

Treprostinil Inhalation Solution (Tyvaso)

Updated July 2025

Tyvaso nebulized solution is an inhaled medication approved to treat two types of pulmonary hypertension:

- Pulmonary arterial hypertension, also known as Group 1 PH.
- Pulmonary hypertension associated with interstitial lung disease, also known as Group 3 PH.

This therapy helps improve the ability to exercise.

The Food and Drug Administration approved the first formulation of Tyvaso solution for inhalation via a nebulizer in 2002. It approved another formulation, a dry powder inhaler called Tyvaso DPI, in 2022. Each treprostinil product has its own inhalation device. The devices can't be used interchangeably, although they deliver the same drug, treprostinil.



How treprostinil inhalation solution works

Treprostinil is a manufactured prostacyclin, a hormone produced by the innermost layer of blood vessels. It helps those blood vessels relax and widen. Many PH patients don't make enough prostacyclin.

Treprostinil dilates narrowed blood vessels in the lungs, which decreases lung pressures and reduces strain on the right heart. Lower lung pressures can improve heart function and alleviate shortness of breath, which helps people be more active.

Dosing and administration



Modifications and/or Larger Works may require additional patent licenses granted by a third party patent license shall not apply to (i) any other Recipient.

<https://phassociation.org/patients/treatments/treprostinil-inhalation-solution-tyvaso/>

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Your health care provider will work with you to increase the dose. You gradually will add more breaths per session, every one to two weeks, depending on your response to the medication, until you reach your target maintenance dose. The target maintenance dose can be up to 12 breaths per session. This process is called titration.

- [REDACTED]
- Take only Tyvaso with the portable nebulizer.

How to take treprostinil inhalation solution (Tyvaso)

1. Set up and assemble the nebulizer each morning and add the medication ampule to the medication cup.
2. Take treprostinil four times a day, four hours apart: when you awaken and at lunch, dinner and bedtime. Each session takes two or three minutes.
3. Clean plastic pieces of the device each night. Plug in nebulizer each night to recharge battery.

If you miss a scheduled treatment session, resume therapy as soon as possible at the usual dose.

If you go to the emergency room or are admitted to the hospital, bring your nebulizer and medication ampules with you.

Storage

Treprostinil comes in plastic ampules that are packaged in a foil pouch. Store in the pouch, away from light, until you're ready to use. The ampules don't need to be refrigerated. Use ampules with medication within seven days of opening the foil pouch.

Obtaining treprostinil inhalation solution

Treprostinil is a limited-distribution medication, which means you can't buy it at a local pharmacy. A physician must prescribe the medication, and you'll need insurance approval before starting therapy. Once you have prior authorization from your insurance, a specialty pharmacy (Accredo Specialty Pharmacy or CVS Caremark Specialty Pharmacy) will send the medication, two nebulizers and relevant supplies to your home. A specialty pharmacy home nurse will teach you how to administer the medication properly and care for the nebulizer.

Insurance coverage

Most health insurance plans will pay part of the cost of this medication. However, some plans leave you with high



Modifications and/or Larger Works may require additional patent licenses granted by a third party patent license shall not apply to (i) any other Recipient.

<https://phassociation.org/patients/treatments/treprostinil-inhalation-solution-tyvaso/>

out-of-pocket costs. Depending on your insurance, your plan may cover treprostinil through your major medical or your prescription benefits. If your cost is high, talk with your specialty pharmacy or your prescribing physician about financial assistance through a charitable foundation or the drug manufacturer's patient assistance program.

For questions, call 877-864-8437. Check your eligibility to enroll in the [Tyvaso Co-Pay Assistance Program](#).


See other [financial assistance resources](#) or call PHA at 301-565-3004.

Common side effects

Treprostinil inhalation solution is generally well tolerated. The most common side effects are:

- Cough.
- Throat irritation/pain.

- Headache.
- Nausea.
- Reddening of the face and neck (flushing).
- Diarrhea.
- Dizziness.

- 
- Low blood pressure.
 - Risk of bleeding, especially for people who take blood thinners (anticoagulants).

Inhaled treprostinil may cause bronchospasm, a tightening of the muscles that line the airways in your lungs.

Avoid getting treprostinil in your eyes or on the skin. If it gets in your eyes or on your skin, rinse with water immediately.

Monitoring side effects

Talk to your health care team if you experience side effects while using inhaled treprostinil. Your PH provider and specialty pharmacy nursing team will monitor your response to this therapy, including side effects, when you start the medication and when your dose is increased. Your health care team will frequently monitor your blood pressure because treprostinil can lower your systemic blood pressure, or blood pressure throughout your body. Your PH provider will assess your ability to exercise while using inhaled treprostinil.

Drug interactions

Let your health care provider know which medications you take (including over the counter) before starting a new treatment. Your provider might need to adjust your medications for systemic blood pressure and heart disease.



Modifications and/or Larger Works may require additional patent licenses granted by a third party patent license shall not apply to (i) any other Recipient.

<https://phassociation.org/patients/treatments/treprostinil-inhalation-solution-tyvaso/>

Interactions include:

- Medicines that decrease blood clotting (anticoagulants).
- Water pills (diuretics).
- Gemfibrozil (Lopid) or rifampin (Rimactane, Rifadin, Rifamate, Rifater).

Note: Treprostinil isn't cleared by dialysis. Treprostinil doesn't affect warfarin use.

Considerations for special populations

Pregnant and breastfeeding patients: Treprostinil hasn't been studied in pregnant or breastfeeding woman. It isn't known whether the medication will harm an unborn baby or can be passed into breast milk. Talk to your health care provider if you are pregnant, plan to become pregnant or are breastfeeding.

Pediatric patients: Patients under 18 have been prescribed treprostinil. However, safety and effectiveness hasn't been established for this patient population.



Modifications and/or Larger Works may require additional patent licenses granted by a third party patent license shall not apply to (i) any other Recipient.

<https://phassociation.org/patients/treatments/treprostinil-inhalation-solution-tyvaso/>