

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

SUNITINIB malate capsules, for oral use

Initial U.S. Approval: 2006

WARNING: HEPATOTOXICITY See full prescribing information for complete boxed warning Hepatotoxicity may be severe, and in some cases fatal. Monitor hepatic function and interrupt, dose reduce, or discontinue sunitinib 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 of Drug Interactions (2.5) Warnings and Precautions, Hepatotoxicity (5.1) 8/2021 8/2021 Warnings and Precautions, Hypertension (5.4) 8/2021 Warnings and Precautions, Hemorrhautic Fryn Warnings and Precautions, Hemorrhautic Events and Viscous Perforation (5.5) Warnings and Precautions, Reversible Posterior Leukoencephalopathy Syndrome (5.10) 8/2021 Warnings and Precautions, Hypoglycemia (5.12) 8/2021 Warnings and Precautions, Osteonecrosis of the Jaw (5.13) 8/2021 ---- INDICATIONS AND USAGE ---Sunitinib malate capsules are a kinase inhibitor indicated for: treatment of adult patients with gastrointestinal stromal tumor (GIST) after disease progression on or intolerance to imatinib mesylate. (1.1) treatment of adult patients with advanced renal cell carcinoma (RCC). (1.2) adjuvant treatment of adult patients at 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)

---- DOSAGE 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 4/2). (2.1)

Adjuvant Treatment of RCC: • The recommended dosage is 50 mg orally once daily for the first 4 weeks of a 6-week cycle (Schedule 4/2) for a maximum of 9 cycles. (2.2)

<u>pNET:</u>
 The recommended dosage is 37.5 mg orally once daily. (2.3)

- ---- DOSAGE FORMS AND STRENGTHS -
- Capsules: 12.5 mg, 25 mg, 37.5 mg, 50 mg sunitinib (3)

-- CONTRAINDICATIONS None (4)

- WARNINGS AND PRECAUTIONS -

Hepatotoxicity: Fatal liver failure has been observed. Monitor liver function tests at baseline, during each cycle, and as clinically indicated. Interrupt sunitinib for Grade 3 hepatotoxicity until resolution Grade ≤ 1 or baseline and resume sunitinib at a reduced dose; discontinue if no resolution. Discontinue sunitinib in patients with Grade 4 hepatoxicity, in patients who have subsequent severe changes in liver function tests or other signs and symptoms of liver failure. (2.4, 5.1)

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FULL PRESCRIBING INFORMATION

WARNING: HEPATOTOXICITY xicity may be severe, and in some cases, fatal. Monitor hepatic function and interrupt, dose reduce, or discontinue sunitinib as recommended [see Warnings and Precautions (5.1)].

INDICATIONS AND USAGE 1.1 Gastrointestinal Stromal Tumor

- Sunitinib malate capsules are indicated for the treatment of adult patients with gastrointestinal stromal tumor (GIST) after disease progression on or intolerance to imatinib mesulate.
- 1.2 Advanced Renal Cell Carcinoma
- Sunitinib malate capsules are indicated for the treatment of adult patients with advanced renal cell carcinoma (RCC).
- 1.3 Adjuvant Treatment of Renal Cell Carcinom Sunitinib malate capsules are indicated for the adjuvant treatment of adult patients at high risk of recurrent RCC following nephrectom
- 1.4 Advanced Pancreatic Neuroendocrine Tumors Sunitinib malate capsules are indicated for the treatment of progressive, well-differentiated pancreatic neuroendocrine tumors (pNET) in adult
- patients with unresectable locally advanced or metastatic disease. 2 DOSAGE AND ADMINISTRATION
- 2.1 Recommended Dosage for GIST and Advanced RCC

necrosis of the Jaw (ONJ): Withhold sunitinib for at least 3 weeks prior to invasive dental procedure and development of ONJ until complete resolution. (5.13) Impaired Wound Healing: Withhold sunitinib for at least 3 weeks prior to elective surgery. Do not administer for at least 2 weeks following

8/2021

treat as clinically indicated. (5.6)

surgery and until adequate wound healing. The safety of resumption of sunitinib after resolution of wound healing complications nas not been established. (5.14)

leading to renal failure or a fatal outcome, has been reported. Discontinue sunitinib for TMA. (5.7)

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) ----- ADVERSE REACTIONS ------

Hypoglycemia: Check blood glucose levels regularly and assess if antidiabetic drug dose modifications are required. (5.12)

Cal Interval Prolongation and Torsade 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

Hemorrhagic Events: Tumor-related hemorrhage and viscus perforation (both with fatal events) have occurred. Perform serial complete Transmission before the second secon

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

Thrombotic microangiopathy (TMA): TMA, including thrombotic thrombocytopenic purpura and hemolytic uremic syndrome, sometimes

Proteining: A characteristic of a fatal outcome has occurred. Monitor unine protein. Interrupt tratement 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, erythema multiforme, Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis

Reversible Posterior Leukoencephalopathy Syndrome (RPLS): RPLS (some fatal) has been reported. Monitor for signs and symptoms

Throad Dysfunction: Monitor throad function at baseline, periodically during treatment, and as clinically indicated. Initiate and/or adjust therapy for thyroid dysfunction as appropriate. (5.11)

rupt sunitinib for Grade 3 hypertension until resolution to Grade ≤1 or baseline, then resume sunitinib at a reduced dose. Discontinue

The most common adverse reactions (≥ 25%) are fatigue/asthenia, diarrhea, mucositis/stomatitis, nausea, decreased appetite/anorexia vomiting, abdominal pain, hand-foot syndrome, hypertension, bleeding events, dysgeusia/altered taste, dyspepsia, and

thrombocytopenia. (6) To report SUSPECTED ADVERSE REACTIONS, contact Sun Pharmaceutical Industries, Inc. at 1-800-406-7984 or FDA at 1-800-FDA- 1088

or www.fda.gov/medwatch. -- DRUG INTERACTIONS --

- CYP3A4 Inhibitors: Consider dose reduction of sunitinib when administered with strong CYP3A4 inhibitors. (7.1) CYP3A4 Inducers: Consider dose increase of sunitinib when administered with strong CYP3A4 inducers. (7.1) ----- USE IN SPECIFIC POPULATIONS --
- Lactation: Advise not to breastfeed. (8.2)

concestive heart failure. Interrupt and/or dose reduce for decreased LVEF. (5.2)

(TEN) (some fatal) have occurred. Discontinue sunitinib for these events. (5.9)

sunitinib in patients who develop Grade 4 hypertension. (5.4)

of RPLS. Withhold sunitinib until resolution. (5.10)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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- Sections or subsections omitted from the full prescribing information are not listed.
- Consider monitoring LVEF at baseline and periodically as clinically indicated. Carefully monitor patients for clinical signs and symptoms of congestive heart failure (CHF). Discontinue sunitinib in patients who experience clinical manifestations of CHF. Interrupt sunitinib and/c reduce the dose in patients without clinical evidence of CHF who have an ejection fraction of greater than 20% but less than 50% below baseline or below the lower limit of normal if baseline election fraction was not obtained.
- 5.3 QT Interval Prolongation and Torsade de Pointes Sunitinib can cause QT interval prolongation in a dose-dependent manner, which may lead to an increased risk for ventricular arrhythmia
- including Torsade de Pointes. Torsade de Pointes was observed in < 0.1% of patients. Monitor patients who are at higher risk of developing QT interval prolongation, including patients with a history of QT interval prolongation patients who are taking antiarrhythmics, or patients with relevant pre-existing cardiac disease, bradycardia, or electrolyte disturbances Consider periodic monitoring of electrocardiograms and electrolytes (i.e., magnesium, potassium) during treatment with sunitinib.
 - Monitor DT interval more frequently when sunitinib is concomitantly administered with strong CYP3A4 inhibitors or drugs known to prolon QT interval. Consider dose reducing sunitinib [see Dosage and Administration (2.5), Drug Interactions (7.2)].
- In the pooled safety population, 29% of patients experienced hypertension. Grade 3 hypertension was reported in 7% of patients, and Grade hypertension was reported in 0.2%.
- Monitor blood pressure at baseline and as clinically indicated. Initiate and/or adjust antihypertensive therapy as appropriate. In cases of Grad B hypertension, withhold sunitinib until resolution to Grade ≤ 1 or baseline, then resume sunitinib at a reduced dose. Discontinue sunitinib i patients with who develop Grade 4 hypertension.
- 5.5 Hemorrhagic Events and Viscus Perforation

Cardiovascular Events: Myocardial ischemia, myocardial infarction, heart failure, cardiomyopathy, and decreased left ventricular ejection Table 4 summarizes the laboratory abnormalities in Study 1. faction (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 sunitinib for clinical manifestations of Table 4. Laboratory Abnormalities Reported in ≥ 10% of GIST Patients Who Received Sunitinib or Placebo in the Double-Blind Treatment

		G	IST		
Ē	Sunitinit	(N = 202)	Placebo (N = 102)		
Laboratory Abnormality	All Grades* %	Grade 3 to 4 ^{*,a} %	All Grades* %	Grade 3 to 4 ^{*,1} %	
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	26	3	22	2	
Gastrointestinal					
AST/ALT increased	39	2	23	1	
Lipase increased	25	10	17	7	
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/Metabolic					
Creatinine increased	12	1	7	0	
Potassium decreased	12	1	4	0	
Sodium increased	10	0	4	1	

ninology Criteria for Adverse Events (CTCAE), version 3. ations: ALT=alanine aminotransferase; AST=aspartate aminotransferase; GIST=gastrointestinal stromal tumor; LVEF=left ventricular ejection fraction; N=numbe a Grade 4 laboratory abnormalities in patients on sunitinib included alkaline phosphatase (1%), lipase (2%), creatinine (1%), potassium decreased (1%), neutrophils

2%), hemoglobin (2%), and platelets (1%). Grade 4 laboratory abnormalities in patients on placebo included amylase (1%), lipase (1%), and hemoglobin (2%).

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After an interim analysis, the study was unblinded and patients on the placebo arm were given the opportunity to receive open-label sunitinib [see Clinical Studies (14.1)]. For 241 patients randomized to the sunitinib arm, including 139 who received sunitinib in both the double-blind and open-label phases, the median duration of sunitinib treatment was 6 cycles (mean: 8.5; range: 1 to 44). For the 255 atients who ultimately received open-label sunitinib treatment, median duration of treatment was 6 cycles (mean: 7.8; range: 1 to 37) rom the time of the unblinding.

Permanent discontinuation due to an adverse reaction occurred in 20% of patients who received sunitinib. Dosage interruption occurred in 46% and dose reduction occurred in 28% of patients who received sunitinib. The most common Grade 3 or 4 adverse reactions in patients who received sunitinib in the open-label phase were fatique (10%), hypertension

(8%), asthenia (5%), diarrhea (5%), hand-foot syndrome (5%), nausea (4%), abdominal pain (3%), anorexia (3%), mucositis (2%), vomiting (2%), and hypothyroidism (2%)

reased LVEF

Revised: 9/2021

Advanced Renal Cell Carcinoma

The safety of sunitinib was evaluated in Study 3, a double-blind, active-controlled trial in which previously untreated patients with locally advanced or metastatic RCC received sunitinib 50 mg daily on Schedule 4/2 (n = 375) or interferon alfa 9 million International Units (MIU) (r 260). The median duration of treatment was 11.1 months (range: 0.4 to 46.1) for sunitinib treatment and 4.1 months (range: 0.1 to 45.6) for interferon alfa treatment.

Permanent discontinuation due to an adverse reaction occurred in 20% of patients in the sunitinib arm. Dose interruptions occurred in 54% and dose reductions occurred in 52% of patients who received sunitinib.

