PRODUCT MONOGRAPH

PrTeva-Sunitinib

Sunitinib Capsules

12.5 mg, 25 mg and 50 mg sunitinib per capsule (as sunitinib malate)

Tyrosine Kinase Inhibitor, Anti-Tumour Agent

Teva Canada Limited 30 Novopharm Court Toronto, Ontario M1B 2K9

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Teva-Sunitinib Capsules Page 1 of 73

Table of Contents

PART I: HEALTH PROFESSIONAL INFORMATION	3
SUMMARY PRODUCT INFORMATION	
INDICATIONS AND CLINICAL USE	
CONTRAINDICATIONS	
WARNINGS AND PRECAUTIONS	
ADVERSE REACTIONS	
DRUG INTERACTIONS	
DOSAGE AND ADMINISTRATION	
OVERDOSAGE	35
ACTION AND CLINICAL PHARMACOLOGY	
STORAGE AND STABILITY	
SPECIAL HANDLING INSTRUCTIONS	
DOSAGE FORMS, COMPOSITION AND PACKAGING	
,	
PART II: SCIENTIFIC INFORMATION	
PHARMACEUTICAL INFORMATION	
CLINICAL TRIALS	
DETAILED PHARMACOLOGY	54
MICROBIOLOGY	56
TOXICOLOGY	57
REFERENCES	
PART III: CONSUMER INFORMATION	69

PrTeva-Sunitinib

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PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form / Strength	All Nonmedicinal Ingredients
Oral	Hard Gelatin Capsules / 12.5 mg, 25 mg and 50 mg	Croscarmellose Sodium, Magnesium Stearate, Mannitol and Povidone.
		The capsule shells contain D&C Red #28 (12.5 mg and 25 mg), FD&C Blue #1, FD&C Red #40, FD&C Yellow #6 (25 mg and 50 mg), Titanium Dioxide and Gelatin. The printing ink contains, Black Iron Oxide, Butyl Alcohol, D&C Yellow #10, FD&C Blue #1, FD&C Blue #2, FD&C Red #40, Methanol, Propylene Glycol and Shellac.

INDICATIONS AND CLINICAL USE

Teva-Sunitinib (sunitinib malate) is indicated for:

- the treatment of gastrointestinal stromal tumour (GIST) after failure of imatinib mesylate treatment due to resistance or intolerance.
 Approval of Teva-Sunitinib is based on Time to Tumour Progression (TTP). Overall survival advantage could not be confirmed (see CLINICAL TRIALS section).
- the treatment of metastatic renal cell carcinoma (MRCC) of clear cell histology. Approval for MRCC is based on statistically significant progression free survival in patients with good performance status (ECOG 0-1). There was a trend for overall survival advantage (see CLINICAL TRIALS).
- the treatment of patients with unresectable locally advanced or metastatic, well-differentiated pancreatic neuroendocrine tumours (pancreatic NET), whose disease is progressive.
 - Approval for pancreatic NET is based on progression free survival in patients with good performance status (ECOG 0-1) (see CLINICAL TRIALS section).

Teva-Sunitinib Capsules Page 3 of 73

Pediatrics:

The safety and efficacy of sunitinib in pediatric patients have not been established (see WARNINGS AND PRECAUTIONS, and TOXICOLOGY).

Geriatrics (> 65 years of age):

Of 825 GIST and MRCC patients who received sunitinib in clinical trials, 277 (34%) were 65 and over. In the Phase 3 pancreatic NET study, 22 (27%) patients who received sunitinib were 65 and over. No overall differences in safety or efficacy were observed between younger and older patients.

CONTRAINDICATIONS

Use of Teva-Sunitinib (sunitinib malate) is contraindicated in patients with hypersensitivity to sunitinib malate or to any other component of Teva-Sunitinib. For a complete listing, see the **DOSAGE FORMS, COMPOSITION AND PACKAGING** section of the Product Monograph.

Teva-Sunitinib is contraindicated in pregnant women.

WARNINGS AND PRECAUTIONS

Serious Warnings and Precautions

Patients receiving therapy with Teva-Sunitinib (sunitinib malate) should be monitored by a qualified physician experienced in the use of anti-cancer agents.

- Tumour Hemorrhage (see WARNINGS AND PRECAUTIONS, Hemorrhage)
- Decreases in left ventricular ejection fraction (LVEF), including fatal cases (see WARNINGS AND PRECAUTIONS, Left Ventricular Dysfunction)
- Hypertension (see WARNINGS AND PRECAUTIONS, Hypertension)
- QT Interval Prolongation, including fatality (see WARNINGS AND PRECAUTIONS, QT Interval Prolongation and DRUG INTERACTIONS).
- Cardiomyopathy, including fatal cases (see **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions)
- Cases of cerebrovascular and cardiovascular events, including fatal cases (see WARNINGS AND PRECAUTIONS, Arterial Thromboembolic Events)
- Pulmonary embolism, including fatal cases (see **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions)
- Thrombotic Microangiopathy, including fatal cases (see WARNINGS AND PRECAUTIONS, Thrombotic Microangiopathy)
- Sunitinib has not been studied in patients with severe hepatic impairment.
- Fatal Hepatotoxicity (see **WARNINGS AND PRECAUTIONS**, Hepatic/Biliary/Pancreatic and Thyroid Dysfunction, and **ADVERSE REACTIONS**, Post-Market Adverse Drug

Teva-Sunitinib Capsules Page 4 of 73

- Reactions)
- Myopathy and/or rhabdomyolysis, including fatality (see ADVERSE REACTIONS, Post-Market Adverse Drug Reactions)
- Renal failure, including fatal cases (see **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions)
- Reversible Posterior Leukoencephalopathy Syndrome, including fatal cases (see WARNINGS AND PRECAUTIONS, Seizures and ADVERSE REACTIONS, Post-Market Adverse Drug Reactions)
- Pleural Effusion, including fatal cases (see ADVERSE REACTIONS, Post-Market Adverse Drug Reactions)

Carcinogenesis and Mutagenesis

The carcinogenic potential of sunitinib has been evaluated in rasH2 transgenic mice and in Sprague-Dawley rats.

In rasH2 transgenic mice, gastroduodenal carcinomas, an increased incidence of background hemangiosarcomas, and gastric mucosal hyperplasia have been observed at doses of ≥ 25 mg/kg/day following 1- or 6-months duration (≥ 7.3 times the AUC in patients administered the RDD). No proliferative changes were observed in rasH2 transgenic mice at 8 mg/kg/day (≥ 0.7 times the AUC in patients administered the RDD).

In a 2-year rat carcinogenicity study (0, 0.33, 1, or 3 mg/kg/day), administration of sunitinib in 28-day cycles followed by 7-day dose-free periods resulted in duodenal carcinomas in Brunner's glands, increases in the incidence of pheochromocytomas and hyperplasia in the adrenal medulla of male rats given 3 mg/kg/day following > 1 year of dosing ($\ge 7.8 \text{ times the AUC}$ in patients administered the RDD).

The relevance to humans of the neoplastic findings observed in the mouse (rasH2 transgenic) and rat carcinogenicity studies with sunitinib treatment is unclear (see **TOXICOLOGY**, Carcinogenicity).

Sunitinib has been tested for genotoxicity in a series of *in vitro* assays (bacterial mutation [Ames Assay], human lymphocyte chromosome aberration) and an *in vivo* rat bone marrow micronucleus test and did not cause genetic damage.

Cardiovascular

Hypertension

Blood pressure was monitored on a routine basis in the clinical studies. Hypertension was a very common adverse reaction reported in clinical trials in subjects with solid tumors, including primarily GIST and cytokine-refractory RCC¹. In the treatment-naïve MRCC study, two patients were discontinued due to treatment-related hypertension, including one with malignant

Teva-Sunitinib Capsules Page 5 of 73

¹ From initial clinical trials including primarily patients with GIST and cytokine-refractory MRCC

hypertension, and one patient in the pancreatic NET study discontinued due to treatment-related Grade 3 hypertension.

In the GIST trial (Study A), hypertension (all grades) was reported as an adverse event in 51/257 (19%) patients on SUTENT and 7/102 (7%) patients on placebo. Severe hypertension (> 200 mmHg systolic or > 110 mmHg diastolic) occurred in 9/237 (4%) patients on sunitinib and no patients on placebo. Sunitinib dosing was neither delayed nor reduced due to hypertension in any of the GIST patients in the GIST pivotal trial.

Treatment-related hypertension was reported in approximately 30% of patients receiving sunitinib for treatment-naïve MRCC compared to 2% of patients receiving interferon-alfa (IFN- α). Severe hypertension (> 200 mmHg systolic or > 110 mmHg diastolic) occurred in 9% of treatment-naïve patients on sunitinib and 1% of patients on IFN- α .

In the cytokine-refractory metastatic RCC (MRCC) trials, hypertension (all grades) was reported as an adverse event in 47/169 (28%) patients on sunitinib. Hypertension (>150 mmHg systolic or >100 mmHg diastolic) occurred at least once during the study for 86/165 (52%) patients on sunitinib; severe hypertension (> 200 mmHg systolic or > 110 mmHg diastolic) occurred in 10/165 (6%) patients on sunitinib. Sunitinib dosing was delayed or reduced due to hypertension in 8/165 (4%) cytokine-refractory MRCC patients.

