

	RESPIRATORY SERVICES	DATE CREATED: May 2011 DATE REVIEWED/REVISED: August 2016
PROCEDURE	TITLE: <u>Pulmonary Diagnostics:</u> Linearity Testing (Respiratory Therapy) NUMBER: B-00-12-12109	RELATED DOCUMENTS:

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SITE APPLICABILITY:

ST. PAUL'S HOSPITAL
MOUNT SAINT JOSEPH HOSPITAL

GENERAL INFORMATION:

Linearity testing is completed monthly on all the Pulmonary Function machines in the lab. Results are kept with the Quality Control results for DAP purposes.

Linearity testing uses a 3 L syringe to measure a known volume at 3 separate flows. The volume measured at each flow should meet accuracy to +/- 3%.

REQUIRED SUPPLIES & EQUIPMENT:

- 3 L Syringe
- Jaeger Masterscreen Spirometer

PROCEDURE:

1. Click on the **PATIENT DATA** icon.
2. Under the patient's last name enter **_JQM***.
3. Press the **tab** button 3 times and the **patient directory list** will pop up on the screen.
4. Scroll to the bottom of the pop up window and select one of the following:
 - **-_JQM_SYR3_LAB_A**
 - **-_JQM_SYR3_LAB_C**
 - **-_JQM_SYR3_LAB_D**
 - **-_JQM_SYR3_LAB_M** (Mount Saint Joseph Hospital)
5. Press **ACCEPT** to close the pop up window, followed by **F12** to save.
6. Click on the **UTILITIES** tab at the top of the screen and enter the password: **ABCD**.
7. Click on **JQM: Spirometry Flow Volume**.
8. Press **F3** to zero the pneumotach before attaching the 3 L syringe.
9. Using the 3 L syringe, create 3 flow volume loops for each of the following speeds:
 - 2 L/s, 4 L/s, 8 L/s, 12 L/s
10. After each flow volume loop press **F7** to save the data for each speed.

11. FVC measurements should be within 3% of 3 L.

REFERENCES:

1. Cardinal Health Reference Manual (Online manual)

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