

Better outcomes at lower cost through continuous nebulization



RX For Success

Reservoir Capacity - Up to 30ml of solution At 8LPM, 20ml of solution is delivered in approximately 1 hour

Q20 x 3? Are you having difficulty achieving this protocol? Realize total quality assurance by delivering the prescribed medication in the prescribed amount of time. The Hi-Flo MiniHeart continuous nebulization system and dosing protocols provide you a platform to ensure timely delivery of medications while eliminating the peaks and valleys associated with intermittent aerosol therapy.

If you are constantly faced with staff shortages, give yourself the assurances that only the Hi-Flo MiniHeart can deliver.

This addition to the **GOLD STANDARD** family of Heart* continuous nebulizers

provides assurance of:

- Improved labor efficiency
- Less patient rebounds and revisitations
- Shorter hospital stays
- Less time in the ER
- Lower hospital admission rates
- Quicker return to patient baselines
- Shorter transition time from impending respiratory failure to stability
- Timely and accurate delivery of medications

One hour therapy can also be delivered by the Lo-Flo UniHeart* continuous system. (More appropriate for your pediatric patients).

The Heart Family is the only clinically proven and published product for continuous nebulization.

1. Papa MC, Frank J, Thompson AE. A prospective, randomized study of continuous versus intermittent nebulized albuterol for severe status asthmaticus in children. *Critical Care Medicine* 1993; 21: 1479-1486.
2. Rudnitsky GS, Eberlein RS, Schoffstall JM, Mazure JE, Spivey WH. Comparison of intermittent and continuously nebulized albuterol for treatment of asthma in an urban emergency department. *Annals of Emergency Medicine* 1993; 22: 1842-1846.
3. Bennett NT, Dave J. Treatment of status asthmaticus with* continuously aerosolized albuterol. *The Journal for Respiratory Care Practitioners* 1993; 31-32.
4. Lin RY, Sauter D, Newman T, Sirleaf J, Walters J, Tavakol M. Continuous versus intermittent albuterol nebulization in the treatment of acute asthma. *Annals of Emergency Medicine* 1993; 22: 1847-1853.
5. Olshaker J, Jerrad D, Barish RA, Brandt G, Hooper F. The efficacy and safety of a continuous albuterol protocol for the treatment of acute adult asthma attacks. *American Journal of Emergency Medicine* 1993; 11: 131-132.
6. Moler FW, Hurwitz ME, Custer JR. Improvement in clinical asthma score and PaCO₂ in children with severe asthma treated with continuously nebulized terbutaline. *J Allergy Clin Immunol* 1988; 1101-1109.

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Dosing

These guidelines are no substitute for the good clinical judgement of the user.

First pick your treatment type (1a., 1b., 2c., etc.), then add the specified medication and diluent to the nebulizer reservoir per your specified protocol. Upon completion, set the flow-rate to 8 liters per minute and begin the treatment. The treatment will take approximately 1 hour.

Part Number	Description	Case Quantity
100612	Hi-Flo MiniHeart Continuous Nebulizer25
100612A	Hi-Flo MiniHeart Continuous Nebulizer w/Adult Mask & 7' Tubing	.25
100613A	Hi-Flo MiniHeart Direct Connect w/Pediatric Mask & 7' Tubing	.25
100614A	Hi-Flo MiniHeart w/Super Spike Pediatric Mask . . . & 7' Tubing	.25

If Using Unit Dose Albuterol:

1a	Low dose Albuterol Unit dose only (7.5 mg Albuterol/Tx)	3 unit doses Albuterol + 12 ml NaCl 1 hour Tx
1b	High dose Albuterol Unit dose only (15 mg Albuterol/Tx)	6 unit doses Albuterol +3 ml NaCl 1 hour Tx
1c	Low dose Albuterol plus Ipratropium Bromide Unit dose only (7.5 mg Albuterol & 500 mcg Ipratropium Bromide/Tx)	3 unit doses Albuterol 1 unit dose Ipratropium Bromide + 9 ml NaCl 1 hour Tx
1d	High dose Albuterol plus Ipratropium Bromide Unit dose only (15 mg Albuterol & 500 mcg Ipratropium Bromide/Tx)	6 unit doses Albuterol 1 unit dose Ipratropium Bromide 1 hour Tx

If Using Multidose Albuterol:

2a	Low dose bulk Albuterol (7.5 mg Albuterol/Tx)	1 1/2 ml bulk Albuterol +18 ml NaCl 1 hour Tx
2b	High dose bulk Albuterol (15 mg Albuterol/Tx)	3 ml bulk Albuterol + 18 ml NaCl 1 hour Tx
2c	Low dose bulk Albuterol plus Unit dose Ipratropium Bromide (7.5 mg Albuterol & 500 mcg Ipratropium Bromide/Tx)	1 1/2 ml bulk Albuterol 1 unit dose Ipratropium Bromide + 15 ml NaCl 1 hour Tx
2d	High dose bulk Albuterol plus Unit dose Ipratropium Bromide (15 mg Albuterol & 500 mcg Ipratropium Bromide/Tx)	3 ml bulk Albuterol 1 unit dose Ipratropium Bromide + 15 ml NaCl 1 hour Tx

Ipratropium Bromide is a generic name for Atrovent®. Atrovent® is a registered trademark of Boehringer Ingelheim.