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SUNINITIM
MALATE CAPSULES

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SUNINITIM MALATE CAPSULES safely and effectively. See full prescribing information for SUNINITIM MALATE CAPSULES.

SUNINITIM malate capsules, for oral use

Initial U.S. Approval: 2006

WARNING: HEPATOTOXICITY

See full prescribing information for complete hazard warning.

Hepatotoxicity may be severe, and in some cases fatal. Monitor hepatic function and interrupt, dose reduce, or discontinue suninitim as recommended (see Warnings and Precautions (5.1)).

RECENT MAJOR CHANGES

Table with 2 columns: Change and Date. Includes updates to Dosage and Administration, Warnings and Precautions, and Indications and Usage.

INDICATIONS AND USAGE

Suninitim malate capsules are a kinase inhibitor indicated for: treatment of adult patients with gastroesophageal stromal tumor (GIST) after disease progression or intolerance to imatinib mesylate; treatment of adult patients with advanced renal cell carcinoma (RCC); treatment of adult patients with advanced pancreatic neuroendocrine tumors (pNET); treatment of adult patients with high risk of recurrent RCC following nephrectomy; treatment of progressive, well-differentiated pancreatic neuroendocrine tumors (pNET) in adult patients with unresectable locally advanced or metastatic disease.

ADVERSE ADMINISTRATION

See full prescribing information for complete adverse administration information.

ADVERSE REACTIONS

See full prescribing information for complete adverse reactions information.

DRUG INTERACTIONS

See full prescribing information for complete drug interactions information.

USE IN SPECIFIC POPULATIONS

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WARNINGS AND PRECAUTIONS

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Cardiovascular Events: Myocardial ischemia, myocardial infarction, heart failure, cardiomyopathy, and decreased left ventricular ejection fraction (LVEF) to below the lower limit of normal including death have occurred. Monitor for signs and symptoms of congestive heart failure and consider monitoring LVEF at baseline and periodically during treatment.

QT Interval Prolongation and Torsades de Pointes: Monitor patients at higher risk for developing QT interval prolongation. Consider monitoring of electrocardiograms and electrolytes (5.3).

Hypertension: Monitor blood pressure at baseline and as clinically indicated. Initiate and/or adjust antihypertensive therapy as appropriate. Interrupt suninitim for Grade 3 hypertension until resolution to Grade 2 or baseline, then resume suninitim at a reduced dose.

Hemorrhagic Events: Tumor-related hemorrhage and vitreous hemorrhage (both with fatal events) have occurred. Perform serial complete blood counts and physical examinations and interrupt suninitim for Grade 3 or 4 hemorrhagic events until resolution to Grade 2 or baseline, then resume at a reduced dose, discontinue if no resolution (5.5).

Tumor Lysis Syndrome (TLS): TLS (some fatal) has been reported primarily in patients with RCC and GIST. Monitor these patients and treat as clinically indicated (5.8).

Thrombotic Microangiopathy (TMA): TMA, including thrombotic thrombocytopenic purpura and hemolytic uremic syndrome, sometimes leading to renal failure or a fatal outcome, has been reported. Discontinue suninitim for TMA (5.3).

Proteinuria: Renal failure or a fatal outcome has occurred. Monitor urine protein. Interrupt treatment for 24-hour urine protein of 3 or more grams. Discontinue for repeat episodes of 24-hour urine protein of 3 or more grams despite dose reductions or nephrotic syndrome (5.8).

Dermatologic Toxicities: Necrotizing fasciitis, cytopenia multiforme, Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis (TEN) (some fatal) have occurred. Discontinue suninitim for these events (5.9).

Reversible Posterior Leukoencephalopathy Syndrome (RPLS): RPLS (some fatal) has been reported. Monitor for signs and symptoms of RPLS. Withhold suninitim until resolution (5.10).

Thyroid Dysfunction: Monitor thyroid function at baseline and as clinically indicated. Initiate and/or adjust antihypertensive therapy as appropriate for thyroid dysfunction as appropriate (5.11).

Osteoporosis of the Jaw (OJAW): Withhold suninitim for at least 3 weeks prior to invasive dental procedure and development of OJAW until complete resolution (5.13).