Table 5 summarizes the adverse reactions for Study 3

able 5. Adverse Reactions Reported in > 10% of Patients With RCC Who Received Sunitinih or Int

	Treatment-Naïve RCC				
	Sunitini	b (N = 375)	Interferon Alfa (N = 360)		
Adverse Reaction	All Grades %	Grade 3 to 4ª %	All Grades %	Grade 3 to 4 %	
Any Adverse Reaction	99	77	99	55	
Gastrointestinal					
Diarrhea	66	10	21	<1	
Nausea	58	6	41	2	
Mucositis/stomatitis	47	3	5	<1	
Vomiting	39	5	17	1	
Dyspepsia	34	2	4	0	
Abdominal pain ^c	30	5	12	1	
Constipation	23	1 1	14	<1	
Dry mouth	13	0	7	<1	
Oral pain	14	<1	1	0	
Flatulence	14	0	2	ů ů	
	12	-	1	0	
GERD/reflux esophagitis		<1			
Glossodynia	11	0	1	0	
Hemorrhoids	10	0	2	0	
Constitutional					
Fatigue	62	15	56	15	
Asthenia	26	11	22	6	
Fever	22	1 1	37	<1	
Weight decreased	16	<1	17	1	
Chills	14	1	31	0	
Chest Pain	13	2	7	1	
Influenza like illness	5	0	15	< 1	
Metabolism/Nutrition					
Anorexia ^d	48	3	42	2	
Neurology					
Altered taste ^e	47	<1	15	0	
Headache	23		19	0	
Dizziness	11	<1	14	1	
Hemorrhage/Bleeding					
Bleeding, all sites	37	4 ^f	10	1	
Cardiac					
Hypertension	34	13	4	<1	
Edema peripheral	24	2	5	1	
	16			2	
Ejection fraction decreased	16	3	5	2	
Dermatology					
Rash	29	2	11	<1	
Hand-foot syndrome	29	8	1	0	
Skin discoloration/yellow skin	25	<1	0	0	
Dry skin	23	<1	7	0	
Hair color changes	20	l 0	<1	Ö	
Alopecia	14	0	9	0	
Erythema	12	<1	1	0	
Pruritus	12		7		
	IZ	<1	1	<1	
Musculoskeletal					
Pain in extremity/limb discomfort	40	5	30	2	
Arthralgia	30	3	19	1	
Back pain	28	5	14	2	
Respiratory		-		-	
Cough	27	1	14	<1	
Dyspnea	26	6	20	4	
Nasopharyngitis	14	0	2	0	
Oropharyngeal pain	14	<1	2	0	
Upper respiratory tract infection	11	<1	2	0	
Endocrine				1	
Hypothyroidism	16	2	1	0	
31 3	10	4	- '	, v	
Psychiatric	1	1	10		
Insomnia	15	<1		0	

MEDICATION GUIDE

Sunitinib Malate (soo ni' ti nib mal' ate) Capsules Rx only

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

Sunitinib malate capsules can cause serious side effects including:

• pain or discomfort in the right upper stomach area

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 sunitinib malate capsules:

Your healthcare provider should do blood tests to check your liver function before

you start taking and during treatment with sunitinib malate capsules. Your

healthcare provider may temporarily stop, reduce your dose, or permanently stop

See "What are the possible side effects of sunitinib malate capsules?" for more

• a rare cancer of the stomach, bowel, or esophagus called gastrointestinal

• you have taken the medicine imatinib mesylate and it did not stop the cancer

adults with kidney cancer that has not spread (localized), and who are at high

a type of pancreatic cancer called pancreatic neuroendocrine tumors (pNET),

Before taking sunitinib malate capsules tell your healthcare provider about all

• plan to have surgery or have had a recent surgery. You should stop taking

• have or have had pain in the mouth, teeth or jaw, swelling or sores inside the

• are pregnant or plan to become pregnant. Sunitinib malate capsules can harm

mouth, numbness or a feeling of heaviness in the jaw, or loosening of a tooth

• Your healthcare provider should do a pregnancy test before you start

• You should use effective birth control (contraception) during treatment and

• Tell your healthcare provider right away if you become pregnant or think

for at least 4 weeks after your last dose of sunitinib malate capsules.

you are pregnant during treatment with sunitinib 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 sunitinib malate capsules. Sunitinib malate capsules may cause fertility problems

• are breastfeeding or plan to breastfeed. Do not breastfeed during treatment with

sunitinib 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 sunitinib malate

capsules. They should talk to the healthcare provider who prescribed sunitinib

malate capsules for you, before you have **any** surgery, or medical or dental

Tell your healthcare provider about all the medicines you take, including

prescription medicines and over-the-counter medicines, vitamins, and herbal

supplements. Using sunitinib malate capsules with certain other medicines can

You may have an increased risk of severe jawbone problems (osteonecrosis) if you

take sunitinib malate capsules and a bisphosphonate medicine. **Especially tell** vour

Know the medicines you take. Keep a list of them to show your healthcare provider

• Take sunitinib malate capsules exactly the way your healthcare provider tells

If you take sunitinib malate capsules for GIST or RCC, you will usually take your

medicine for 4 weeks (28 days) and then stop for 2 weeks (14 days). This is 1

cycle of treatment. You will repeat this cycle for as long as your healthcare

• If you take sunitinib malate capsules for pNET, take it 1 time each day until your

Do not drink grapefruit juice or eat grapefruit during your treatment with

sunitinib malate capsules. They may cause you to have too much sunitinib

Your healthcare provider may do blood tests before each cycle of treatment to

If you miss a dose of sunitinib malate capsules by less than 12 hours, take the

missed dose right away. If you miss a dose of sunitinib malate capsules by

more than 12 hours, just take your next dose at your regular time. Do not make

Call your healthcare provider right away, if you take too much sunitinib malate

See "What is the most important information I should know about sunitinib

Heart problems. Heart problems may include heart failure, heart attack and

heart muscle problems (cardiomyopathy) that can lead to death. Tell your

healthcare provider if you feel very tired, are short of breath, or have swollen

Abnormal heart rhythm changes. Changes in the electrical activity of your

heart called QT prolongation can cause irregular heart beats that can be life

threatening. Your healthcare provider may do electrocardiograms and blood

tests (electrolytes) to watch for these problems during your treatment with

sunitinib malate capsules Tell your healthcare provider right away if you feel

dizzy, faint, or have abnormal heartbeats during your treatment with sunitinib

High blood pressure. High blood pressure is common with sunitinib malate

capsules, and may sometimes be severe. Follow your healthcare provider's

instructions about having your blood pressure checked regularly. Call your

healthcare provider if your blood pressure is high, or if you have any of the

Your healthcare provider may prescribe medicine for you to treat high blood

Bleeding problems. Bleeding is common with sunitinib malate capsules, but

sunitinib malate capsules can also cause severe bleeding problems that can

lead to death. Your healthcare provider will monitor you for bleeding and may

do blood tests if needed. Call your healthcare provider right away if you have

any of these symptoms or a serious bleeding problem during treatment with

following signs or symptoms of high blood pressure:

• feel your heart beat is

irregular or fast

dizziness

• change in vision

up the missed dose. Tell your healthcare provider about any missed dose.

What are possible side effects of sunitinib malate capsules?

Sunitinib malate capsules may cause serious side effects, including:

Take sunitinib malate capsule 1 time each day with or without food.

healthcare provider if you are taking or have taken an osteoporosis medicine.

in males and females. Tell your healthcare provider if this is a concern for you.

are the possible side effects of sunitinib malate capsules?"

sunitinib malate capsules at least 3 weeks before planned surgery. See "What

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

treatment with sunitinib malate capsules if you develop liver problems.

Sunitinib malate capsules are prescription medicine used to treat:

advanced kidney cancer (advanced renal cell carcinoma or RCC).

risk of RCC coming back again after having kidney surgery.

that has progressed and cannot be treated with surgery.

itching

منه

yellow eyes or skin

information about side effects.

from growing, or

have any heart problems

have thyroid problems

have liver problems

have seizures

your unborn baby.

procedure

Interferon Alfa (N = 360)

All Grades'

38

Grade 3 to 4^{*,b}

<1

cause serious side effects.

provider tells you to.

malate in your body.

capsules.

malate capsules?'

feet and ankles.

malate capsules

dizziness

or you pass out

severe headache

lightheadedness

pressure, if needed.

sunitinib malate capsules, including:

• you feel faint or lightheaded,

check you for side effects.

and pharmacist when you get a new medicine.

How should I take sunitinib malate capsules?

healthcare provider tells you to stop.

Females who are able to become pregnant:

treatment with sunitinib malate capsules.

have high blood pressure

have any bleeding problem

What are sunitinib malate capsules?

stromal tumor (GIST) and when:

you cannot take imatinib mesylate.

of your medical conditions, including if you:

have a history of low blood sugar or diabetes

have kidney function problems (other than cancer)

• dark urine

al stromal tumor (GIST) and advanced renal cell carci is 50 mg taken orally once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2) until disease progression or unacceptable toxicity. Sunitinib malate capsules may be taken with or without food.

2.2 Recommended Dosage for Adjuvant Treatment of RCC

The recommended dosage of sunitinib malate capsules for the adjuvant treatment of RCC is 50 mg taken orally once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2), for nine 6-week cycles. Sunitinib malate capsules may be taken with or without food.

2.3 Recommended Dosage for pNET

The recommended dosage of sunitinib malate capsules for pancreatic neuroendocrine tumors (pNET) is 37.5 mg taken orally once daily until disease progression or unacceptable toxicity. Sunitinib malate capsules may be taken with or without food.

2.4 Dosage Modifications for Adverse Reactions

To manage adverse reactions, the recommended dosage modifications are provided in Table 1. Table 2 provides the recommended dosage

reductions of sunitinib malate capsules for adverse reactions. anded Decade Deductions of Subitinih Malate Canculas for Advance Decetions Table 1 Reco

able 1. Recommended bosage Reductions of Sunitified Malate Capsules for Adverse Reactions				
Indications	GIST	RC	0	pNET
		Advanced RCC	Adjuvant RCC	
First dose reduction	37.5 mg once daily	37.5 mg once daily	37.5 mg once daily	25 mg once daily
Second dose reduction	25 mg once daily	25 mg once daily	NA	NA

Grade 3	
Grade 3	 Withhold until resolution to Grade 0 to 1 or baseline. Resume at a reduced dose. For recurring Grade 3 permanently discontinue.
Grade 4	Permanently discontinue.
Asymptomatic cardiomyopathy (left ventricular ejection fraction greater than 20% but less than 50% below baseline or below the lower limit of normal if baseline was not obtained)	Withhold until resolution to Grade 0 to 1 or baseline. Resume at reduced dose.
Clinically manifested congestive heart failure (CHF)	Permanently discontinue.
Grade 3	Withhold until resolution to Grade 0 to 1 or baseline.Resume at a reduced dose.
Grade 4	Permanently discontinue.
Grade 3 or 4	 Withhold until resolution to Grade 0 to 1 or baseline. Either resume at a reduced dose or discontinue depending on the severity and persistence of adverse reaction.
Any Grade	Permanently discontinue.
3 or more grams proteinuria in 24 hours in the absence of nephrotic syndrome	Withhold until resolution to Grade 0 to 1 or baseline. Resume at a reduced dose.
Nephrotic syndrome or recurrent proteinuria of 3 or more grams per 24 hours despite dose reductions	Permanently discontinue.
Any Grade	Permanently discontinue.
Any Grade	Permanently discontinue.
Any Grade	 The safety of resumption of sunitinib malate capsules after osteonecrosis has not been established.
	 Either resume at a reduced dose or discontinue depending on the severity and persistence of the adverse reaction.
Any Grade	The safety of resumption of sunitinib malate capsules after resolution of wound healing has not been established. Either resume at a reduced dose or discontinue depending on the severity and persistence of the
	Asymptomatic cardiomyopathy (left ventricular ejection fraction greater than 20% but less than 50% beliv baseline or below the lower limit of normal if baseline was not obtained) Clinically manifested congestive heart failure (CHF) Grade 3 Grade 4 Grade 3 Grade 4 Grade 3 or 4 Any Grade Nephrotic syndrome or recurrent proteinuria of 3 or more grams per 24 hours despite dose reductions Any Grade Any Grade Any Grade

Strong CYP3A4 Inhibitors

Select an alternate concomitant medication with no or minimal enzyme inhibition potential. If coadministration of sunitinib malate capsules with a strong CYP3A4 inhibitor cannot be avoided, consider a dose reduction for sunitinib malate capsules to a minimum dosage as follows [see Drug Interactions (7.1)]:

GIST and RCC: 37.5 mg orally once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2) pNET: 25 mg orally once daily

Strong CYP3A4 Inducers

Select an alternate concomitant medication with no or minimal enzyme induction potential. If coadministration of sunitinib malate capsules

with a strong CYP3A4 inducer cannot be avoided, consider a dose increase for sunitinib malate capsules to a maximum dosage as follows: • GIST and RCC: 87.5 mg orally once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2)

pNET: 62.5 mg orally once daily

If the dose of sunitinib malate capsules is increased, monitor patients carefully for adverse reactions [see Drug Interactions (7.1)].