Of patients receiving sunitinib in the Phase 3 pancreatic NET study, 19/83 patients (23%) on sunitinib and 3/82 (4%) patients on placebo experienced treatment-related hypertension. Grade 3 treatment-related hypertension was reported in 8/83 (10%) pancreatic NET patients on SUTENT, and 0/82 (0%) patients on placebo. Sunitinib dosing was delayed or reduced due to hypertension in 6/83 (7%) of pancreatic NET patients. Severe hypertension (> 200 mmHg systolic or > 110 mmHg diastolic) occurred in 8/80 (10%) of pancreatic NET patients on sunitinib and 2/76 (3%) patients on placebo.

Patients should be monitored for hypertension and treated as appropriate with standard antihypertensive therapy. Temporary suspension of Teva-Sunitinib is recommended in patients with severe hypertension. Treatment may be resumed once hypertension is controlled.

Patients with hypertension that is not controlled by medications should not be treated with Teva-Sunitinib.

Serious cases of artery dissection have been reported in patients using VEGFR TKIs, including sunitinib, with or without hypertension.

Left Ventricular Dysfunction

Cardiovascular events, including heart failure, myocardial disorders (see arterial thromboembolic events subsection) and cardiomyopathy, some of which were fatal, have been reported through post-marketing experience.

Teva-Sunitinib Capsules Page 6 of 73

Decreases in left ventricular ejection fraction (LVEF) of \geq 20% and below the lower limit of normal (LLN) occurred in approximately 2% of sunitinib-treated GIST patients, 4% of sunitinib-treated cytokine-refractory MRCC patients and 2% of placebo-treated patients.

In the double-blind treatment phase of GIST Study A, 22 patients (11%) on sunitinib and 3 patients (3%) on placebo had treatment-emergent LVEF values below LLN. Nine (9) of 22 GIST patients on sunitinib with LVEF changes recovered without intervention. Five (5) patients had documented LVEF recovery following intervention (dose reduction- 1 patient; addition of antihypertensive or diuretic medications- 4 patients). Six (6) patients went off study without documented recovery. Additionally, 3 patients (1%) on sunitinib had Grade 3 reductions in left ventricular systolic function to LVEF < 40%; 2 of these patients died without receiving further study drug.

In the treatment-naïve MRCC study, 27% and 15% of patients on sunitinib and IFN- α , respectively, had an LVEF value below the LLN. Two (<1%) patients who received sunitinib were diagnosed with congestive heart failure (CHF). One of the two patients with CHF discontinued the study.

In cytokine-refractory MRCC Studies 1 and 2, a total of 24 patients (14%) had treatment-emergent LVEF values below the LLN. Five (5) of 24 patients on sunitinib with LVEF changes recovered without intervention. Five (5) patients had documented LVEF recovery following intervention (dose reduction- 3 patients; addition of antihypertensive or diuretic medications- 2 patients). Eight (8) patients went off study without documented recovery and 6 patients are ongoing on study without recovery.

In the Phase 3 pancreatic NET study, fatal cardiac failure was reported in two patients (2%) on sunitinib and no patients on placebo.

Patients who presented with cardiovascular events such as myocardial infarction (including severe/unstable angina), coronary/peripheral artery bypass graft, symptomatic CHF, cerebrovascular accident or transient ischemic attack, or pulmonary embolism within 12 months prior to sunitinib administration, were excluded from sunitinib clinical studies. It is unknown whether patients with these concomitant conditions may be at a higher risk of developing drug-related left ventricular dysfunction. Physicians are advised to weigh this risk against the potential benefits of the drug. These patients should be carefully monitored for clinical signs and symptoms of CHF while receiving Teva-Sunitinib. Baseline and periodic evaluations of LVEF should also be considered while these patients are receiving Teva-Sunitinib. In patients without cardiac risk factors, a baseline evaluation of ejection fraction should be considered.

In the presence of clinical manifestations of CHF, discontinuation of Teva-Sunitinib is recommended. The dose of Teva-Sunitinib should be interrupted and/or reduced in patients without clinical evidence of CHF but with an ejection fraction < 50% and > 20% below baseline.

QT Interval Prolongation

Teva-Sunitinib Capsules Page 7 of 73

QT interval prolongation, including fatality, with sunitinib use has been reported in clinical trials. There is clinical evidence that sunitinib prolongs QT interval, PR interval, and decreases the heart rate (see CLINICAL PHARMACOLOGY section). Patients with QTc interval prolongation, atrioventricular (AV) block, and those taking concomitant drugs with dysrhythmic potential were excluded from the pivotal trials, therefore there is no information regarding safety of sunitinib therapy in this group. Because excessive prolongation of the PR interval can result in AV block, caution should be used if Teva-Sunitinib is prescribed to patients in combination with other drugs that also cause PR interval prolongation, such as beta-blockers, calcium channel blockers, digitalis, or HIV protease inhibitors.

Pre-clinical data (*in vitro* and *in vivo*) demonstrate sunitinib causes QT interval prolongation (see **DETAILED PHARMACOLOGY**).

Particular care should be exercised when administering Teva-Sunitinib to patients who are at an increased risk of experiencing torsade de pointes during treatment with a QTc-prolonging drug, or who are taking concomitant drugs with potential to cause QTc interval prolongation (see **DRUG INTERACTIONS** section).

Bradycardia and AV block are recognized risk factors for torsade de pointes. For this reason, because sunitinib causes QTc prolongation in association with prolongation of the PR and RR intervals, this raises particular concern with respect to proarrhythmic potential. QT interval prolongation may lead to an increased risk of torsade de pointes. Torsade de pointes has been observed in <0.1% of sunitinib-exposed patients.

Teva-Sunitinib therapy should be discontinued if symptoms suggestive of arrhythmia occur.

Thrombotic Microangiopathy

Thrombotic microangiopathy (TMA) (including cases identified as thrombotic thrombocytopenic purpura [TTP] and haemolytic uraemic syndrome [HUS]), sometimes leading to renal failure or a fatal outcome, has been reported in clinical trials and in post-marketing experience of sunitinib as monotherapy and in combination with bevacizumab (see **ADVERSE REACTIONS**, Post-market Adverse Drug Reactions). Permanently discontinue Teva-Sunitinib in patients developing TMA. Reversal of the effects of TMA has been observed after treatment was discontinued consistent with a role reported for inhibitors of the VEGF pathway in this event. Teva-Sunitinib is not indicated for use in combination with other agents.

Venous Thromboembolic Events/ Pulmonary Embolism

In the double-blind treatment phase of a Phase 3 GIST study, seven (7) patients (3%) on sunitinib and none on placebo experienced venous thromboembolic events; 5 of the 7 were Grade 3 deep vein thrombosis (DVT), and 2 were Grade 1 or 2. Four (4) of these 7 GIST patients discontinued treatment following first observation of DVT. Four (4) GIST patients receiving sunitinib experienced a Grade 3/4 pulmonary embolism. All 4 GIST patients had a dose interruption or delay, but were able to continue on sunitinib. Two (2) patients receiving placebo experienced pulmonary embolism. No fatalities related to pulmonary embolism were reported.

Teva-Sunitinib Capsules Page 8 of 73

Thirteen (3%) patients receiving sunitinib for treatment-naïve MRCC and 4 (2%) patients on the 2 cytokine-refractory MRCC studies had treatment-emergent venous thromboembolic events reported. Seven (7) of the treatment-naïve MRCC patients had pulmonary embolism, 1 was Grade 2 and 6 were Grade 4. Six (6) of the treatment-naïve MRCC patients had DVT, including 3 Grade 3. One subject with pulmonary embolism in the cytokine-refractory MRCC study experienced dose interruption. In treatment-naïve MRCC patients receiving IFN- α , 6 (2%) venous thromboembolic events occurred; 1 patient (<1%) experienced a Grade 3 DVT and 5 patients (1%) had pulmonary embolism, all Grade 4.

One patient (1%) receiving sunitinib for pancreatic NET had a venous thromboembolic event reported compared to 5 patients (6%) receiving placebo. The patient receiving sunitinib had Grade 2 thrombosis. Of the 5 patients in the placebo arm who had venous thromboembolic events, two patients had DVT (Grade 3 in one patient and Grade 2 in one patient), two patients had pulmonary embolism (Grade 3 in one patient and Grade 4 in one patient), and one patient had Grade 3 jugular vein thrombosis.

Arterial Thromboembolic Events

Cases of arterial thromboembolic events, sometimes fatal, have been reported in patients treated with sunitinib. The most frequent events included cerebrovascular accident, transient ischemic attack and cerebral infarction. Risk factors associated with ATE, in addition to the underlying malignant disease and age ≥ 65 years, included hypertension, diabetes mellitus, and prior thromboembolic disease.

Cases of myocardial ischemia and myocardial infarction, some of which were fatal, have been reported through post-marketing experience. Use Teva-Sunitinib with caution in patients who are at risk for, or who have a history of, these events.

