

FDA approval was based on the efficacy and safety of **NETTER-1**, a phase 3, randomized, open-label, multicenter study in 229 patients with well-differentiated, grade 1/2 advanced GEP-NETs after SSA progression.¹⁻³

NETTER-2 was a phase 3, randomized, open-label, multicenter study in 226 patients with metastatic or advanced GEP-NETs.^{4,5} FDA, US Food and Drug Administration; GEP-NETs, gastroenteropancreatic neuroendocrine tumors; SSA, somastatin analogue.

INDICATION

LUTATHERA® (lutetium Lu 177 dotatate) is indicated for the treatment of adult and pediatric patients aged 12 years and older with somatostatin receptor-positive gastroenteropancreatic neuroendocrine tumors (GEP-NETs), including foregut, midgut, and hindgut neuroendocrine tumors.

IMPORTANT SAFETY INFORMATION WARNINGS AND PRECAUTIONS

• Radiation Exposure: Treatment with LUTATHERA contributes to a patient's overall long-term cumulative radiation exposure and is associated with an increased risk for cancer. Radiation can be detected in the urine for up to 30 days following LUTATHERA administration. Minimize radiation exposure to patients, medical personnel, and household contacts during and after treatment with LUTATHERA consistent with institutional good radiation safety practices, patient management procedures, Nuclear Regulatory Commission patient release guidance, and instructions to the patient for follow-up radiation protection at home.

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Coordinating care: Multidisciplinary roles and responsibilities



As a nurse in the referring oncologist's practice, you can change lives by identifying patients who may be eligible for treatment.

Below are some of the multidisciplinary roles and responsibilities of those involved in a patient's journey with LUTATHERA. It's important to keep in mind that guidelines for such roles may vary by institution.

1: IDENTIFY

Referring Medical Oncology Practice

Identify and test appropriate patients for LUTATHERA

The referring oncologist examines the patient holistically, including testing for SSTR presence and tumor localization via imaging—part of each patient's staging and eligibility process for LUTATHERA.^{1,6}

 Your medical oncology practice identifies a patient with an SSTR+ GEP-NET in the foregut, midgut, or hindgut¹

Referring nurses may help identify appropriate patients for LUTATHERA early by^{1,2,4}:

- Monitoring patients with newly diagnosed SSTR+ metastatic or advanced GEP-NETs
- Closely monitoring patients for disease progression on an SSA, regardless of the presence of symptoms

2: REFER

Referring Medical Oncology Practice

Refer patient to treatment site

Nurse coordinates patient care with the care team at the treatment site and makes sure to follow the recommendations from the treating physician, such as:

- Discontinue long-acting SSA ≥4 weeks prior to the administration of LUTATHERA¹
- Administer short-acting SSA as needed; discontinue at least 24 hours prior to initiating LUTATHERA¹
- Confirm schedule of periodic laboratory testing¹
- Verify pregnancy status for patients of childbearing potential¹

3: ADMINISTER

Administering Nuclear Medicine or Radiation Oncology Practice

Initiate LUTATHERA at treatment site

- Patient may undergo additional testing at the treatment site to confirm eligibility or readiness to initiate treatment^{1,6}
- Assist in administration of treatment: the recommended dosing is 4 cycles of treatment at 8-week intervals¹

SSTR, somatostatin receptor; SSTR+, somatostatin receptor-positive.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Myelosuppression: In the NETTER-1 clinical trial, myelosuppression occurred more frequently in patients receiving LUTATHERA with long-acting octreotide compared with patients receiving high-dose long-acting octreotide (all grades/grade 3/4): anemia (81%/0 vs 54%/1%), thrombocytopenia (53%/1% vs 17%/0), and neutropenia (26%/3% vs 11%/0). In NETTER-1, platelet nadir occurred at a median of 5.1 months following the first dose.

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Coordinating care for LUTATHERA administration and follow-up



This page offers an overview of the different phases of treatment with LUTATHERA

Treatment Site: Administering Nuclear Medicine or Radiation Oncology Practice

Before initiating LUTATHERA

- Patient is checked in for treatment and provided assessment, expectations for the day, and orientation of the room
- Antiemetics are administered 30 minutes before the recommended amino acid solution to prevent nausea and vomiting^{1,6}
- An IV sterile amino acid solution containing L-lysine and L-arginine is initiated 30 minutes before administering LUTATHERA¹
- Patients who have had prior grade 1/2 hypersensitivity reactions to LUTATHERA are premedicated¹

Treatment Site: Administering Nuclear Medicine or Radiation Oncology Practice

AFTER each dose of LUTATHERA¹

- Long-acting octreotide 30 mg IM is administered between 4 and 24 hours after each dose of LUTATHERA
- Patient is monitored for adverse reactions and laboratory abnormalities
- Patient is reminded when and where they will receive their next SSA treatment

IM, intramuscular; IV, intravenous.

During LUTATHERA administration¹

- Infusion is continued during and for at least 3 hours after the completion of the infusion of LUTATHERA
- The dose of the amino acid solution is not decreased if a reduced dose of LUTATHERA is administered
- Patients who experience grade 3/4 hypersensitivity reactions to LUTATHERA are not rechallenged

Referring Medical Oncology Practice

AFTER all doses of LUTATHERA are completed^{1,2}

- Long-acting octreotide 30 mg IM should continue every 4 weeks until disease progression or for 18 months following treatment initiation at the discretion of the physician
- Patients are closely monitored for disease progression on an SSA, regardless of the presence of symptoms

Have you confirmed where your patient will receive their long-acting SSA injection, as well as other details, with their treatment center?

