

# Pulmonary Diagnostics: Quality Control Schedule and Acceptance Testing

## Site Applicability

St. Paul's Hospital  
Mount Saint Joseph Hospital

## Practice Level

Respiratory Therapist

## Requirements

Providence Health Care Pulmonary Function Labs will follow a specified schedule for frequency of quality control (QC) tests on all of the pulmonary function testing equipment to ensure the devices are running optimally.

Biological controls must have normal and repeatable lung function test results (e.g. No asthma or other respiratory problems).

QC tests must follow the same procedures as applied to the patient population

## Guideline

### Monthly Requirements (per pulmonary function testing machine):

- X4 Syringe DLCO
- X4 BIO DLCO
- X1 Full BIO PFT
- X1 Linearity
- Visual inspection of PF system hardware for damage and/or excessive wear
- Change pneumotachs on Jaeger PF testing system

### Quarterly

- 3L calibration syringe Microgard filter should be changed

### Bi-Annually

- Isothermal testing
- Change DLCO sample line on each PF testing system



### **Acceptance Testing**

- Before new equipment is put into service, acceptance testing consisting of a biologic control performing 10 tests must be completed. The medical director must validate the tests before any testing can be done on patients.

**Best Practice:** Two biologic controls for five consecutive days with an AM and PM test should be completed.



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<b>Approved By:</b> <i>(committee or position)</i>	PHC
	Pulmonary Diagnostics Coordinator, Respiratory Services
	Professional Practice Leader, Respiratory Services Medical Director, Pulmonary Function
<b>Owners:</b> <i>(optional)</i>	PHC
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