

	RESPIRATORY SERVICES	DATE CREATED: October 2011 DATE REVIEWED/REVISED: August 2016
PROCEDURE	TITLE: <u>Pulmonary Diagnostics:</u> Calibration of Nebulizer Cup for Methacholine Challenge (Respiratory Therapy) NUMBER: B-00-12-12110	RELATED DOCUMENTS:

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SITE APPLICABILITY:

ST. PAUL'S HOSPITAL
MOUNT SAINT JOSEPH HOSPITAL

GENERAL INFORMATION:

Calibration of Methacholine challenge nebulizer cups will be completed every 3-6 months and when new equipment is put into rotation. If a nebulizer cup fails it will be discarded.

REQUIRED SUPPLIES & EQUIPMENT:

- Jaeger Masterscreen APS system (Dosimeter)
- Medical Grade Scale (with the precision of 0.001g)
- Clear nebulizer vessel
- Grey nebulizer lid
- Baffle
- Nebulizer block
- 3 mL prefilled saline syringe
- Filter

PROCEDURE:

1. Take the new base and baffle and fill it with 2 mL of saline.
2. Attach the grey lid to the base and weigh the equipment on the scale to three decimal spots.
3. Attach the device and filter to the nebulizer block.
4. Select **Bronchial Test → Checks → Nebulizer Check**.
5. A window will appear that contains nebulizer power and weight.
6. Change the nebulizer power from g/s to mg/min.
7. Enter the weight of the cup filled with saline in the mg section (grams x 1000).
8. Leave the nebulization time as 1 minute.
9. Press **OK** to start.
10. A pop up window will appear with **Nebulizer check is being performed!**
11. After 1 minute of nebulization another pop up window will appear asking for the post nebulization weight.
12. Reweigh the nebulizer cup on the scale to three decimal spots.
13. Enter in the new weight (again in mg) and press **ok**.
14. Output should be 240 mg/min or higher.

REFERENCES:

1. Cardinal Health Reference Manual (Online)

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