At the time of initial registration, in the clinical trials supporting the indications of GIST and MRCC, there were no cases of myocardial ischemia or myocardial infarction in patients with GIST exposed to either sunitinib or placebo. Two (2) patients with treatment-naïve MRCC experienced treatment-related myocardial infarction (Grade 4), while 2 patients had Grade 3 myocardial ischemia. Two (2) patients with cytokine-refractory MRCC experienced Grade 3 myocardial ischemia, 1 had Grade 2 "cardiovascular toxicity" reported as an adverse event and 1 patient experienced a fatal myocardial infarction while on treatment.

In a pooled analysis of 10 clinical studies of sunitinib in RCC, GIST, and pNET, involving 7115 subjects, the frequency of myocardial ischemia/myocardial infarction events is 2.0%.

Drug Interactions

Sunitinib is metabolized primarily by CYP3A4. Potential interactions may occur with drugs that are inhibitors or inducers of this enzyme system (see **DRUG INTERACTIONS**).

Endocrine and Metabolism

Teva-Sunitinib Capsules Page 9 of 73

Adrenal Function Effects

Adrenal toxicity was noted in pre-clinical repeat dose studies of 14 days to 9 months in rats and monkeys at plasma exposures as low as 1.1 times the AUC observed in clinical studies. Histological changes of the adrenal gland were characterized as hemorrhage, necrosis, congestion, hypertrophy and inflammation. In clinical studies, CT or MRI scanning performed on 336 patients treated with sunitinib demonstrated no evidence of adrenal gland hemorrhage or necrosis. ACTH stimulation testing was conducted in over 400 patients across multiple clinical trials of sunitinib. In the GIST studies, 13 patients with normal baseline testing had abnormalities at post-baseline testing consisting of: peak cortisol levels post-stimulation less than normal (497 nmol/L, or 18 mcg/dL); failure of stimulation to increase cortisol level by a normal amount (193 nmol/L, or 7 mcg/dL); or failure of ACTH Gel test to detect doubling of cortisol level post-stimulation. None of these patients were reported to have clinical evidence of adrenal insufficiency. In the cytokine-refractory MRCC studies, 28 patients with normal baseline testing had abnormalities at post-baseline testing and 3 patients had a treatment-emergent adverse event of adrenal insufficiency, which were not considered by the investigator to be related to SUTENT.

Patients treated with Teva-Sunitinib should be monitored for adrenal insufficiency when they experience stress such as surgery, trauma, or severe infection.

Hypoglycemia

Decreases in blood glucose, in some cases clinically symptomatic with serious outcomes, have been reported during sunitinib treatment in both diabetic and non-diabetic patients. Blood glucose levels should be checked regularly in all patients. For patients receiving anti-diabetic drugs, drug dosages may need to be adjusted to minimize the risk of hypoglycemia.

Thyroid dysfunction

Treatment-emergent acquired hypothyroidism was noted in 4% of GIST patients on sunitinib versus 1% on placebo. Although not prospectively studied in clinical trials, treatment-related hypothyroidism was reported as an adverse event in 15% of patients on sunitinib in the treatment-naïve MRCC study and two patients (0.6 %) in the IFN- α arm, and in 4% of patients across the two cytokine-refractory MRCC studies. Additionally, thyroid stimulating hormone (TSH) elevations were reported in 2% of cytokine-refractory MRCC patients. Treatment-related hypothyroidism was reported as an adverse reaction in 5/83 patients (6%) on sunitinib in the Phase 3 pancreatic NET study and in 1/82 patients (1%) in the placebo arm.

Cases of hyperthyroidism, some followed by hypothyroidism, and cases of thyroiditis have been uncommonly reported in clinical trials and through post-marketing experience.

Baseline laboratory measurement of thyroid function is recommended in all patients. During sunitinib treatment, routine monitoring of thyroid function should be performed every 3 months. All patients should be observed closely for signs and symptoms of thyroid dysfunction on sunitinib treatment. Patients with signs and/or symptoms suggestive of thyroid dysfunction, such as fatigue, should have laboratory monitoring of thyroid function performed and be treated as per standard medical practice. Thyroid hormone replacement therapy should be initiated and maintained according to the current recommended guidelines. Careful dosage titration of thyroid

Teva-Sunitinib Capsules Page 10 of 73

hormone replacement therapy should be considered to decrease the risk of rapid and unpredictable hepatic failure when used in conjunction with sunitinib therapy. Close observation of liver function tests and thyroid function is required when patients are receiving both sunitinib and thyroid hormone replacement therapy (see WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests section).

Gastrointestinal

Esophagitis

Cases of esophagitis have been reported in clinical trials and in the post market setting.

Gastrointestinal Perforation

Serious, sometimes fatal gastrointestinal complications including gastrointestinal perforation, (likely linked to tumour necrosis) have occurred in patients with intra-abdominal malignancies treated with sunitinib.

Gastrointestinal Events

In 6 pooled studies composed primarily of patients with GIST and MRCC, nausea, diarrhea, stomatitis, dyspepsia and vomiting were the most commonly reported treatment-related gastrointestinal events. Supportive care for gastrointestinal adverse events requiring treatment may include anti-emetic or anti-diarrheal medication.

Hemorrhage

Hemorrhagic events reported through post-marketing experience, some of which were fatal, have included GI, respiratory, tumour, urinary tract and brain hemorrhages. In the double-blind treatment phase of GIST pivotal trial (Study A), bleeding events occurred in 20% of patients (41/202) receiving sunitinib, compared to 11% (11/102) receiving placebo. In GIST Study A, 14/202 patients (7%) receiving sunitinib and 9/102 patients (9%) on placebo had Grade 3 or 4 bleeding events. In addition, 1 patient in Study A taking placebo had a fatal gastrointestinal bleeding event during cycle 2.

In patients receiving sunitinib for treatment-naïve MRCC, 28% of patients had treatment-related bleeding events compared with 3% of patients receiving IFN- α . Eleven (2.1%) patients on sunitinib versus 1 (0.3%) patient on IFN- α experienced Grade 3 or greater treatment-related bleeding events.

Bleeding events occurred in 50/169 (26%) patients receiving sunitinib for cytokine-refractory MRCC. Most events in cytokine-refractory MRCC patients were Grade 1 or 2; there was one Grade 3 event (bleeding foot wound). Two (2) cytokine-refractory MRCC study patients with pulmonary metastases experienced hemoptysis considered to be related to sunitinib administration.

Epistaxis was the most common hemorrhagic adverse event reported. Treatment-related epistaxis was reported in 16/83 patients (19%) receiving sunitinib for pancreatic NET and in 2/82 patients

Teva-Sunitinib Capsules Page 11 of 73

(2%) receiving placebo. Less common bleeding events in MRCC, GIST and pancreatic NET patients included rectal, gingival, upper GI, genital and wound bleeding.

In the Phase 3 pancreatic NET study, 1/83 patients (1%) receiving sunitinib had Grade 3 epistaxis, and no patients had other Grade 3 or 4 bleeding events. In pancreatic NET patients receiving placebo, no patients had Grade 3 or 4 bleeding events. Treatment-related bleeding events, excluding epistaxis, occurred in 16/83 patients (19%) receiving sunitinib in the Phase 3 pancreatic NET study, compared to 3/82 patients (4%) receiving placebo.

Treatment-related tumour hemorrhage has been observed in patients receiving sunitinib. These events may occur suddenly, and in the case of pulmonary tumours, may present as severe and life-threatening hemoptysis or pulmonary hemorrhage. Fatal pulmonary hemorrhage occurred in 2 patients receiving sunitinib in a clinical trial of patients with metastatic non-small cell lung cancer (NSCLC). Both patients had squamous cell histology. Teva-Sunitinib is not approved for use in patients with NSCLC. Treatment-related Grade 3 and 4 tumour hemorrhage occurred in 4/257 (approximately 2%) of GIST patients treated with sunitinib. One (1) patient with tumour hemorrhage had the sunitinib dose temporarily delayed. No patients discontinued treatment due to tumour hemorrhage.

Routine assessment of this event should include serial complete blood counts (CBCs) and physical examination.

Hematologic Events

Decreased absolute neutrophil counts of Grade 3 and 4 severity were reported in 13.1% and 0.9% patients, respectively. One (1) case of febrile neutropenia was reported in a patient receiving sunitinib on the GIST pivotal trial (Study A). Fatal disseminated intravascular coagulation (DIC) secondary to sepsis has also been reported. Decreased platelet counts of grade 3 and 4 severity were reported in 4% and 0.5% of patients respectively. The above events were not cumulative, were typically reversible and generally did not result in treatment discontinuation. Rare cases of fatal pneumonia and sepsis, with or without neutropenia, have been reported.

Complete blood counts should be performed at the beginning of each treatment cycle for patients receiving treatment with Teva-Sunitinib. Supportive care for hematologic events may include colony stimulating factors.

Hepatic/Biliary/Pancreatic

Sunitinib has been associated with hepatotoxicity, which may result in liver failure or death. Liver failure has been observed in clinical trials (< 1%) and post-marketing experience. Liver failure signs include jaundice, elevated transaminases and/or hyperbilirubinemia in conjunction with encephalopathy, coagulopathy, and/or renal failure. Monitor liver function tests (alanine aminotransferase [ALT], aspartate aminotransferase [AST], and bilirubin) before initiation of treatment, during each cycle of treatment, and as clinically indicated. Teva-Sunitinib should be

Teva-Sunitinib Capsules Page 12 of 73

interrupted for Grade 3 or 4 drug related hepatic adverse events and discontinued if there is no resolution. Do not restart Teva-Sunitinib if patients subsequently experience severe changes in liver function tests or have other signs and symptoms of liver failure.

