

Name of Policy: <u>Use of aerosols/metered dose inhalers for the delivery of respiratory medications</u> Policy Number: 3364-136-04-02 Department: Pulmonary Services Approving Officer: Senior Hospital Administrator Responsible Agent: Director, Pulmonary Services Scope: The University of Toledo Medical Center Pulmonary Services Department	 Effective Date: June 1, 2023 Initial Effective Date: 12/1/2004	
<input type="checkbox"/> New policy proposal <input type="checkbox"/> Major revision of existing policy		<input checked="" type="checkbox"/> Minor/technical revision of existing policy <input type="checkbox"/> Reaffirmation of existing policy

(A) Policy Statement

Bronchodilators and steroids to be dispensed via metered dose inhaler (MDI) will be administered by Respiratory Care and Nursing Service. Respiratory Care Practitioners will administer MDIs to patients on mechanical ventilation and those patients with tracheotomies. Nursing Service is responsible for administering the balance. Drugs which can be administered via MDI are listed in RC policy 3364- 136-33-01.

(B) Purpose of Policy

To assure the safe, effective, and timely use of metered dose inhaled medications.

Indications for nebulizer/aerosol therapy:

1. Bronchospasms
2. Chronic Obstructive Pulmonary Disease
3. Laryngeal edema
4. Secretion retention
5. Antibiotic or Steroid therapy

Goals: to improve respiratory status through the delivery of prescribed medications and to improve the efficiency of coughing.

Contraindications: of nebulizer therapy include tachycardia, adverse drug reactions, and the inability to effectively take the treatment.

Hazards: include nosocomial infections, and bronchospasms.

(C) Procedure

1. The Respiratory Care Practitioner and Registered Nurse will verify from the physician orders, the type of medication, the dosage, the frequency, and the number of breaths for each metered dose treatment. The MDIs are kept in the Accudose, in a patient specific bin. The patient may self-administer with the appropriate physician order.
2. Prior to the initial MDI treatment, the patient will be instructed for proper use of the MDI. Such instruction will include: proper assembly of the MDI unit to the medication holding chamber (spacer), patient will exhale to FRC. Place the spacer mouthpiece between the teeth and seal the lips. Make sure that the tongue is flat under the mouthpiece and does not block the MDI. Actuate the device as the patient inspires slowly and deeply, holding maximal inspiration for 5-10 seconds. Repeat the procedure according to written physician order.

