20mg	38
	40mg	41
Fluvastatin (Lescol)	20mg	22
	40mg	24
	80mg	36
Pitavastatin (Livalo)	1mg	31
	2mg	39
	4mg	44
Rosuvastatin (Crestor)	5mg	45
	10mg	52
	20mg	55
	40mg	63

**TABLE 2: ARB's**

	<i>Hypertension</i>	<i>Diabetic Nephropathy</i>	<i>Heart Failure</i>
<b>Losartan (Cozaar) FORMULARY</b>	50mg	50-100mg	50-100mg (if BP permits)
<b>Candesartan (Atacand) FORMULARY</b>	16mg		32mg
Eprosartan (Teveten)	600mg		
Irbesartan (Avapro)	150mg	300mg	
Olmesartan (Benicar)	20mg		
Telmisartan (Micardis)	40mg		

Valsartan (Diovan)	80mg	80-160mg	160mg BID (if BP permits)
Azilsartan (Edarbi)	80 mg		

**TABLE 3: ACE-I's**

<b>FORMULARY</b>	<b>Total Daily Dose</b>
Lisinopril 20mg	Benazepril (Lotensin) 20mg
Lisinopril 20mg	Fosinopril (Monopril) 20mg
Lisinopril 20mg	Moexipril (Univasc) 15mg
Lisinopril 20mg	Quinapril (Accupril) 20mg
Lisinopril 20mg	Trandolapril (Mavik) 2mg

**TABLE 4: Antihistamines-Oral**

<b>FORMULARY</b>	<b>Regimen/Doses per 24 hrs</b>	<b>Non-Formulary Drug</b>
loratadine 10 mg daily	5mg QDAY 10 mg QDAY	Zyrtec (cetirizine)
loratadine 10 mg daily	30mg BID 60mg BID	Allegra (fexofenadine)
loratadine 10 mg daily pseudoephedrine 60 mg q 6hrs	1 tablet BID	Allegra D 60mg fexofenadine 120mg pseudoephedrine
loratadine 10 mg daily pseudoephedrine 60 mg q 6hrs	1 tablet BID	Claritin D 12hr tablet 5mg loratadine 120mg pseudoephedrine
loratadine 10 mg daily pseudoephedrine 60 mg q 6hrs	1 tablet QDAY	Claritin D 24 hr tablet 10mg loratadine 240mg pseudoephedrine

\*Hepatic impairment/renal clearance (CrCl < 30 ml/min): Claritin 10 mg every other day

**TABLE 5: Miscellaneous Items**

<b>Therapeutic Class</b>	<b>Formulary Drug</b>	<b>Substitute For</b>
H2-Antagonists	famotidine	ranitidine, nizatidine, cimetidine
2 <sup>nd</sup> generation cephalosporins	cefoxitin	cefotetan
Beta-2 agonist inhalers/solution	albuterol MDI and nebulizer	metaproterenol, terbutaline
Proton Pump Inhibitors	pantoprazole lansoprazole solu-tab (for tube administration) omeprazole suspension (for use with neonates)	Lansoprazole, esomeprazole, rabeprazole, dexlansoprazole, omeprazole, dexlansoprazole***  ***check for DDI
Al-Mag Antacid Combinations	Maalox Plus Liquid, Maalox ES tablets	Mylanta, etc
Iron Products	ferrous sulfate ferrous gluconate	Feosol, Ferr0-Sequels, Mol-Iron, Trinsicon, Simron, Slow FE, Fero-Grad 500, Fero-Folic 500, Fergon, etc)
Stool Softeners	docusate sodium (Colace)	Dialose, Surfak
Stool Softener/Laxative combination	docusate sodium/sennosidesl (PeriColace)	Senokot-S, Correctol, Ex-Lax, Fennamint, Doxidan, Dialose Plus
Insomnia	zolpidem (Ambien) Use 5 mg dose for all substitutions	Sonata (zaleplon), Ambien CR, Lunesta (escopiclone), Rozerem (ramelteon---61 psychiatry patients excluded for ramelteon substitution)