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Myelosuppression (continued): Of the 59 patients who developed thrombocytopenia, 68% had platelet recovery to baseline or normal levels. The median time to platelet recovery was 2 months. Fifteen of the 19 patients in whom platelet recovery was not documented had post-nadir platelet counts. Among these 15 patients, 5 improved to grade 1, 9 to grade 2, and 1 to grade 3. Monitor blood cell counts. Withhold dose, reduce dose, or permanently discontinue LUTATHERA based on the severity of myelosuppression.

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LUTATHERA is the FIRST AND ONLY approved radioligand therapy with proven results in a clinical trial of >200 1L* patients³⁻⁵

Advocate for your patients who may have similar characteristics to Alison, a 1L patient with high grade 2/3 GEP-NETs





Alison has been newly diagnosed with NETs after 3 years of navigating symptoms.

Current presentation†:

- Ki-67 index: 11% (grade 2)‡
- Tumor burden: extensive
- Primary tumor site: pancreas

ASAP AGGRESSIVE START

Because of her **aggressive disease**, Alison and her doctor chose to start strong with 1L LUTATHERA

Safety

NETTER-2 is a phase 3, randomized, open-label, active comparator, multicenter study of the efficacy of LUTATHERA with 30 mg octreotide LAR (n=151) vs 60 mg octreotide LAR (n=75) in patients with newly diagnosed, well-differentiated, grade 2/3 advanced SSTR+ GEP-NETs. SSA-naive patients were eligible, as well as patients previously treated with SSAs in the absence of progression. The primary end point of the study was centrally assessed PFS. 4,5,8

*In NETTER-2, 44 patients (19.5%) received prior treatment in the absence of progression, including CAPTEM (1 patient), everolimus (1 patient), and SSAs (42 patients, with the majority receiving 1 or 2 doses).^{5,7}

†SSTR+ with Karnofsky PS of 90.2

[‡]Grade 2 is defined as Ki-67 index of 3% to 20%.²

[§]Defined as the time from randomization to first documented progression (centrally assessed according to RECIST v1.1) or death due to any cause.⁴

1L, first line; CAPTEM, capecitabine and temozolomide; LAR, long-acting release; NETs, neuroendocrine tumors;

PFS, progression-free survival; PS, performance score; RECIST, Response Evaluation Criteria in Solid Tumors.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Secondary Myelodysplastic Syndrome and Leukemia: In NETTER-1, with a median follow-up time of 76 months in the main study, myelodysplastic syndrome (MDS) was reported in 2.3% of patients receiving LUTATHERA with longacting octreotide compared with no patients receiving high-dose long-acting octreotide. In ERASMUS, a phase 2 clinical study, 16 patients (2.0%) developed MDS and 4 (0.5%) developed acute leukemia. The median time to onset was 29 months (range, 9-45 months) for MDS and 55 months (range, 32-125 months) for acute leukemia.

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Please see additional Important Safety Information throughout and full Prescribing Information.





Results: LUTATHERA as 1L therapy* in the NETTER-2 clinical trial^{4,5}



START WITH SUPERIOR EFFICACY VS SSA ALONE

LUTATHERA + SSA demonstrated 3x longer PFS in 1L vs SSA alone^{5,8}

 NETTER-2 primary analysis: mPFS of 22.8 months with LUTATHERA + SSA vs 8.5 months with SSA alone (HR, 0.28 [95% CI, 0.18-0.42]; P<.0001)⁵

START WITH ESTABLISHED SAFETY & PROVEN TOLERABILITY

No new safety signals in NETTER-2^{5,9}

- Most common AEs (≥20%) included: nausea, abdominal pain, and diarrhea⁵
- In NETTER-2, 2% of patients reduced dose and 2% of patients discontinued treatment⁵

Summary of key characteristics seen in NETTER-24,5,7

- ✓ Newly diagnosed (within last 6 months), well-differentiated SSTR+ GEP-NET
- ✓ Karnofsky PS: 90 to 100

- ✓ Ki-67 index: ≥10% to ≤55% (tumor grade 2/3)
- Disease burden: moderate to extensive

Representation of typical patients in NETTER-2; not intended to be exhaustive of all inclusion/exclusion criteria.

By keeping these characteristics in mind, you can help identify appropriate patients ready to START with LUTATHERA

AEs, adverse events; HR, hazard ratio; mPFS, median progression-free survival.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Renal Toxicity: In ERASMUS, 8 patients (<1%) developed renal failure 3 to 36 months following LUTATHERA. Two of these patients had underlying renal impairment or risk factors for renal failure (eg, diabetes or hypertension) and required dialysis. Administer the recommended amino acid solution before, during, and after LUTATHERA to decrease the reabsorption of lutetium Lu 177 dotatate through the proximal tubules and decrease the radiation dose to the kidneys. Advise patients to hydrate and to urinate frequently before, on the day of, and on the day after administration of LUTATHERA. Monitor serum creatinine and calculated creatinine clearance. Withhold dose, reduce dose, or permanently discontinue LUTATHERA based on the severity of renal toxicity.

