

**INHALED CONTROLLER MEDICATIONS**

Medication Name	Medication Class	FDA Age Recommendation	Doses-Strengths	Comments
<b>Aerospan (Flunisolide) HFA</b>	Inhaled Corticosteroid (ICS)	6 and older	80 mcg (60 or 120 doses)	Shake 5 sec, 2 primes to start, reprime 14 days without use. Twice daily dosing (80 mcg FDA approved 6 to 11 yrs/ 160 mcg FDA approved 12 yrs of age and older). Has built-in spacer- do not use an external spacing device.
<b>Alvesco (ciclesonide) HFA</b>	Inhaled Corticosteroid (ICS)	12 and older	80 mcg (60 doses), 160 mcg (60 or 120 doses)	No shaking required, 3 primes to start, reprime 10 days without use. Twice daily dosing. Dose indicator in increments of 10.
<b>Arnuity (fluticasone furoate) Ellipta DPI</b>	Inhaled Corticosteroid (ICS)	5 to 11	50mcg (30 doses)	Once daily dosing. Has dose counter.
<b>Arnuity (fluticasone furoate) Ellipta DPI</b>	Inhaled Corticosteroid (ICS)	12 and older	100 mcg or 200 mcg (30 doses)	Once daily dosing. Has dose counter.
<b>Asmanex (mometasone furoate) Twisthaler DPI**</b>	Inhaled Corticosteroid (ICS)	4 and older	110 mcg, 220 mcg, 440 mcg (14, 30, 60, or 120 doses)	Breath actuated device. Once daily dosing in PM (110 mcg FDA approved for 4-11 yrs). Has dose counter.
<b>Asmanex (mometasone furoate) HFA</b>	Inhaled Corticosteroid (ICS)	12 and older	100 mcg, 200 mcg (120 doses)	Shake 5 sec, 4 primes to start, reprime 5 days without use. Two inhalations twice daily dosing. Has dose counter.
<b>Flovent (fluticasone propionate) Diskus DPI*</b>	Inhaled Corticosteroid (ICS)	4 and older	50 mcg, 100 mcg, 250 mcg (60 doses)	Twice daily dosing. Has dose counter.
<b>Flovent (fluticasone propionate) HFA</b>	Inhaled Corticosteroid (ICS)	4 and older	44 mcg, 110 mcg, 220 mcg (120 doses)	Shake 5 sec, 4 primes to start, 1 prime if dropped or 7 days without use. Twice daily dosing (44-88 mcg BID FDA approved for 4-11 yrs). Has dose counter.
<b>Pulmicort (budesonide) Flexhaler* DPI</b>	Inhaled Corticosteroid (ICS)	6 and older	90 mcg (60 doses) 180 mcg (120 doses)	Twist to prime in upright position, two primes to start. Twice daily dosing. Has dose counter. Pregnancy category B.
<b>Pulmicort (budesonide) Respules</b>	Inhaled Corticosteroid (ICS)	12 months to 8 years of age	0.25 mg/2 mL, 0.5 mg/2 mL 1.0 mg/2 mL	Once or twice daily dosing. Deliver with Pari-LC-Jet Plus Nebulizer closed system mask if < 3 yrs, mask with holes or mouth piece if ≥ 3 yrs.
<b>QVAR (beclomethasone dipropionate) HFA</b>	Inhaled Corticosteroid (ICS)	5 and older	40 mcg or 80 mcg (120 doses)	No shaking required, 2 primes to start, reprime 10 days without use. Has dose counter.
<b>QVAR (beclomethasone dipropionate) RediHaler HFA</b>	Inhaled Corticosteroid (ICS)	4 and older	40 mcg and 80 mcg (120 doses)	Do not shake the inhaler before using it; no priming required; twice daily dosing (4 to 11 years of age: 40 or 80 mcg twice daily, 12 years of age and older: 40 mcg, 80 mcg, 160 mcg, or 320 mcg twice daily). Has dose counter. Do not use a spacer or volume holding chamber.