2.6 Dosage Modification for End-Stage Renal Disease Patients on Hemodialysis

No starting dose adjustment is required in patients with end-stage renal disease (ESRD) on hemodialysis. However, given the decreased exposure compared to patients with normal renal function, subsequent doses may be increased gradually up to 2-fold based on safety and tolerability [see Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

12.5 mg capsules

Hard gelatin capsule with opaque reddish brown cap and opaque reddish brown body, self-lock capsule, imprinted with 'RM53' on cap and 'RM53' on body in white ink, containing yellow to orange colored powder.

25 mg capsules Hard gelatin capsule with opaque caramel cap and opaque reddish brown body, self-lock capsule, imprinted with 'RM54' on cap and 'RM54'

on body in white ink, containing yellow to orange colored powder.

37.5 mg capsules Hard gelatin capsule with opaque yellow cap and opaque yellow body, self-lock capsule, imprinted with 'RM55' on cap and 'RM55' on body in black ink, containing vellow to orange colored powde

Hard gelatin capsule with opaque caramel cap and opaque caramel body, self-lock capsule, imprinted with 'RM56' on cap and 'RM56' on body in white ink containing vellow to orange colored powde

4 CONTRAINDICATIONS

None				
-	 	 	 	-

Sunitinib can cause severe hepatotoxicity, resulting in liver failure or death. In the pooled safety population, liver failure occurred in < 1% of

Monitor liver function tests (alanine aminotransferase [ALT], aspartate aminotransferase [AST], and bilirubin) at baseline, during each cycle and as clinically indicated. Interrupt sunitinib for Grade 3 hepatotoxicity until resolution to Grade \leq 1 or baseline, then resume sunitinib at a

reduced dose.

50 mg capsules

5 WARNINGS AND PRECAUTIONS

5.1 Hepatotoxicity

patients in clinical trials. Liver failure include jaundiced, elevated transaminases and/or hyperbilirubinemia in conjunction with encephalonath coagulopathy, and/or renal failure.

Discontinue sunitinib in patients with Grade 4 hepatotoxicity, in patients without resolution of Grade 3 hepatotoxicity, in patients who

subsequently experience severe changes in liver function tests and in patients who have other signs and symptoms of liver failure. Safety in patients with ALT or AST > 2.5 times upper limit of normal (ULN) or with > 5.0 times ULN and liver metastases has not been established 5.2 Cardiovascular Events

Cardiovascular events, including heart failure, cardiomyopathy, myocardial ischemia, and myocardial infarction, some of which were fatal have been reported

olved the gastroin the pooled safety population, 30% of patients experienced hemorrhagic events, including Grade 3 or 4 in 4.2% of patients. Epistaxis was the nost common hemorrhagic event and gastrointestinal hemorrhage was the most common Grade 3-5 event. Tumor-related hemorrhage was observed in patients treated with sunitinib. These events may occur suddenly, and in the case of pulmonar

tumors, may present as severe and life-threatening hemoptysis or pulmonary hemorrhage. Pulmonary hemorrhage, some with a fatal outcome was observed in patients treated with sunitinib for metastatic RCC, GIST, and metastatic lung cancer. Sunitinib is not approved for use i patients with lung cancer. Serious, sometimes fatal, gastrointestinal complications including gastrointestinal perforation, have been reported in patients with intra

abdominal malignancies treated with sunitinib nclude serial complete blood counts (CBCs) and physical examinations with the clinical assessment of hemorrhadic events. Interrupt sunitini

for Grade 3 or 4 hemorrhagic events until resolution to Grade ≤ 1 or baseline, then resume sunitinib at a reduced dose Discontinue sunitinib in patients without resolution of Grade 3 or 4 hemorrhadic events. 5.6 Tumor Lysis Syndrome

umor Lysis Syndrome (TLS), some fatal, occurred in clinical trials and has been reported in postmarketing experience, primarily in pa

with RCC or GIST. Patients generally at risk of TLS are those with high tumor burden prior to treatment. Monitor these patients for TLS and manage as appropriate

5.7 Thrombotic Microangiopathy

Thrombotic Microangiopathy (TMA), including thrombotic thrombocytopenic purpura and hemolytic uremic syndrome, sometimes leading to renal failure or a fatal outcome, occurred in clinical trials and in postmarketing experience of sunitinib as monotherapy and administered n combination with bevacizumab. Sunitinib is not approved for use in combination with bevacizumab

Discontinue sunitinib in patients developing TMA. Reversal of the effects of TMA has been observed after sunitinib was discontinued. 5.8 Proteinuria

Proteinuria and nephrotic syndrome have been reported. Some of these cases have resulted in renal failure and fatal outcomes Monitor patients for the development or worsening of proteinuria. Perform baseline and periodic urinalyses during treatment, with follow up measurement of 24-hour urine protein as clinically indicated. Interrupt sunitinib and dose reduce for 24-hour urine protein of 3 or mor grams. Discontinue sunitinib for patients with nephrotic syndrome or repeat episodes of 24-hour urine protein 3 or more grams despite dose tions. The safety of continued sunitinib treatment in patients with moderate to severe proteinuria has not been evaluate

5.9 Dermatologic Toxicities Severe cutaneous adverse reactions have been reported, including erythema multiforme (EM), Stevens-Johnson syndrome (SJS), and toxic epidermal necrolvsis (TEN), some of which were fatal. Permanently discontinue sunitinib for these severe cutaneous adverse reactions. Necrotizing fasciitis, including fatal cases, has been reported in patients treated with sunitinib, including of the perineum and secondary to

fistula formation. Discontinue sunitinib in patients who develop necrotizing fasciitis.

5.10 Reversible Posterior Leukoencephalopathy Syndrome Reversible posterior leukoencephalopathy syndrome (RPLS) has been reported in <1% of patients, some of which were fatal. Patients can present with hypertension, headache, decreased alertness, altered mental functioning, and visual loss, including cortical blindness. Magnetic sonance imaging is necessary to confirm the diagnosis. Discontinue sunitinib in patients developing RPLS.

5.11 Thyroid Dysfunction Hyperthyroidism, some followed by hypothyroidism, have been reported in clinical trials and through postmarketing experience of sunitinib. Monitor thyroid function at baseline, periodically during treatment and as clinically indicated. Monitor patients closely for signs and symptoms of thyroid dysfunction, including hypothyroidism, hyperthyroidism, and thyroiditis, during treatment with sunitinib. Initiate and/or adjust therapies for thyroid dysfunction as appropriate.

5.12 Hypoglycemia

Sunitinib can result in symptomatic hypoglycemia, which may lead to loss of consciousness, or require hospitalization. In the pooled safety population, hypoglycemia occurred in 2% of the patients treated with sunitinib. Hypoglycemia has occurred in clinical trials in 2% of the atients treated with sunitinib for advanced RCC (Study 3) and GIST (Study 1) (n = 577) and in approximately 10% of the patients treated with sunitinib for pNET (Study 6) (n = 83). For patients being treated with sunitinib for pNET, pre-existing abnormalities in glucose homeostasis were not present in all patients who experienced hypoglycemia. Reductions in blood glucose levels may be worse in patients with diabetes. Check blood glucose levels at baseline, regularly during treatment, as clinically indicated and after discontinuation of sunitinib. In patients with diabetes, assess if antidiabetic therapies need to be adjusted to minimize the risk of hypoglyc 5.13 Osteonecrosis of the Jaw

Osteonecrosis of the Jaw (ONJ) occurred in patients treated with sunitinib. Concomitant exposure to other risk factors, such as bisphosphonates or dental disease/invasive dental procedures, may increase the risk of ONJ. Perform an oral examination prior to initiation of sunitinib and periodically during sunitinib therapy. Advise patients regarding good oral hygiene practices. Withhold sunitinib treatment for at least 3 weeks prior to scheduled dental surgery or invasive dental procedures, if possible. Withhold sunitinib for development of ONJ until mplete resolution. The safety of resumption of sunitinib after resolution of osteonecrosis of the jaw has not been established. 5.14 Impaired Wound Healing

Impaired wound healing has been reported in patients who received sunitinib [see Adverse Reactions (6.2)]

Withhold sunitinib 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 sunitinib after resolution of wound healing complications has not been established.

5.15 Embryo-Fetal Toxicity Based on findings from animal studies and its mechanism of action, sunitinib can cause fetal harm when administered to pregnant woman. Administration of sunitinib to pregnant rats and rabbits during the period of organogenesis resulted in teratogenicity at approximately 5.5 and 0.3 times the combined systemic exposure [combined area under the curve (AUC) of sunitinib plus its active metabolite] in patients

administered the recommended daily dose (RDD) of 50 mg, respectively. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with sunitinib and for 4 weeks following the final dose [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS

- The following clinically significant adverse reactions are described elsewhere in the labeling
- Hepatotoxicity [see Warnings and Precautions (5.1)]
- Cardiovascular Events [see Warnings and Precautions (5.2)] QT Interval Prolongation and Torsade de Pointes [see Warnings and Precautions (5.3)]
- Hypertension [see Warnings and Precautions (5.4)]
- Hemorrhagic Events [see Warnings and Precautions (5.5)]
- Tumor Lysis Syndrome [see Warnings and Precautions (5.6)] Thrombotic Microangiopathy [see Warnings and Precautions (5.7)]
- Proteinuria [see Warnings and Precautions (5.8)]
- Dermatologic Toxicities [see Warnings and Precautions (5.9)]
- Reversible Posterior Leukoencephalopathy Syndrome [see Warnings and Precautions (5.10)]
- Thyroid Dysfunction [see Warnings and Precautions (5.11)]
- Hypoglycemia [see Warnings and Precautions (5.12)]
- Osteonecrosis of the Jaw [see Warnings and Precautions (5.13) Impaired Wound Healing [see Warnings and Precautions (5.14)]
- 6.1 Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.
- The pooled safety population described in the Warnings and Precautions reflect exposure to sunitinib in 7527 patients with GIST, RCC (advanced and adjuvant), or pNET. In this pooled safety population, the most common adverse reactions (≥ 25%) were fatigue/asthenia, diarrhea, mucositis/stomatitis, nausea, decreased appetite/anorexia, vomiting, abdominal pain, hand-foot syndrome, hypertension, bleeding events, dysgeusia/altered taste, dyspepsia, and thrombocytopenia.
- astrointestinal Stromal Tumor

The safety of sunitinib was evaluated in Study 1, a randomized, double-blind, placebo-controlled trial in which previously treated patients with GIST received sunitinib 50 mg daily on Schedule 4/2 (n = 202) or placebo (n = 102). Median duration of blinded study treatment was 2 cycles for patients on supitinib (mean: 3.0; range: 1 to 9) and 1 cycle (mean: 1.8; range: 1 to 6) for patients on placebo at the time of the interim analysis Permanent discontinuation due to an adverse reaction occurred in 7% of patients in the sunitinib arm. Dose reductions occurred in 11% and

dose interruptions occurred in 29% of patients who received sunitinib Table 3 summarizes the adverse reactions for Study 1.