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LUTATHERA is the first and only approved radioligand therapy with proven results in a pivotal trial of >200 2L patients^{1-3,10}

Advocate for your patients who may have similar characteristics to Sean, a 2L patient with progressing GEP-NETs





Sean received a NET diagnosis 2 years ago. He started initial treatment with SSA therapy but recently started progressing and is looking for the right next step.

Current presentation*:

- Ki-67 index: 3% (grade 1)†
- Tumor burden: low
- Primary tumor site: ileum



Immediately after **SSA progression**,‡Sean and his doctor decided on 2L LUTATHERA

NETTER-1 was a pivotal, phase 3, randomized, multicenter, open-label study of LUTATHERA with 30 mg octreotide LAR (n=116) vs 60 mg octreotide LAR (n=113) in patients with locally advanced, inoperable, or metastatic SSTR+ GEP-NETs. The primary end point of the study was centrally assessed PFS. 1-3,5

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Renal Toxicity (continued): Patients with baseline renal impairment may be at increased risk of toxicity due to increased radiation exposure; perform more frequent assessments of renal function in patients with baseline mild or moderate impairment. LUTATHERA has not been studied in patients with baseline severe renal impairment (creatinine clearance <30 mL/min) or those with end-stage renal disease.

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^{*}SSTR+ with Karnofsky PS of 90.2

[†]Grade 1 is defined as a Ki-67 index <3%.²

[‡]After multiple progression events, eligibility for LUTATHERA may become limited.

[§]Defined as the time from randomization to first documented progression (centrally assessed according to RECIST v1.1) or death due to any cause.⁴ 2L, second line.

Results: LUTATHERA as 2L therapy for patients after SSA progression^{1,2}



~3x longer PFS in patients after progression on an SSA1,2,8

- In a long-term post hoc final analysis (centrally assessed), mPFS was 28.4 months with LUTATHERA + SSA (95% CI, 28.4-NE) vs 8.5 months with SSA alone (HR, 0.21 [95% CI, 0.14-0.33]; P<.0001)⁸
- In a post hoc final analysis by investigators, mPFS was 25.0 months with LUTATHERA + SSA vs 8.5 months with SSA alone (HR, 0.30 [95% CI, 0.21-0.44])⁸
- The updated PFS analyses are based on post hoc assessments conducted after the prespecified primary analysis and are observational only. They were not powered for statistical significance and the results should be interpreted with caution

NETTER-1 primary analysis: Statistically significant improvement in PFS (primary end point)

- Primary analysis: mPFS was not reached with LUTATHERA + SSA (95% CI, 18.4-NE) vs 8.5 months with SSA alone (95% CI, 6.0-9.1)^{1,2,*}
- No new safety signals were reported in the 5-year long-term follow-up for NETTER-19.1
- Most common AEs (≥20%) included: nausea, abdominal pain, diarrhea, vomiting, fatigue, thrombocytopenia, musculoskeletal pain, and decreased appetite^{1,2}

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• **Hepatotoxicity:** In ERASMUS, 2 patients (<1%) were reported to have hepatic tumor hemorrhage, edema, or necrosis, with 1 patient experiencing intrahepatic congestion and cholestasis. Patients with hepatic metastasis may be at increased risk of hepatotoxicity due to radiation exposure. Monitor transaminases, bilirubin, serum albumin, and the international normalized ratio during treatment. Withhold dose, reduce dose, or permanently discontinue LUTATHERA based on the severity of hepatotoxicity.

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LUTATHERA*
(lutetium Lu 177 dotatate)
injection for intravenous use



^{*}The primary PFS analysis data cutoff was July 24, 2015. Median duration of follow-up was 14 months.^{1,2}
†Cutoff date for final analysis was January 18, 2021.⁸
NE, not evaluable.

The dosing regimen for LUTATHERA remains the same, regardless of patient type¹

The defined 4-dose LUTATHERA regimen is available at treatment centers nationwide



^aAdminister long-acting octreotide 30 mg IM between 4 to 24 hours after each dose of LUTATHERA. Do not administer long-acting octreotide within 4 weeks prior to each subsequent dose of LUTATHERA. The interval between infusions may be extended up to 16 weeks in the case of a dose modification due to an adverse reaction. Permanently discontinue LUTATHERA in patients who experience grade 3/4 hypersensitivity reactions. Please see the Prescribing Information for additional information on dose modifications.¹

During treatment, long-acting octreotide 30 mg IM will be administered between 4 to 24 hours after each dose of LUTATHERA¹

- LUTATHERA dosage should be modified based on hematologic, renal, hepatic, hypersensitivity, or other adverse reactions (see full Prescribing Information)¹
- For reduced dose administration instructions, refer to section 2.5 (Preparation and Administration) of the full Prescribing Information

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Hypersensitivity Reactions: Hypersensitivity reactions, including angioedema, occurred in patients treated with LUTATHERA. Monitor patients closely for signs and symptoms of hypersensitivity reactions, including anaphylaxis, during and following LUTATHERA administration for a minimum of 2 hours in a setting in which cardiopulmonary resuscitation medication and equipment are available.