<b>Advair (fluticasone propionate and salmeterol) Diskus DPI*</b>	ICS and long-acting beta <sub>2</sub> -agonist	4 and older	100/50 mcg, 250/50 mcg, 500/50 mcg (60 doses)	Twice daily dosing (100/50 FDA approved for 4-11 yrs) Has dose counter. Don't tip once loaded.
<b>Advair (fluticasone propionate and salmeterol) HFA</b>	ICS and long-acting beta <sub>2</sub> -agonist	12 and older	45/21 mcg, 115/21 mcg, 230/21 mcg (60 or 120 doses)	Shake 5 sec, 4 primes to start, 2 primes if dropped or 4 weeks without use. Twice daily dosing. Has dose counter.
<b>AirDuo (fluticasone propionate and salmeterol) RespiClick DPI</b>	ICS and long-acting beta <sub>2</sub> -agonist	Asthma 12 and older	55/14 mcg, 113/14mcg 232/14 mcg (60 doses)	No shaking required; no priming required. Dose counter. Twice daily dosing.
<b>Breo (fluticasone furoate and vilanterol) Ellipta DPI*</b>	ICS and long-acting beta <sub>2</sub> -agonist	Asthma 18 and older	100/25 mcg, 200/25 mcg (30 doses)	Once daily dosing. Has dose counter.
<b>Breo (fluticasone furoate and vilanterol) Ellipta DPI*</b>	ICS and long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	100 mcg/25 mcg (30 doses)	Once daily dosing. Has dose counter.
<b>Dulera (mometasone furoate and formoterol fumarate dihydrate) HFA</b>	ICS and long-acting beta <sub>2</sub> -agonist	12 and older	100/5 mcg or 200/5 mcg (120 doses)	Shake 5 sec, 4 primes to start, reprime 5 days without use. Twice daily dosing. Has dose counter.
<b>Symbicort (budesonide and formoterol fumarate dihydrate) HFA</b>	ICS and long-acting beta <sub>2</sub> -agonist	6 and older	80/4.5 mcg, 160/4.5 mcg (120 doses)	Shake 5 sec, 2 primes to start, reprime 7 days without use. Twice daily dosing. Age 6-11 80/4.5mcg. Age 12+ 160/4.5mcg. Has dose counter.
<b>Arcapta (indacaterol) Neohaler DPI</b>	Long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	75 mcg (30 doses)	Once daily dosing.
<b>Brovana (arformoterol tartrate) Nebulized</b>	Long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	15 mcg (30 or 60 doses)	Twice daily dosing.
<b>Perforomist (formoterol fumarate) Nebulized</b>	Long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	20 mcg/2 mL	Twice daily dosing.
<b>Serevent (salmeterol) Diskus DPI*</b>	Long-acting beta <sub>2</sub> -agonist	4 and older	50 mcg (60 doses)	Twice daily dosing. Has dose counter.
<b>Striverdi (olodaterol) Resipmat SMI</b>	Long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	5 mcg (60 doses)	No shaking required, discharge until an aerosol cloud is visible then 3 primes to start and 1 discharge after 3 days without use, reprime 21 days without use. 2 inhalations once daily dosing. Has a dose indicator (when indicator in red zone- only 7 days left) When empty, unit will lock. Recommended to be used without spacer/holding chamber.