Safety in patients with ALT or AST >2.5 x upper limit of normal (ULN) or, if due to liver metastases, >5.0 x ULN has not been established.

Pancreatitis has been reported in clinical trials of sunitinib. Grade 3 and 4 increases in serum lipase have been observed in 20 sunitinib patients (10%) versus 7 placebo patients (7%) with GIST. Grade 3 and 4 increases in amylase have been observed in 10 sunitinib patients (5%) versus 3 placebo patients (3%) with GIST. In patients with treatment-naïve MRCC, Grade 3 or 4 increases in amylase and lipase have been observed in 6% and 18% of sunitinib-treated patients and in 3% and 7% of patients receiving IFN-α. In the cytokine-refractory MRCC studies, grade 3 or 4 increases in amylase and lipase have been observed in 4.8% and 16.9% of sunitinib-treated patients, respectively. Increases in lipase levels were transient and were generally not accompanied by signs or symptoms of pancreatitis in subjects receiving sunitinib for GIST or MRCC. Hepatic failure was observed in <1% of solid tumour patients treated with sunitinib. If symptoms of pancreatitis or hepatic failure are present, patients should have Teva-Sunitinib discontinued and be provided with appropriate medical care.

Cases of cholecystitis, including acalculous cholecystitis and emphysematous cholecystitis, have been reported in patients treated with sunitinib (with fatal outcome in some cases).

Metabolism and Nutritional Disorders

Tumour Lysis Syndrome (TLS)

Cases of TLS, some fatal, have been rarely observed in clinical trials and have been reported in post-marketing experience in patients treated with sunitinib. Patients generally at risk of TLS are those with high tumour burden prior to treatment. These patients should be monitored closely and treated as clinically indicated.

Neurologic

Seizures

Sunitinib has not been studied in patients with known brain metastases. In clinical studies of sunitinib, seizures have been observed in < 1% of subjects with radiological evidence of brain metastases.

In addition, there have been rare (< 1%) reports, some fatal, of subjects presenting with seizures and radiological evidence of reversible posterior leukoencephalopathy syndrome (RPLS). Patients with seizures and signs/symptoms consistent with RPLS, such as hypertension, headache, decreased alertness, altered mental functioning and visual loss, including cortical blindness should be controlled with medical management including control of hypertension. Discontinuation of Teva-Sunitinib is recommended; following resolution, treatment may be resumed at the discretion of the treating physician, although the evidence to support this

Teva-Sunitinib Capsules Page 13 of 73

recommendation (restarting treatment) is extremely limited.

Osteonecrosis of the Jaw (ONJ)

Cases of ONJ have been reported in patients treated with sunitinib. Treatment with sunitinib may be an additional risk factor for the development of osteonecrosis of the jaw. The majority of cases occurred in patients who had received prior or concomitant treatment with IV bisphosphonates, for which ONJ is an identified risk. Caution should therefore be exercised when sunitinib and IV bisphosphonates are used either simultaneously or sequentially.

Invasive dental procedures are also an identified risk factor for ONJ. Prior to treatment with sunitinib, a dental examination and appropriate preventive dentistry should be considered. In patients being treated with sunitinib, who have previously received or are receiving IV bisphosphonates, invasive dental procedures should be avoided, if possible.

Renal

Cases of renal impairment and/or failure, in some cases with fatal outcome, have been reported.

Cases of proteinuria and nephrotic syndrome have been reported. Baseline urinalysis is recommended, and patients should be monitored for the development or worsening of proteinuria. The safety of continued sunitinib treatment in patients with moderate to severe proteinuria has not been systematically evaluated. Discontinue sunitinib in patients with nephrotic syndrome.

Skin and Tissues

Skin discoloration, possibly due to the active substance color (yellow) is a common treatment-related adverse event occurring in approximately 30% of patients. Patients should be advised that depigmentation of the hair or skin may also occur during treatment with Teva-Sunitinib. Other possible dermatologic effects may include dryness, thickness or cracking of the skin, blisters or occasional rash on the palms of the hands and soles of the feet.

The above events were not cumulative, were typically reversible, generally did not result in treatment discontinuation and may include topical therapies for symptomatic relief.

Rare cases of necrotizing fasciitis, including of the perineum, sometimes fatal, have been reported (see **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions). Teva-Sunitinib therapy should be discontinued in patients who develop necrotizing fasciitis, and appropriate treatment should be promptly initiated.

Cases of pyoderma gangrenosum have been reported (see **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions).

Severe cutaneous reactions have been rarely reported, including cases of erythema multiforme

Teva-Sunitinib Capsules Page 14 of 73

(EM) and Stevens-Johnson syndrome (SJS) and cases suggestive of toxic epidermal necrolysis (TEN). Some of these cases were life-threatening and fatal. If signs or symptoms of SJS, TEN, or EM (e.g. progressive skin rash often with blisters or mucosal lesions) are present, Teva-Sunitinib treatment should be discontinued. If the diagnosis of SJS or TEN is confirmed, treatment must not be restarted. In some cases of suspected EM, patients tolerated the reintroduction of sunitinib therapy at a lower dose after resolution of the reaction. A decision to re-initiate Teva-Sunitinib after resolution of suspected EM is at the discretion of the treating physician as there is limited evidence to support this recommendation.

Wound Healing / Surgery

No formal clinical studies of the effect of sunitinib on wound healing have been conducted. Impaired wound healing has been reported in patients treated with sunitinib. It is recommended that Teva-Sunitinib therapy be interrupted in patients undergoing major surgical procedures. Due to limited clinical experience regarding the timing of re-initiation of sunitinib therapy in the post-operative period, the decision to resume Teva-Sunitinib therapy should be based upon clinical judgment of recovery from surgery.

Special Populations

Pregnant Women:

There are no adequate and well-controlled studies of sunitinib in pregnant women. Repeat-dose studies in animals have shown effects in reproductive organs, as well as embryolethality and fetal structural abnormalities, at maternal systemic exposures less than those achieved in humans at the recommended human dose (see **TOXICOLOGY**– Reproductive and Developmental Toxicity). Teva-Sunitinib should not be used during pregnancy or in any woman not employing adequate contraception. If the drug is used during pregnancy, or if the patient becomes pregnant while receiving this drug, the patient should be apprised of the potential hazard to the fetus (see **TOXICOLOGY** – Reproductive and Developmental Toxicity). Women of childbearing potential should be advised to avoid becoming pregnant while receiving treatment with Teva-Sunitinib.

Nursing Women:

Sunitinib and/or its metabolites are excreted in rat milk. It is not known whether sunitinib or its primary active metabolite are excreted in human milk. Because drugs are commonly excreted in human milk and, because of the potential for serious adverse reactions in nursing infants, women should be advised against breastfeeding while taking Teva-Sunitinib.

Male Contraception:

Male patients should be surgically sterile or agree to use effective contraception during the period of therapy with Teva-Sunitinib. Teva-Sunitinib may cause embryonal and fetal developmental effects should the female partner of a male taking Teva-Sunitinib become pregnant as the drug may be present in the semen.

Fertility:

Teva-Sunitinib Capsules Page 15 of 73

In the definitive fertility study in rats, no effects were observed on male or female fertility. However, effects of sunitinib on male and female reproductive systems have been observed in other non-clinical studies so sunitinib treatment may result in adverse effects on reproductive function and fertility in the clinical setting. The safety of sunitinib on reproductive function has not been evaluated in patients.

Pediatrics:

The safety and efficacy of sunitinib in pediatric patients have not been established (see **INDICATIONS AND CLINICAL USE** and **TOXICOLOGY**). However, physeal dysplasia was observed in Cynomolgus monkeys with open growth plates treated for 3 months with sunitinib at doses that were approximately 0.4 times the recommended human dose (RHD) based on systemic exposure (AUC). The incidence and severity of physeal dysplasia were dose-related and were reversible upon cessation of treatment.

Hepatic Insufficiency:

A single 50 mg dose of sunitinib was administered to patients with mild (Child-Pugh Class A) and moderate (Child-Pugh Class B) hepatic impairment, and to control group of patients with normal hepatic function. The pharmacokinetic parameters evaluated demonstrated that dose adjustments might not be necessary for patients with mild (Child-Pugh Class A) or moderate (Child-Pugh Class B) hepatic impairment. However, sunitinib was not studied in subjects with severe (Child-Pugh Class C) hepatic impairment. In addition, repeated administration of sunitinib was not studied in subjects with hepatic impairment.