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^bContinue long-acting octreotide 30 mg IM every 4 weeks after completing LUTATHERA until disease progression or for 18 months following treatment initiation at the discretion of the physician.¹

Dosing regimen

Before each dose of LUTATHERA¹

LONG-ACTING SSAs Must be withheld at least 4 weeks

SHORT-ACTING SSAs Must be withheld at least 24 hours

ANTIEMETICS Premedication with antiemetics should be administered

prior to the start of the amino acid solution infusion

AMINO ACID INFUSION START 30 minutes before and CONTINUE during LUTATHERA

infusion and for at least 3 hours after

TIMING Time for the actual LUTATHERA infusion ranges from

30 to 40 minutes depending on the method of administration

See the LUTATHERA Prescribing Information for additional

infusion protocol

88% of patients completed all 4 doses of LUTATHERA in NETTER-2 and 77% of patients completed all 4 doses of LUTATHERA in NETTER-1^{5,10}

IMPORTANT SAFETY INFORMATION (continued) **WARNINGS AND PRECAUTIONS** (continued)

- Hypersensitivity Reactions (continued): Discontinue the infusion upon the first observation of any signs or symptoms consistent with a severe hypersensitivity reaction and initiate appropriate therapy. Premedicate patients with a history of grade 1/2 hypersensitivity reactions to LUTATHERA before subsequent doses. Permanently discontinue LUTATHERA in patients who experience grade 3/4 hypersensitivity reactions.
- Neuroendocrine Hormonal Crisis: Neuroendocrine hormonal crises, manifesting with flushing, diarrhea, bronchospasm, and hypotension, occurred in <1% of patients in ERASMUS and typically occurred during or within 24 hours following the initial LUTATHERA dose.

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LUTATHERA*
(lutetium Lu 177 dotatate)
injection for intravenous use



1L safety and long-term safety data in 2L

Safety in NETTER-2 was consistent with the established safety demonstrated in NETTER-1

- The most common adverse events (≥20% in either arm) were nausea (27% vs 18%), diarrhea (26% vs 34%), and abdominal pain (18% vs 27%) for LUTATHERA + SSA vs SSA alone, respectively⁵
- The most common grade 3/4 adverse events (>3% in either arm) were lymphocyte count decreased (5% vs 0%), GGT increased (5% vs 3%), small intestinal obstruction (3% vs 0%), and abdominal pain (3% vs 4%) for LUTATHERA + SSA vs SSA alone, respectively⁵
- 2% of patients needed a reduced dose and 5% discontinued treatment with LUTATHERA due to AEs⁵

Adverse Events	During the long-term follow-up, only serious adverse events (SAEs) deemed related to treatment with LUTATHERA and AEs of special interest (hematotoxicity, cardiovascular events, and nephrotoxicity, regardless of causality) in the LUTATHERA arm were reported ⁹	
Grade ≥3 Treatment-Related SAEs During the Entire Study	7 (6%) of 111 patients treated in the LUTATHERA arm ⁹	
Incidence of Treatment-Related SAEs During the Long-Term Follow-Up Period	3 (3%) of 111 patients treated with LUTATHERA ⁹ — 2 (1.8%) patients experienced at least 1 grade ≥3 SAE (1 grade 5 MDS event) ⁹ — 1 (0.9%) patient experienced an SAE leading to study discontinuation ⁹	
MDS or Acute Leukemia	 No new cases were reported during long-term follow-up⁹ MDS incidence from the Prescribing Information for LUTATHERA: In NETTER-1, with a median follow-up time of 76 months in the main study, MDS was reported in 2.3% of patients receiving LUTATHERA with long-acting octreotide compared with no patients receiving high-dose, long-acting octreotide^{1,9} In ERASMUS, 16 patients (2.0%) developed MDS and 4 (0.5%) developed acute leukemia. The median time to onset was 29 months (range, 9-45 months) for MDS and 55 months (range, 32-125 months) for acute leukemia^{1,a} 	
Diffuse Large B-Cell Lymphoma	One patient developed diffuse large B-cell lymphoma during long-term follow-up that was deemed unrelated to treatment with LUTATHERA9	
Nephrotoxicity of Grade ≥3, Regardless of Causality	Reported in 6 (5%) of 111 patients in the LUTATHERA arm and 4 (4%) of 112 patients in the control arm during the study ⁹	

^aERASMUS study design: Retrospective safety data are available from 1214 patients in ERASMUS, an international, single-institution, single-arm, open-label trial of patients with SSTR+ tumors (neuroendocrine and other primaries). The median duration of follow-up was >4 years.¹

GGT, gamma-glutamyl transferase; MDS, myelodysplastic syndrome.

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Dosing modifications

LUTATHERA dosing may require modification for patients who experience adverse reactions

See more details regarding adverse reactions in the LUTATHERA full Prescribing Information.