DPI: dry powder inhaler  
HFA: hydrofluoroalkane  
SMI: soft mist inhaler

\*DPI: Avoid moisture and humidity/ does not require priming  
\*HFA: Use spacer with HFA except when not indicated  
\*MDI/DPI may have institutional size dosing

\*Contains lactose  
\*\*Please consider development stage when prescribing for pediatric patients

Source: medication package insert  
This document is intended to comprise most frequently used medications in the MaineHealth system.

**INHALED CONTROLLER MEDICATIONS**

Medication Name	Medication Class	FDA Age Recommendation	Doses-Strengths	Comments
<b>Anoro (umeclidinium and vilanterol) Ellipta DPI*</b>	Long-acting anticholinergic and long acting beta <sub>2</sub> -agonist	COPD diagnosis only	62.5 mcg/25 mcg (30 doses)	Once daily dosing. Has dose counter. Avoid use with Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.
<b>Bevespi (glycopyrrolate and formoterol fumarate) HFA</b>	Long-acting anticholinergic and long acting beta <sub>2</sub> -agonist	COPD diagnosis only	9 mcg/4.8 mcg (120 doses)	Shake 5 sec, 4 primes to start, 2 reprime 7 days without use. 2 inhalations twice daily. Dose indicator. Avoid use with Anoro, Atrovent, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Telegy, Tudorza or Utibron.
<b>Stiolto (tiotropium bromide and olodaterol) Respimat SMI*</b>	Long-acting anticholinergic and long acting beta <sub>2</sub> -agonist	COPD diagnosis only	2.5 mcg/2.5 mcg (60 doses)	No shaking required, discharge until an aerosol cloud is visible then 3 primes to start and 1 discharge after 3 days without use, reprime 21 days without use. 2 inhalations once daily dosing. Has a dose indicator (when indicator in red zone- only 7 days left) When empty, unit will lock. Recommended to be used without spacer/ holding chamber. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Trelegy, Tudorza or Utibron.
<b>Utibron (indacaterol and glycopyrrolate) Neohaler DPI*</b>	Long-acting anticholinergic and long acting beta <sub>2</sub> -agonist	COPD diagnosis only	27.5mcg/15.6mcg (120 doses)	Twice daily dosing. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Trelegy or Tudorza.
<b>Incruse (umeclidinium) Ellipta DPI*</b>	Long-acting anticholinergic	COPD diagnosis only	62.5 mcg (30 doses)	Once daily dosing. Has dose counter. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Lonhala, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.
<b>Lonhala (glycopyrrolate) Nebulized</b>	Long-acting anticholinergic	COPD diagnosis only	25 mcg per unit dose	Twice daily dosing. Deliver with Magnair Nebulizer System. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.
<b>Spiriva (tiotropium bromide) Handihaler DPI*</b>	Long-acting anticholinergic	COPD diagnosis only	18 mcg (30 or 90 doses)	Once daily dosing. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Stiolto, Trelegy, Tudorza or Utibron.
<b>Spiriva (tiotropium bromide) Respimat SMI*</b>	Long-acting anticholinergic	Asthma 6 years and older	1.25 mcg (60 doses)	No shaking required, discharge until an aerosol cloud is visible then 3 primes to start and 1 discharge after 3 days without use, reprime 21 days without use. 2 inhalations once daily dosing. Has a dose indicator (when indicator in red zone- only 7 days left) When empty, unit will lock. Recommended to be used without spacer/ holding chamber. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Stiolto, Trelegy, Tudorza or Utibron.
<b>Spiriva (tiotropium bromide) Respimat SMI*</b>	Long-acting anticholinergic	COPD diagnosis only	2.5 mcg (60 doses)	No shaking required, discharge until an aerosol cloud is visible then 3 primes to start and 1 discharge after 3 days without use, reprime 21 days without use. 2 inhalations once daily dosing. Has a dose indicator (when indicator in red zone- only 7 days left) When empty, unit will lock. Recommended to be used without spacer/ holding chamber. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Stiolto, Trelegy, Tudorza or Utibron.
<b>Tudorza (aclidinium bromide) Pressair DPI*</b>	Long-acting anticholinergic	COPD diagnosis only	400 mcg (60 doses)	Twice daily dosing, Has dose counter. Don't tip once loaded. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Trelegy or Utibron.
<b>Trelegy (fluticasone furoate, umeclidinium, and vilanterol) Ellipta DPI*</b>	Inhaled corticosteroid(ICS), long-acting anticholinergic, and long-acting beta <sub>2</sub> -agonist	COPD diagnosis only	100 mcg/62.5 mcg/25 mcg (30 doses)	Once daily dosing. Has dose counter. Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Tudorza or Utibron.

