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# **Avoid Nebulizer Therapy to Reduce the Spread of COVID-19**

## Why avoid nebulizer therapy in patients who may have COVID-19?

The use of nebulizer therapy at home or in the health care facility can increase the risk of transmission of the SARS-CoV-2 virus. Studies have shown that exhalations from a nebulizer may extend from the exhalation port or the side vents of the nebulizer for up to two and a half feet. Since COVID-19 may persist in air droplets for 1-2 hours, nebulizers create an increased risk for the spread of COVID-19 disease.

#### What is recommended instead of a nebulizer?

An <u>albuterol Metered Dose Inhaler (MDI) with a valved holding chamber or spacer</u> has been shown to be just as effective as albuterol nebulizer in most children and adults.<sup>2-5</sup> In addition to being equally effective, MDIs with holding chambers or spacers are quicker to administer and may be associated with less tachycardia and tremors.

#### Recommendations to reduce the risk of SARS-CoV-2 transmission:

- 1. Encourage the use of an albuterol MDI and spacer for most patients in both the home and health care settings whenever possible. Note that mask-spacer devices can be used in all ages but are especially appropriate for younger children.
- 2. If nebulizers are used, be certain to adhere to appropriate safety precautions. Administer nebulized albuterol in a location that minimizes exposure to members of the patient's household who are not infected. Choose a location for treatment where air is not recirculated into the home places like a porch or patio, or in a garage areas where surfaces can be cleaned more easily or may not need cleaning.<sup>6</sup>
- Ensure the pharmacy maintains adequate stock of albuterol MDIs and spacers; consider increasing stock to cover patients who may currently receive nebulizer therapy. Avoid stockpiling.
- 4. Ensure clinical staff and patients are familiar with MDIs and spacers and demonstrate appropriate technique.
- 5. Exercise similar precautions with other nebulized medications (i.e., ipratropium bromide, budesonide).

### References:

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