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SUNINITIB
MALATE CAPSULES

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SUNINITIB MALATE CAPSULES safely and effectively. See full prescribing information for SUNINITIB MALATE CAPSULES.
SUNINITIB 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 suninitib as recommended (see Warnings and Precautions (5.1)).

RECENT MAJOR CHANGES

Dosage and Administration, Dosage Modifications for Adverse Reactions (2.4) 8/2021
Dosage and Administration, Dosage Modification for Drug Interactions (2.5) 8/2021
Warnings and Precautions, Hepatotoxicity (5.1) 8/2021
Warnings and Precautions, Hypertension (5.4) 8/2021
Warnings and Precautions, Hemorrhagic Events and Viscous Perforation (5.5) 8/2021
Warnings and Precautions, Reversible Posterior Leukoencephalopathy Syndrome (RPLS) (5.10) 8/2021
Warnings and Precautions, Hypoglycemia (5.12) 8/2021
Warnings and Precautions, Osteoporosis of the Jaw (OJ) (5.13) 8/2021

INDICATIONS AND USAGE

Suninitib 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. (1)
• treatment of adult patients with advanced renal cell carcinoma (RCC). (1, 2)
• treatment of adult patients with advanced renal cell carcinoma (RCC) who have received prior imatinib mesylate.
• treatment of adult patients with high risk of recurrent RCC following nephrectomy. (1, 3)
• treatment of progressive, well-differentiated pancreatic neuroendocrine tumors (pNET) in adult patients with unresectable locally advanced or metastatic disease. (1, 4)

DOSE AND ADMINISTRATION

GIST and Advanced RCC
• The recommended dosage is 50 mg orally once daily for the first 4 weeks of each 6-week cycle (Schedule 4Z) (2, 1).
• In the second cycle, the recommended dosage is 37.5 mg orally once daily for the first 4 weeks of a 6-week cycle (Schedule 4Z) for a maximum of 5 cycles. (2, 2) pNET.
• The recommended dosage is 37.5 mg orally once daily (2, 3).

DOSE FORMS AND STRENGTHS

• Capsules: 12.5 mg, 25 mg, 37.5 mg, 50 mg suninitib (3).
• Tablets: 12.5 mg, 25 mg, 37.5 mg, 50 mg suninitib (3).

CONTRAINDICATIONS

None (4).

WARNINGS AND PRECAUTIONS

5.1 Hepatotoxicity: Fatal liver failure has been observed. Monitor liver function tests at baseline, during each cycle, and as clinically indicated. Interrupt suninitib for Grade 3 hepatotoxicity until resolution Grade ≤ 1 or baseline and resume suninitib at a reduced dose; discontinue if no resolution. Discontinue suninitib for patients with Grade 4 hepatotoxicity, in patients who have subsequent severe changes in liver function tests or other signs and symptoms of liver failure. (5, 4, 5, 1).

ADVERSE REACTIONS

See full prescribing information for complete adverse reactions.
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

DRUG INTERACTIONS

See 7 for DRUG INTERACTIONS.
See 8 for USE IN SPECIFIC POPULATIONS.

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See 10 OVERDOSAGE.

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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. Discontinue suninitib for clinical manifestations of congestive heart failure. Interrupt and/or dose reduce for decreased LVEF. (5, 2)

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 suninitib for Grade 3 hypertension until resolution to Grade ≤ 1 or baseline, then resume suninitib at a reduced dose. Discontinue suninitib in patients who develop Grade 4 hypertension. (5, 4)

Hemorrhagic Events: Tumor-related hemorrhage and viscous perforation (both with fatal events) have occurred. Perform serial complete blood counts and physical examinations and interrupt suninitib for Grade 3 or 4 hemorrhagic events until resolution to Grade ≤ 1 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, 6)

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 suninitib for TMA. (5, 7)

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 suninitib for these events. (5, 9)

Reversible Posterior Leukoencephalopathy Syndrome (RPLS): RPLS (some fatal) has been reported. Monitor for signs and symptoms of RPLS. Withhold suninitib until resolution. (5, 10)

Thyroid Dysfunction: Monitor thyroid function of baseline, periodically during treatment, and as clinically indicated. Initiate and/or adjust therapy for thyroid dysfunction as appropriate. (5, 11)

Osteoporosis of the Jaw (OJ): Osteoporosis of the jaw has been reported in patients treated with suninitib. Withhold suninitib until complete resolution. (5, 13)

Impaired Wound Healing: Withhold suninitib 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 suninitib 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, 3)

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Table 4 summarizes the laboratory abnormalities in Study 1.

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

Laboratory Abnormality	Suninitib (N = 282)		Placebo (N = 102)	
	All Grades %	Grade 3 to 4 %	All Grades %	Grade 3 to 4 %
Any Laboratory Abnormality	34		22	
Hematology				
Neutrophils decreased	53	10	4	0
Lymphocytes decreased	38	0	16	0
Platelets decreased	38	5	4	0
Hemoglobin decreased	38	3	22	0
Gastrointestinal				
AST/LT increased	39	2	23	1
SGPT increased	25	10	17	1
Alkaline phosphatase increased	24	4	21	4
Amylase increased	17	5	12	3
Total bilirubin increased	16	1	8	0
Indirect bilirubin increased	10	0	4	0
Renal/Urinary				
Creatinine increased	12	1	7	0
Potassium decreased	12	1	4	0
Sodium increased	10	0	4	0
Urea nitrogen increased	11	1	3	0

^aCommon Terminology Criteria for Adverse Events (CTCAE), version 3.0.
^bAbbreviations: ALT=alanine aminotransferase; AST=aspartate aminotransferase; GIST=gastrointestinal stromal tumor; LVEF=left ventricular ejection fraction; N=number of patients.

