

RESPIRATORY MEDICATIONS FOR INHALATION AVAILABLE IN CANADA

Table 1: Dry Powder Inhalers – Availability and Dose Counter Features

Drug(s): Generic (Brand Name)	Dose per Inhalation; # of inhalations per device	Device	Dose Counter Features	Estimated Price (CAD)	Ontario Drug Benefit
Bronchodilators					
Short-acting beta2-agonist (SABA)					
Salbutamol (Ventolin Diskus)	200 mcg; 60 blisters	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.	\$25	No
Terbutaline (Bricanyl)	500 mcg; 100 doses	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. When the red mark reaches the bottom of the window, the device is empty.	\$22	No
Long-acting beta2-agonist (LABA) 12-hour acting					
Formoterol (Foradil)	12 mcg; 60 capsules	Aerolizer	No dose counter (capsule inserted into the device)	\$77	LU 132
Formoterol (Oxeze)	6 or 12 mcg; 60 does	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. When the red mark reaches the bottom of the window.	6 mcg: \$52 12 mcg: \$65	LU 132
Salmeterol (Serevent Diskus)	50 mcg; 60 blisters	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.	\$100	LU 132 LU 391
Long acting beta2-agonist (LABA) 24-hour acting					
Indacaterol (Onbrez)	75 mcg; 30 capsules	Breezhaler	No dose counter (capsule inserted into the device)	\$66	LU 443
Long-acting muscarinic antagonist (LAMA) (anticholinergic)					
Acclidinium bromide (Tudorza Genuair)	400 mcg; 60 actuations	Genuair	Dose counter counts down by 10 from 60 to zero. A red strip band appears in the dose counter window indicating time to obtain a new inhaler. When preparing the last dose, the actuation button will not return to its upper position.	\$74	Yes

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Glycopyrronium bromide (Seebri Breezhaler)	50 mcg; 30 capsules	Breezhaler	No dose counter (capsule inserted into the device)	\$74	Yes
Tiotropium bromide (Spiriva)	18 mcg; 30 capsules	Handihaler	No dose counter (capsule inserted into the device)	\$76	Yes
Umeclidinium bromide (Incruse Ellipta)	62.5 mcg; 30 blisters	Ellipta	Dose counter counts down by one. When there are 9 doses left, there is a red indicator on half of the dose counter. When empty, the dose counter reads 0. If you open the cover after this, the dose counter will change from half red to completely red.	\$71	Yes
Combination products (LAMA/LABA)					
Umeclidinium/vilanterol (Anoro Ellipta)	62.5/ 25 mcg; 30 blisters	Ellipta	Dose counter counts down by one. When there are 9 doses left, there is a red indicator on half of the dose counter. When empty, the dose counter reads 0. If you open the cover after this, the dose counter will change from half red to completely red.	\$115	LU 459
Aclidinium/formoterol (Duaklir Genuair)	400/12 mcg; 60 actuations	Genuair	Dose counter counts down by 10 from 60 to zero. A red strip band appears in the dose counter window indicating time to obtain a new inhaler. When preparing the last dose, the actuation button will not return to its upper position.	\$83	LU 459
Indacaterol/ glycopyrronium (Ultibro Breezhaler)	110/50 mcg; 6 or 30 capsules	Breezhaler	No dose counter (capsule inserted into the device).	6 capsules: \$31 3x10 capsules: \$102 5x6 capsules: \$106	LU 459
Inhaled corticosteroids (ICS)					
Budesonide (Pulmicort)	100, 200, or 400 mcg; 200 doses	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. Discard when the red mark reaches the bottom of the window.	100 mcg: \$52 200 mcg: \$93 400 mcg: \$130	Yes
Fluticasone furoate (Arnuity Ellipta [®])	100 or 200 mcg; 30 doses	Ellipta	Dose counter counts down by one. When there are 9 doses left, there is a red indicator on half of the dose counter. When empty, the dose counter reads 0. If you open the cover after this, the dose counter will change from half red to completely red.	100 mcg: \$62 200 mcg: \$193	Yes

