

Utah Therapeutically Similar Drug List

Pharmacy Practice Act -58-17b-605(9)(a)

Pharmacy Practice Act Rule-R156-17b-612c

Insulin:

Humulin Insulins		Novolin Insulins	
Humulin R 100 units/mL		Novolin R 100 units/mL	
Humulin N 100 units/mL		Novolin N 100 units/mL	
Humulin 70/30 100 units/mL		Novolin 70/30 100 units/mL	
Long-Acting Insulins	Rapid-Acting Insulins	Insulin Mixes	
Lantus 100 units/mL (insulin glargine)	Apidra 100 units/mL (insulin glulisine)	Humalog Mix 75/25 100 units/mL	
Basaglar 100 units/mL (insulin glargine)	Humalog 100 units/mL and 200 units/mL (insulin lispro)	NovoLog Mix 70/30 100 units/mL	
Semglee 100 units/mL (insulin glargine)	Admelog 100 units/mL (insulin lispro)	—	
Rezvoglar 100 units/mL (insulin glargine)	Lyumjev 100 units/mL and 200 units/mL (insulin lispro-aabc)	—	
Levemir 100 units/mL (insulin detemir)	NovoLog 100 units/mL (insulin aspart)	—	
Tresiba 100 units/mL and 200 units/mL (insulin degludec)	Fiasp 100 units/mL (insulin aspart)	—	
Toujeo 300 units/mL (insulin glargine)	—	—	

Insulin clinical issues:

1. When interchanging insulin brands, the pharmacist will counsel the patient to monitor glucose and notify the provider of any change in glucose control. Products and doses may be interchanged unit for unit in most cases.
2. Use 80% of the dose when switching from Toujeo to another long-acting insulin.
3. Lantus, Basaglar, Rezvoglar, and Semglee can be interchanged using the same dosage regimen.
4. Long-acting insulins may only be interchanged with Levemir per this protocol during therapy **initiation** with long-acting insulin.
5. Lyumjev and Fiasp have a more rapid onset of action than other rapid-acting insulins. Recommended dosing is at the start of a meal or up to 20 minutes after starting a meal, not prior to a meal. Lyumjev is not labeled for pump use.
6. Insulin vials and pens may be interchanged as long as drug concentration remains the same, the patient is aware of the change and is counseled on how to administer the correct dose.

References:

1. Lexi-Drugs [database online]. Hudson, OH. Lexi-Comp, 2023. Accessed April 2023.
2. Drugdex [database online]. Greenwood Village, CO: Truven Health Analytics, 2023.

Asthma / COPD:

Therapeutic Interchange for Albuterol Inhalers¹

Medication	Usual Adult Dose	FDA-Approved Indications
Albuterol (Proventil HFA, Ventolin HFA, ProAir HFA, ProAir RespiClick, ProAir Digihaler, and generics)	1 to 3 puffs every 4 to 12 hours	Asthma, Exercise-induced bronchospasm
Levalbuterol tartrate (Xopenex HFA and generics)	1 to 3 puffs every 4 to 12 hours	Asthma

Therapeutic Interchange Doses for Inhaled Long-Acting Beta Agonists¹

Medication	Usual Adult Dose	FDA-Approved Indications ^b
Indacaterol (Arcapta Neohaler) 75 mcg per capsule/inhalation	1 capsule inhaled once daily	COPD
Olodaterol (Striverdi Respimat) 2.5 mcg per inhalation	2 inhalations once daily	COPD
Salmeterol (Serevent Diskus) 50 mcg per inhalation	1 inhalation every 12 hours	Asthma, COPD, Exercise-induced bronchospasm

^b Use of a long-acting beta agonist for the treatment of asthma without a concomitant ICS is contraindicated.