Impaired Wound Healing: Withhold suninitim for at least 3 weeks prior to elective surgery. Do not administer for at least 2 weeks following major surgery and until adequate wound healing. The safety of resumption of suninitim after resolution of wound healing complications has not been established (5.14).

Embryo-Fetal Toxicity: Can cause fetal harm. Advise patients of potential risk to a fetus and to use effective contraception (5.15, 8.1, 8.3).

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Table 4 summarizes the laboratory abnormalities in Study 1.

Table 4. Laboratory Abnormalities Reported in ≥10% of GIST Patients Who Received Suninitim or Placebo in the Double-Blind Treatment Phase 1 in Study 1

Table with 5 columns: Laboratory Abnormality, Suninitim (N=282), Placebo (N=102). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 5 summarizes the adverse reactions in Study 3.

Table 5. Adverse Reactions Reported in ≥10% of Patients With RCC Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Adverse Reaction, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Gastrointestinal, and Endocrine abnormalities.

Table 6 summarizes the laboratory abnormalities in Study 3.

Table 6. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 7 summarizes the laboratory abnormalities in Study 3.

Table 7. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 8 summarizes the laboratory abnormalities in Study 3.

Table 8. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 9 summarizes the laboratory abnormalities in Study 3.

Table 9. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 10 summarizes the laboratory abnormalities in Study 3.

Table 10. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 11 summarizes the laboratory abnormalities in Study 3.

Table 11. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 12 summarizes the laboratory abnormalities in Study 3.

Table 12. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 13 summarizes the laboratory abnormalities in Study 3.

Table 13. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.

Table 14 summarizes the laboratory abnormalities in Study 3.

Table 14. Laboratory Abnormalities Reported in ≥10% of RCC Patients Who Received Suninitim or Interferon Alfa in Study 3

Table with 5 columns: Laboratory Abnormality, Suninitim (N=375), Interferon Alfa (N=366). Rows include Hematology, Renal/Urinary, Gastrointestinal, and Endocrine abnormalities.



MEDICATION GUIDE

Suninitim Malate (soo ni' ni nib mal' ate) Capsules

Rx only

What is the most important information I should know about suninitim malate capsules?

Suninitim malate capsules can cause serious side effects including:

- Severe liver problems, that can lead to death. Tell your healthcare provider right away if you develop any of the following signs and symptoms of liver problems during treatment with suninitim malate capsules: itching, yellow eyes or skin, dark urine, pain or discomfort in the right upper stomach area.

Your healthcare provider should do blood tests to check your liver function before you start taking and during treatment with suninitim malate capsules. Your healthcare provider may temporarily stop, reduce your dose, or permanently stop treatment with suninitim malate capsules if you develop liver problems.

See "What are the possible side effects of suninitim malate capsules?" for more information about side effects.

What are suninitim malate capsules?

Suninitim malate capsules are prescription medicine used to treat:

- a rare cancer of the stomach, bowel, or esophagus called gastrointestinal stromal tumor (GIST) and when: you have taken the medicine imatinib mesylate and it did not stop the cancer from growing, or you cannot take imatinib mesylate, advanced kidney cancer (advanced renal cell carcinoma or RCC), adults with kidney cancer that has not spread (localized), and who are at high risk of RCC coming back again after having kidney surgery, a type of pancreatic cancer called pancreatic neuroendocrine tumors (pNET), that has progressed and cannot be treated with surgery.

It is not known if suninitim malate capsules are safe and effective in children.

Before taking suninitim malate capsules tell your healthcare provider about all of your medical conditions, including if you:

- have any heart problems, have high blood pressure, have thyroid problems, have a history of low blood sugar or diabetes, have kidney function problems (other than cancer), have liver problems, have any bleeding problem, plan to have surgery or have had a recent surgery. You should stop taking suninitim malate capsules at least 3 weeks before planned surgery. See "What are the possible side effects of suninitim malate capsules?"

have seizures

have or had pain in the mouth, teeth or jaw, swelling or sores inside the mouth, numbness or a feeling of heaviness in the jaw, or loosening of a tooth

are pregnant or plan to become pregnant. Suninitim malate capsules can harm your unborn baby.

