State of Emergency – Use of Spacer-Metered Dose Inhaler in Place of Nebulizer for Administration of Albuterol

#: PR- 900

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Original Date:

3/18/2020

Revised:

BACKGROUND:

The following procedure is authorized only as long as a public health emergency is in force. Paramedics have discretion whether they implement this procedure or default to the use of a Hand Held Nebulizer (HHN) for albuterol administration. This procedure is offered as an option for use to reduce risk from aerosolization during the COVID-19 pandemic.

INDICATIONS:

- Any situation in which an albuterol nebulizer is indicated
- Albuterol nebulizer cannot be given or is less desirable due to procedural aerosol generation

CONTRAINDICATIONS:

- Altered Mental Status
- Allergy to any ingredient delivered by MDI
- Patient unable to assist in performing procedure

EQUIPMENT:

- Unused albuterol metered dose inhaler (MDI)
- Spacer appropriate for MDI
- Oxygen delivery equipment

PROCEDURE:

- Assess the patient and ensure they can cooperative effectively with use of the spacer-MDI device. Some patients in extremis may only be able to use a HHN.
- 2. Verify an indication for albuterol.
- Provide supplemental oxygen at a flow rate appropriate for the patient and condition.
- 4. Remove the nozzle cover of the MDI and attach it to the spacer.
- 5. Have the patient exhale completely and seal his/her lips around the spacer mouth piece
 - a. If using a mask on the spacer, gently create a seal against the face
- 6. Squeeze one puff of the inhaler into the spacer.
- 7. Have the patient immediately take a slow deep breath to the extent possible, remove the spacer, and have the patient hold his/her breath for 5-10 seconds or as long as comfortable.
 - a. If using a mask, have the patient take 4 to 6 slow deep breaths with the mask still in place.
- 8. Allow the patient to resume breathing normally

Approved:

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- 9. Repeat the dose every 20-30 seconds as needed up to a total dose of 20 puffs following the same procedure. Administration of 10 puffs from the spacer-MDI device is roughly equivalent to 2.5 mg of albuterol given via HHN.
- 10. Resume oxygen therapy after medication administration
- 11. Update vital signs every 10 minutes and document appropriately
- 12. **NOTE**: MDIs and spacers are for single patient use only. Do NOT reuse the MDI or spacer on another patient.

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