Adverse Reaction ¹	Severity of Adverse Reaction ^{1,a}	Dose Modification ¹
Thrombocytopenia	Grade 2, 3, or 4	Withhold dose until complete or partial resolution (grade 0 to 1). Resume LUTATHERA at 3.7 GBq (100 mCi) in patients with complete or partial resolution. If reduced dose does not result in grade 2, 3, or 4 thrombocytopenia, administer LUTATHERA at 7.4 GBq (200 mCi) for next dose. Permanently discontinue LUTATHERA for grade 2 or higher thrombocytopenia requiring a treatment delay of 16 weeks or longer.
	Recurrent grade 2, 3, or 4	Permanently discontinue LUTATHERA.
Anemia and Neutropenia	First occurrence of grade 3 or 4	Withhold dose until complete or partial resolution (grade 0, 1, or 2). Resume LUTATHERA at 3.7 GBq (100 mCi) in patients with complete or partial resolution. If reduced dose does not result in grade 3 or 4 anemia or neutropenia, administer LUTATHERA at 7.4 GBq (200 mCi) as next dose. Permanently discontinue LUTATHERA for grade 3 or higher anemia or neutropenia requiring a dosing interval beyond 16 weeks.
	Recurrent grade 3 or 4	Permanently discontinue LUTATHERA.
Renal Toxicity	First occurrence of: • Creatinine clearance less than 40 mL/min; calculated using Cockcroft-Gault formula with actual body weight, or • 40% increase from baseline serum creatinine, or • 40% decrease from baseline creatinine clearance; calculated using Cockcroft-Gault formula with actual body weight	Withhold dose until resolution or return to baseline. Resume LUTATHERA at 3.7 GBq (100 mCi) in patients with resolution or return to baseline. If reduced dose does not result in renal toxicity, administer LUTATHERA at 7.4 GBq (200 mCi) as next dose. Permanently discontinue LUTATHERA for renal toxicity requiring a dosing interval beyond 16 weeks.
	Recurrent renal toxicity	Permanently discontinue LUTATHERA.

^aGrading of severity is defined in the most current National Cancer Institute CTCAE Version 4.03. CTCAE, Common Terminology Criteria for Adverse Events; GBq, gigabecquerel; mCi, millicurie.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Neuroendocrine Hormonal Crisis (continued): Two (<1%) patients were reported to have hypercalcemia.

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12 Please see additional Important Safety Information throughout and full Prescribing Information.



Patient Information



Dosing modifications (continued)

Adverse Reaction ¹	Severity of Adverse Reaction ^{1,a}	Dose Modification ¹
Hepatotoxicity	 First occurrence of: Bilirubinemia greater than 3 times the upper limit of normal (grade 3 or 4), or Serum albumin less than 30 g/L with international normalized ratio (INR) >1.5 	Withhold dose until resolution or return to baseline. Resume LUTATHERA at 3.7 GBq (100 mCi) in patients with resolution or return to baseline. If reduced LUTATHERA dose does not result in hepatotoxicity, administer LUTATHERA at 7.4 GBq (200 mCi) as next dose. Permanently discontinue LUTATHERA for hepatotoxicity requiring a dosing interval beyond 16 weeks.
Hypersensitivity Reactions ^b	Recurrent hepatotoxicity First occurrence of grade 3 or 4	Permanently discontinue LUTATHERA. Permanently discontinue LUTATHERA.
Any Other Adverse Reactions ^c	First occurrence of grade 3 or 4	Withhold dose until complete or partial resolution (grade 0 to 2). Resume LUTATHERA at 3.7 GBq (100 mCi) in patients with complete or partial resolution. If reduced dose does not result in grade 3 or 4 toxicity, administer LUTATHERA at 7.4 GBq (200 mCi) as next dose. Permanently discontinue LUTATHERA for grade 3 or higher adverse reactions requiring a dosing interval beyond 16 weeks.
	Recurrent grade 3 or 4	Permanently discontinue LUTATHERA.

^aGrading of severity is defined in the most current National Cancer Institute CTCAE Version 4.03.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

- **Neuroendocrine Hormonal Crisis (continued):** Monitor patients for flushing, diarrhea, hypotension, bronchoconstriction, or other signs and symptoms of tumor-related hormonal release. Administer intravenous somatostatin analogues, fluids, corticosteroids, and electrolytes as indicated.
- Embryo-Fetal Toxicity: LUTATHERA can cause fetal harm when administered to a pregnant woman. Verify the pregnancy status of females of reproductive potential prior to initiating LUTATHERA.

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^bIncluding allergic reaction and anaphylaxis.

^cNo dose modification required for hematological toxicities of grade 3 or grade 4 solely due to lymphopenia.

Patient concerns and how to address them

Below are a few treatment journey considerations you can discuss with your patients to put them at ease and educate them on next steps.

Eligibility for LUTATHERA

You might be eligible for LUTATHERA if you have an SSTR+ foregut, midgut, or hindgut GEP-NET and your oncologist has considered your specific case appropriate for LUTATHERA treatment. Your health care team may ask for additional tests to confirm you are eligible before starting treatment.

LUTATHERA and radiation

LUTATHERA uses targeted radiation to destroy SSTR+ GEP-NET cells. 1 Your treatment center will provide radiation safety recommendations; they will let you go home when the radiation levels are safe for you and the people regularly around you.

LUTATHERA and side effects

LUTATHERA may cause side effects. Some can be serious, and your treatment may need to be adjusted or stopped, so please talk to a health care professional if you experience any. In clinical trials, the most common grade 3/4 (severe) adverse reactions with LUTATHERA included 1,5:

- Decreased blood cell counts
- Nausea
- Increased liver enzymes
- Vomiting
- Increased blood glucose
- Decreased blood potassium levels
- Small intestinal obstruction

There are other possible side effects and safety considerations when it comes to LUTATHERA. For more information, talk to a health care professional.

You are encouraged to report negative side effects of prescription drugs to the FDA.

Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

Dosing and treatment centers

Once your oncologist has confirmed you are ready to begin LUTATHERA, you will go to a treatment center to receive it. You and your health care team can work together to find the nearest treatment centers online.

At the treatment center, you will be given 2 medicines before each LUTATHERA infusion. The first is a medication intended to help with vomiting or an upset stomach that you may experience because of the treatment; the second is an IV sterile amino acid solution to help protect your kidneys.1

You may receive LUTATHERA up to 3 more times after your first infusion. These doses will be between 8 and 16 weeks apart, depending on how you tolerate the medication. Your oncologist will decide how many doses, and how long between each dose, are right for you.1

Throughout your treatment journey, you will have tests to check how your body is responding to LUTATHERA treatment. You will receive long-acting octreotide on treatment days and afterward, depending on your oncologist's instructions.1

IMPORTANT SAFETY INFORMATION (continued) **WARNINGS AND PRECAUTIONS (continued)**

• Embryo-Fetal Toxicity (continued): Advise pregnant women of the potential risk to a fetus.

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Radiation guidelines for patients

Treatment safety guidelines for HCPs: ALARA (As Low As Reasonably Achievable)

Following the principles of ALARA can help minimize radiation exposure. These principles include avoiding unnecessary exposure to radiation by using 3 protective measures¹¹:



Minimize the time spent near radioligand therapy¹¹



Maximize the distance from radioligand therapy¹¹



Use appropriate shielding from radioligand therapy¹¹

Posttreatment patient safety guidelines (NANETS/SNMMI consensus and Mayo Clinic recommendations)

Your patients will receive more details from the treatment center, but here are some frequently discussed topics regarding posttreatment LUTATHERA radiation precautions.



Using the toilet

For at least 3 days, patients should use the toilet in a seated position (even for men) and flush the toilet twice after use.⁶



Sleeping

For at least 3 days, patients should sleep in a separate bed and avoid intimate contact.⁶



Showering and personal hygiene

For at least 7 days, patients should shower daily. For at least 3 days, patients should use separate towels and washcloths and wash laundry separately from the rest of their household.^{6,12}



Interacting with others

For at least 3 days, patients should use a general distance guideline of no closer than 3 feet for no more than 1 hour per day. They should try to maintain a distance of 6 feet from others and minimize use of public transportation and public facilities.⁶

For more specific guidance, consult your patient's treatment center

HCPs, health care professionals; NANETS, North American Neuroendocrine Tumor Society; SNMMI, Society of Nuclear Medicine and Molecular Imaging.

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• Embryo-Fetal Toxicity (continued): Advise females of reproductive potential to use effective contraception during treatment with LUTATHERA and for 7 months after the last dose. Advise males with female partners of reproductive potential to use effective contraception during treatment with LUTATHERA and for 4 months after the last dose.

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Radiation guidelines for HCPs and caregivers

Radiation exposures to the care team and caregivers were within ICRP limits of 20 mSv per year^{13,14,*}

When discussing treatment day and onward, these reminders can help prepare your patients for LUTATHERA. Patients will receive additional specific details from the treatment facility.

Exposure to nurses was similar to that of a flight crew on regular round-trip flights from Los Angeles to Honolulu^{13,15}

Mean whole-body radiation exposures per treatment day: $6.8 \mu \text{Sv}$ (nuclear medicine technologist); $33.2 \mu \text{Sv}$ (nurse)¹³

Exposure to caregivers was similar to that of a chest x-ray^{13,16}

Mean total exposure during the day of therapy and at home for up to 5 days: $90 \mu Sv \text{ (median, } 40 \mu Sv \text{ [range, } 10 \mu Sv \text{-} 470 \mu Sv \text{]})^{13}$



Exposure is 14.5 μSv on a 5.2-hour flight from Los Angeles, California to Honolulu, Hawaii¹⁵



X-ray exposure is 100 μSv¹⁶

Seventy-six patients with progressive, metastatic NETs received 4 cycles of 7.8 GBq of Lutetium 177 at 8-week intervals in an outpatient setting at 1 treatment center. Four patients were treated sequentially on each therapy day in a 4-bed room in the hospital's day procedure unit, with each patient remaining until radiation exposure was below the release limit. Radiation exposures to HCPs and caregivers were monitored by personal dosimeter. Twenty-five carers were provided with electronic dosimeters. In the nearby staff office with a 50% staff occupancy factor, the mean (range) exposure rate measured on 10 different therapy administration days was 1.6 µSv/h (1.3–2.0 µSv/h), and at the nursing station with 100% staff occupancy it was 3.5 µSv/h (2.9–4.0 µSv/h).¹³

*Averaged over a defined period of 5 years, with no single year exceeding 50 mSv. 14 μ Sv, microsievert; ICRP, International Commission on Radiological Protection; mSv, millisievert.

Patients are discharged from the treatment center only when radiation exposure to others does not exceed regulatory thresholds¹⁷

IMPORTANT SAFETY INFORMATION (continued) WARNINGS AND PRECAUTIONS (continued)

• **Risk of Infertility:** LUTATHERA may cause infertility in males and females. Radiation absorbed by testes and ovaries from the recommended cumulative LUTATHERA dose falls within the range in which temporary or permanent infertility can be expected following external beam radiotherapy.

