What is Lu 177-Dotatate (Lutathera) therapy?

- Lu 177-Dotatate (Lutathera) is a type of radioisotope therapy, also called Peptide Receptor Radionuclide Therapy or PRRT. Radioisotope therapy delivers radiation directly into the cancer cells by adding radioactive material to proteins that bind with specific cancer cells. This is done using special drugs called radionuclides. Lu 177-Dotatate, a radionuclide, is given by infusion into the person's vein. As the proteins enter the body, the proteins bind onto the cancerous cells and deliver the radioactive material directly to the tumor.

How do I prepare for my Lu 177-Dotatate therapy?

- Stay very well hydrated. Drink plenty of water to keep your kidneys well hydrated and able to flush excess radiation from your system.
- Continue taking your regular medication and bring any scheduled or as needed medications (including pain medications) to this appointment.
  - You cannot take any somatostatin analogue drugs such as octreotide LAR or Lanreotide for 4 weeks before a dose of Lutathera.
    - The Nuclear Medicine Nurse Practitioner will contact you to verify your last dose for appropriate scheduling.
- You will receive a bag lunch with either a ham or turkey sandwich. If this food does not fit your dietary preferences, please plan to bring snacks or lunch with you. You can eat while you are here during your therapy if you get hungry. There are no dietary restrictions regarding this therapy. You will not be able to go to the cafeteria for any food.
• You will be at the hospital for 6-8 hours for each therapy. Please arrive 15 minutes before your appointment time in order to get checked in at an appropriate time.
• You will need a driver to take you home after therapy because of potential side effects such as nausea and vomiting. Your driver may be able to sit near you during your therapy, no closer than 3 feet.

What happens on the day of therapy?
1. When you arrive to the reception area, you will meet the nurse who will take you back to the treatment area.
2. You will have any IV placed and your blood pressure and heart rate taken.
3. You will review the therapy process with the nurse and Nuclear Medicine technologist.
4. You will receive anti-nausea medication, as well as an antihistamine and a corticosteroid to pre-medicate you before the infusions.
5. You will then begin the infusion of amino acids. This infusion can take 4-6 hours to complete.
6. After about 20 minutes of the amino acid infusion, we will ask you to use the restroom. After urinating, you will be connected to the Lu 177-Dotatate therapy dose for 30 minutes. During this therapy, you will not be able to move from your assigned bed area.
7. The amino acid infusion will continue for several more hours once the Lu 177-Dotatate therapy is complete.
8. The nurse will monitor you during your infusions of amino acids and Lu 177-Dotatate, assisting with any potential side effects.
9. Once the amino acid infusion is complete, the nurse will remove your IV, review radiation safety precautions and discharge you to go home. The Radiation safety precautions are included in this packet of information.
Who do I call if I have questions?

- If you have any questions regarding your Lu 177-Dotatate therapy or amino acid infusion, please call the Michigan Medicine Nuclear Medicine Department at 734-232-6072.