

Cardiopulmonary Services
PICU Specific Policies
Proc 19.15

Servo Ultra Nebulizer (SUN 345)

Purpose:	The SUN 345 is an accessory to the Servo300/300A ventilators and is intended for nebulizing drugs to patients requiring mechanical ventilation.
Description:	The SUN 345 uses an electric current to produce sound waves that, when directed at the surface of a fluid, produces an aerosol. Because no flow is generated by the SUN 345, an external gas source must be applied to carry the aerosol from the medication cup to the patient. Ventilator settings and readings will remain unaffected by use of the SUN 345. The SUN 345 does not add deadspace.
Indications:	Indicated for the nebulization of ordered medications in the patient that is mechanically ventilated.
Contraindications/Hazards/Complications:	<ol style="list-style-type: none">1. Contraindications specific for medication(s) administered.2. Must be used with the Servo 300 ventilators equipped with the ultrasonic module.3. SUN 345 must be operated in an upright position.
Equipment:	SUN 345, medication cup, prescribed medication, sterile H2O
Personnel:	The procedure is performed by the Respiratory Care Practitioner (RCP) or a Student Respiratory Therapist (SRT) with supervision.
Procedure:	<ol style="list-style-type: none">1. Check the chart for the appropriate order. Must consist of medication, dosage and frequency of delivery.2. With the nebulizer off, unscrew the t-piece and fill the couplant chamber with sterile H2O to the level indicator.3. Place a medication cup into the couplant chamber and fill with desired amount of medication. Re-fit the t-piece.4. Attach the nebulizer between the inspiratory limb and the wye. Using the power cable, attach the nebulizer to the control unit.5. Press the start/stop button and check to see that a mist is being produced. The nebulizer will automatically shut off after 30 minutes.6. Document therapy per policy.
Infection Control:	Standard Precautions for body fluid isolation. Medication cups will be replaced on Mon, Wed and Fri and PRN (dropped, contaminated, etc.) Sterile H2O to be labeled with patient's name and date opened. Discard after 24 hours. T-piece to be sent to CMS for sterilization. Couplant chamber to be cleaned with a cloth moistened with alcohol.
References:	Siemens Servo Ultra Nebulizer 345 Operating Manual.

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Written: Feb 2003
Reviewed: March 2003