Table 3. Adverse Reactions Reported in \geq 10% of GIST Patients Who Received Sunitinib in the Double-Blind Treatment Phase and More

	GIST					
	Sunitinib	(N = 202)	Placebo (N = 102)			
Adverse Reactions	All Grades %	Grade 3 to 4 %	All Grades %	Grade 3 to 4 %		
Any Adverse Reaction	94	56	97	51		
Gastrointestinal						
Diarrhea	40	4	27	0		
Mucositis/stomatitis	29	1	18	2		
Constipation	20	0	14	2		
Metabolism/Nutrition						
Anorexia ^a	33	1	29	5		
Asthenia	22	5	11	3		
Dermatology						
Skin discoloration	30	0	23	0		
Rash	14	1	9	0		
Hand-foot syndrome	14	4	10	3		
Neurology						
Altered taste	21	0	12	0		
Cardiac						
Hypertension	15	4	11	0		
Musculoskeletal						
Myalgia/limb pain	14	1	9	1		

Common Terminology Criteria for Adverse Events (CTCAE), version 3.0. Abbreviations: ARs-adverse reactions; N=number of patients; RCC=renal cell carcinoma

Laboratory Abnormality

itrophils decreased

phocytes decrease

tine kinase increase

atelets decreased

eatinine increased

Uric acid increased alcium decreased

sphorus decre

ucose increased

cose decrease

ssium increase

tassium decreased dium increase

lkaline phosphatase increased

odium decreased

Calcium increased

Gastrointestina

Lipase increase

ALT increased

ylase increased

Total bilirubin increased

Long-Term Safety in RCC

Adjuvant Treatment of RCC

Given Placebo* in S-TRAC

Adverse Reaction

Nausea

Any Adverse Reaction

. ninal pain

niting

Fatique/Asthenia

calized edema

Hair color changes

Cardiac

ırology

Altered tastef

Headache

Endocrine

d-foot syndrom

ema/Peripheral edem

Hypothyroidism/TSH increased

Hemorrhage/Bleeding

Bleeding events, all sites

Anorexia/Decreased appetite

Metabolism/Nutrition

rash papular, and rash pruritic.

Musculoskeleta

Arthralgia

Pain in extremity

Yellow skin

Includes independent information, stormatic operation and abdominal pain upper

Indirect bilirubin increased

Albumin decreased

Renal/Metabolic

Hematology

a Grade 4 ARs in patients on sunitinib included back pain (1%), arthralgia (< 1%), dyspnea (< 1%), asthenia (< 1%), fatigue (< 1%), limb pain (< 1%) and rash (< 1%) Grade 4 ARs in patients on interferon alfa included dyspnea (1%), fatigue (1%), abdominal pain (< 1%), and depression Includes flank pain.

Includes decreased appetite Includes ageusia, hypogeusia, and dysgeusia

includes 1 patient with Grade 5 gastric hemorrhagi

ncludes depressed mood. Table 6 summarizes the laboratory abnormalities in Study 3.

Table 6. Laboratory Abnormalities Reported in ≥ 10% of RCC Patients Who Received Sunitinib or Interferon Alfa in Study 3 Treatment-Naïve RCO

All Grades

70

56

Common Terminology Criteria for Adverse Events (CTCAE), version 3.0. Ibbreviations: ALT=alanine aminotransferase; AST=aspartate aminotransferase; N=number of patients; RCC=renal cell carcir

12.4 months (range: 0.13 to 14.9) for sunitinib and 12.4 months (range: 0.03 to 13.7) for placebo.

All Grades

57

39

38

24

24

19

15

ncludes edema localized, face edema, eyelid edema, periorbital edema, swelling face, and eye edema.

Includes mucosal inflammation, stomatitis aphthous ulcer, mouth ulceration, tongue ulceration, oropharyngeal pain, and oral pain

ncreased (< 1%), glucose decreased (< 1%), potassium increased (< 1%), and hemoglobin (< 1%)

luring the second year of treatment with new cases reported up to year 4.

reductions occurred in 46% of patients who received sunitinib.

Table 7 summarizes the adverse reactions in S-TRAC.

^a Grade 4 laboratory abnormalities in patients on sunitinib included uric acid (14%), lipase (3%), neutrophils (2%), lymphocytes (2%), hemoglobin (2%), platelets (1%),

mylase (1%), ALT (<1%), creatine kinase (<1%), creatinine (<1%), glucose increased (<1%), calcium decreased (<1%), phosphorous (<1%), potassium increased

Grade 4 laboratory abnormalities in patients on interferon alfa included uric acid (8%), lymphocytes (2%), lipase (1%), neutrophils (1%), amylase (< 1%), calcium

The long-term safety of sunitinib in patients with metastatic RCC was analyzed across 9 completed clinical studies conducted in the first-line

The ongreen sarey or summing means with measure not was analyzed actors of onpiece climications conducted in the machine, bevacizumah-refractory, and cytokine-refractory treatment sterilings. The analysis included 5739 patients, of whom 807 (14%) were treated for at least 2 years and 365 (6%) for at least 3 years. Prolonged treatment with sunitinib did not appear to be associated with new types of

The safety of sunitinib was evaluated in S-TRAC, a randomized, double-blind, placebo-controlled trial in which patients who had undergone

nephrectomy for RCC received sunitinib 50 mg daily on Schedule 4/2 (n = 306) or placebo (n = 304). The median duration of treatment was

Permanent discontinuation due to an adverse reaction occurred in 28% of patients in the sunitinib arm. Adverse reactions leading to permanent

Table 7. Adverse Reactions Reported in \ge 10% of Patients With RCC Who Received Sunitinib and More Commonly Than in Patients

Sunitinib (N = 3

tinuation in > 2% of patients include hand-foot syndrome and fatigue/asthenia. Dosing interruptions occurred in 54% and dose

Grade 3 to 4

8 < 1

<1 <1

<1

<1

<1

Common Terminology Criteria for Adverse Events (CTCAE), version 3.0. Abbreviations: ARs=adverse reactions; N=number of patients; RCC=renal cell carcinoma.

Includes dermatitis, dermatitis psoriasiform, exfoliative rash, genital rash, rash, rash erythematous, rash follicular, rash generalized, rash macular, rash maculopapular,

Adjuvant Treatment of RCC

Placebo (N = 304

Grade 3 to 4

< 1

0

< 1

All Grades

34

14

4

dverse reactions. There appeared to be no increase in the yearly incidence of adverse reactions at later time points. Hypothyroidism

Grade 3 to 4*

< 1

In pooled safety population, 3% of patients experienced heart failure; /1% of the patients with heart failure were reported as recovered. Fatal	
cardiac failure was reported in < 1% of patients.	

In the adjuvant treatment of RCC study, 11 patients experienced Grade 2 decreased ejection fraction (left ventricular ejection fraction [LVEF] 40% to 50% and a 10% to 19% decrease from baseline). In 3 of these 11 patients, the ejection fractions arm did not return to \geq 50% or baseline by the time of last measurement. No patients who received sunitinib were diagnosed with CHF.

Patients who presented with cardiac events within 12 months prior to sunitinib administration, such as myocardial infarction (including severe/unstable angina), coronary/peripheral artery bypass graft, symptomatic CHF, cerebrovascular accident or transient ischemic attack, or pulmonary embolism were excluded from sunitinib clinical studies. Patients with prior anthracycline use or cardiac radiation were also excluded from some studies. It is unknown whether patients with these concomitant conditions may be at a higher risk of developing left ventricular dysfunction.

Common Terminology Criteria for Adverse Events (CTCAE), version 3.0 Abbreviations: GIST=gastrointestinal stromal tumor: N=number of patient

Includes decreased appetite Other clinically relevant adverse reactions included oral pain other than mucositis/stomatitis in 6%; hair color changes in 7%; alop of patients who received sunitinib.

0	e Includes hypertension, blood pressure increased, blood pressure systolic increased, blood pressure diastolic increased, and hypertensive crisis.	sumumb malate capsules, including.
0	¹ Includes ageusia, hypogeusia, and dysgeusia. ⁹ Includes ageusia, hypogeusia, and dysgeusia. ⁹ Includes ageusia, hypogeusia, and dysgeusia. ⁹ Includes ageusia, hypogeusia, and dysgeusia. Grade 4 adverse reactions in patients on sunitinib included hand-foot syndrome (1%), fatigue (< 1%), abdominal pain (< 1%), stomatitis (< 1%), and pyrexia (< 1%). Grade 3 to 4 laboratory abnormalities that occurred in ≥ 2% of patients receiving sunitinib include neutropenia (13%), thrombocytopenia (5%), leukopenia (3%), hypotenia (3%), elevated alanine aminotransferase (2%), elevated apartate aminotransferase (2%), hyperglycemia (2%).	 painful, swollen stomach (abdomen) vomiting blood coughing up blood black, sticky stools black
alopecia in 5%	Advanced Pancreatic Neuropandocrine Tumors The safety of sunitinib was evaluated in Study 6, a randomized, double-blind, placebo-controlled trial in which patients with progressive pNET received sunitinib 37.5 mg once daily (n = 83) or placebo (n = 82). The median number of days on treatment was 139 days (range: 13 to 532	• Serious stomach and intestinal problems, that can sometimes lead to death. Some people have had tears in their stomach or intestine (perforation), or have

Outsert Size : 430 x 650 mm Folded Size : 35 x 35 mm Color : Black Track : A13/09/2021, A14/09/2021 SAP Code : 5223722 Code 128 : 5223722 Old SAP Code : 5221462

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:

0	tiredness that gets worse	0	fast heart beat
	and does not go away	0	weight gain or weight loss
0	loss of appetite	0	problems with heat
0	feeling nervous or	0	feeling depressed
	agitated, tremors	0	irregular menstrual periods
0	sweating		or no menstrual periods
0	nausea or vomiting	0	headache
0	diarrhea	0	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 irritability
- drowsiness hunger
- weakness fast heart beat
- dizziness sweating
- feeling jittery confusion
- 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