^cGrade 4 laboratory abnormality in patients on suninitib included alkaline phosphatase (1%), lactate (1%), potassium decreased (1%), neutrophils (2%), hemoglobin (2%), and platelets (1%).

^dGrade 4 laboratory abnormality in patients on placebo included amylase (1%), lactate (1%), and hemoglobin (2%).

After an interim analysis, the study was unblinded and patients on the placebo arm were given the opportunity to receive open-label suninitib (see Clinical Studies (14.1)). For 241 patients randomized to the suninitib arm, including 139 who received suninitib in both the double-blind and open-label phases, the median duration of suninitib treatment was 8 cycles (range: 0.5-18.4). For the 255 patients who ultimately received open-label suninitib treatment, median duration of treatment was 6 cycles (range: 1.8-37) from the time of the unblinding.

Permanent discontinuation due to an adverse reaction occurred in 20% of patients who received suninitib. Dose interruption occurred in 48% and dose reduction occurred in 28% of patients who received suninitib.

The most common Grade 3 or 4 adverse reactions in patients who received suninitib in the open-label phase were fatigue (107%), hypertension (5%), diarrhea (5%), hair loss (5%), hand-foot syndrome (5%), nausea (4%), abnormal pain (3%), anemia (3%), neutropenia (3%), vomiting (3%), and hypoglycemia (2%).

^eAdvanced Renal Cell Carcinoma.

The safety of suninitib was evaluated in Study 3, a double-blind, active-controlled trial in which previously untreated patients with locally advanced or metastatic RCC received suninitib 50 mg daily on Schedule 4Z (n = 375) or interferon alpha 3 million International Units (IU) in 360. The median duration of treatment was 11.1 months (range: 0.4-46.1) for suninitib treatment and 4.1 months (range: 0.1 to 45.8) for interferon alpha treatment.

Permanent discontinuation due to an adverse reaction occurred in 20% of patients in the suninitib arm. Dose interruptions occurred in 54% and dose reductions occurred in 32% of patients who received suninitib.

Table 5 summarizes the adverse reactions for Study 3.

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

Adverse Reaction	Suninitib (N = 375)		Interferon Alfa (N = 360)	
	All Grades %	Grade 3 to 4 %	All Grades %	Grade 3 to 4 %
Any Adverse Reaction	99	77	99	51
Gastrointestinal				
Diarrhea	68	10	41	<1
Nausea	58	6	41	2
Mucositis/stomatitis	47	0	5	<1
Vomiting	39	5	17	<1
Dyspepsia	34	2	4	0
Abdominal pain ^a	30	5	12	<1
Constipation	23	0	14	<1
Dry mouth	13	0	7	<1
Oral pain	14	<1	1	0
Flatulence	14	0	2	0
GERD/reflux esophagitis	12	<1	1	0
Glossodynia	11	0	1	0
Hemorrhoids	10	0	2	2
Constitutional				
Fatigue	62	15	56	15
Pyrexia	26	11	22	6
Fever	22	1	37	<1
Weight decreased	16	<1	17	1
Chills	14	1	31	0
Chest pain	13	2	15	0
Influenza like illness	5	0	15	<1
Metabolism/Nutrition				
Anorexia ^b	48	3	42	2
Hematology				
Altered taste ^c	27	<1	15	0
Platelets decreased	23	2		

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
- fast heart beat
- weight gain or weight loss
- problems with heat
- feeling nervous or agitated, tremors
- irregular menstrual periods
- sweating
- no menstrual periods
- nausea or vomiting
- headache
- diarrhea
- 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 anti-diabetic 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 anti-diabetic 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
- irritability
- drowsiness
- hunger
- weakness
- fast heart beat
- dizziness
- sweating
- confusion
- 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.

You should stop taking 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.

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

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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Crabury, NJ 08512

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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.

Table 3. Adverse Reactions Reported in ≥ 1% of Patients with pNET Who Received Sunitinib and More Commonly Than in Patients Given 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		
Dysphagia	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 oral mucositis, gingivitis, and stomatitis pain.
‡ Includes hemorrhage, hematuria, hemoptysis, hemoptysis, hemoptysis, melena, and metrorrhagia.

Table 3. 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	2	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						
Glucose increased	71	12	78	18		
Albumin decreased	41	1	37	1		
Calcium decreased	34	0	19	0		
Sodium decreased	30	0	19	0		
Creatinine increased	27	5	28	5		
Glucose decreased	22	2	15	4		
Urea nitrogen decreased	19	0	10	0		
Magnesium decreased	19	0	10	0		
Potassium increased	12	0	11	1		

* The observed rate of increase in the level from baseline for sunitinib and 39.8% for placebo based on the number of patients with a baseline value and at least one post-treatment value. Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.
† Includes oral mucositis, gingivitis, and stomatitis pain.
‡ Includes hemorrhage, hematuria, hemoptysis, hemoptysis, melena, and metrorrhagia.

Table 4. Pharmacokinetic Parameters

Table 5. Pharmacokinetic Parameters

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