

Lutathera Infusion Treatment

Lutetium Lu-177 dotatate (brand name Lutathera®) is a medication for treating a type of cancer called gastroenteropancreatic neuroendocrine tumors (GEP-NETs). It contains radiation that damages cancer cells. You may hear this treatment called peptide receptor radionuclide therapy (PRRT). This document tells you what to expect during the treatment, and what steps to take to protect yourself and others from the radiation.

How Lutathera works

Lutathera attaches to cancer cells that have a somatostatin receptor. Once attached, Lutathera delivers radiation to the cell. This slows down growth of the cancer cells and helps prevent the cancer from spreading.

Treatment schedule

You will have 4 Lutathera treatments. You will get one treatment every 8 weeks. This means that from your first treatment to your last treatment, the full course of treatment usually takes about 6 months.

Before the infusion

Your care team will take a blood sample to check your blood counts, liver function and kidney function.

If you already take a somatostatin medication, you may need to stop taking it before the Lutathera treatment.

- › Long-acting: stop taking it **4 weeks before** each treatment.
- › Short-acting: stop taking it 24 hours before each treatment.

During the infusion

Your visit will take 5 to 6 hours. During the visit:

1. A nurse will put an intravenous catheter (IV) in your arm or hand. An IV is a small tube placed into your vein. It is used to give medications or fluids directly into your bloodstream.
2. You will receive medication to prevent nausea.
3. You will receive fluids through the IV. These fluids have amino acids. This will protect your kidneys. The infusion will take at least 4 hours.
4. After 30 minutes, the Lutathera infusion will start. This infusion will last 30 to 40 minutes. You will receive the Lutathera and the amino acid fluids at the same time. If you usually take a somatostatin medication, you may return to the schedule for taking it 4 to 24 hours after the infusion.

After the infusion

Because this treatment involves radiation, you may need to wait a short time before going home. Most of the medication leaves your body through your urine. Drinking water helps your body clear it out. See the section below for the list of important safety precautions you will take at home.

Side effects

The most common side effects of a Lutathera treatment include:

- › Fatigue (feeling very tired)
- › Nausea
- › Vomiting
- › Higher blood glucose levels (blood sugar)
- › Low potassium levels

Other possible side effects are:

- › Low blood counts (due to radiation exposure)
 - Low red blood cells (anemia)
 - Low platelets (thrombocytopenia)
 - Low white blood cells (neutropenia)
 - Changes in kidney or liver function
- › Possible infertility



Rarely, some people develop blood-related conditions, such as secondary myeloblastic syndrome and leukemia, after receiving Lutathera. Your care team will monitor the results of your blood tests for signs of these conditions.

Safety precautions

After each treatment, taking the steps in this section will help protect you and your family and loved ones from the radiation.

- › Drink plenty of fluids before and after treatment to help your kidneys clear the medication.
- › Shower every day for the first 5 to 7 days after each treatment.
- › Be sure to complete your scheduled blood tests.

Bathroom safety

Because some radiation leaves your body in your urine or vomit, it is important to take these precautions:

- › **Sit on the toilet to avoid splashing.**
- › **Flush twice and** wash your hands every time you use the bathroom.
- › For the first 3 days after your treatment, rinse the sink after washing up.

Reducing radiation exposure to others

Follow these guidelines after each treatment to keep others safe:

- › For the first 3 days:
 - Limit close contact with people in your home
 - Limit time you spend in public places.
 - Do not fly or use public transit (bus, train).
- › For the first 5 days:
 - Do not have intimate contact (including kissing) with anyone.
 - Do not have contact with children or pregnant people.
- › Keep time together short.
- › Keep your distance (at least 3 feet).
- › Keep clean by washing your hands often and showering every day.



› Sleep alone in your own bed by this schedule:

- 3 days away from another adult
- 7 days away from a child
- 15 days away from a pregnant person

If you are traveling during your treatment period, ask for a radiation treatment card for airport security.

Birth control and breastfeeding

Use birth control during the treatment and for months after it ends:

- › Men: continue using birth control for 4 months after your last dose.
- › Women: continue using birth control for 7 months after your last dose.

Do not breastfeed during treatment or for 3 months after your last dose.

When to call your doctor

Call your doctor or care team if you notice these symptoms:

New or unusual bruising

- › Any bleeding, such as nose bleeds or bleeding gums
- › Signs of infection (temperature more than 100.4 degrees F, chills, feeling unwell)



Seek medical care immediately if you have signs of neuroendocrine hormonal crisis.

- › Symptoms develop in the 1st 24 hours after you have had your first Lutathera infusion.
- › Symptoms include:
 - Diarrhea
 - Low blood pressure, dizzy, lightheaded (hypotension)
 - Difficulty breathing, wheezing, tightness in your chest (bronchoconstriction)

If you need emergency care after your treatment, call 911 or go to the nearest emergency department. Emergency care is always more important than radiation precautions.

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