Adverse Reactio eceptors (VEGFR1, VEGFR2, and VEGFR3), stem cell factor receptor (KIT), Fms-like tyrosine kinase-3 (FLT3), colony stimulating factor ceeptor Type 1 (CSF-1R), and the glial cell-line derived neurotrophic factor receptor (RF). Sunifinibilition of the activity of these RTKs as been demonstrated in biochemical and cellular assays, and inhibition of function has been demonstrated in cell proliferation assays. The Any Adverse Reaction primary metabolite exhibits similar potency compared to sunitinib in biochemical and cellular assays. 59 Sunitinib inhibited the phosphorylation of multiple RTKs (PDGFRβ, VEGFR2, KIT) in tumor xenografts expressing RTK targets in vivo and demonstrated inhibition of tumor growth or tumor regression and/or inhibited metastases in some experimental models of cancer. Sunitinib Abdominal pain demonstrated the ability to inhibit growth of tumor cells expressing dysregulated target RTKs (PDGFR, RET, or KIT) in vitro and to inhibit PDGFRβ- and VEGFR2-dependent tumor angiogenesis *in vivo*. miting 12.2 Pharmacodynamics Constitutiona Exposure-Response Relationship 34 Based on population pharmacokinetic/pharmacodynamic analyses, there were relationships between changes in different pharmacodynamic endpoints (i.e., safety and efficacy endpoints) over time and sunitinib plasma exposures. Fatigue Weight decreased Cardiac Electrophysi Dermatology Sunitinib can cause QT interval prolongation in a dose-dependent manner, which may lead to an increased risk for ventricular arrhythmias Hair color changes 29 including Torsade de Pointes [see Warnings and Precautions (5.3)]. Hand-foot syndron 12.3 Pharmacokinetics The pharmacokinetics of sunitinib and sunitinib malate have been evaluated in healthy subjects and in patients with solid tumors Drv skin Sunitinib AUC and C_{max} increase proportionately over a dose range of 25 mg to 100 mg (0.5 to 2 times the approved RDD of 50 mg). The Cardiac barmacokinetics were similar in healthy subjects and in patients with a solid tumor, including patients with GIST and RCC. No significant changes in the pharmacokinetics of sunitinib or the primary active metabolite were observed with repeated daily administration or with 27 10 Hemorrhage /Bleeding epeated cycles. With repeated daily administration, sunitinib accumulates 3- to 4-fold while the primary metabolite accumulates 7- to 10-22 Bleeding events^d fold. Steady-state concentrations of sunitinib and its primary active metabolite are achieved within 10 to 14 days. By Day 14, combined plasma oncentrations of sunitinib and its active metabolite ranged from 63 to 101 ng/mL. Neurology Absorption 21 Following oral administration of sunitinib, the time to maximum plasma concentration (T_{max}) ranged from 6 to 12 hours. Effect of Food Psychiatric Insomnia The administration of a single dose of sunitinib 50 mg with a high-fat, high-calorie meal (consisting of approximately 150 protein calories and 500 to 600 fat calories) in healthy subjects had no clinically significant effect on sunitinib or active metabolites ex 15 Distribution Arthralgia The apparent volume of distribution (Vd/F) for sunitinib is 2230 L. Binding of sunitinib and its primary active metabolite to human plasma Common Terminology Criteria for Adverse Events (CTCAE), version 3.0 protein in vitro is 95% and 90%, respectively, with no concentration dependence in the range of 100 to 4000 ng/mL. ions: N=number of patients; pNET=pancreatic neu Elimination Grade 4 adverse reactions in patients on sunitinib included fatigue (1%). Following administration of a single oral dose in healthy subjects, the terminal half-lives of sunitinib and its primary active metabolite are Includes aphthous stomatitis, gingival pain, gingivitis, glossitis, glossodynia, mouth ulceration, oral discomfort, oral pain, tongue ulceration, mucosal dryness, mucosal nflammation, and dry mouth. Includes abdominal discomfort, abdominal pain, and abdominal pain upper approximately 40 to 60 hours and 80 to 110 hours, respectively. Sunitinib total oral clearance (CL/F) ranged from 34 to 62 L/h with an nterpatient variability of 40%. ncludes hematemesis, hematochezia, hematoma, hemoptysis, hemorrhage, melena, and metrorrhagia Metabolism Table 9 summarizes the laboratory abnormalities in Study 6. Sunitinib is metabolized primarily by CYP3A4 to its primary active metabolite, which is further metabolized by CYP3A4. The primary active Table 9. Laboratory Abnormalities Reported in ≥ 10% of Patients With pNET Who Received Sunitinib in Study 6 metabolite comprises 23% to 37% of the total exposure. After a radiolabeled dose, sunitinib and its active metabolite were the major compounds identified in plasma, accounting for 92% of radioactivity. DNE Excretion

days) 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.

Grade 3 to 4ª

Sunitinib (N = 83

All Grades

pNE1

Placebo (N = 82

Grade 3 to 4

All Grades

eductions occurred in 31% of patients who received sunitinib.

Table 8 summarizes the adverse reactions in Study 6.

Given Placebo* in Study 6

	Sur	itinib	Pla	cebo
	All Grades*	Grade 3 to 4 ^{*,a}	All Grades*	Grade 3 to 4 ^{*,b}
Laboratory Abnormality	%	%	%	%
Gastrointestinal				
AST increased	72	5	70	3
Alkaline phosphatase increased	63	10	70	11
ALT increased	61	4	55	3
Total bilirubin increased	37	1	28	4
Amylase increased	20	4	10	1
Lipase increased	17	5	11	4
Hematology				
Neutrophils decreased	71	16	16	0
Hemoglobin decreased	65	0	55	1
Platelets decreased	60	5	15	0
Lymphocytes decreased	56	7	35	4
Renal/Metabolic				
Glucose increased	71	12	78	18
Albumin decreased	41	1	37	1
Phosphorus decreased	36	7	22	5
Calcium decreased	34	0	19	0
Sodium decreased	29	2	34	3
Creatinine increased	27	5	28	5
Glucose decreased	22	2	15	4
Potassium decreased	21	4	14	0
Magnesium decreased	19	0	10	0
Potassium increased	18	1	11	1

The denominator used to calculate the rate varied from 52 to 82 for sunitinib and 39 to 80 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. Abbreviations: ALT-alanine aminotransferase; AST-aspartate aminotransferase; N=number of patients; pNET=pancreati

Grade 4 laboratory abnormalities in patients on sunitinib included creatinine (4%), lipase (4%), glucose decreased (2%), glucose increased (2%), neutrophils (2%), ALT (1%), AST (1%), platelets (1%), potassium increased (1%), and total bilirubin (1%).

Grade 4 laboratory abnormalities in patients on placebo included creatinine (3%), alkaline phosphatase (1%), glucose increased (1%), and lipase (1%) Venous Thromboembolic Events

In pooled safety population, 3.5% of patients experienced a venous thromboembolic event, including Grade 3 to 4 in 2.2% of patients. Pancreatic Function

Pancreatitis was observed in 1 patient (1%) in the pNET study, 5 patients (1%) in the treatment-naïve RCC study, and 1 patient (< 1%) in the

ant treatment for RCC study on sunitinib. 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of sunitinib. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Blood and lymphatic system disorders: hemorrhage associated with thrombocytopenia*.

Gastrointestinal disorders: esophagitis. Hepatobiliary disorders: cholecystitis, particularly acalculous cholecystitis. Immune system disorders: hypersensitivity reactions, including angioedema.

Infections and infestations: serious infection (with or without neutropenia)*. The infections most commonly observed with sunitinib

include respiratory, urinary tract, skin infections, and sepsis/septic shock. *Musculoskeletal and connective tissue disorders*: fistula formation, some tion, sometimes associated with tumor necrosis and/or regression' myopathy and/or rhabdomyolysis with or without acute renal failure*.

and urinary disorders: renal i

Permanent discontinuation due to an adverse reaction occurred in 22% in the sunitinib arm. Dose interruptions occurred in 30% and dose The reddish brown gelatin capsule shells contain ferric oxide red and titanium dioxide. The caramel gelatin capsule shells contain ferric oxide dioxide yellow, ferrosoferric oxide and titanium dioxide. The yellow gelatin capsue shells contain ferric oxide yellow and titanium dioxide. The white printing ink contains potassium hydroxide, shellac and titanium dioxide. The black printing ink contains ferrosoferric oxide, ootassium hydroxide and shellac Table 8. Adverse Reactions Reported in ≥ 10% of Patients With pNET Who Received Sunitinib and More Commonly Than in Patients 12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action Sunitinib is a small molecule that inhibits multiple receptor tyrosine kinases (RTKs), some of which are implicated in tumor growth, pathologic angiogenesis, and metastatic progression of cancer. Sunitinib was evaluated for its inhibitory activity against a variety of kinases (> 80 kinases)

to 16.7 mg, 33.4 mg, 50.1 mg, or 66.8 mg of sunitinib malate, respectively) together with croscarmellose sodium, magnesium stearate,

and was identified as an inhibitor of platelet-derived growth factor receptors (PDGFRa and PDGFRb), vascular endothelial growth factor

After a radiolabeled dose of sunitinib, approximately 61% of the dose was recovered in feces and 16% in urin

Specific Populations

Patients with Renal Impairment

Drug Interaction Studies Clinical Studies

In Vitro Studies

as 1 mg/kg/day [ap

wed by a 14-day respite).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

aberration] and an in vivo rat bone marrow micronucleus test.

Sunitinib and its primary active metabolite were the major compounds identified in urine and feces, representing 86% and 74% of radioactivity,

No clinically significant differences in the pharmacokinetics of sunitinib or the primary active metabolite were observed based on age (18 to 84 years), body weight (34 to 168 kg), race (White, Black, or Asian), sex, Eastern Cooperative Oncology Group (ECOG) score, mild (Child Pugh Class A) or moderate (Child-Pugh Class B) hepatic impairment.

No clinically significant differences in the pharmacokinetics of sunitinib or its active metabolite were predicted or observed in patients with mild

Clars 50 to 80 mL/min), moderate (CLar 30 to < 50 mL/min), or severe (CLar < 30 mL/min), moderate (CLar 30 to < 50 mL/min), or severe (CLar 30 to < 50 mL/min), moderate (CLar 30 to < 50 mL/min), or severe (CLar 30 to < 50 mL/min), severe (CLar 30 to < 50 mL/min),

Effect of strong CYP3A4 inhibitors on sunitinib: Co-administration of a single sunitinib dose with ketoconazole (strong CYP3A4 inhibitor) ncreased the combined sunitinib and its active metabolite C_{max} and AUCO-inf by 49% and 51%, respectively, in healthy subj

Effect of strong CYP3A4 inducers on sunitinib: Co-administration of a single sunitinib dose with rifampin (strong CYP3A4 inducer) reduced

In vitro studies in human hepatocytes and microsomes indicated that sunitinib and the primary active metabolite do not induce CYP1A2

CYP2E1, and CYP3A4/5, or inhibit CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1, CYP3A4/5, and CYP4A9/11

The carcinogenic potential of sunitinib has been evaluated in 2 species: rasH2 transgenic mice and Sprague-Dawley rats. There were similar

ne datingenin portation of samma do science and the spectral carcinomas and/or gastric mucosal hyperplasia, as well as an increased incidence of background hemangiosarcomas were observed at sunitinib daily doses of ≥25 mg/kg/day in studies of 1 or 6 months

duration. No proliferative changes were observed in rasH2 transgenic mice at 8 mg/kg/day. Similarly, in a 2-year rat carcinogenicity study,

administration of sunitinib in 28-day cycles followed by 7-day dose-free periods resulted in findings of duodenal carcinoma at doses as low

RDD of 50 mg), the incidence of duodenal tumors was increased and was accompanied by findings of gastric mucous cell hyperplasia and

Sunitinib did not cause genetic damage when tested in *in vitro* assays [bacterial mutation (Ames test), human lymphocyte chromosome

In a female fertility and early embryonic development study, female rats were administered oral sunitinib (0.5, 1.5, 5 mg/kg/day) for 21 days

na demai teruiny and gany enoryond development study, remae tak were administered of a summing (o.g., r.g., or mydydy) for 2 rema prior to mating and for 7 days after mating. Premiphatation loss was observed in females administered 5 mg/kg/day (approximate) 5 times he combined AUC in patients administered the RDD of 50 mg). No adverse effects on fertility were observed at doses ≤ 1.5 mg/kg/day

provide many and the second s

vere identified in a 3-month oral repeat-dose monkey study (2, 6, 12 mg/kg/day). Ovarian changes (decreased follicular development) were

before a transfer of the province of the second se

AUC in patients administered the RDD of 50 mg) in a 9-month monkey study (0.3, 1.5, and 6 mg/kg/day administered daily for 28 days

In a male fertility study, no reproductive effects were observed in male rats dosed with 1, 3, or 10 mo/kg/day oral sunitinib for 58 days prior to

With the addition of vaginal atrophy, the uterine and ovarian effects were reproduced at 6 mg/kg/day (approximately 0.8 times the c

ased incidence of pheochromocytoma and hyperplasia of the adrenal gland.

radium of summing in 20-bay cycles forlowed by "Ady doserver periods resulted in minings of doublent carchinita a double at Kyc/day (approximately 0.9 times the combined AUC (combined systemic exposure of sumitini plus its active metabolite) in patients tered the RDD of 50 mg]. At the high dose of 3 mg/kg/day (approximately 8 times the combined AUC in patients administered the

ed sunitinib and its active metabolite C_{max} and AUC_{0-inf} by 23% and 46%, respectively in healthy subjects

exposure was 47% lower in patients with end stage renal disease (ESRD) on hemodialysis compared to patients with normal renal function.

annitol and povidone (K-30) as inactive ingredients.