Renal Insufficiency:

Safety and efficacy of sunitinib have not been established in patients with severe renal impairment or with end-stage renal disease (ESRD) on hemodialysis. Phase 3 studies that were conducted excluded patients with serum creatinine > 2.0 x ULN. However, in a small Phase 1 study, systemic exposures after a single 50 mg dose of sunitinib were similar in 8 subjects with severe renal impairment (CLcr < 30 mL/min) compared to 8 subjects with normal renal function (CLcr > 80 mL/min), although the variability was greater in the patients with severe renal impairment. Even though sunitinib and its primary metabolite were not eliminated through hemodialysis in 8 subjects with ESRD, the total systemic exposures were lower by 47% for sunitinib and 31% for its primary metabolite compared to 8 subjects with normal renal function, most likely due to a lower absorption of sunitinib in subjects with ESRD.

Based on pharmacokinetic data from this Phase 1 study, no adjustment to starting dose is required when administering sunitinib to patients with renal impairment (mild-severe) or with end-stage renal disease (ESRD) on hemodialysis. Subsequent dose modifications should be based on individual safety and tolerability (see **DOSAGE AND ADMINISTRATION**, Dose Modification). Repeated administration of sunitinib was not studied in subjects with renal impairment.

Cases of renal impairment and failure, including fatalities, have been reported with sunitinib use. Caution and careful monitoring of patients with severe renal impairment or ESRD on

Teva-Sunitinib Capsules Page 16 of 73

hemodialysis is required while on Teva-Sunitinib.

Monitoring and Laboratory Tests

CBCs and serum chemistries (including liver function tests, creatinine, electrolytes, magnesium, calcium, phosphate, amylase, and lipase) should be performed at the beginning of each treatment cycle for patients receiving treatment with Teva-Sunitinib. In the event of an electrolyte abnormality, there should be prompt correction of the imbalance.

Baseline laboratory measurement of thyroid function is recommended in all patients. Patients with pre-existing hypothyroidism or hyperthyroidism should be treated as per standard medical practice prior to the start of Teva-Sunitinib treatment. During Teva-Sunitinib treatment, routine monitoring of thyroid function should be performed every 3 months. In addition, patients should be observed closely for signs and symptoms of thyroid dysfunction during treatment, and patients who develop any signs and/or symptoms suggestive of thyroid dysfunction should have laboratory testing of thyroid function performed as clinically indicated. Patients who develop thyroid dysfunction should be treated as per standard medical practice.

Cases of proteinuria and rare cases of nephrotic syndrome have been reported. Baseline

Cases of proteinuria and rare cases of nephrotic syndrome have been reported. Baseline urinalysis is recommended, and patients should be monitored for the development or worsening of proteinuria.

Baseline ECG should be conducted prior to starting Teva-Sunitinib, and ECGs should be performed periodically during therapy. SUTENT should generally not be prescribed to patients with abnormally long baseline QT/QTc intervals or AV block. If there are symptoms suggestive of arrhythmia or if the QT/QTc interval becomes markedly prolonged while the patient is on Teva-Sunitinib, the drug should be discontinued.

Blood glucose levels should be checked regularly in all patients. For patients receiving antidiabetic drugs, drug dosages may need to be adjusted to minimize the risk of hypoglycemia.

ADVERSE REACTIONS

Overview

The data described below reflect exposure to sunitinib in 660 patients who participated in a placebo-controlled trial (n=202) for the treatment of GIST, an active-controlled trial (n=375) for the treatment of MRCC, or a placebo-controlled trial (n=83) for the treatment of pancreatic NET. The GIST and MRCC patients received a starting oral dose of 50 mg daily on Schedule 4/2 in repeated cycles, and the pancreatic NET patients received a starting oral dose of 37.5 mg daily without scheduled off-treatment periods. Most adverse events are reversible and do not need to result in discontinuation. If necessary, these events can be managed through dose adjustments or interruptions.

Teva-Sunitinib Capsules Page 17 of 73

The most common treatment-related adverse reactions (≥ 20%) in patients with GIST, MRCC or pancreatic NET are fatigue, asthenia, diarrhea, nausea, mucositis/stomatitis, vomiting, dyspepsia, abdominal pain, constipation, hypertension, rash, hand-foot syndrome, skin discoloration, dry skin, hair color changes, altered taste, anorexia, and bleeding. The potentially serious adverse reactions of left ventricular dysfunction, QT interval prolongation, hemorrhage, hypertension, thyroid dysfunction, and adrenal function are discussed in **WARNINGS AND**PRECAUTIONS. Other adverse reactions reported in studies of GIST, MRCC and pancreatic NET studies are described below.

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 clinical practice.

Adverse Reactions in GIST Placebo-Controlled Study (Study A)

The median duration of blinded study treatment was 2 cycles for patients on the sunitinib arm (mean 3, range 0-9) and one cycle (mean 1.6, range 0-6) for patients on placebo at the time of the interim analysis. Dose reductions occurred in 23 patients (11%) on sunitinib and none on placebo. Dose interruptions occurred in 57 patients (28%) on sunitinib and 20 (20%) on placebo. The rate of permanent discontinuation due to treatment-related, non-fatal adverse events was 9% (19/202) vs. 8% (8/102), sunitinib vs. placebo.

Most treatment-related adverse events, reported for both treatment arms were Grade 1 or 2 in severity. Grade 3 or 4 treatment-related adverse events were reported in 48% of sunitinib patients and 29% of placebo patients, respectively, in the double-blind treatment phase of the trial. Fatigue was the most common treatment-related adverse event of any maximum severity grade reported for 42% of sunitinib patients and 36% of placebo patients. Diarrhea, nausea, stomatitis, altered taste, skin abnormalities, hypertension and bleeding were all more common in patients receiving sunitinib than in those receiving placebo. Alopecia has been observed in 9 (4.5%) subjects exposed to sunitinib in Study A as compared to 1 (1%) subject exposed to placebo. All events were NCI CTC Grade 1 severity. Hair color changes have been observed in 14 (6.9%) subjects exposed to sunitinib in Study A as compared to 2 (2%) subjects exposed to placebo. Table 1 presents the treatment-emergent adverse events commonly reported (≥ 10% of patients) in Study A.

Table 1: Treatment-Emergent Adverse Events Reported in at Least 10% of GIST Patients Who Received Sunitinib or Placebo in Study A in the Double-Blind Treatment Phase of Study A

	GIST			
Adverse Event, n (%)	Sunitinib (n=202)		Placebo (n=102)	
	All Grades	Grade 3/4	All Grades	Grade 3/4
Any	190 (94)	97 (48)	99 (97)	30 (29)
Blood and Lymphatic System	60 (30)	34 (17)	9 (9)	3 (3)
Disorders	00 (30)	34 (17)	9 (9)	3 (3)
Anemia NOS	39 (19)	16 (8)	7 (7)	2(2)

Teva-Sunitinib Capsules Page 18 of 73

	GIST			
Adverse Event, n (%)	Sunitinib (n=202) Placebo (n=102)			(n=102)
	All Grades	Grade 3/4	All Grades	Grade 3/4
Gastrointestinal	171 (85)	40 (20)	75 (74)	19 (19)
Diarrhea NOS	82 (41)	9 (5)	21 (21)	0 (0)
Nausea	66 (33)	2(1)	23 (23)	3 (3)
Abdominal Pain NOS	61 (30)	12 (6)	28 (29)	10 (10)
Vomiting NOS	50 (25)	3 (2)	18 (18)	3 (3)
Constipation	43 (21)	0 (0)	16 (16)	2 (2)
Stomatitis	33 (16)	1(1)	2(2)	0 (0)
Dyspepsia	30 (15)	1(1)	6 (6)	0 (0)
Abdominal Pain Upper	22 (11)	3 (2)	8 (8)	0 (0)
Metabolism and Nutritional Disorders	81 (40)	15 (8)	26 (26)	1(1)
Anorexia	62 (31)	1(1)	19 (19)	1(1)
Musculoskeletal and Connective	00 (45)	11 (5)	25 (24)	<i>E</i> (<i>E</i>)
Tissue Disorders	90 (45)	11 (5)	35 (34)	5 (5)
Arthralgia	24 (12)	2(1)	10 (10)	0 (0)
Back Pain	21 (10)	1 (1)	13 (13)	3 (3)
General Disorders and Administration	147 (73)	27 (13)	65 (64)	7 (7)
Site Conditions				
Fatigue	84 (42)	15 (7)	37 (36)	4 (4)
Asthenia	44 (22)	10 (5)	10 (10)	2 (2)
Pyrexia	32 (16)	2(1)	9 (9)	1(1)
Mucosal Inflammation NOS	30 (15)	0 (0)	0 (0)	0 (0)
Nervous System Disorders	89 (44)	8 (4)	29 (28)	3 (3)
Dysgeusia	40 (20)	0 (0)	2 (2)	0(0)
Headache	38 (19)	2(1)	17 (17)	0 (0)
Psychiatric Disorders	36 (18)	1(1)	15 (15)	1 (1)
Insomnia	24 (12)	0 (0)	10 (10)	1(1)
Skin and Subcutaneous Tissue	125 (62)	12 (6)	31 (30)	0 (0)
Disorders	` ′		, ,	, ,
Skin Discolouration	52 (26)	0 (0)	8 (8)	0 (0)
Rash NOS	30 (15)	2(1)	6 (6)	0 (0)
PPE Syndrome	28 (14)	9 (5)	2 (2)	0 (0)
Vascular Disorders	50 (25)	17 (8)	12 (12)	0 (0)
Hypertension NOS	28 (14)	8 (4)	7 (7)	0 (0)