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Patient management

Patient tips for treatment day and follow-up

When discussing treatment day and onward, these reminders can help prepare your patients for LUTATHERA. Patients will receive additional, specific details or directions from their treatment facility.



Infusion day medications

- Any required antinausea therapy will be given on the same day, before both the amino acid solution and LUTATHERA^{1,6}
- Amino acid infusion will be started on the same day 30 minutes before—and last for at least 3 hours after—the LUTATHERA infusion¹



Staying hydrated

• Patients should drink liquids and urinate frequently before, on the day of, and on the day after administration of LUTATHERA¹



Breastfeeding

 Patients should not breastfeed during treatment with LUTATHERA and for 2.5 months after the last infusion of LUTATHERA¹



Using birth control

- Patients should use effective birth control during treatment with LUTATHERA and for¹:
- 7 months after the last dose if the patient is able to get pregnant
- 4 months after the last dose if the patient has a partner who is able to get pregnant

IMPORTANT SAFETY INFORMATION (continued) ADVERSE REACTIONS

The most common grade 3/4 adverse reactions (≥4% with a higher incidence in the LUTATHERA arm) observed in NETTER-1 were lymphopenia (44%), increased gamma-glutamyl transferase (20%), vomiting (7%), nausea (5%), increased aspartate aminotransferase (5%), increased alanine aminotransferase (4%), hyperglycemia (4%), and hypokalemia (4%).

Visit www.LUTATHERA-hcp.com

17 Please see additional Important Safety Information throughout and full Prescribing Information.





Safety

LUTATHERA treatment sites are available nationwide



There are over **440 active**LUTATHERA treatment sites across the United States^{18,*}

*As of June 2025.

Visit www.LUTATHERA-treatmentsites.com to find treatment sites near you

Search by name of practice, city, state, or ZIP code. Please check regularly, as this list is periodically updated with newly certified locations.

IMPORTANT SAFETY INFORMATION (continued) ADVERSE REACTIONS (continued)

In ERASMUS, the following serious adverse reactions have been observed with a median follow-up time of >4 years after treatment with LUTATHERA: myelodysplastic syndrome (2%), acute leukemia (1%), renal failure (2%), hypotension (1%), cardiac failure (2%), myocardial infarction (1%), and neuroendocrine hormonal crisis (1%). Patients should be counseled and monitored in accordance with the LUTATHERA Prescribing Information.

Adverse reactions observed in pediatric patients were similar to those observed in adults treated with LUTATHERA.

DRUG INTERACTIONS

Discontinue long-acting somatostatin analogues at least 4 weeks and short-acting octreotide at least 24 hours prior to each LUTATHERA dose.

Visit www.LUTATHERA-hcp.com

LUTATHERA*
(lutetium Lu 177 dotatate)
injection, for intravenous use



Novartis Patient Support™: A dedicated team for you and your patients

Novartis Patient Support is a comprehensive program designed to help your patients start, stay, and save on LUTATHERA

We provide support throughout your patient's journey with:



Insurance & Reimbursement

Support includes:

- Benefits verification
- Prior authorization requirements
- Appeals support
- Billing, coding, and reimbursement education



Financial Support

Eligible patients may **pay as little as \$0*** per dose. Enrollment is required to determine eligibility and participation.



Acquisition

Support includes:

- New treating site onboarding and access to ordering platform
- Real-time delivery tracking



Patient Education

Live 1-on-1 support is available for patients starting treatment. Our Patient Navigators can help answer the most common treatment questions.

Ask your Novartis Oncology Specialist to connect you with your local Access & Reimbursement Representative to help answer detailed questions on payer coverage, patient affordability, purchasing, pricing, and reimbursement.

Visit www.LUTATHERA-hcp.com/novartis-patient-support for more information

Visit www.LUTATHERA-hcp.com





^{*}Limitations apply. Valid only for those patients with commercial insurance. Not valid under Medicare or any other federal or state program. Offer subject to a maximum benefit per course of treatment. See complete Terms and Conditions in the Start Form for details.

Community support for your patients

Are your patients looking to learn more about GEP-NETs on their own?

The following support networks may help patients with general information and social support.

The Carcinoid Cancer Foundation (CCF) www.carcinoid.org

The Neuroendocrine Cancer Awareness Network (NCAN)

3074 Brookchase Boulevard Fort Mill, SC 29707 **1-866-850-9555**

info@netcancerawareness.org www.netcancerawareness.org

The Healing NET Foundation

415 Spence Lane Nashville, TN 37210 1-615-369-6463 info@thehealingnet.org www.thehealingnet.org

Neuroendocrine Tumor Research Foundation (NETRF)

100 Hancock Street, Third Floor Quincy, MA 02171 1-617-946-1780 info@netrf.org www.netrf.org

Neuroendocrine Cancer Foundation (NCF)

PO Box 370466 Denver, CO 80237 info@ncf.net www.ncf.net

Northern California CarciNET Community (NorCal CarciNET)

info@norcalcarcinet.org www.norcalcarcinet.org

These are provided for informational purposes only. This is not intended to be a recommendation or endorsement of any organization.