Females who are able to become pregnant:

- Your healthcare provider should do a pregnancy test before you start treatment with suninitim malate capsules. You should use effective birth control (contraception) during treatment and for at least 4 weeks after your last dose of suninitim malate capsules.

Tell your healthcare provider right away if you become pregnant or think you are pregnant during treatment with suninitim malate capsules.

Males with female partners who are able to become pregnant should use effective birth control (contraception) during treatment and for 7 weeks after your last dose of suninitim malate capsules. Suninitim malate capsules may cause fertility problems in males and females. Tell your healthcare provider if this is a concern for you.

are breastfeeding or plan to breastfeed. Do not breastfeed during treatment with suninitim malate capsules and for at least 4 weeks (1 month) after the last dose.

Tell all of your healthcare providers and dentists that you are taking suninitim malate capsules. They should talk to the healthcare provider who prescribed suninitim malate capsules for you, before you have any surgery, or medical or dental procedure.

Tell your healthcare provider about all the medicines you take, including prescription medicines and over-the-counter medicines, vitamins, and herbal supplements. Using suninitim malate capsules with certain other medicines can cause serious side effects.

You may have an increased risk of severe jawbone problems (osteonecrosis) if you take suninitim malate capsules and a bisphosphonate medicine. Especially tell your healthcare provider if you are taking or have taken an osteoporosis medicine.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

developed an abnormal opening between the stomach and intestine (fistula). Get medical help right away if you get stomach-area (abdominal) pain that does not go away or is severe during treatment with sunitinib malate capsules.

Tumor lysis syndrome (TLS). TLS is caused by the fast breakdown of cancer cells and may lead to death. TLS can cause kidney failure and the need for dialysis treatment, abnormal heart rhythm, seizure, and sometimes death. Your healthcare provider may do blood tests to check you for TLS.

Abnormal changes in the brain (Reversible Posterior Leukoencephalopathy Syndrome (RPLS)). RPLS can cause a collection of symptoms including headache, confusion, and vision loss. Some people who have taken sunitinib malate capsules have developed RPLS that can lead to death.

Thrombotic microangiopathy (TMA) including thrombotic thrombocytopenia purpura (TTP) and hemolytic uremic syndrome (HUS). TMA is a condition that involves injury to the smallest blood vessels, and blood clots that can happen while taking sunitinib malate capsules. TMA is accompanied by a decrease in red cells and cells that are involved with clotting. TMA may harm your body's organs such as the brain and kidneys, and can sometimes lead to death.

Protein in your urine. Some people who have taken sunitinib malate capsules have developed protein in their urine, and in some cases, kidney problems that can lead to death. Your healthcare provider will check you for this problem.

Serious skin and mouth reactions. Treatment with sunitinib malate capsules has caused severe skin reactions that can lead to death, including:

- severe rash with blisters or peeling of the skin.
- painful sores or ulcers on the skin, lips or inside the mouth.
- tissue damage (necrotizing fasciitis).

If you have any signs or symptoms of severe skin reactions, stop taking sunitinib malate capsules and call your healthcare provider or get medical help right away.

Thyroid problems. Your healthcare provider may do tests to check your thyroid function during sunitinib malate capsules treatment. Tell your healthcare provider if you have any of the following signs and symptoms during your treatment with sunitinib malate capsules:

- tiredness that gets worse
- and does not go away
- loss of appetite
- feeling nervous or agitated, tremors
- or sweating
- or nausea or vomiting
- or diarrhea
- fast heart beat
- weight gain or weight loss
- problems with heat
- feeling depressed
- irregular menstrual periods
- or no menstrual periods
- headache
- hair loss

Low blood sugar (hypoglycemia). Low blood sugar can happen with sunitinib malate capsules, and may cause you to become unconscious, or you may need to be hospitalized. Low blood sugar with sunitinib malate capsules may be worse in people who have diabetes and take antidiabetic medicines. Your healthcare provider should check your blood sugar levels regularly during treatment with sunitinib malate capsules and may need to adjust the dose of your antidiabetic medicines. Call your healthcare provider right away if you have any of the following signs or symptoms of low blood sugar during your treatment with sunitinib malate capsules:

- headache
- drowsiness
- weakness
- dizziness
- confusion
- irritability
- hunger
- fast heart beat
- sweating
- feeling jittery

Jawbone problems (osteonecrosis). Severe jawbone problems have happened in some people who take sunitinib malate capsules. Certain risk factors such as taking a bisphosphonate medicine or having dental disease may increase your risk of getting osteonecrosis. Your healthcare provider may tell you to see your dentist before you start taking sunitinib malate capsules. Your healthcare provider may tell you to avoid dental procedures, if possible, during your treatment with sunitinib malate capsules, especially if you are receiving a bisphosphonate medicine into a vein (intravenous). Tell your healthcare provider if you plan to have any dental procedures before or during treatment with sunitinib malate capsules.

Wound healing problems. Wound healing problems have happened in some people who take sunitinib malate capsules. Tell your healthcare provider if you plan to have any surgery before or during treatment with sunitinib malate capsules.

Other side effects of sunitinib malate capsules at least 3 weeks before planned dental procedures.

- Your healthcare provider should tell you when you may start taking sunitinib malate capsules again after dental procedures.

Wound healing problems. Wound healing problems have happened in some people who take sunitinib malate capsules. Tell your healthcare provider if you plan to have any surgery before or during treatment with sunitinib malate capsules.

Other side effects of sunitinib malate capsules at least 3 weeks before planned surgery.

- Your healthcare provider should tell you when you may start taking sunitinib malate capsules again after surgery.

Your healthcare provider may temporarily stop, reduce your dose, or permanently stop treatment with sunitinib malate capsules if you develop serious side effects.

Common side effects of sunitinib malate capsules include:

- tiredness
- weakness
- diarrhea
- pain, swelling or sores inside of your mouth
- nausea
- loss of appetite
- indigestion
- vomiting
- stomach-area (abdominal) pain
- blisters or rash on the palms of your hands and soles of your feet
- high blood pressure
- taste changes
- low platelet counts

The medicine in sunitinib malate capsules is yellow, and it may make your skin look yellow. Your skin and hair may get lighter in color. Sunitinib malate capsules may also cause other skin problems including: dryness, thickness or cracking of the skin.

These are not all of the possible side effects of sunitinib malate capsules. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How do I store sunitinib malate capsules?

- Store sunitinib malate capsules at room temperature, between 68°F to 77°F (20°C to 25°C).

Keep sunitinib malate capsules and all medicines out of the reach of children.

General information about the safe and effective use of sunitinib malate capsules.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use sunitinib malate capsules for a condition for which it was not prescribed. Do not give sunitinib malate capsules to other people, even if they have the same symptoms that you have. It may harm them.

You can ask your healthcare provider or pharmacist for information about sunitinib malate capsules that is written for health professionals.

What are the ingredients in sunitinib malate capsules?

Active ingredient: sunitinib malate

Inactive ingredients: croscarmellose sodium, magnesium stearate, mannitol, povidone (K-30).

Reddish brown gelatin capsule shells: ferric oxide red and titanium dioxide.

Caramel gelatin capsule shells: ferric oxide red, ferric oxide yellow, ferrousulfite oxide and titanium dioxide.

Yellow gelatin capsule shells: ferric oxide yellow and titanium dioxide.

White printing ink: potassium hydroxide, shellac and titanium dioxide.

Black printing ink: ferrousferric oxide, potassium hydroxide and shellac.

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For more information, call 1-800-818-4555.

This Medication Guide has been approved by the U.S. Food and Drug Administration

day(s) for patients on sunitinib and 113 days (range 1 to 614 days) for patients on placebo. Nineteen patients (23%) on sunitinib and 4 patients (5%) on placebo were on study for > 1 year.

Patients who discontinued due to an adverse reaction occurred in 22% in the sunitinib arm. Dose interruptions occurred in 20% and dose reductions occurred in 31% of patients who discontinued in Study 6.

Table 8 summarizes the adverse reactions in Study 6.

