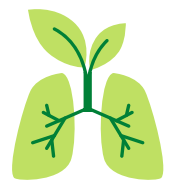


Hamilton Family Health Team  
Green Initiative

# Life Cycle Carbon Emissions of Common Asthma Medications & Alternatives for Adults



The C.A.R.E. Project  
Clean Air, Respiratory Excellence  
March 2022

## Reliever Medications

Much More Impact

Much Less Impact

| Salbutamol /Ventolin                | Airomir MDI                         | Bricanyl Turbuhaler                 | Ventolin Diskus                  | Symbicort Turbuhaler*                  |
|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|--|
| ✓ ODB                               | ✓ ODB                               | ✓ ODB                               | ✗ No ODB                         | ✓ ODB (LU: 330)                        |
| 1-2 puffs QID PRN (max 8 puffs/day) | 1-2 puffs QID PRN (max 8 puffs/day) | 1-2 puffs QID PRN (max 6 puffs/day) | 1 puff QID PRN (max 4 puffs/day) | 1-2 puffs BID &/ PRN (max 8 puffs/day) |
| 100mcg: ~\$5/\$6 salbutamol         | 100mcg: ~\$6 salbutamol             | 500mcg: ~\$9 terbutaline            | 200mcg: ~\$10 salbutamol         | 200/6: ~\$70 budesonide/formoterol     |
| MDI                                 | Low Charge MDI                      | Dry-Powder Inhalers (DPIs)          |                                  |  |

## Inhaled Corticosteroid Maintenance Therapy

Much More Impact

Much Less Impact

| Flovent MDI  | QVar MDI                        | Alvesco MDI                                   | Arnuity Ellipta                      | Pulmicort Turbuhaler   | Flovent Diskus /Aermony Respiclick                       | Asmanex Twisthaler                                   |
|--|---------------------------------|---|--------------------------------------|--|--|--|
| ✓ ODB  | ✓ ODB                           | ✓ ODB   | ✓ ODB                                | ✓ ODB  | ✓ ODB (Flovent) ✗ No ODB (Aermony)                       | ✓ ODB  |
| 1-8 puffs BID  | 1-4 puffs BID                   | 1-4 puffs BID                                 | 1-2 puffs/day                        | 200-1200mcg BID  | 100-1000mcg BID  | 2 puffs BID  |
| 125mcg: ~\$50<br>250mcg: ~\$90<br>fluticasone propionate | 100mcg: ~\$70<br>beclomethasone | 100mcg: ~\$50<br>200mcg: ~\$80<br>ciclesonide | 200mcg: ~\$80<br>fluticasone furoate | 100mcg: ~\$30<br>200mcg: ~\$70<br>400mcg: ~\$100<br>budesonide | 100mcg: ~\$30<br>250mcg: ~\$50<br>fluticasone propionate | 200mcg: ~\$40<br>400mcg: ~\$80<br>mometasone furoate |
| Metered-Dose Inhalers (MDIs)                             |                                 |   | Dry-Powder Inhalers (DPIs)           |  |  |  |

## ICS/LABA Maintenance Therapy

Much More Impact

Much Less Impact

| Advair MDI  | Zenhale MDI   | Breo Ellipta  | Wixela InHale/ Advair Diskus  | Symbicort Turbuhaler                   | Ateectura Breezhaler  |
|---|---|---|---|--|---|
| ✓ ODB (LU: 330)   | ✓ ODB (LU: 330)   | ✓ ODB (LU: 330)   | ✓ ODB (LU: 330)   | ✓ ODB (LU: 330)                        | ✓ ODB (LU: 626)   |
| 1-2 puffs BID   | 1-2 puffs BID   | 1 puff/day  | 1 puff BID  | 1-2 puffs BID &/ PRN (max 8 puffs/day) | 1 puff/day  |
| 125/25: ~\$110<br>250/25: ~\$160<br>fluticasone propionate/salmeterol | 100/5: ~\$100<br>200/5: ~\$120<br>mometasone/formoterol | 100/25: ~\$90<br>200/25: ~\$140<br>fluticasone furoate/vilanterol | 100/50: ~\$42/\$90<br>250/50: ~\$51/\$110<br>500/50: ~\$72/\$160<br>fluticasone propionate/salmeterol | 200/6: ~\$70<br>budesonide/formoterol  | 80/150: ~\$60<br>160/150: ~\$60<br>320/150: ~\$60<br>mometasone furoate/indacaterol acetate |
| MDI   |   | Dry-Powder Inhalers (DPIs)  |   |  |   |

\*Generic expected Fall 2022. All costs based on ODB Drug Formulary & exclude dispensing fee. With permission, adapted from: Visentin J. Cost and Coverage Estimates for Less vs. More Sustainable Asthma Therapies. Published online June 2021.

This resource may not reflect all available medications and does not include all information. Read product monographs before prescribing.