References: 1. Lutathera. Prescribing information. Novartis Pharmaceuticals Corp. 2. Strosberg J, El-Haddad G, Wolin E, et al; for the NETTER-1 trial investigators. Phase 3 trial of ¹⁷⁷Lu-dotatate for midgut neuroendocrine tumors. N Engl J Med. 2017;376(2):125-135. 3. US Food and Drug Administration. FDA approves lutetium Lu 177 dotatate for treatment of GEP-NETS. Updated January 26, 2018. Accessed June 1, 2025. https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-lutetium-lu-177-dotatate-treatment-gep-nets 4. Data on file. Novartis Pharmaceuticals Corp; 2021. **5.** Singh S, Halperin D, Myrehaug S, et al. [177Lu]Lu-DOTA-TATE plus long-acting octreotide versus high-dose long-acting octreotide for the treatment of newly diagnosed, advanced grade 2-3, well-differentiated, gastroenteropancreatic neuroendocrine tumours (NETTER-2): an open-label, randomised, phase 3 study. *Lancet*. 2024;403(10446):2807-2817. **6**. Hope TA, Abbott A, Colucci K, et al. NANETS/SNMMI procedure standard for somatostatin receptor–based peptide receptor radionuclide therapy with ¹⁷⁷Lu-DOTATATE. J Nucl Med. 2019;60(7):937-943. **7.** Data on file. CAAA601A22301 Clinical Study Report. Novartis Pharmaceuticals Corp; 2024. 8. Kunz P, Benson A, Bodei L, et al. The phase 3 NETTER-1 study of ¹⁷⁷Lu-DOTATATE in patients with midgut neuroendocrine tumours: updated progression-free survival analyses. Poster presented at: North American Neuroendocrine Tumor Society (NANETS) Annual Multidisciplinary Medical Symposium; November 4-6, 2021; Chicago, IL. **9.** Strosberg JR, Srirajaskanthan R, El-Haddad G, et al. Symptom diaries of patients with midgut neuroendocrine tumors treated with ¹⁷⁷Lu-DOTATATE. *J Nucl Med*. 2021;62(12):1712-1718. **10.** Strosberg J, El-Haddad G, Wolin E, et al; for the NETTER-1 trial investigators. Phase 3 trial of ¹⁷⁷Lu-dotatate for midgut neuroendocrine tumors. N Engl J Med. 2017;376(2) (suppl):125-135. 11. US Centers for Disease Control and Prevention. Guidelines for ALARA—as low as reasonably achievable. Updated February 26, 2024. Accessed August 9, 2024. https://www.cdc.gov/radiation-health/safety/alara.html 12. Kendi ÁT, Halfdanarson TR, Packard A, Dundar A, Subramaniam RM. Therapy with ¹⁷⁷Lu-DOTATATE: clinical implementation and impact on care of patients with neuroendocrine tumors. *AJR Am J Roentgenol*. 2019;213(2):309-317. **13.** Calais PJ, Turner JH. Radiation safety of outpatient ¹⁷⁷Lu-octreotate radiopeptide therapy of neuroendocrine tumors. Ann Nucl Med. 2014;28(6):531-539. 14. US Department of Health and Human Services: Radiation Emergency Medical Management. International Commission on Radiological Protection (ICRP) guidance for occupational exposure. Updated May 3, 2024. Accessed January 28, 2025. https://remm.hhs.gov/ICRP_guidelines.htm 15. Friedberg W, Copeland K, Duke FE, O'Brien K III, Darden EB Jr. Radiation exposure during air travel: guidance provided by the Federal Aviation Administration for air carrier crews. *Health Phys*. 2000;79(5):591-595. 16. United States Environmental Protection Agency. Radiation sources and doses. Updated November 22, 2024. Accessed February 21, 2025. https://www.epa.gov/radiation/radiation-sources-and-doses 17. Siegel JA. Guide for Diagnostic Nuclear Medicine. Society of Nuclear Medicine; 2001. Accessed August 30, 2024. https://www.nrc.gov/docs/ML0222/ML022250828.pdf 18. Data on file. LUTATHERA ROME extract. Novartis Pharmaceuticals Corp; June 2025. 19. Data on file. LUTATHERA ROME extract. Novartis Pharmaceuticals Corp; May 2025. 20. Data on file. IQVIA Pluvicto & Lutathera Reimbursement Landscape. Novartis Pharmaceuticals Corp; 2025.

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For patients in your care with SSTR+ GEP-NETs, 1,2,4 find out which of them are ready to

START STRONG WITH LUTATHERA



There are **OVET 18,000** patients treated with LUTATHERA to date^{19,*}



Defined **4-dose** regimen, regardless of patient type and available nationwide¹



Over 440 treatment sites available to patients across the United States^{18,†}



85% of covered patients paid \$0 out of pocket per infusion^{20,‡}

Help identify which of your patients could be appropriate candidates for treatment with LUTATHERA



IMPORTANT SAFETY INFORMATION (continued) SPECIFIC POPULATIONS

Lactation: Advise patients not to breastfeed during LUTATHERA treatment.

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Please see additional Important Safety Information throughout and full Prescribing Information.





^{*}Internal data tracking as of May 2025.

[†]As of June 2025.

[†]A review of claims data between Q1 2023 and Q2 2024 indicated that approximately 85% of patients paid \$0 for the product. For remaining patients, the out-of-pocket cost for the product varies and may be as high as the total cost of the product. Additional out-of-pocket costs may be incurred related to treatment, including, but not limited to, administration fees.