Common Terminology Criteria for Adverse Events (CTCAE) Version 3.0 PPE: Palmar Plantar Erythrodyaesthesia Syndrome NOS: Not Otherwise Specified

Table 2 depicts common (\geq 10%) treatment-emergent laboratory abnormalities

Teva-Sunitinib Capsules Page 19 of 73

Table 2: Treatment-Emergent Laboratory Abnormalities in ≥ 10% of GIST Patients who Received Sunitinib or Placebo in the Double-Blind Treatment Phase of Study A

Adverse Event, n (%)	Sunitinib (n=202)		Placebo	(n=102)
	All Grades	Grade 3/4 ^a	All Grades	Grade 3/4 ^b
Any		68 (34)		22 (22)
Gastrointestinal				
AST/ALT	79 (39)	3 (2)	23 (23)	1(1)
Alkaline phosphatase	48 (24)	7 (4)	21 (21)	4 (4)
Total bilirubin	32 (16)	2(1)	8 (8)	0 (0)
Indirect Bilirubin	20 (10)	0 (0)	4 (4)	0 (0)
Amylase	35 (17)	10 (5)	12 (12)	3 (3)
Lipase	50 (25)	20 (10)	17 (17)	7 (7)
Cardiac				
Decreased LVEF	22 (11)	2(1)	3 (3)	0 (0)
Renal/Metabolic				
Creatinine	25 (12)	1(1)	7 (7)	0 (0)
Hypokalemia	24 (12)	1(1)	4 (4)	0 (0)
Hypernatremia	20 (10)	0 (0)	4 (4)	1(1)
Uric Acid	31 (15)	16 (8)	16 (16)	8 (8)
Hematology				
Neutropenia	107 (53)	20 (10)	4 (4)	0 (0)
Lymphopenia	76 (38)	0 (0)	16 (16)	0 (0)
Anemia	52 (26)	6 (3)	22 (22)	2 (2)
Thrombocytopenia	76 (38)	10 (5)	4 (4)	0 (0)

Common Terminology Criteria for Adverse Events (CTCAE) Version 3.0

Grade 3 or 4 treatment-emergent laboratory abnormalities were seen in 68 sunitinib patients (34%) versus 22 placebo patients (22%). Elevated liver function tests, pancreatic enzymes and creatinine were all more common in sunitinib patients than placebo patients. Decreased LVEF, myelosuppression and electrolyte disturbances were all more common in sunitinib patients than placebo patients. Treatment-emergent acquired hypothyroidism was noted in 4% of GIST patients on SUTENT versus 1% on placebo.

After a positive interim analysis, the study was unblinded, and patients on the placebo arm were given the opportunity to receive open-label sunitinib treatment (see **CLINICAL TRIALS**). For 241 patients randomized to the sunitinib arm, including 139 who received sunitinib in both the double-blind and open-label treatment phases, the median duration of sunitinib treatment was 6 cycles (mean 8.5, range 1-44). For the 255 patients who ultimately received open-label sunitinib treatment, median duration of study treatment was 6 cycles (mean 7.8, range 1-37) from the time of the unblinding. A total of 118 patients (46%) required dosing interruptions, and a total of 72 patients (28%) required dose reductions during the open-label treatment phase. The incidence of treatment-emergent adverse reactions resulting in permanent discontinuation was

Teva-Sunitinib Capsules Page 20 of 73

a Grade 4 AEs in patients on sunitinib included alkaline phosphatase (1%), lipase (2%), creatinine (1%), hypokalemia (1%), neutropenia (2%), anemia (2%), and thrombocytopenia (1%).

b Grade 4 AEs in patients on placebo included amylase (1%), lipase (1%), anemia (2%), and thrombocytopenia (1%).

20%. The most common Grade 3 or 4 treatment-related adverse reactions experienced by patients receiving sunitinib in the open-label treatment phase were neutropenia (11%), fatigue (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%).

Adverse Reactions in MRCC Patient Population

Treatment-Naïve MRCC

The as-treated patient population for the interim safety analysis of the Phase 3 MRCC study included 735 patients, 375 randomized to sunitinib and 360 randomized to IFN- α . The median duration of treatment was 11.1 months (range: 0.4 - 46.1) for sunitinib treatment and 4.1 months (range: 0.1 - 45.6) for IFN- α treatment. Dose interruptions occurred in 202 patients (54%) on sunitinib and 141 patients (39%) on IFN- α . Dose reductions occurred in 194 patients (52%) on sunitinib and 98 patients (27%) on IFN- α . Discontinuation rates due to adverse reactions were 20% for SUTENT and 23% for IFN- α . Most treatment-related adverse events in both study arms were Grade 1 or 2 in severity. Grade 3 or 4 treatment-related adverse events were reported in 69% and 38% of patients on sunitinib versus IFN- α , respectively. Common treatment-related adverse events of any grade for patients receiving sunitinib are fatigue, diarrhea, nausea, stomatitis, hypertension, hand-foot syndrome, ejection fraction decline. Table 3 compares the incidence of common (≥ 10 %) treatment-related adverse events for patients receiving sunitinib versus those on IFN- α .

Table 3: Treatment-Related Adverse Events Reported in at Least 10% of Patients with Treatment-Naïve MRCC Who Received Sunitinib or IFN-α

	Sunitinib (n=375)		INF-α (n=306)	
Adverse Event, n (%)	All Grades	Grade 3/4	All Grades	Grade 3/4
	n (%)	n (%)	n (%)	n (%)
Any Adverse Event	358 (95.5)	258 (68.8)	331 (91.9)	139 (38.6)
Blood and Lymphatic System				
Disorders				
Thrombocytopenia	69 (18.4%)	33 (8.8%)	11 (3.1%)	2 (0.6%)
Neutropenia	70 (18.7%)	40 (10.7%)	31 (8.6%)	12 (3.3%)
Anemia	51 (13.6%)	19 (5.1%)	31 (8.6%)	7 (1.9%)
Leukopenia	40 (10.7%)	12 (3.2%)	14 (3.9%)	3 (0.8%)
Metabolism and Nutritional Disorders				
Anorexia	129 (34.4%)	7 (1.9%)	101 (28.1%)	6 (1.7%)
Decreased Appetite	37 (9.9%)	1 (0.3%)	38 (10.6%)	0 (0.0%)
Nervous System Disorders				
Dysgeusia	175 (46.7%)	1 (0.3%)	52 (13.9%)	0 (0.0%)
Headache	53 (14.1%)	2 (0.5%)	55 (15.3%)	0 (0.0%)
Vascular Disorders				
Hypertension NOS	113 (30.1%)	46 (12.3%)	6 (1.7%)	1 (0.3%)
Respiratory, Thoracic and Mediastinal				
Disorders				
Epistaxis	67 (17.9%)	3 (0.8%)	5 (1.4%)	0 (0.0%)

Teva-Sunitinib Capsules Page 21 of 73

	Sunitinib (n=375)		INF-α ((n=306)
Adverse Event, n (%)	All Grades	Grade 3/4	All Grades	Grade 3/4
	n (%)	n (%)	n (%)	n (%)
Gastrointestinal				
Diarrhea	229 (61.1%)	33 (8.8%)	49 (13.6%)	1 (0.3%)
Nausea	195 (52.0%)	17 (4.5%)	124 (34.4%)	4 (1.1%)
Dyspepsia	118 (31.5%)	7 (1.9%)	13 (3.6%)	0 (0.0%)
Stomatitis	110 (29.3%)	5 (1.3%)	10 (2.8%)	1 (0.3%)
Vomiting	117 (31.2%)	14 (3.7%)	41 (11.4%)	2 (0.6%)
Abdominal Pain*	70 (18.7%)	7 (1.9%)	15 (4.2%)	0 (0%)
Dry Mouth	45 (12.0%)	0 (0.0%)	24 (6.7%)	1 (0.3%)
Constipation	44 (11.7%)	1 (0.3%)	14 (3.9%)	0 (0.0%)
Flatulence	43 (11.5%)	0 (0.0%)	6 (1.6%)	0 (0.0%)
Skin and Subcutaneous Tissue				
Disorders**				
Rash**	115 (30.7%)	4 (1.1%)	33 (9.2%)	3 (0.8%)
Palmar-plantar erythrodysesthesis	108 (30.0%)	32 (8.5%)	2 (0.6%)	0 (0.0%)
syndrome	, ,	` ,	` ,	` /
Dry Skin	79 (21.1%)	1 (0.3%)	19 (5.3%)	0 (0.0%)
Skin Discolouration	89 (23.7%)	1 (0.3%)	0 (0.0%)	0 (0.0%)
Hair Colour Changes	75 (20.0%)	0 (0%)	1 (0.3%)	0 (0%)
Erythema	39 (10.4%)	2 (0.5%)	3 (0.8%)	0 (0%)
Musculoskeletal and Connective				
Tissue Disorders	66 (17 60/)	5 (1 20()	11 (2 10/)	0 (0 00()
Pain in Extremity	66 (17.6%)	5 (1.3%)	11 (3.1%)	0 (0.0%)
Arthralgia	43 (11.5%)	1 (0.3%)	49 (13.6%)	0 (0.0%)
Myalgia	32 (8.5%)	1 (0.3%)	60 (16.7%)	2 (0.6%)
General Disorders and Administration				
Site Conditions	206 (54 00/)	42 (11 50/)	106 (51 70/)	40 (12 20/)
Fatigue	206 (54.9%)	43 (11.5%)	186 (51.7%)	48 (13.3%)
Mucosal Inflammation	98 (26.1%)	7 (1.9%)	6 (1.7%)	1 (0.3%)
Asthenia	76 (20.3%)	28 (7.5%)	67 (18.6%)	14 (3.9%)
Pyrexia	31 (8.3%)	3 (0.8%)	125 (34.7%)	1 (0.3%)
Chills	28 (7.5%)	2 (0.5%)	105 (29.2%)	0 (0.0%)
Investigations	51 (12 (0/)	10 (2.79/)	11 (2 10/)	2 (0 00/)
Ejection Fraction Decreased	51 (13.6%)	10 (2.7%)	11 (3.1%)	3 (0.8%)
Weight Decreased	46 (12.3%)	1 (0.3%)	50 (13.9%)	1 (0.3%)