Steroid Nasal Sprays	Fluticasone (Flonase)	Beconase AQ (beclomethasone), Rhinocort Aqua (budesonide), Nasarel (flunisolide), Veramyst (fluticasone furoate), Nasonex (mometasone), Nasacort AQ (budesonide)
Anti-Histamine Nasal Sprays	Azelastine 137 mcg (Astelin)	Astepro (azelastine 0.15%), Patanase (olopatadine)
Anti-Histamine Ophthalmic	Ketotifen	All other ophthalmic anti-histamines
Phosphate Binders – select	Renvela- tablets and powder	RenaGel

**TABLE 6: Prostaglandin F<sub>2</sub>-alpha agonist**

	<b>Latanoprost 0.005% (Xalatan) Formulary</b>	<b>Travoprost 0.004% (Travatan)</b>	<b>Bimatoprost 0.03% (Lumigan)</b>	<b>Unoprostone 0.15% (Rescula)</b>
Dosing	1 drop in affected eye(s) every evening	1 drop in affected eye(s) every evening	1 drop in affected eye(s) every evening	1 drop in affected eye(s) BID

**TABLE 7: Carbonic-Anhydrase Inhibitors**

<b>Formulary Drug</b>	<b>Substitute For</b>
Trusopt (dorzolamide) Dose 2% 1 drop in affected eye three times daily	Azopt (brinzolamide) Dose 1% 1 drop in affected eye three times daily

**TABLE 8: 5-Alpha Reductase Inhibitors**

<b>Formulary Drug</b>	<b>Substitute For</b>
finasteride (Proscar)	dutasteride (Avodart)

**TABLE 9: Alpha-Blockers for BPH**

<b>Formulary Drug</b>	<b>Substitute For</b>
tamsulosin (Flomax) 0.4 mg (admin 30 min after same meal each day—usually supper)	alfuzosin (Uroxatral) 10 mg silodosin (Rapaflo) 8 mg
doxazosin (Cardura) 1mg, 2mg, 4 mg, 8mg (1:1 conversion—as close as possible)	terazosin (Hytrin) 1 mg, 2 mg, 5 mg, 10 mg (1:1 conversion—as close as possible)

**TABLE 10: Urinary Incontinence Agents**

<b>Formulary Product</b>	<b>Non-Formulary Drug Product</b>	<b>Dose</b>
Tolterodine LA 2mg LA 4mg	Solifenacin(Vesicare)5mg 10mg	Qday
#Oxybutynin XL 5mg XL 10mg	Darifenacin(Enablex)7.5mg 15mg	Qday
#Oxybutynin IR 10mg #Oxybutynin XL 10mg Max 30mg/day	Trospium(Sanctura) 20mg Trospium ER(Sanctura XR) 60mg	Bid Qday
Tolterodine LA 4mg LA 4mg	Festerodine (Toviaz)4mg 8mg	Qday Qday
Oxybutynin XL 10mg	Oxybutynin TDS (Oxytrol)	Qday

**\*be sure to check for drug-drug interactions**

**TABLE 11: Inhaled long-acting beta 2 – agonists/steroid combinations**

<b>Formulary Drug</b>	<b>Substitute For</b>	<b>Substitute For</b>	<b>Substitute For</b>
<b>Symbicort (budesonide/formoterol)</b>	<i>Dulera</i> (mometasone/formoterol)	<i>Advair diskus</i> (fluticasone/salmeterol)	<i>Advair HFA</i> (fluticasone/salmeterol)
Symbicort 80 mcg/4.5 mcg 2 puffs BID	Dulera 100mcg/5mcg 2 INH BID	100 mcg/50 mcg 1 inhalation BID	45 mcg/21 mcg 2 inhalations BID
Symbicort 160 mcg/4.5 mcg 2 puffs BID	Dulera 200mcg/5mcg 2 INH BID	250 mcg/50 mcg 1 inhalation BID	115 mcg/21 mcg 2 inhalations BID
Symbicort 160 mcg/4.5 mcg 2 puffs BID	Dulera 200mcg/5mcg 2 INH BID	500 mcg/50 mcg 1 inhalation BID	230 mcg/21 mcg 2 inhalations BID