Therapeutic Interchange Doses for Nebulized Long-Acting Beta Agonists¹

Medication	Usual Adult Dose	FDA-Approved Indications
Arformoterol (Brovana) 15 mcg per vial for nebulization	1 vial nebulized twice daily	COPD
Formoterol (Perforomist) 20 mcg per vial for nebulization	1 vial nebulized twice daily	COPD

Therapeutic Interchange Adult Doses for Inhaled Steroids^{1,3-5}

Medication	Low total daily dose	Medium total daily dose	High total daily dose
Beclomethasone dipropionate HFA (QVAR RediHaler) 40 mcg/inhalation 80 mcg/inhalation	80 to 240 mcg 1-3 inhalations twice daily 1 inhalation twice daily	240 to 480 mcg 3-6 inhalations twice daily 2-3 inhalations twice daily	> 480 mcg > 6 inhalations twice daily > 3 inhalations twice daily
Budesonide (Pulmicort Flexhaler) 90 mcg/inhalation 180 mcg/inhalation	180 to 400 mcg 1-2 inhalations twice daily 1 inhalation twice daily	>400 to 800 mcg 3-4 inhalations twice daily 2 inhalations twice daily	> 800 mcg > 5 inhalations twice daily > 3 inhalations twice daily
Ciclesonide (Alvesco) 80 mcg/inhalation 160 mcg/inhalation	80 to 160 mcg 1 inhalation twice daily Use lower strength	160 to 320 mcg 1-2 inhalations twice daily 1 inhalations twice daily	> 320 mcg > 2 inhalations twice daily > 1 inhalations twice daily
Fluticasone propionate 44 mcg/inhalation 110 mcg/inhalation 220 mcg/inhalation	88 to 264 mcg 1-3 inhalations twice daily 1 inhalations twice daily Use lower strength	264 to 440 mcg 3-5 inhalations twice daily 2 inhalations twice daily 1 inhalation twice daily	> 440 mcg > 5 inhalations twice daily > 2 inhalations twice daily > 1 inhalation twice daily
Fluticasone propionate 50 mcg/inhalation 100 mcg/inhalation 250 mcg/inhalation	100 to 250 mcg 1-2 inhalations twice daily 1 inhalation twice daily Use lower strength	250 to 500 mcg 3-5 inhalations twice daily 2 inhalations twice daily 1 inhalation twice daily	> 500 mcg > 5 inhalations twice daily > 2 inhalations twice daily > 1 inhalation twice daily
Fluticasone propionate (ArmonAir RespiClick) MDPI 55 mcg, 113 mcg, 232 mcg/inhalation	110 mcg 1 inhalation twice daily	226 mcg 1 inhalation twice daily	464 mcg 1 inhalation twice daily
Fluticasone furoate (Arnuity Ellipta) 50, 100, 200 mcg/inhalation	100 mcg 1 inhalation once daily	N/A	200 mcg 1 inhalation once daily
Mometasone (Asmanex Twisthaler) ^c 220 mcg/inhalation Also available in 110 mcg/inhalation, which is labeled for	220 mcg 1 inhalation (220 mcg) once daily in the evening	220 to 440 mcg 220 mcg dose = 1 inhalation daily in the evening 440 mcg/day either as 1 inhalation twice daily or 2 inhalations once daily in the evening	> 440 mcg For the 880 mcg/day dose, use 2 inhalations twice daily

children			
Mometasone furoate (Asmanex HFA) ^c 100 mcg/actuation 200 mcg/actuation	200 mcg 1 inhalation (100 mcg) twice daily Note: The product labeling starting dose is 2 puffs twice daily, which is higher than the equivalent dose of 200 mcg/day as recommended from clinical guidelines.	200 to 400 mcg For 200 mcg dose, use 100 mcg/actuation at 1 puff twice daily. For 400 mcg dose, use 100 mcg/actuation at 2 puffs twice daily.	> 400 mcg For 400 mcg dose, use 100 mcg/actuation at 2 puffs twice daily. For 800 mcg dose, use 200 mcg/actuation at 2 puffs twice daily

^cSee GINA 2022 guidelines for information on equivalence

Therapeutic Interchange Doses for Inhaled Combination Steroids / Long-Acting Beta Agonists^{1,3-5}

