

Bronchial Provocation Test

What is a Bronchial Provocation test?

The bronchial provocation test evaluates how sensitive the airways in your lungs are. A spirometry breathing test is done before and after you inhale a mist. One example of the mist that may be inhaled is **methacholine**. Spirometry can show how much air you can breathe in and out. It also shows how fast you can breathe in and out. The spirometry results are compared before and after you inhale the spray to see what changes there are in your breathing. You will be given additional information in PPU at the time of the test.

A laryngoscopy may be scheduled after the bronchial provocation test. A laryngoscopy is often done to identify if your vocal cords may be causing you to have trouble breathing.

How do you get ready for the test?

Please follow these directions when getting ready for this test. These medicines will affect the results of some of these tests and need to be stopped before the testing is done. If the medicine is not stopped before the test we may not be able to complete the test. Please let your doctor know if you are not able to stop the medicine due to increased symptoms.

- Stop these **inhaled** medicines for **72 hours** before your appointment:
 - Anora® (umeclidinium and vilanterol)
 - Bevespi® (glycopyrrolate and formoterol)
 - Incruse® (umeclidinium)
 - Seebri® (glycopyrrolate)
 - Spiriva® (tiotropium)
 - Stiolto® (olodaterol and tiotropium)
 - Tudorza® (aclidinium)
 - Utibron® (indacaterol and glycopyrrolate)
 - Trelegy® (fluticasone, umeclidinium and vilanterol)
- Stop these **inhaled** medicines for **48 hours** before your appointment:
 - Advair® (fluticasone and salmeterol)
 - Breo® (fluticasone and vilanterol)
 - Dulera® (mometasone and formoterol)
 - Symbicort® (budesonide and formoterol)
- Stop these **inhaled** medicines for **36 hours** before your appointment:
 - Arcapta® (indacaterol)
 - Brovana® (arformoterol)
 - Perforomist® (formoterol)
 - Serevent® (salmeterol)
 - Striverdi® (olodaterol)
- Stop these **inhaled** medicines for **12 hours** before your appointment:
 - Atrovent® (ipratropium)

- Combivent®(albuterol and ipatropium)
- DuoNeb® (albuterol and ipatropium)
- Stop these **inhaled** medicines for **6 hours** before your appointment:
 - ProAir HFA®, Proventil HFA®, Ventolin HFA® (albuterol), Xopenex® (levalbuterol)
- **Continue to take all your other medicine as you usually do.**
- Exercising can drop blood sugar in patients who are taking medications to control diabetes. Bring your glucose meter, test strips, and a source of fast-acting glucose with you (such as glucose tablets or glucose gel).
- **Pregnant women or mothers who are currently breast feeding may not perform a methacholine challenge. Please advise your ordering doctor.**
- **Adults** - If a laryngoscopy is scheduled at the same time, do not eat for 2 hours before the test is scheduled.
- **Children** - If a laryngoscopy is scheduled at the same time, do not eat for 3 hours before the test is scheduled.

What is done during the test?

You will do a number of breathing tests. You will be asked to inhale a spray between the breathing tests. The technician will explain what you need to do during each test. A good effort during the testing is important to get good results. The technician will coach you during each test. If you have questions during the tests, please ask the technician.

You may be asked to sit in a Plexiglass booth for some of the testing. This booth is called a body box or plethysmograph. You will do different breathing techniques. Each breathing technique is often repeated to make sure the test is reliable.

If your doctor has scheduled you for a laryngoscopy this will be done right after the breathing tests are completed. During the laryngoscopy a doctor will place a small tube (fiberoptic probe) in your nose. The tube is passed through your nose to the back of your throat after topical anathesia is applied. The movement of the vocal cords can be seen with the probe. **Please do not eat 2 to 3 hours prior to the test if a Laryngoscopy has been scheduled.**

How long will the test take?

Bronchial provocation testing often takes 1 ½ to 2 hours.

How do you get to your test?

If you are being seen at National Jewish Health, on the day of your scheduled test, report to room A310a at Pulmonary Physiology Services, (PPS), located on the 3rd floor of the May building. If you have questions please call Pulmonary Physiology Services at 303-398-1530.

Visit our website for more information about support groups, clinical trials and lifestyle information.

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NOTE: This information is provided to you as an educational service of National Jewish Health. It is not meant to be a substitute for consulting with your own physician.

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