**TABLE 12: Antibiotic Substitutions**

<b>Formulary Drug</b>	<b>Substitute For</b>
Cefazolin	Cefadryl, Cephalothin, other first generation cephalosporins
Nafcillin	Methacillin,, Oxacillin, other anti-staph penicillins
Cefoxitin	Cefotetan, other cephamycins
Cipro 250 mg PO twice daily	Cipro XR 500 mg PO once daily
Cipro 500 mg PO twice daily	Cipro XR 1000 mg PO once daily

**TABLE 13: Beta-Blocker Substitutions**

<b>Equivalent Carvedilol Dose</b>	<b>Carvedilol CR Dose</b>
3.125 mg PO twice daily	10 mg PO once daily
6.25 mg PO twice daily	20 mg PO once daily
12.5 mg PO twice daily	40 mg PO once daily
25 mg PO twice daily	80 mg PO once daily

**TABLE 14: Inhaled beta-adrenergic agents**

<b>Formulary Drug: Albuterol Sulfate</b>	<b>Substitute For: Xopenex (levalbuterol)</b>
2.5 mg solution 4 times daily	0.31 mg solution 3 times daily
2.5 mg solution 4 times daily	0.63 mg solution 3 times daily
2.5 mg solution 4 times daily	1.25 mg solution 3 times daily
90 mcg/inhalation 1 inhalation 4 times daily	45 mcg/inhalation 1 inhalation 3 times daily

**TABLE 15: Inhaled Corticosteroid Substitutions**

<b>Formulary Drug</b>	<b>Substitute For</b>
<p><b>Fluticasone (Flovent Diskus®) 50 mcg twice daily</b></p> <p><b>OR</b></p> <p><b>Beclomethasone (Qvar HFA®) 40 mcg (1 inhalation) twice daily</b></p>	<p>Fluticasone propionate (Flovent HFA®) 44 mcg twice daily</p>
<p><b>Fluticasone (Flovent Diskus®) 100 mcg twice daily</b></p> <p><b>OR</b></p> <p><b>Beclomethasone (Qvar HFA®) 40 mcg (2 inhalations) twice daily</b></p>	<p>Fluticasone propionate (Flovent HFA®) 110 mcg twice daily</p> <p>Fluticasone furoate (Arnuity Ellipta®) 100 mcg once daily</p> <p>Mometasone (Asmanex Twisthaler®) 110 mcg twice daily</p> <p>Mometasone (Asmanex HFA®) 100 mcg twice daily</p> <p>Ciclesonide (Alvesco®) 80 mcg twice daily</p> <p>Flunisolide (Aerospan®) 80 mcg twice daily</p> <p>Budesonide (Pulmicort Flexhaler®) 90 mcg twice daily</p>
<p><b>Fluticasone (Flovent Diskus®) 250 mcg twice daily</b></p> <p><b>OR</b></p> <p><b>Beclomethasone (Qvar HFA®) 80 mcg (2 inhalations) twice daily</b></p>	<p>Fluticasone propionate (Flovent HFA®) 220 mcg twice daily</p> <p>Fluticasone furoate (Arnuity Ellipta®) 200 mcg once daily</p> <p>Mometasone (Asmanex Twisthaler®) 220 mcg twice daily</p> <p>Mometasone (Asmanex HFA®) 200 mcg twice daily</p> <p>Ciclesonide (Alvesco®) 160 mcg twice daily</p> <p>Budesonide (Pulmicort Flexhaler®) 180 mcg twice daily</p>