Table 8. Adverse Reactions Reported in ≥ 1% of Patients with pNET Who Received Sunitinib and More Commonly Than in Patients Who Received Placebo in Study 6

Adverse Reaction	Sunitinib (N = 83)		pNET		Placebo (N = 82)	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Adverse Reaction						
Any Adverse Reaction	99	54	95	50		
Gastrointestinal						
Stomatitis/oral syndrome [†]	59	5	39	2		
Nausea	45	0	29	1		
Abdominal pain	39	5	34	10		
Vomiting	34	0	31	2		
Dyspepsia	15	0	6	0		
Constitutional						
Asthenia	34	5	27	4		
Fatigue	29	1	11	0		
Weight decreased	19	1	11	0		
Dermatology						
Hair color changes	26	1	1	0		
Hand-foot syndrome	23	6	2	0		
Rash	15	0	11	0		
Dry skin	13	0	11	0		
Cardiac						
Arrhythmia	27	10	5	1		
Hemorrhage/Bleeding						
Bleeding events [‡]	22	0	10	4		
Constipation	21	0	5	0		
Neurology						
Dysgeusia	21	0	5	0		
Headache	18	0	13	1		
Psychiatric						
Insomnia	18	0	12	0		
Neurovascular						
Arthralgia	15	0	6	0		

* Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes stomatitis, oral pain, gingivitis, glossitis, glossopain, mouth ulceration, oral discomfort, oral pain, tongue ulceration, mucosal dryness, mucosal inflammation/dryness.
‡ Includes serious stomatitis, gingival pain, gingivitis, glossitis, glossopain, mouth ulceration, oral discomfort, oral pain, tongue ulceration, mucosal dryness, mucosal inflammation/dryness, abnormal pain, and abdominal pain upper.
§ Includes hemorrhages, hematomas, hematuria, hemoptysis, hemorrhage, melena, and metrorrhagia.

Table 9 summarizes the laboratory abnormalities in Study 6.

Table 9. Laboratory Abnormalities Reported in ≥ 1% of Patients with pNET Who Received Sunitinib in Study 6

Laboratory Abnormality	Sunitinib		pNET		Placebo	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Gastrointestinal						
AST increased	72	5	70	3		
Alkaline phosphatase increased	63	10	70	11		
ALT increased	61	4	55	3		
Total bilirubin increased	37	0	28	4		
Amylase increased	20	4	10	1		
Lipase increased	17	5	11	4		
Hematology						
Neutrophils decreased	71	16	16	0		
Hemoglobin decreased	60	5	15	0		
Platelets decreased	60	5	15	0		
Lymphocytes decreased	56	7	35	4		
Chemistry/Electrolytes						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Sodium decreased	34	0	19	0		
Calcium decreased	34	0	19	0		
Sodium decreased: pulmonary embolism [†]	34	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Phosphorus decreased	22	0	15	0		
Magnesium decreased	19	0	10	0		
Potassium increased	15	0	11	1		

* The abnormality was at least one level from the normal range on 2 consecutive days and 30 to 80% from the baseline value and at least one post-baseline value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes laboratory abnormalities in patients on placebo included creatinine (%), alkaline phosphatase (%), glucose increased (%), and lipase (%).

Table 10 summarizes the laboratory abnormalities in Study 6.

Table 10. Laboratory Abnormalities Reported in ≥ 1% of Patients with pNET Who Received Sunitinib in Study 6

Laboratory Abnormality	Sunitinib		pNET		Placebo	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Gastrointestinal						
AST increased	72	5	70	3		
Alkaline phosphatase increased	63	10	70	11		
ALT increased	61	4	55	3		
Total bilirubin increased	37	0	28	4		
Amylase increased	20	4	10	1		
Lipase increased	17	5	11	4		
Hematology						
Neutrophils decreased	71	16	16	0		
Hemoglobin decreased	60	5	15	0		
Platelets decreased	60	5	15	0		
Lymphocytes decreased	56	7	35	4		
Chemistry/Electrolytes						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Sodium decreased	34	0	19	0		
Calcium decreased	34	0	19	0		
Sodium decreased: pulmonary embolism [†]	34	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Phosphorus decreased	22	0	15	0		
Magnesium decreased	19	0	10	0		
Potassium increased	15	0	11	1		

* The abnormality was at least one level from the normal range on 2 consecutive days and 30 to 80% from the baseline value and at least one post-baseline value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes laboratory abnormalities in patients on placebo included creatinine (%), alkaline phosphatase (%), glucose increased (%), and lipase (%).