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
- blisters or rash on the palms of diarrhea
- your hands and soles of your feet • pain, swelling or sores high blood pressure inside of your mouth
- nausea taste changes
- low platelet counts loss of appetite
- 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, ferrosoferric

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: ferrosoferric oxide, potassium hydroxide and shellac.

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Manufactured by:

Sun Pharmaceutical Industries Ltd. Survey No. 259/15, Dadra-396 191 (U.T. of D & NH), India. Distributed by: Sun Pharmaceutical Industries, Inc. Cranbury, NJ 08512

FDA-04 September 2021

- events included cerebrovascular accident, transient ischemic attack, and cerebral infarction, General disorders and administration site conditions: impaired wound healing. *including some fatalities DRUG INTERACTIONS
- 7.1 Effect of Other Drugs on Sunitinib

Strong CYP3A4 Inhibitors Co-administration with strong CYP3A4 inhibitors may increase sunitinib plasma concentrations [see Clinical Pharmacology (12.3)]. Select an alternate concomitant medication with no or minimal enzyme inhibition potential. Consider a dose reduction for sunitinib when it is coadministered with strong CYP3A4 inhibitors [see Dosage and Administration (2.5)].

Strong CYP3A4 Inducers Co-administration with strong CYP3A4 inducers may decrease sunitinib plasma concentrations [see Clinical Pharmacology (12.3)]. Select an alternate concomitant medication with no or minimal enzyme induction potential. Consider a dose increase for sunitinib when it must be

co-administered with CYP3A4 inducers [see Dosage and Administration (2.5)] 7.2 Drugs that Prolong QT Interval

Sunitinib is associated with QTc interval prolongation [see Warnings and Precautions (5.3), Clinical Pharmacology (12.2)]. Monitor the QT interval with ECGs more frequently in patients who require treatment with concomitant medications known to prolong the QT interval. 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy Risk Summary

Based on animal reproduction studies and its mechanism of action, sunitinib can cause fetal harm when administered to a pregnant woma based on annual reproduction sources and its mechanism of action, some number of a source real name mechanism of action, some number of the source and the source of the s and reproductive schemology studies of a dummation of pulsation of program read and radius motions of pulsations (source) is the reartogenicity (embryolethality, cranicfacial and skeletal malformations) at 55 and 0.3 times the combined AUC (the combined systemic exposure of sunitinib plus its active metabolite) in patients administered the recommended daily doses (RDD) of 50 mg, respectively (see Data). Advise females of reproductive potential of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated populations are unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriages in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Animal Data

In a female fertility and early embryonic development study, female rats were administered oral sunitinib (0.5, 1.5, 5 mg/kg/day) for 21 days prior to mating and for 7 days after mating. Embryolethality was observed at 5 mg/kg/day (approximately 5 times the combined AUC in patients administered the RDD of 50 mg).

In embryo-fetal developmental toxicity studies, oral sunitinib was administered to pregnant rats (0.3, 1.5, 3, 5 mg/kg/day) and rabbits (0.5, 1, 5, 20 mg/kg/day) during the period of organogenesis. In rats, embryolethality and skeletal malformations of the ribs and vertebrae were observed at the dose of 5 mg/kg/day (approximately 5.5 times the combined AUC in patients administered the RDD of 50 mg). No adverse So that the observed in the start doese $\leq 3 \text{ mg/kg/day}$ (approximately 2 times the combined AUC in patients administered the RDD of 50 mg), and cranidacial malformations (cleft lip and cleft palate) were observed at $\geq 1 \text{ mg/kg/day}$ (approximately 0.3 times the combined AUC in patients). AUC in patients administered the RDD of 50 mg).

Sunitinib (0.3, 1, 3 mg/kg/day) was evaluated in a pre- and postnatal development study in pregnant rats. Maternal body weight gains were reduced during gestation and lactation at doses \geq 1 mg/kg/day (approximately 0.5 times the combined AUC in patients administered the RDD of 50 mg). At 3 mg/kg/day (approximately 2 times the combined AUC in patients administered the RDD of 50 mg), reduced neonate body weights were observed at birth and persisted in the offspring of both sexes during the preveaning period and in males during postwarning period. No adverse developmental effects were observed at doses $\leq 1 \text{ mg/kg/day}$.

8.2 Lactation There is no information regarding the presence of sunitinib and its metabolites in human milk. Sunitinib and its metabolites were excreted in

rat milk at concentrations up to 12-fold higher than in plasma (see Data). Because of the potential for serious adverse reactions in breastfed infants, advise women not to breastfeed during treatment with sunitinib and for at least 4 weeks after the last dose. Data Animal Data

In lactating female rats administered 15 mg/kg, sunitinib and its metabolites were excreted in milk at concentrations up to 12-fold higher than

8.3 Females and Males of Reproductive Potential Sunitinib can cause fetal harm when administered to a pregnant woman [see Use in Specific Populations (8.1)]. Pregnancy Testing

Verify pregnancy status of females of reproductive potential prior to initiating treatment with sunitinib Contraception

Females Advise females of reproductive potential to use effective contraception during treatment with sunitinib and for at least 4 weeks after the last dose.

Males Based on findings in animal reproduction studies, advise males with female partners of reproductive potential to use effective contraception Juring treatment with sunitinib and for 7 weeks after the last dose

Infertility Based on findings in animals, sunitinib may impair male and female fertility [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and effectiveness of sunitinib in pediatric patients have not been established. Safety and pharmacokinetics of sunitinib were addition, efficacy, safety and pharmacokinetics of sunitinib was assessed in another open-label study (NCT00387920) in pediatric patients 2 years to <17 years of age (n = 29) with refactory solid tumors. In addition, efficacy, safety and pharmacokinetics of sunitinib was assessed in another open-label study (NCT01462695) in pediatric patients 2 years to < 17 years of age (n = 27) with high-grade glioma or ependymoma. The maximum tolerated dose (MTD) normalized for body surface reare (BSA) was lower in pediatric patients compared to adults. Sunitini was poorly tolerated using the pediatric patients compared to adults. Sunitini was poorly tolerated in pediatric patients. The occurrence of dose-limiting cardiotoxicity prompted an amendment of the NCT00387920 study to exclude patients with previous exposure to anthracyclines or cardiac radiation. No responses were reported in patients in either of the trials.

Apparent clearance and volume of distribution normalized for BSA for sunitinib and its active major metabolite were lower in pediatrics as compared to adults. The effect on open tibial growth plates in pediatric patients who received sunitinib has not been adequately studied. See Juvenile Animal

Toxicity Data below. Juvenile Animal Toxicity Data

Physeal dysplasia was present in cynomolgus monkeys with open growth plates treated with sunitinib for ≥ 3 months (3 month dosing 2, 6, 12 mg/kg/day; 8 cycles of dosing 0.3, 1.5, 6.0 mg/kg/day) at doses that were

> 0.4 times the combined AUC (the combined systemic exposure of sunitinib plus its active metabolite) in patients administered the RDD of 50 mg. The no-effect level (NOEL) was 1.5 mg/kg/day in monkeys treated intermittently for 8 cycles, but was not identified in monkeys treated continuously for 3 months. In developing rats treated continuously for 3 months (1.5, 5.0, and 15.0 mg/kg) or 5 cycles (0.3, 1.5, and 6.0

mg/kg/day), bone abnormalities consisted of thickening of the epiphyseal cartilage of the femur and an increase of fracture of the tibia at doses ≥ 5 mg/kg (approximately 10 times the combined AUC in patients administered the RDD of 50 mg). Additionally, tooth caries were present in rats at > 5 mg/kg. The incidence and severity of physeal dysplasia were dose related and reversible upon cessation of treatment; however, findings in the teeth were not. In rats, the NOEL in bones was ≤ 2 mg/kg/day. 8.5 Geriatric Use

Of the 7527 patients with GIST, RCC (advanced and adjuvant), or pNET who received sunitinib, 32% were 65 years and older, and 7% were 75 years and older. Patients aged 65 years of age and older had a higher incidence of Grade 3 or 4 adverse reactions (67%) than younger patients (60%). n the GIST study, 73 (30%) of the patients who received sunitinib were 65 years and older. In the mRCC study, 152 (41%) of patients who

received sunitinib were 65 years and older. No overall differences in safety or effectiveness were observed between these patients and younger natients

In the pNET study, 22 (27%) of the patients who received sunitinib were 65 years and older. Clinical studies of sunitinib did not include sufficient numbers of patients with pNET to determine if patients 65 years of age and older respond differently than younger patients. 8.6 Hepatic Impairment

No dose adjustment is required in patients with mild or moderate (Child-Pugh Class A or B) hepatic impairment [see Clinical Pharmacology (12.3)]. Sunitinib was not studied in patients with severe (Child-Pugh Class C) hepatic impairment.

8.7 Renal Impairment No dose adjustment is recommended in patients with mild (CL_{cr} 50 to 80 mL/min), moderate (CL_{cr} 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 to < 50 mL/min), or severe (CL_{cr} < 30 mL/min) mL/min) renal impairment who are not on dialysis [see Clinical Pharmacology (12.3)].

No dose adjustment is recommended for patients with end-stage renal disease (ESRD) on hemodialysis [see Clinical Pharmacology (12.3)]. 10 OVERDOSAGE

Freatment of overdose with sunitinib should consist of general supportive measures. There is no specific antidote for overdosage with sunitinib If indicated, elimination of unabsorbed drug should be achieved by emesis or gastric lavage. Cases of accidental overdose have been reported; these cases were associated with adverse reactions consistent with the known safety profile of sunitinib, or without adverse reactions. In nonclinical studies, mortality was observed following as few as 5 daily doses of 500 mg/kg (3000 mg/m²) in rats. At this dose, signs of toxicity included impaired muscle coordination, head shakes, hypoactivity, ocular discharge, piloerection, and gastrointestinal distress. Mortality and similar signs of toxicity were observed at lower doses when administered for longer durations

11 DESCRIPTION

Sunitinib is a kinase inhibitor present in sunitinib malate capsules as the malate salt. Sunitinib malate is described chemically as N-[2-(Diethylamino)ethyl]-5-[(Z)-(5-fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxamide, compound with (S)-2-hydroxybutanedioic acid. The molecular formula is $C_{22}H_{27}FN_Q_2$, $C_{4}H_{6}O_{5}$ and the molecular weight is 532.57 Daltons. The chemical structure of sunitinib malate is:

g with untreated females. Fertility, copulation, conception indices, and sperm evaluated by subjicition at doses < 10 mg/kg/day (approximately > 26 times the combined 14 CLINICAL STUDIES 14.1 Gastrointestinal Stromal Tum

Study 1 Study 1 (NCT#00075218) was a 2-arm international randomized double-blind placebo-controlled trial of supitivib in patients with GIST who had disease progression during prior intalling merilational international barrier or who were intolerant of intallini. The objective was to compare time-to-tumor progression (TTP) in patients receiving sunitinib plus best supportive care versus patients receiving placebo plus best supportive care. Other objectives included progression-free survival (PFS), objective response rate (ORR), and overall survival (OS). Patients were andomized (2:1) to receive either 50 mg sunitinib or placebo orally, once daily, on Schedule 4/2 until disease progression or withdrawal from the study for another reason. Treatment was unbinded at the time of disease progression. Patients randomized to placebo were then offered crossover to open-label sunitinib and patients randomized to sunitinib were permitted to continue treatment per investigator judgment. At the time of a prespecified interim analysis, the intent-to-treat (ITT) population included 312 patients. Two hundred seven (207) patients were randomized to the sunitinib arm and 105 patients were randomized to the placebo arm. Demographics were comparable between the sunitinib and placebo groups with regard to age (69% versus 72% < 65 years for sunitinib versus placebo, respectively), sex (male: 64% versus 61%), race (Mhite: 88% both arms, Asian: 5% both arms, Black 4% both arms, Familder not reported), and performance status (ECOG 0: 44% versus 46%, ECOG 1: 55% versus 52%, and ECOG 2: 1% versus 26%). Prior treatment included surgery (94% versus 93%) and radiotherapy (8% versus 15%). Outcome of prior imatinib treatment was also comparable between arms with intolerance (4% versus 93%). 4%), progression within 6 months of starting treatment (17% versus 16%), or progression beyond 6 months (78% versus 80%) balanced. The planned interim efficacy and safety analysis was performed after 149 TTP events had occurred. There was a statistically significant advantage for sunitinib over placebo in TTP, meeting the primary endpoint. Efficacy results are summarized in Table 10 and the Kaplan-Meier curve for TTP is shown in Figure 1.