Medication	Dose	Interval	FDA-approved Indications
Low-dose Daily Corticosteroid Equivalents			
Fluticasone furoate/vilanterol (Breo Ellipta) DPI	100/25 mcg	1 inhalation daily	Asthma, COPD
Budesonide/formoterol (Symbicort Aerosol) HFA MDI	80/4.5 mcg	2 inhalations twice daily	Asthma, COPD
Fluticasone propionate/salmeterol (Advair HFA) HFA MDI	45/21 mcg	2 inhalations twice daily	Asthma
Fluticasone propionate/salmeterol (Advair Diskus or authorized generic, Wixela Inhub) DPI	100/50 mcg	1 inhalation twice daily	Asthma, COPD
Fluticasone propionate/salmeterol (AirDuo RespiClick or Digihaler, or authorized generic) MDPI	55/14 mcg	1 inhalation twice daily	Asthma
Mometasone/formoterol (Dulera Aerosol) HFA MDI	100/5 mcg	1 inhalation twice daily ^d	Asthma
Medium-dose Daily Corticosteroid Equivalents			
Budesonide/formoterol (Symbicort Aerosol) HFA MDI	160/4.5 mcg	2 inhalations twice daily	Asthma, COPD
Fluticasone propionate/salmeterol (Advair HFA) HFA MDI	115/21 mcg	2 inhalations twice daily	Asthma
Fluticasone propionate/salmeterol (Advair Diskus or authorized generic, Wixela Inhub) DPI	250/50 mcg	1 inhalation twice daily	Asthma, COPD
Fluticasone propionate/salmeterol (AirDuo RespiClick or Digihaler, or authorized generic) MDPI	113/14	1 inhalation twice daily	Asthma
Mometasone/formoterol (Dulera Aerosol) HFA MDI	100/5 mcg	2 inhalations twice daily	Asthma
High-dose Daily Corticosteroid Equivalents			
Fluticasone furoate/vilanterol (Breo Ellipta) DPI	200/25 mcg	1 inhalation daily	Asthma
Fluticasone propionate/salmeterol (Advair HFA) HFA MDI	230/21 mcg	2 inhalations twice daily	Asthma, COPD
Fluticasone propionate/salmeterol (Advair Diskus or authorized generic, Wixela Inhub) DPI	500/50 mcg	1 inhalation twice daily	Asthma
Fluticasone propionate/salmeterol (AirDuo RespiClick or Digihaler, or authorized generic) MDPI	232/14 mcg	1 inhalation twice daily	Asthma
Mometasone/formoterol (Dulera Aerosol) HFA MDI	200/5 mcg	2 inhalations twice daily	Asthma

^d Mometasone/formoterol was not studied at this low-dose equivalent

Therapeutic Interchange Doses for Inhaled Long-Acting Muscarinic Antagonists / Long-Acting Beta Agonists^{1,3}

Medication	Usual Adult Dose	FDA-Approved Indications
Acclidinium bromide/formoterol fumarate (Duaklir Pressair) 400/12 mcg per inhalation	1 inhalation twice daily	COPD
Glycopyrrolate/formoterol (Bevespi Aerosphere) 9/4.8 mcg per inhalation	2 inhalations twice daily	COPD
Glycopyrrolate/indacaterol (Utibron Neohaler) 15.6/27.5 mcg per capsule/inhalation	1 capsule inhaled twice daily	COPD
Tiotropium/olodaterol (Stiolto Respimat) 2.5/2.5 mcg per inhalation	2 inhalations once daily	COPD
Umeclidinium/vilanterol (Anoro Ellipta) 62.5/25 mcg per inhalation	1 inhalation once daily	COPD

Therapeutic Interchange Doses for Inhaled Long-Acting Muscarinic Antagonists¹

Medication	Usual Adult Dose	FDA-Approved Indications
Acclidinium (Tudorza Pressair) 400 mcg per inhalation	1 inhalation twice daily	COPD
Glycopyrrolate (Seebri Neohaler) 15.6 mcg per capsule/inhalation	1 capsule inhaled twice daily	COPD
Tiotropium (Spiriva HandiHaler) 18 mcg per capsule	1 capsule (2 inhalations) once daily	COPD
Tiotropium (Spiriva Respimat) 1.25 mcg ^e , 2.5 mcg ^f per inhalation	2 inhalations once daily	Asthma, COPD
Umeclidinium (Incruse Ellipta) 62.5 mcg per inhalation	1 inhalation once daily	COPD

^e Approved asthma dosing: 1.25 mcg/inhalation, 2 inhalations once daily

^f Approved COPD dosing: 2.5 mcg/inhalation, 2 inhalations once daily

Therapeutic Interchange Doses for Nebulized Long-Acting Muscarinic Antagonists¹

Medication	Usual Adult Dose	FDA-Approved Indications
Glycopyrrolate (Lonhala Magnair) 25 mcg per vial for nebulization	1 vial nebulized twice daily	COPD
Revefenacin (Yuperli) 175 mcg per vial for nebulization	1 vial nebulized once daily	COPD