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Fluticasone propionate (Flovent Diskus)	100, 250, or 500 mcg; <i>60 blisters</i>	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.	100 mcg: \$45 250 mcg: \$69 500 mcg: \$101	Yes
Fluticasone propionate (Aermony Respiclick)	55, 113, or 232 mcg; <i>60 actuations</i>	Respiclick	Dose counter counts down from 60 to 1 each time the mouthpiece is opened and closed. The last 20 numbers are in red. When the counter reaches 0, the background will change to solid red, and the numbers will change to black	55 mcg: \$31 113 mcg: \$47 232 mcg: \$65	Yes
Mometasone (Asmanex)	100 mcg; <i>30 doses</i> 200 mcg; <i>60 doses</i> 400 mcg; <i>30 or 60 doses</i>	Twisthaler	Dose counter counts down by one, indicating number of doses remaining. When counter reaches 00, the cap will lock.	100 mcg; 30: \$59 200 mcg; 60: \$59 400 mcg; 30: \$59 400 mcg; 60: \$106	Yes – 200 and 400 mcg
Combination products (ICS/LABA)					
Budesonide/formoterol (Symbicort)	100/6 or 200/6 mcg; <i>120 doses</i>	Turbuhaler	Counts down. Every 20 th dose is marked by a number and every 10 th dose by a dash. A 0 on a red background in the middle of the window indicates empty.	100/6 mcg: \$93 200/6 mcg: \$117	LU 330
Fluticasone/salmeterol (Advair Diskus)	100/50, 250/50, or 500/50 mcg; <i>60 blisters</i>	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.	100/50 mcg: \$123 250/50 mcg: \$145 500/50 mcg: \$201	LU 330
Fluticasone/salmeterol (Wixela Inhub)	100/50 mcg, 250/50 mcg, or 500/50 mcg; <i>60 blisters</i>	Inhub	Dose counter counts down from 60 to 1. When there are 9 doses left, there is a red indicator. When empty, the dose counter reads 0 and the lever will not reach the end of the purple arrows.	100/50 mcg: \$59 250/50 mcg: \$68 500/50 mcg: \$92	LU 330
Fluticasone furoate/vilanterol (Breo Ellipta)	100/25 or 200/25 mcg; <i>30 blisters</i>	Ellipta	Dose counter counts down by one. When there are 9 doses left, there is a red indicator. When empty, the dose counter reads 0. If you open the cover after this, the dose counter will change from half red to completely red.	100/25 mcg: \$120 200/25 mcg: \$167	LU 456 LU 330

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Mometasone furoate/indacaterol acetate (Ateectura Breezhaler)	150/80 mcg, 250/50 mcg or 500/50 mcg; <i>30 blisters</i>	Breezhaler	No dose counter (capsule inserted into the device).	150/80 mcg: \$50 150/160 mcg: \$59 150/320 mcg: \$77	LU 626
Combination products (ICS//LABA/LAMA)					
Fluticasone furoate/vilanterol/umeclidinium (Trelegy Ellipta)	100/62.5/25 mcg, or 200/62.5/25 mcg; <i>30 blisters</i>	Ellipta	Dose counter counts down by one. When there are 9 doses left, there is a red indicator on half of the dose counter. When empty, the dose counter reads 0. If you open the cover after this, the dose counter will change from half red to completely red.	100/62.5/25 mcg: \$172 200/62.5/25 mcg: \$188	LU 567 – 100/62.5/25 mcg only
Mometasone furoate/indacaterol acetate/glycopyrronium bromide (Enerzair Breezhaler)	150/50/160 mcg <i>30 capsules</i>	Breezhaler	No dose counter (capsule inserted into the device).	150/50/160 mcg: \$132	LU 627

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Table 2: Metered Dose Inhalers (MDIs pressurized): Availability, Dose Counter Features, and Priming Instructions

