

	<b>RESPIRATORY SERVICES</b>	DATE CREATED: April 2011  DATE REVIEWED/REVISED: <b>August 2016</b>
<b>PROCEDURE</b>	TITLE: <u>Pulmonary Diagnostics:</u> Calibration DLCO Syringe (Respiratory Therapy)  NUMBER: B-00-12-12107	RELATED DOCUMENTS:

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### SITE APPLICABILITY:

ST. PAUL'S HOSPITAL  
MOUNT SAINT JOSEPH HOSPITAL

### GENERAL INFORMATION:

D<sub>LCO</sub> syringe testing is completed twice monthly with results being reported to the Diagnostic Accreditation Program twice a year. Results are kept on file for DAP purposes.

The purpose of a D<sub>LCO</sub> syringe test is to allow for the use of a known volume to determine the inspired volume, VA, and dilution of gases for quality assurance purposes.

### REQUIRED SUPPLIES & EQUIPMENT:

- 3 L Syringe
- Jaeger Masterscreen PFT System

### 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. Select **JQM CO Diffusion Single Breath**.
8. Once the testing screen opens, press **F1** and wait for the message at the bottom of the screen to say **"Normal breathing, space bar starts test"**.
9. Attach the 3 L syringe to the pneumotach.
10. Simulate 2 – 3 "normal" breaths with the syringe.

11. When the syringe is empty, press **F2** then fill the syringe to maximum capacity.
12. The computer will count down for 15 seconds and then ask for **patient exhalation**. At this time empty the full syringe back into the pneumotach, and then remove the syringe from the pneumotach.
13. Wait for the calculation to occur.
14. Repeat at least 3 times.
15. VA should be between 2.91 and 3.09 if possible.

#### **REFERENCES:**

1. Cardinal Health Reference Manual (Online Manual)

#### **DEVELOPED BY:**

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