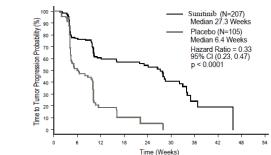
Table 10. GIST Efficacy Results From Study 1 (Double-Blind Treatment Phase)

n	Efficacy Parameter	Sunitinib (N = 207)	Placebo (N = 105)	p-value (log-rank test)	HR (95% CI)
al n	Time-to-tumor progression ^a [median, weeks (95% CI)]	27.3 (16.0, 32.1)	6.4 (4.4, 10.0)	< 0.0001*	0.33 (0.23, 0.47)
ic ee	Progression-free survival ^b [median, weeks (95% CI)]	24.1 (11.1, 28.3)	6.0 (4.4, 9.9)	< 0.0001	0.33 (0.24, 0.47)
	Objective response rate (PR) [%, (95% CI)]	6.8	0	0.006 ^c	

(3.7, 11.1) A comparison is considered statistically significant if the p-value is < 0.00417 (O'Brien Fleming stopping boundary). Abbreviations: CI=confidence interval; GIST=gastrointestinal stromal tumor; HR=hazard ratio; N=number of patients; PR=partial respons Time from randomization to progression; deaths prior to documented progression were censored at time of last radiographic evaluatio

ne from randomization to progression or death due to any cause. Pearson chi-square test.

Figure 1. Kaplan-Meier Curve of TTP in GIST Study 1 (Intent-to-Treat Population)



Abbreviations: CI=confidence interval; GIST=gastrointestinal stromal tumor; N=number of patients; TTP=time-to-tumor progression

The final ITT population enrolled in the double-blind treatment phase of the study included 243 patients randomized to the sunitinib arm and 118 patients randomized to the placebo arm. After the primary endpoint was met at the interim analysis, the study was unblinded, and patients to the placebo arm were offered open-label sunitinib treatment. Ninety-nine (99) of the patients initially randomized to placebo are to receive sunitinib in the open-label treatment phase. At the protocol specified final analysis of OS, the median OS was 72.7 weeks for the sunitinib arm and 64.9 weeks for the placebo arm [hazard ratio (HR) = 0.876, 95% confidence interval (CI) (0.679, 1.129)].

Study 2 was an open-label, multi-center, single-arm, dose-escalation study conducted in patients with GIST following progression on, or intolerance to imatinib. Following identification of the recommended regimen (50 mg once daily on Schedule 4/2), 55 patients in this study received the 50 mg dose of sunitinib on treatment Schedule 4/2. Partial responses (PR) were observed in 5 of 55 patients (9.1% PR rate; 95% CI: 3.0%, 20.0%).

14.2 Renal Cell Carcinoma Freatment-Naïve

Study 3 (NCT#00083889) was a multi-center, international, randomized study comparing single-agent sunitinib with interferon alfa was conducted in patients with treatment-naïve RCC. The objective was to compare PFS in patients receiving sunitinib versus patients receiving interferon alfa. Other endpoints included ORR, OS, and safety. Seven hundred fifty (750) patients were randomized (1:1) to receive either 50 ng sunitinib once daily on Schedule 4/2 or to receive interferon alfa administered subcutaneously at 9 million international units (MIU) 3 imes a week. Patients were treated until disease progression or withdrawal from the study.

The ITT population included 750 patients, 375 randomized to sunitinib and 375 randomized to interferon alfa, Demographics were comparable Here hopping of the sound of a planet of the sound of a monotone of a monotone of the sound eported), and performance status (ECOG 0: 62% versus 61%, ECOG 1: 38% each arm, ECOG 2: 0 versus 1%). Prior treatment included performance of the second second second and the second sec

There was a statistically significant advantage for sunitinib over interferon alfa in the endpoint of PFS (see Table 11 and Figure 2). In the prespecified stratification factors of lactate dehydrogenase (LDH) (> 1.5 ULN versus ≤ 1.5 ULN), ECOG performance status (0 versus 1), and prior nephrectomy

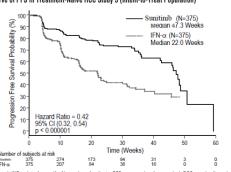
yes versus no), the hazard ratio favored sunitinib over interferon alfa. The ORR was higher in the sunitinib arm (see Table 11). Fable 11. Treatment-Naïve RCC Efficacy Results (Interim Analysis) from Study 3

SunitinibInterferon Alfap-value(N = 375)(N = 375)(log-rank test)

Progression-free survival ^a [median, weeks (95% CI)]	47.3 (42.6, 50.7)	22.0 (16.4, 24.0)	< 0.000001 ^b	0.415 (0.320, 0.539)	
Objective response rate ^a [%, (95% CI)]	27.5 (23.0, 32.3)	5.3 (3.3, 8.1)	< 0.001°	NA	
Abbreviations: Cl=confidence interval; HR=hazard ratio; N=number of patients; NA=not applicable; RCC=renal cell carcinoma.					

A comparison is considered statistically significant if the p-value is < 0.0042 (O'Brien Fleming stopping boundary)

Figure 2, Kaplan-Meier Curve of PFS in Treatment-Naïve RCC Study 3 (Intent-to-Treat Population



nterval; INF-α=interferon-alfa; N=number of patients; PFS=progression-free survival; RCC=renal cell carcinoma

Infertility At the protocol-specified final analysis of OS, the median OS was 114.6 weeks for the sunitinib arm and 94.9 weeks for the interferon alfa arm Advise patients that sunitinib malate capsules may impair male and female fertility [see Use in Specific Populations (8.3), Nonclinical Toxicology Here Dotto specified marging of Os, the restance of was 15.0 weeks to the samining and and a specified interferon alta and (HR = 0.821; 98% CL 0.673, 1.001). The median OS for the interferon alta arm includes 25 patients who discontinue interferon alta arm who because of disease progression and crossed over to treatment with sunitinib as well as 121 patients (32%) on the interferon alta arm who (13.1)]. Missed Dose eceived post-study cancer treatment with sunitinib. Advise patients that miss a dose of sunitinib malate capsules by less than 12 hours to take the missed dose right away. Advise patients that miss a dose of sunitinib malate capsules by more than 12 hours to take the next scheduled dose at its regular time.

Cytokine-Refractory

The use of single-agent sunitinib in the treatment of cytokine-refractory RCC was investigated in 2 single-arm, multi-center studies. All patients enrolled into these studies experienced failure of prior cytokine-based therapy. In Study 4 (NCT#00077974), failure of prior cytokine therapy vas based on radiographic evidence of disease progression defined by response evaluation criteria in solid tumors (RECIST) or World Health Interference of the second sec NCT#00054886), failure of prior cytokine therapy was defined as disease progression or unacceptable treatment-related toxicity. The endpoint

	(N = 00)	(N = 00)		(90 % 61)
gression-free survival [median, months (95% CI)]	10.2	5.4	0.000146 ^a	0.427
	(7.4, 16.9)	(3.4, 6.0)		(0.271, 0.673)
ective response rate [%, (95% CI)]	9.3	0	0.0066 ^b	NA
	(3 2 15 4)			

_____ Sunitinib (N=86) Median 10.2 months

Placebo (N=85) Median 5.4 month

Placebo p-value

study entry included lung metastases in 81% of patients. Liver metastases were more common in Study 4 (27% versus 16% in Study 5) and

bone metastases were more common in Study 5 (51% versus 25% in Study 4); 52% of patients in the pooled population had at least 3 metastatic sites. Patients with known brain metastases or leptomeningeal disease were excluded from both studies.

The ORR and DR data from Studies 4 and 5 are provided in Table 12. There were 36 PRs in Study 4 as assessed by a core radiology laboratory for an ORR of 34.0% (95% CI: 25.0%, 43.8%). There were 23 PRs in Study 5 as assessed by the investigators for an ORR of 36.5% (95%

was observed in Cycle 10. DR data from Study 4 is premature as only 9 of 36 patients (25%) responding to treatment had experienced disease

In the adjuvant treatment setting, sunitinib was investigated in S-TRAC (NCT#00375674), a multi-center, international, randomized, double bind, placebo-controlled, trial in patients with high risk of recurrent RCC following nephrectomy. Patients were required to have, cecar cell histology and high risk of recurrence defined as ≥ 13 and/or N+ tumors. Six hundred fifteen (615) patients were randomized 1:1 to receive

either 50 mg sunitinib once daily on Schedule 4/2 or placebo. Patients were treated for 9 cycles (approximately 1 year), or until disease

Demographics were generally comparable between the sunitinib and placebo arms with regard to age (median age 58 years), sex (73% male)

and race (84% White, 12% Asian and 4% Other). At randomization, most patients had an ECOG performance status of 0 (74% sunitinib and

72% placebo). The remainder of the patients had an ECOG performance status of 1; 1 patient on sunitinib had a performance status of 2.

The major efficacy outcome measure was disease-free survival (DFS) in patients receiving sunitinib versus placebo as assessed by blinded

Independent central review (BICR). Overall survival was an additional endpoint. There was a statistically significant improvement in DFS in patients who were treated with sunitinib compared to placebo (Table 13 and Figure 3). Prespecified subgroup analyses are presented in Table

N = 309

(5.8, NR)

(36.6%)

^a P-value based on log-rank test stratified by University of California Los Angeles Integrated Staging System (UISS) prognostic group; HR based on a Cox proportional

Abbreviations: BICR=blinded independent central review; CI=confidence interval; DFS=disease-free survival; HR=hazard ratio; N=number of patients; RCC=renal cel

Placebo

46/112

79/166

19/28

4

Study 6 (NCT#00428597) was a multi-center, international, randomized, double-blind, placebo-controlled study of single-agent sunitir

conducted in patients with unresectable pNET. Patients were required to have documented RECIST-defined disease progression within the

prior 12 months and were randomized (1:1) to receive either 37.5 mo sunitinib (N = 86) or placebo (N = 85) once daily without a scheduler

prior transmit and the relation of the relatio

Demographics were comparable between the sunitinib and placebo groups. Additionally, 49% of sunitinib patients had nonfunctioning tumors vs 52% of placebo patients, and 92% patients in both arms had liver metastases. A total of 66% of sunitinib patients received prior systemic

therapy compared with 72% of placebo patients and 35% of sunitinib patients had received somatostatin analogs compared with 38% of

placebo patients. Patients were treated until disease progression or withdrawal from the study. Upon disease progression or study closure, patients were offered access to sunitinib in a separate extension study.