**INHALED QUICK RELIEF MEDICATIONS**

Medication Name	Medication Class	FDA Age Recommendation	Doses-Strengths	Comments
<b>AccuNeb (albuterol for nebulization)</b>	Short-acting beta <sub>2</sub> -agonist	2-12 years of age	0.63 mg albuterol/3 mL 1.25 mg albuterol/3 mL	Pre-mixed unit dose (3 mL).
<b>Albuterol Nebulized 0.083%</b>	Short-acting beta <sub>2</sub> -agonist	2 and older	2.5 mg/3 mL	Pre-mixed unit dose (3 mL).
<b>Albuterol Nebulized 0.5%</b>	Short-acting beta <sub>2</sub> -agonist	2 and older	0.25 mL-0.5 mL added to 3 mL saline solution	Supplied as 20 mL dropper bottle.
<b>ProAir (albuterol sulfate) HFA</b>	Short-acting beta <sub>2</sub> -agonist	4 and older	90 mcg (200 doses)	Shake 5 sec, 3 primes to start, reprime 14 days without use.
<b>ProAir (albuterol sulfate) RespiClick DPI*</b>	Short-acting beta <sub>2</sub> -agonist	4 and older	90 mcg (200 doses)	No shaking required; no priming required. Dose counter.
<b>Proventil (albuterol sulfate) HFA</b>	Short-acting beta <sub>2</sub> -agonist	4 and older	90 mcg (200 doses)	Shake 5 sec, 4 primes to start, reprime 14 days without use.
<b>Ventolin (albuterol sulfate) HFA</b>	Short-acting beta <sub>2</sub> -agonist	4 and older	90 mcg (200 doses)	Shake 5 sec, 4 primes to start, reprime if dropped or 14 days without use. Has dose counter.
<b>Xopenex (levalbuterol) HFA</b>	Short-acting beta <sub>2</sub> -agonist	4 and older	45 mcg (200 doses)	Shake 5 sec, 4 primes to start, reprime 3 days without use.
<b>Xopenex (levalbuterol) Nebulized</b>	Short-acting beta <sub>2</sub> -agonist	6 and older	0.31mg/3 mL, 0.63 mg/3 mL, 1.25 mg/3 mL (12 doses per foil pouch)	Pre-mixed unit dose (3 mL) (0.31mg FDA approved 6-11 yrs) (0.63mg FDA approved 12 yrs and older) (1.25mg FDA approved for patients 12 yrs and older with more severe asthma or patients who do not respond adequately to a dose of 0.63 mg of Xopenex inhalation).
<b>Atrovent (ipratropium bromide) HFA</b>	Short-acting anticholinergic	COPD diagnosis only	17 mcg (200 doses)	No shaking required, 2 primes to start, reprime 3 days without use. Total number of inhalations should not exceed 12 in 24 hours. Avoid use with Anoro, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.
<b>Atrovent (ipratropium bromide) Nebulized 0.02%</b>	Short-acting anticholinergic	No dose indication for children	0.5 mg/2.5 mL	Pre-mixed unit dose (3 mL) Avoid use with Anoro, Bevespi, Combivent Respimat, Duoneb, Incruse, Lonhala, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.
<b>Combivent (ipratropium bromide and albuterol) Respimat SMI</b>	Short-acting anticholinergic and short-acting beta <sub>2</sub> -agonist	No dose indication for children	20 mcg ipratropium and 100 mcg albuterol (120 doses)	No shaking required, discharge until an aerosol cloud is visible then 3 primes to start, 1 discharge 3 days without use, reprime after 21 days without use. Has dose indicator (when indicator in red zone- only 7 days left). When empty, unit will lock. Recommended to be used without spacer. Avoid use with Anoro, Atrovent, Bevespi, Duoneb, Incruse, Spiriva, Stiolto, Tudorza or Utibron.
<b>Duoneb (ipratropium bromide and albuterol) Nebulized</b>	Short-acting anticholinergic and short-acting beta <sub>2</sub> -agonist	No dose indication for children	2.5 mg albuterol and 0.5 mg ipratropium per unit dose	Pre-mixed unit dose (3 mL). Avoid use with Anoro, Atrovent, Bevespi, Combivent Respimat, Incruse, Lonhala, Spiriva, Stiolto, Trelegy, Tudorza or Utibron.