**TABLE 16: Artificial Tears**

<b>Formulary Product</b>	<b>Non-Formulary Product</b>
<b>Mild dry eye</b>	<b>Mild dry eye</b>
Polyvinyl alcohol 1.4% [LiquiTears]	Polyvinyl alcohol 1.4% [Akwa Tears]
	Polyvinyl alcohol 1.4% [Tears Again]
	Polyvinyl alcohol 1.4% - povidone 0.6% [Refresh Classic]
	Polyvinyl alcohol 1.4% - polyethylene glycol 400 1% [Hypotears]
	Polyvinyl alcohol 0.5% - povidone 0.6% [Murine Tears Dry Eyes]
<b>Moderate to Severe Dry Eye</b>	<b>Moderate to Severe Dry Eye</b>
Carboxymethylcellulose 0.5% [Lubricating Plus]	Carboxymethylcellulose 0.5% [Refresh Optive]
	Carboxymethylcellulose 0.5% [Refresh Plus]
	Carboxymethylcellulose 1% [Refresh Celluvisc]
	Carboxymethylcellulose 0.25% [TheraTears]
	Hydroxypropyl methylcellulose 0.3% [GenTeal]
	Hydroxypropyl methylcellulose 0.2% [GenTeal Mild]
	Hydroxypropyl methylcellulose 0.2% - polyethylene glycol 400 [Visine Tears]
	Hydroxypropyl methylcellulose 0.3% - dextran 70 0.1% [Bion Tears]
	Hydroxypropyl methylcellulose 0.3% - dextran 70 0.1% [Tears Naturale]
	Hydroxypropyl methylcellulose 0.3% - dextran 70 0.1% [Tears Renewed]
	Hydroxypropyl methylcellulose 0.3% - dextran 70 0.1% - glycerin 0.2% [Tears Natural Forte]
	Polyethylene glycol 400 0.4% - propylene glycol 0.3% [Systane, Systane Ultra]
	Propylene glycol 0.6% - glycerin 0.6% [Soothe]
	Povidone 1.25% [Soothe Hydration]
	Hypromellose 0.5% [Isopto Tears]

**TABLE 17: Transdermal Testosterone Products**

Topical Testosterone Dose Conversion Table						
Brand Name Medication Ordered	Dosage Form	Dose	Frequency	Formulary Medication	Equivalent Dose	Frequency
Androgel 1%	Gel	25 mg	Daily	Androderm	2 mg	Daily
Androgel 1%	Gel	50 mg	Daily	Androderm	4 mg	Daily
Androgel 1%	Gel	75 mg	Daily	Androderm	4 mg	Daily
Androgel 1%	Gel	100 mg	Daily	Androderm	6 mg	Daily
Androgel 1.62%	Gel	20.25 mg	Daily	Androderm	2 mg	Daily
Androgel 1.62%	Gel	40.5 mg	Daily	Androderm	4 mg	Daily
Androgel 1.62%	Gel	60.75 mg	Daily	Androderm	4 mg	Daily
Androgel 1.62%	Gel	81mg	Daily	Androderm	6 mg	Daily
Axiron	Solution	30 mg	Daily	Androderm	2 mg	Daily
Axiron	Solution	60 mg	Daily	Androderm	4 mg	Daily
Axiron	Solution	90 mg	Daily	Androderm	4 mg	Daily
Axiron	Solution	120 mg	Daily	Androderm	6 mg	Daily
Fortesta	Gel	40 mg	Daily	Androderm	4 mg	Daily
Fortesta	Gel	50 mg	Daily	Androderm	4 mg	Daily
Fortesta	Gel	60 mg	Daily	Androderm	4 mg	Daily
Fortesta	Gel	70 mg	Daily	Androderm	6 mg	Daily
Testim	Gel	50 mg	Daily	Androderm	4 mg	Daily
Testim	Gel	100 mg	Daily	Androderm	6 mg	Daily
Vogelxo	Gel	50 mg	Daily	Androderm	4 mg	Daily
Vogelxo	Gel	100 mg	Daily	Androderm	6 mg	Daily