Table 11 summarizes the laboratory abnormalities in Study 6.

Table 11. Laboratory Abnormalities Reported in ≥ 1% of Patients with pNET Who Received Sunitinib in Study 6

Laboratory Abnormality	Sunitinib		pNET		Placebo	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Gastrointestinal						
AST increased	72	5	70	3		
Alkaline phosphatase increased	63	10	70	11		
ALT increased	61	4	55	3		
Total bilirubin increased	37	0	28	4		
Amylase increased	20	4	10	1		
Lipase increased	17	5	11	4		
Hematology						
Neutrophils decreased	71	16	16	0		
Hemoglobin decreased	60	5	15	0		
Platelets decreased	60	5	15	0		
Lymphocytes decreased	56	7	35	4		
Chemistry/Electrolytes						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Sodium decreased	34	0	19	0		
Calcium decreased	34	0	19	0		
Sodium decreased: pulmonary embolism [†]	34	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Phosphorus decreased	22	0	15	0		
Magnesium decreased	19	0	10	0		
Potassium increased	15	0	11	1		

* The abnormality was at least one level from the normal range on 2 consecutive days and 30 to 80% from the baseline value and at least one post-baseline value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes laboratory abnormalities in patients on placebo included creatinine (%), alkaline phosphatase (%), glucose increased (%), and lipase (%).

Table 12 summarizes the laboratory abnormalities in Study 6.

Table 12. Laboratory Abnormalities Reported in ≥ 1% of Patients with pNET Who Received Sunitinib in Study 6

Laboratory Abnormality	Sunitinib		pNET		Placebo	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Gastrointestinal						
AST increased	72	5	70	3		
Alkaline phosphatase increased	63	10	70	11		
ALT increased	61	4	55	3		
Total bilirubin increased	37	0	28	4		
Amylase increased	20	4	10	1		
Lipase increased	17	5	11	4		
Hematology						
Neutrophils decreased	71	16	16	0		
Hemoglobin decreased	60	5	15	0		
Platelets decreased	60	5	15	0		
Lymphocytes decreased	56	7	35	4		
Chemistry/Electrolytes						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Sodium decreased	34	0	19	0		
Calcium decreased	34	0	19	0		
Sodium decreased: pulmonary embolism [†]	34	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Phosphorus decreased	22	0	15	0		
Magnesium decreased	19	0	10	0		
Potassium increased	15	0	11	1		

* The abnormality was at least one level from the normal range on 2 consecutive days and 30 to 80% from the baseline value and at least one post-baseline value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes laboratory abnormalities in patients on placebo included creatinine (%), alkaline phosphatase (%), glucose increased (%), and lipase (%).

Table 13 summarizes the laboratory abnormalities in Study 6.

Table 13. Laboratory Abnormalities Reported in ≥ 1% of Patients with pNET Who Received Sunitinib in Study 6

Laboratory Abnormality	Sunitinib		pNET		Placebo	
	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*	All Grades	Grade 3 or 4*
	%	%	%	%	%	%
Gastrointestinal						
AST increased	72	5	70	3		
Alkaline phosphatase increased	63	10	70	11		
ALT increased	61	4	55	3		
Total bilirubin increased	37	0	28	4		
Amylase increased	20	4	10	1		
Lipase increased	17	5	11	4		
Hematology						
Neutrophils decreased	71	16	16	0		
Hemoglobin decreased	60	5	15	0		
Platelets decreased	60	5	15	0		
Lymphocytes decreased	56	7	35	4		
Chemistry/Electrolytes						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Sodium decreased	34	0	19	0		
Calcium decreased	34	0	19	0		
Sodium decreased: pulmonary embolism [†]	34	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Phosphorus decreased	22	0	15	0		
Magnesium decreased	19	0	10	0		
Potassium increased	15	0	11	1		

* The abnormality was at least one level from the normal range on 2 consecutive days and 30 to 80% from the baseline value and at least one post-baseline value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes laboratory abnormalities in patients on placebo included creatinine (%), alkaline phosphatase (%), glucose increased (%), and lipase (%).

Table 14 summarizes the laboratory abnormalities in Study 6.