As recommended by the Independent Data Monitoring Committee, the study was terminated prematurely prior to the prespecified interim analysis. This may have led to an overestimate of the magnitude of PFS effect. A clinically significant improvement for suntiluit over placebo in PFS was seen by both investigator and independent assessment. A hazard ratio favoring sunitinib was observed in all subgroups of baseline

characteristics evaluated. OS data were not mature at the time of the analysis. There were 9 deaths in the sunitinib arm and 21 deaths in the

placebo arm. A statistically significant difference in ORR favoring sunitinib over placebo was observed. Efficacy results are summarized ir Table 15 and the Kaplan-Meier curve for PFS is in Figure 4.

Sunitinib

9 12 Time (Months)

Hard gelatin capsule with opaque reddish brown cap and opaque reddish brown body, self-lock capsule, imprinted with 'RM53' on cap and

Hard gelatin capsule with opaque caramel cap and opaque reddish brown body, self-lock capsule, imprinted with 'RM54' on cap and 'RM54'

Hard gelatin capsule with opaque yellow cap and opaque yellow body, self-lock capsule, imprinted with 'RM55' on cap and 'RM55' on body

Hard gelatin capsule with opaque caramel cap and opaque caramel body, self-lock capsule, imprinted with 'RM56' on cap and 'RM56' on body in white ink, containing Yellow to orange colored powder ; available in:

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [See USP Controlled Room Temperature].

Inform patients of the signs and symptoms of hepatotoxicity. Advise patients to contact their healthcare provider immediately for signs or symptoms of hepatotoxicity [see Warnings and Precautions (5.1)].

nform patients of the signs and symptoms of QT prolongation. Advise patients to contact their healthcare provider immediately in the event

nform patients of the signs and symptoms of hypertension. Advise patients to undergo routine blood pressure monitoring and to contact their

health care provider if blood pressure is elevated or if they experience signs or symptoms of hypertension [see Warnings and Precautions (5.4)]

Advise patients that sunitinib malate capsules can cause severe bleeding. Advise patients to immediately contact their healthcare provider for

Advise patients that gastrointestinal disorders such as diarrhea, nausea, vomiting, and constipation may develop during sunitinib malate

capsules treatment and to seek immediate medical attention if they experience persistent or severe abdominal pain because cases of gastrointestinal perforation and fistula have been reported in patients taking sunitinib malate capsules [see Warnings and Precautions (5.5),

Advise patients that depigmentation of the hair or skin may occur during treatment with sunitinib malate capsules due to the drug color (yellow). Other possible dermatologic effects may include dryness, thickness or cracking of skin, blister or rash on the palms of the hands and soles of the feet. Severe dermatologic toxicities including Stevens-Johnson syndrome, Toxic Epidermal Necrolysis, erythema multiforme,

and necrotizing fasciitis have been reported. Advise patients to immediately inform their healthcare provider if severe dermatologic reactions

Inform patients of the signs and symptoms of reversible posterior leukoencephalopathy syndrome. Advise patients to contact their healthcare

Advise patients that sunitinib malate capsules can cause thyroid dysfunction. Advise patient to contact their healthcare provider if symptoms

Advise patients that sunitinib malate capsules can cause severe hypoglycemia and may be more severe in patients with diabetes taking antidiabetic medications. Inform patients of the signs, symptoms, and risks associated with hypoglycemia. Advise patients to immediately inform their healthcare provider if severe signs or symptoms of hypoglycemia occur [see Warnings and Precautions (5.12)].

Advise patients regarding good oral hygiene practices and to inform their healthcare provider of any planned dental procedures. Advise patients to immediately contact their healthcare provider for signs or symptoms associated with osteonecrosis of the jaw (see Warnings and

Advise patients that sunitinib malate capsules impairs wound healing. Advise patients to inform their healthcare provider of any planned surgical procedures [see Warnings and Precautions (5.14)].

Advise patients to inform their healthcare providers of all concomitant medications, including over-the-counter medications and dietary

Advise females of reproductive potential to use effective contraception during treatment and for 4 weeks after receiving the last dose of

Advise males with female partners of reproductive potential to use effective contraception during treatment and for 7 weeks after receiving

Advise women not to breastfeed during treatment with sunitinib malate capsules and for at least 4 weeks after the last dose [see Use in

Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to inform their

healthcare provider of a known or suspected pregnancy [see Warnings and Precautions (5.15), Use in Specific

provider if they develop symptoms of reversible posterior leukoencephalopathy syndrome [see Warnings and Precautions (5.10)].

Advise patients to contact their healthcare provider if they develop symptoms of heart failure [see Warnings and Precautions (5.2)].

NDC 63304-091-27

NDC 63304-091-8

NDC 63304-092-27

NDC 63304-092-86

NDC 63304-093-2

NDC 63304-093-8

NDC 63304-094-27

NDC 63304-094-8

Jumher of subjects at risk Sunitinib 86 53 35 19 14 4 1 Planobin 85 41 16 8 2 2 2

Number of subjects at risk Sunitinib 309 225 173 153 144 119 53 PLACEBO 306 220 181 150 135 102 37

59.3%

N = 306

(3.8, 6.6)

(47.1%

51.3%

Sunitinib

(5.2. NR)

6.8

(5.0. NR)

(1.2, NR)

PLACEBO (N=306) Median 5.6 Years

5 6 7 8

Median DFS

[years (95% CI)

Placeb

6.4

(4.7. NR)

5.3

(2.9. NR)

(0.4, 3.0)

0.03

14. At the time of the DFS analysis, overall survival data were not mature, with 141/615 (23%) patient deaths

Table 13. Disease-free Survival Results as Assessed by BICR in Adjuvant RCC (Intent to Treat Population) from S-TRA

Number of Events/Total

Abbreviations: CI=confidence interval; DFS=disease-free survival; HR=hazard ratio; N=number of patients; n=number of events; NR=not reache

diate: T3, N0 or NX, M0, any Fuhrman's grade, ECOG PS 0 OR T3, N0 or NX, M0, Fuhrman's grade 1, ECOG PS ≥ 1

d T4/Node Positive: T4, N0 or NX, M0, any Fuhrman's grade, any ECOG PS OR Any T, N1-2, M0, any Fuhrman's grade, any ECOG PS

Figure 3. Kaplan-Meier Curve of Disease-free Survival as Assessed by BICR (Intent-to-Treat Population)

Sunitinih

35/115

63/165

15/29

(N = 106)

(25.0, 43.8)

(42.0, *)

(N = 63)

(24.7.49.6)

(34.3, 70.1)

(95% CI)

0.76

(0.59, 0.98)

(95% CI)

(0.53, 1.28)

(0.55, 1.07)

(0.31, 1.23)

HR

CI: 24.7%, 49.6%). The majority (> 90%) of objective disease responses were observed during the first 4 cycles; the latest reported resp

ession or died at the time of the data cutoff.

bjective response rate [%, (95% CI)]

Assessed by blinded core radiology laborator

Assessed by investigators

Median DFS [years (95% CI)]

DES Event

3 High^c

4/Node Positive

HR based on a Cox pro

C T3 High: T3, N0 or NX, M0, Fuhrman's grade ≥ 2, ECOG PS ≥ 1

14.3 Pancreatic Neuroendocrine Tumors

70-60-50-40-

Abbreviations: BICR=blinded independent central review: CI=confidence interval: N=number of patients

5 Year DFS Rate

Adjuvant Treatment

ration of response [median, weeks (95% Cl

*Data not mature enough to determine upper confidence lin

recurrence, unacceptable toxicity, or withdrawal of consent.

Table 14. Disease-free Survival by Baseline Disease Characteristics

Efficacy Paramete

Table 12. Cytokine-Refractory RCC Efficacy Results from Study 4 and Study 5

Abbreviations: CI=confidence interval; N=number of patients; NR=not reached; RCC=renal cell carcinoma

Abbreviations: CI=confidence interval; HR=hazard ratio; N=number of patients; NA=not applicable; pNET=pancreatic neuroendocrine tumors a 2-sided unstratified log-rank test her's Exact test

zard Ratio = 0.427

95% CI (0.271 - 0.673) p = 0.000146

3 6

Figure 4, Kaplan-Meier Curve of PES in the nNET Study 6

16 HOW SUPPLIED/STORAGE AND HANDLING

Bottles of 28 cansules with child-resistant closure

Bottles of 28 capsules with child-resistant closure:

Bottles of 28 capsules with child-resistant closure:

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

bleeding or symptoms of bleeding [see Warnings and Precautions (5.5)]

occur [see Warnings and Precautions (5.9), and Adverse Reactions (6.1)].

of abnormal thyroid function occur [see Warnings and Precautions (5.11)].

Reversible Posterior Leukoencephalopathy Syndrome

of syncope, pre-syncopal symptoms, and cardiac palpitations [see Warnings and Precautions (5.3)].

Carton of 28 capsules (4 x 7 Unit-dose):

QT Prolongation and Torsade de Pointes

Keep out of reach of children.

'RM53' on body in white ink, containing yellow to orange colored powder; available in

on body in white ink, containing yellow to orange colored powder; available in: Bottles of 28 capsules with child-resistant closure: NDC 63

in black ink, containing yellow to orange colored powder; available in:

Table 15. pNET Efficacy Results from Study 6

Efficacy Paramete

12.5 mg capsules

25 mg capsules

37.5 mg capsules

50 mg capsules

Hepatotoxicity

Hypertension

Hemorrhagic Events

Gastrointestinal Disorders

and Adverse Reactions (6.1)].

Thyroid Dysfunction

Osteonecrosis of the Jaw

Impaired Wound Healing

Concomitant Medications

Embryo-Fetal Toxicity

Populations (8,1)1.

Specific Populations (8.2)1.

Sun Pharmaceutical Industries Ltd.

Survey No. 259/15. Dadra-396 191 (U.T. of D & NH), India.

Lactation

lements [see Drug Interactions (7)].

sunitinib malate capsules [see Use in Specific Populations (8.3)].

the last dose of sunitinib malate capsules [see Use in Specific Populations (8.3)].

Precautions (5.13)].

Hypoglycemia

(95% CI)

Dermatologic Effects and Toxicities

Cardiovascular Events

For more information, call 1-800-818-4555.	H H CH ₃	for both studies was ORR. Duration of response (DR) was also evaluated. One hundred and six patients (106) were enrolled into Study 4 and 63 patients were enrolled into Study 5. Patients received 50 mg sunitinib on Schedule 4/2. Therapy was continued until the patients met withdrawal criteria or had progressive disease. The baseline age, sex, race,	Distributed by: Sun Pharmaceutical Industries, Inc. Cranbury, NJ 08512	522372
This Medication Guide has been approved by the U.S. Food and Drug Administration	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $	and ECOG performance statuses of the patients were comparable between Studies 4 and 5. Approximately 86% to 94% of patients in the 2 studies were White. Men comprised 65% of the pooled population. The median age was 57 years and ranged from 24 to 87 years in the studies. All patients had an ECOG performance status < 2 at the screening visit. The baseline malignancy and prior treatment history of the patients were comparable between Studies 4 and 5. Across the 2 studies, 95% of the pooled population of patients had at least some component of clear-cell histology. All patients in Study 4 were required to have a histological clear-cell component. Most patients in prior nephrectomy; prior nephrectom; prior nephrectom; prior nephr	September 2021 FDA-04	