^{*} The following terms have been combined: abdominal pain and abdominal pain upper

In the treatment-naive MRCC study, 75 (20%) versus 37 (10%) patients experienced treatment-emergent Grade 4 chemistry laboratory abnormalities on sunitinib versus IFN- α , respectively. The most common Grade 4 chemistry abnormalities were hyperuricemia (14% on sunitinib, 8% on IFN- α) and increased lipase (3% on sunitinib, 1% on IFN- α). The most common Grade 3 chemistry abnormalities observed on both arms were increased lipase (15% on sunitinib, 7% on IFN- α) and hypophosphatemia (6% on sunitinib, 6% on IFN- α). Other common Grade 3 laboratory abnormalities on sunitinib were hyponatremia (8%) and increased amylase (5%), and

Teva-Sunitinib Capsules Page 22 of 73

^{**} The following terms have been combined: rash, rash erythematous, exfoliative rash, rash follicular, rash macular, rash papular, rash pruritic, rash maculo-papular, rash psoriaform, and rash generalized

on IFN- α was hyperglycemia (6%). Hematologic laboratory abnormalities in the treatment-naïve MRCC patient population are presented in Table 4.

Grade 4 hematology laboratory abnormalities in the Phase 3 MRCC study include neutropenia (2% on sunitinib, 1% on IFN- α) and anemia (2% on sunitinib, <1% on IFN- α). Grade 3 hematology laboratory abnormalities included neutropenia (15% on sunitinib, 8% on IFN- α), lymphopenia (16% on sunitinib, 24% on IFN- α), thrombocytopenia (8% on sunitinib, 1% on IFN- α), leukopenia (8% on sunitinib, 2% on IFN- α) and anemia (6% on sunitinib, 5% on IFN- α).

Table 4: Treatment-Emergent Laboratory Abnormalities Reported in at least 10% of Treatment-Naïve MRCC Patients who Received Sunitinib or IFN-α

	Treatment-Naïve RCC				
Laboratory Parameter, n	Sunitinib (1	Sunitinib (n=375)		=360)	
(%)	All Grades*	Grade 3/4*a	All Grades*	Grade 3/4*b	
Gastrointestinal					
AST	211 (56)	6 (2)	136 (38)	8 (2)	
ALT	192 (51)	10(3)	144 (40)	9 (2)	
Lipase	211 (56)	69 (18)	165 (46)	29 (8)	
Alkaline phosphatase	171 (46)	7 (2)	132 (37)	6 (2)	
Amylase	130 (35)	22 (6)	114 (32)	12 (3)	
Total bilirubin	75 (20)	3 (1)	8 (2)	0 (0)	
Indirect bilirubin	49 (13)	4(1)	3 (1)	0 (0)	
Renal/Metabolic					
Creatinine	262 (70)	2 (<1)	183 (51)	1 (<1)	
Creatine kinase	183 (49)	9 (2)	40 (11)	4(1)	
Uric acid	173 (46)	54 (14)	119 (33)	29 (8)	
Calcium decreased	156 (42)	4(1)	145 (40)	4(1)	
Phosphorus	116 (31)	22 (6)	87 (24)	23 (6)	
Albumin	106 (28)	4(1)	72 (20)	0 (0)	
Glucose increased	86 (23)	21 (6)	55 (15)	22 (6)	
Sodium decreased	75 (20)	31 (8)	55 (15)	13 (4)	
Glucose decreased	65 (17)	0 (0)	43 (12)	1 (<1)	
Potassium increased	61 (16)	13 (3)	61 (17)	15 (4)	
Calcium increased	50 (13)	2 (<1)	35 (10)	5 (1)	
Potassium decreased	49 (13)	3 (1)	7 (2)	1 (<1)	
Sodium increased	48 (13)	0 (0)	38 (10)	0 (0)	
Hematology					
Neutrophils	289 (77)	65 (17)	178 (49)	31 (9)	
Hemoglobin	298 (79)	29 (8)	250 (69)	18 (5)	
Platelets	255 (68)	35 (9)	85 (24)	2(1)	
Lymphocytes	256 (68)	66 (18)	245 (68)	93 (26)	
Leukocytes	293 (78)	29 (8)	202 (56)	8 (2)	

^{*} Common Terminology Criteria for Adverse Events (CTCAE), Version 3.0

Teva-Sunitinib Capsules Page 23 of 73

- a Grade 4 laboratory abnormalities in patients on sunitinib included uric acid (14%), lipase (3%), neutrophils (2%), lymphocytes (2%), hemoglobin (2%), platelets (1%), amylase (1%), ALT (<1 %), creatine kinase (< 1%), creatinine (< 1%), glucose increased (< 1%), calcium decreased (< 1%), phosphorous (< 1%), potassium increased (< 1%), and sodium decreased (< 1%)
- b Grade 4 laboratory abnormalities in patients on IFN-α included uric acid (8%), lymphocytes (2%), lipase (1%), neutrophils (1%), amylase (< 1%), calcium increased (< 1%), glucose decreased (< 1%), potassium increased (< 1%) and hemoglobin (< 1%)

Cytokine-Refractory MRCC

The data described below reflect exposure to sunitinib in 169 patients with cytokine-refractory MRCC enrolled in Studies 1 and 2. The median duration of treatment was 5.5 months (range: 23 days to 11.2 months) for Study 1 and 7.9 months (range: 6 days to 1.3 years) for Study 2. Dose interruptions occurred in 48 patients (45%) on Study 1 and 45 patients (71%) on Study 2; one or more dose reductions occurred in 23 patients (22%) on Study 1 and 22 patients (35%) on Study 2. Permanent discontinuation from the study due to treatment-related adverse events occurred in 7 patients (8%) on Study 1 and 6 patients (10%) on Study 2. Treatment-related adverse events are presented by maximum severity grade for at least 10% of the MRCC patient population in Table 5. Treatment-related adverse events were experienced by nearly all of the patients with MRCC. Fatigue; gastrointestinal disorders, such as nausea, diarrhea, stomatitis, dyspepsia, vomiting and constipation; dysgeusia; skin discoloration; anorexia and rash were the most common treatment-related adverse events (experienced by at least 20% of the patients). The relative frequency of the most common all-causality adverse events was similar to that of these treatment-related adverse events.

Table 5: Treatment-Related Adverse Events Reported in at Least 10% of Patients Treated with Sunitinib in the Two Cytokine-Refractory MRCC Studies

Adverse Event	All Grades n (%)	Grade 3/4 n (%)
Any Treatment-Related AE Experienced by ≥ 10% Patients	166 (98.2)	91 (53.9)
Blood and Lymphatic System Disorders	57 (33.7)	30 (15.8)
Anemia	21 (12.4)	6 (3.6)
Leukopenia	24 (14.2)	10 (5.9)
Neutropenia	24 (14.2)	14 (8.3)
Thrombocytopenia	23 (13.6)	11 (6.5)
Eye Disorders	17 (10.1)	0 (0.0)
Gastrointestinal Disorders	156 (92.3)	15 (8.9)
Constipation	34 (20.1)	0 (0.0)
Diarrhea	83 (49.1)	5 (3.0)
Dyspepsia	69 (40.8)	1 (0.6)
Glossodynia	25 (14.8)	0 (0.0)
Nausea	84 (49.7)	2 (1.2)
Stomatitis	70 (41.4)	6 (3.6)
Vomiting	52 (30.8)	2 (1.2)
General Disorders and Administration Site Conditions	118 (69.8)	19 (11.2)
Fatigue	102 (60.4)	18 (10.7)
Mucosal Inflammation	30 (17.8)	1 (0.6)

Teva-Sunitinib Capsules Page 24 of 73

Adverse Event	All Grades	Grade 3/4
Adverse Event	n (%)	n (%)
Infections and Infestations	21 (12.4)	4 (2.4)
Investigations*	65 (38.5)	31 (20.1)
Ejection Fraction Decreased	24 (14.2)	4 (2.4)
Lipase Increased	17 (10.1)	15 (8.9)
Metabolism and Nutrition Disorders	68 (40.2)	9 (5.3)
Anorexia	47 (27.8)	1 (0.6)
Musculoskeletal and Connective Tissue Disorders	45 (26.6)	3 (1.8)
Pain in Extremity	21 (12.4)	1 (0.6)
Nervous System Disorders	101 (59.8)	6 (3.6)
Dysgeusia	71 (42.0)	0(0.0)
Headache	25 (14.8)	1 (0.6)
Psychiatric Disorders	17 (10.1)	2 (1.2)
Respiratory, Thoracic and Mediastinal Disorders	40 (23.7)	3 (1.8)
Skin and Subcutaneous Tissue Disorders	122 (72.2)	12 (7.1)
Dry Skin	22 (13.0)	0(0.0)
Erythema	20 (11.8)	0(0.0)
Hair Colour Changes	24 (14.2)	0(0.0)
Palmar-plantar erythrodysesthesia syndrome	21 (12.4)	6 (3.6)
Rash	44 (26.0)	1 (0.6)
Skin Discolouration	54 (32.0)	0 (0.0)
Vascular Disorders	40 (23.7)	11 (6.5)
Hypertension	28 (16.6)	7 (4.1)

Severity grading was consistent with Common Terminology Criteria for Adverse Events (CTCAE) Version 3.0 *1 patient (0.6%) was missing.