Drug(s): Generic (Brand Name)	Dose per Inhalation; # of inhalations per device	Dose Counter	Initial priming	Re-priming: # sprays & timeline when must re-prime	Price	Ontario Drug Benefit
Bronchodilators						
Short-acting beta2-agonist (SABA)						
Salbutamol HFA (Salbutamol HFA Sanis; Apo-Salvent; Novo-Salbutamol HFA; Ventolin HFA)	100 mcg; 200 actuations	No dose counter	4 sprays	4 sprays if not used for: Sanis – 5 days Apo – 2 weeks Novo – 4 weeks Ventolin – 4 weeks plus 1 puff after cleaning	Ventolin: \$19 Generics: \$18	Yes
Salbutamol in ethanol (Airomir HFA)	100 mcg; 200 actuations	No dose counter	4 sprays	4 sprays if not used for 14 days	\$19	Yes
Short-acting muscarinic antagonist (SAMA) (anticholinergic)						
Ipratropium bromide (Atrovent HFA)	20 mcg; 200 actuations	No dose counter	2 sprays	1 spray if not used for more than 3 days	\$36	Yes
Combination Products (SAMA/SABA)						
Ipratropium/salbutamol (Combivent Respimat)	20/100 mcg 120 actuations	Pointer indicates approximate amount remaining	Until cloud appears plus 3 more times	1 spray if not used for more than 3 days. Full initial prime if not used for more than 21 days	\$48	No
Long-acting muscarinic antagonist (LAMA) 24-hour acting (anticholinergic)						
Tiotropium (Spiriva Respimat)	2.5 mcg; 60 actuations	Pointer indicates approximate amount remaining	Until cloud appears plus 3 more times	1 spray if not used for more than 7 days. Full initial prime if not used for more than 21 days	\$76	Yes

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Combination Products (LAMA/LABA)						
Tiotropium/olodaterol (Inspiroto Respimat)	2.5/2.5 mcg 60 actuations	Pointer indicates approximate amount remaining	Until cloud appears plus 3 more times	1 spray if not used for more than 7 days. Full priming if not used for more than 21 days	\$87	LU 459
Inhaled corticosteroids (ICS)						
Beclomethasone in ethanol (Qvar)	50 or 100 mcg; <i>200 actuations</i>	No dose counter	4 sprays	4 sprays if not used for 14 days	50 mcg: \$56 100 mcg: \$98	Yes
Ciclesonide in ethanol (Alvesco)	100 or 200 mcg; <i>120 actuations</i>	No dose counter	3 sprays	3 sprays if not used for 7 days	100 mcg: \$68 200 mcg: \$104	Yes
Fluticasone (Flovent HFA)	50, 125 or 250 mcg; <i>120 actuations</i>	No dose counter	1 spray	1 spray if not used for 7 days	50 mcg: \$45 125 mcg: \$69 250 mcg: \$126	Yes
Combination products (ICS/LABA)						
Fluticasone/salmeterol (Advair)	125/25 or 250/25 mcg; <i>120 actuations</i>	Show number of puffs remaining	1 spray; repeat until dose counter reads 120	2 sprays if not used for 7 days	125 mcg: \$144.78 250 mcg: \$201	LU 330
Mometasone/formoterol (in ethanol) Zenhale [®]	100/5 or 200/5 mcg; <i>120 actuations</i>	Show number of puffs remaining	4 sprays; dose counter reads 120	4 sprays if not used for 5 days	100/5 mcg: \$137 200/5 mcg: \$164	LU 330

Priming a Pressurized MDI: Initial priming is recommended before using the inhaler for the first time and re-priming is recommended if the inhaler has not been used for a specified period of time (refer to each product's instructions for use). To prime, shake the inhaler (if required) and spray the recommended number into the air, directed away from the face.

Shaking a Pressurized MDI before Use: Shake all pressurized MDIs before use except QVAR[®] and Respimat[®] products. QVAR[®] is formulated as a solution in HFA propellant. Respimat[®] products are formulated as propellant-free solutions.

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***Coverage:** Ontario Drug Benefit (ODB) Formulary Search: <https://www.formulary.health.gov.on.ca/formulary/>. Exceptional Access Program (EAP): http://www.health.gov.on.ca/en/pro/programs/drugs/eap_mn.aspx.

** Price is an approximate and considers the inhaler cost, the markup (10% used in this estimate), and the dispensing fee (\$12.00 used in this estimate), then is rounded up to the nearest Canadian dollar for the purposes of this document.

***This may not be a complete list of respiratory medications. Please refer to <https://cts-sct.ca/guideline-library/> for CTS respiratory treatment guidelines. Please refer to the respective product monographs for detailed information on indications, contraindications, adverse events, dosing and administration and patient selection. This chart is provided for informational purposes only.

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