Allergy:

Therapeutic Interchange Doses for Nasal Antihistamines¹

Medication	Usual Adult Dose
Azelastine (Astelin 137 mcg/spray, Astepro 0.15%)	1 to 2 sprays q nostril twice daily
Olopatadine (Patanase) 0.6%	2 sprays q nostril twice daily

Therapeutic Interchange Doses for Nasal Steroids¹

Medication	Lower Dosage Equivalents (Adult)	Lower Dosage Equivalents (Pediatric)
Beclomethasone 42 mcg (Beconase AQ 0.042%)	1 to 2 sprays q nostril twice daily	Age 6-12 years: 1 to 2 sprays q nostril twice daily
Budesonide 32 mcg (Rhinocort Aqua)	1 spray q nostril once daily	Age 6-11 years: 1 spray q nostril once daily
Ciclesonide 50 mcg (Omnaris)	2 sprays q nostril once daily	Age 6-12 years: 2 sprays q nostril once daily
Flunisolide Soln 25 mcg (Nasalide/Nasarel Soln 0.025%)	2 sprays q nostril twice daily	Age 6-14 years: 2 sprays q nostril twice daily
Fluticasone 50 mcg (Flonase and generic)	2 sprays q nostril once daily	Age 4-12 years: 1 spray q nostril once daily
Fluticasone 27.5 mcg (Veramyst)	2 sprays q nostril once daily	Age 2-11 years: 1 to 2 sprays q nostril once daily
Mometasone 50 mcg (Nasonex)	2 sprays q nostril once daily	Age 2-11 years: 1 spray q nostril once daily
Triamcinolone 55 mcg (Nasacort AQ and generic)	2 sprays q nostril once daily	Age 6-11 years: 1 spray q nostril once daily

Therapeutic Interchange Doses for Non-Sedating Antihistamines¹

Medication	Cetirizine (Zyrtec)	Desloratadine (Clarinet)	Fexofenadine (Allegra)	Levocetirizine (Xyzal)	Loratadine (Claritin, Alavert)
Usual Adult Dose	10 mg daily OTC	5 mg daily	60 mg twice daily, or 180 mg daily (extended-release) OTC	5 mg daily	10 mg daily OTC

Therapeutic Interchange Doses for Combination Non-Sedating Antihistamines / Pseudoephedrine¹

Medication	Usual Adult Dose
Cetirizine 5 mg/ pseudoephedrine 120 mg (ZyrtecD and generic OTC)	1 tab twice daily
Desloratadine 2.5 mg/ pseudoephedrine 120 mg (Clarinet D 12 hour)	1 tab twice daily
Desloratadine 5 mg/ pseudoephedrine 240 mg (Clarinet D 24 hour)	1 tab once daily
Fexofenadine 60 mg/ pseudoephedrine 120 mg (Allegra D 12 hour and generic OTC)	1 tab twice daily
Fexofenadine 180 mg/ pseudoephedrine 240 mg (Allegra D 24 hour and generic OTC)	1 tab once daily
Loratadine 5 mg/ pseudoephedrine 120 mg (Claritin D 12 hour, Alavert Allergy and Sinus, and generic OTC)	1 tab twice daily
Loratadine 10 mg/ pseudoephedrine 240 mg (Claritin D 24 hour and generic OTC)	1 tab once daily

Therapeutic Interchange Doses for Epinephrine Autoinjectors^{1,a}

EpiPen 0.3 mg/0.3 mL	Twinject 0.3 mg/0.3 mL	Auvi-Q 0.3 mg/0.3 mL
EpiPen Jr. 0.15 mg/0.3 mL	Twinject 0.15 mg/0.15 mL	Auvi-Q 0.15 mg/0.15 mL

^a EpiPen, Twinject, Auvi-Q, and generic injectable epinephrine may all be interchanged with each other .

Diabetic Testing Supplies:

Therapeutic Interchange for Diabetes Testing Supplies

Common Brand Glucometers and Test Strips

Accu-Chek (Active, Aviva, Compact Plus)
Bayer/Ascensia Contour (Breeze 2, Next)
FreeStyle (Freedom Lite, Lite)
OneTouch (Ultra 2, UltraMini, UltraSmart, VerioIQ)
Precision Xtra
TRUE (Balance, Result, Track)
WaveSense (Keynote, Presto)

