WELCOME TO THE PULMONARY FUNCTION LAB AT McLAREN GREATER LANSING

Some tests require special instructions that you must follow. Please refer to the specific test your physician has ordered (below) for proper instruction. For all tests, please do not smoke for two hours prior to testing.

PATIENT REGISTRATION

Please report to the front desk in the main lobby 20 to 30 minutes prior to your testing time.

After registration, you will be escorted up to the Heart & Vascular Institute on the second floor for check-in. The lab will be notified when you arrive.

Check the test that you are scheduled for:

- Spirometry
- Spirometry with Pre- and Post- Bronchodilator
- Diffusion Study (DLCO)
- Plethysmography (Lung Volume and Airway Resistance)
- Methacholine Challenge Test
- Arterial Blood Gas Analysis
- Cardiopulmonary Exercise Test (CPET)
- Exercise Provocation
- Six-Minute Walk and Oxygen Evaluation

For testing questions, please call (517) 975-7041.

For scheduling, please call (800) 625-2736.

> 2900 Collins Road Lansing, MI 48910 (517) 975-6000

> mclaren.org/lansing

PULMONARY FUNCTION LAB







PREPARING FOR YOUR PULMONARY TESTING

Spirometry Testing time: 15 minutes

This is a breathing test performed to measure the volume of air you are able to breath in and out of your lungs and the speed at which this occurs.

Please do not use breathing medications for four hours prior to this test or as directed by your physician.

Spirometry Pre- and Post- Bronchodilator Testing time: 30 minutes

This test performs the same maneuver described above, with the addition of a breathing treatment of albuterol. The spirometry is then repeated 20 minutes after inhaling albuterol to analyze if an improvement is made in your breathing.

Please do not use breathing medications for four hours prior to this test or as directed by your physician.

Diffusion Study (DLCO) Testing time: 20 minutes

This test measures how gases transfer or diffuse into your bloodstream.

Plethysmography (Lung Volume and Airway Resistance) Testing time: 20 minutes

This test measures the volume of air left inside your lungs that you cannot blow out and the resistance of your airways during breathing.

Methacholine Challenge Testing Testing time: 2 hours

This test is to rule out asthma as a lung diagnosis. Methacholine is inhaled in varied concentrations with spirometry and plethysmography performed to assess the airway's response to medication.

Arterial Blood Gas Analysis Testing time: 20 minutes

A sample of blood is taken out of your artery for analysis of oxygen content, PH of blood, and carbon dioxide level.

Cardiopulmonary Exercise Test (CPET) Testing time: 2.5 hours

This exercise stress test is performed on a stationary bike or treadmill. Computer analysis of your breathing is recorded during this study to determine exercise limitations. Wear comfortable clothing and shoes.

Exercise Provocation Testing time: 2.5 hours

This test is commonly ordered for children to rule out exercise-induced asthma. Spirometry and plethysmography maneuvers are performed before and after exercising on a treadmill.

METHACHOLINE AND EXERCISE PROVOCATION SPECIAL INSTRUCTIONS

Breathing medications can alter the outcome of methacholine challenge and exercise provocation testing. To provide the most accurate test results, please hold your breathing medications as follows:

- Long-acting inhalers (advair, spiriva, serevant foradil) and all inhaled steroids (oral and nasal) should be held 48 hours prior to testing.
- All prescription and over-the-counter should be held 48 hours prior to testing.
- Medium-acting inhalers (atrovent) should be held 24 hours prior to testing.
- Short-acting inhalers (albuterol, alupent, xopenex) should be held 12 hours prior to testing.
- Breathing tablets (singular) should be held 48 hours prior to testing.
- Provocation testing is best performed when a patient is off prednisone for 48 hours, if possible. Please contact the Pulmonary Function Lab or your physician's office for further guidance regarding this medication.
- Do not drink any caffeinated beverage or eat chocolate for four hours prior to testing.