Abbreviations: n=number of subjects, MRCC=metastatic renal cell carcinoma

Treatment-emergent laboratory abnormalities are presented by maximum severity grade for at least 10% of the MRCC patient population in Table 6. Hematologic laboratory abnormalities in the MRCC patient population were comparable to that observed in the overall solid tumour patient population.

Table 6: Abnormal Post-Baseline Laboratory Tests Occurring in at Least 10% of Cytokine-Refractory MRCC Patients (As-Treated Population)

Laboratory Test	50 mg QD, S	Total 50 mg QD, Schedule 4/2 (N=169)		
	Grade 1-4 n (%)	Grade 3/4 n (%)		
Any		105 (62.1)		
Gastrointestinal				
Albumin (Hypoalbuminemia)	47 (27.8)	0(0.0)		
Alkaline Phosphatase	93 (55.0)	3 (1.8)		
Amylase	47 (27.8)	8 (4.7)		
AST/ALT	97 (57.4)	6 (3.6)		

Teva-Sunitinib Capsules Page 25 of 73

Laboratory Test	50 mg QD, S	Total 50 mg QD, Schedule 4/2 (N=169)		
	Grade 1-4 n (%)	Grade 3/4 n (%)		
Lipase	84 (49.7)	28 (16.6)		
Total Bilirubin	20 (11.8)	1 (0.6)		
Renal / Metabolic				
Calcium (Hypercalcemia)	19 (11.2)	1 (0.6)		
Calcium (Hypocalcemia)	72 (42.6)	1 (0.6)		
Creatine Kinase	65 (38.5)	2 (1.2)		
Creatinine	100 (59.2)	2 (1.2)		
Glucose (Hyperglycemia)	30 (17.8)	6 (3.6)		
Glucose (Hypoglycemia)	34 (20.1)	0 (0.0)		
Hypophosphatemia	37 (21.9)	15 (8.9)		
Potassium (Hyperkalemia)	23 (13.6)	7 (4.1)		
Sodium (Hypernatremia)	22 (13.0)	1 (0.6)		
Sodium (Hyponatremia)	17 (10.1)	6 (3.6)		
Uric Acid	83 (49.1)	25 (14.8)		
Hematology				
Anemia	125 (74.0)	12 (7.1)		
Neutropenia	116 (68.6)	22 (13.0)		
Lymphopenia	99 (58.6)	33 (19.5)		
Thrombocytopenia	99 (58.6)	5 (3.0)		

Grading is based on Common Terminology Criteria for Adverse Events (CTCAE) Version 3.0 criteria; the grading criteria are not available for all lab tests performed on study; if applicable, a subject was summarized only once for each test under the maximum post-baseline grade.

Abbreviations: n=number of subjects, MRCC=metastatic renal cell carcinoma

Adverse Reactions in the Phase 3 pancreatic NET Study

The median number of days on treatment was 139 days (range 13-532 days) for patients on sunitinib and 113 days (range 1-614 days) for patients on placebo. Nineteen patients (23%) on sunitinib and 3 patients (4%) on placebo were on study for >1 year. Dose interruptions occurred in 25 patients (30%) on sunitinib and 10 patients (12%) on placebo. Dose reductions occurred in 26 patients (31%) on sunitinib and 9 patients (11%) on placebo. Discontinuation rates due to treatment-related adverse reactions were 12% for sunitinib and 2% for placebo.

Most treatment-related adverse reactions in both study arms were Grade 1 or 2 in severity. Grade 3 or 4 treatment-related adverse reactions were reported in 43% versus 20% of patients on sunitinib versus placebo, respectively. Table 7 compares the incidence of common ($\geq 10\%$) treatment-related adverse reactions for patients receiving sunitinib and reported more commonly in patients receiving sunitinib than in patients receiving placebo.

Teva-Sunitinib Capsules Page 26 of 73

Table 7: Treatment-Related Adverse Reactions Reported in the Phase 3 pancreatic NET Study in at Least 10% of Patients who Received Sunitinib and More Commonly than in Patients Given Placebo

	Pancreatic NET					
Adverse Reactions	Sunitini	b (n=83)	Placebo (n=82)			
Adverse Reactions	All Grades	Grade 3/4	All Grades	Grade 3/4		
	n (%)	n (%)	n (%)	n (%)		
Any	81 (97.6%)	36 (43.4%)	64 (78.0%)	16 (19.5%)		
Blood and Lymphatic System						
Disorders						
Neutropenia	24 (28.9%)	10 (12.0%)	3 (3.7%)	0 (0.0%)		
Thrombocytopenia	14 (16.9%)	3 (3.6%)	4 (4.9%)	0 (0.0%)		
Metabolism and Nutritional Disorders				,		
Anorexia	17 (20.5%)	2 (2.4%)	11 (13.4%)	0 (0.0%)		
Nervous System Disorders						
Dysgeusia	16 (19.3%)	0 (0.0%)	3 (3.7%)	0 (0.0%)		
Headache	10 (12.0%)	0 (0.0%)	5 (6.1%)	1 (1.2%)		
Vascular Disorders	` '	, , ,	, , ,	` ,		
Hypertension	19 (22.9%)	8 (9.6%)	3 (3.7%)	0 (0.0%)		
Respiratory, Thoracic and Mediastinal	· ·	` `				
Disorders						
Epistaxis	16 (19.3%)	1 (1.2%)	2 (2.4%)	0 (0.0%)		
Gastrointestinal						
Diarrhea	44 (53.0%)	4 (4.8%)	25 (30.5%)	1 (1.2%)		
Nausea	32 (38.6%)	1 (1.2%)	18 (22.0%)	0 (0.0%)		
Vomiting	21 (25.3%)	0 (0.0%)	14 (17.1%)	0 (0.0%)		
Stomatitis	18 (21.7%)	3 (3.6%)	2 (2.4%)	0 (0.0%)		
Abdominal Pain	12 (14.5%)	1 (1.2%)	10 (12.2%)	3 (3.7%)		
Dyspepsia	12 (14.5%)	0 (0.0%)	1 (1.2%)	0 (0.0%)		
Skin and Subcutaneous Tissue						
Disorders						
Hair Colour Changes	24 (28.9%)	1 (1.2%)	1 (1.2%)	0 (0.0%)		
Palmar-plantar erythrodysesthesis	10 (22 00/)	5 (6 00/)	2 (2 40/)	0 (0 00/)		
syndrome	19 (22.9%)	5 (6.0%)	2 (2.4%)	0 (0.0%)		
Rash	13 (15.7%)	0 (0.0%)	4 (4.9%)	0 (0.0%)		
Dry Skin	11 (13.3%)	0 (0.0%)	9 (11.0%)	0 (0.0%)		
General Disorders and Administration						
Site Conditions						
Asthenia	26 (31.3%)	3 (3.6%)	18 (22.0%)	2 (2.4%)		
Fatigue	24 (28.9%)	4 (4.8%)	14 (17.1%)	3 (3.7%)		
Mucosal Inflammation	13 (15.7%)	1 (1.2%)	6 (7.3%)	0 (0.0%)		
Investigations				·		
Weight Decreased	11 (13.3%)	1 (1.2%)	6 (7.3%)	0 (0.0%)		

Common Terminology Criteria for Adverse Events (CTCAE) Version 3.0

Table 8 provides common (≥ 10%) treatment-emergent laboratory abnormalities.

Teva-Sunitinib Capsules Page 27 of 73

Table 8: Laboratory Abnormalities Reported in the Phase 3 pancreatic NET Study in at Least 10% of Patients Who Received Sunitinib

		Pancreatic NET						
Laboratory Parameter, n		Sunitinib		Placebo				
(%)	N	All Grades*	Grade 3/4*a	N	All Grades*	Grade 3/4*b		
Gastrointestinal								
AST	82	59 (72)	4 (5)	80	56 (70)	2 (3)		
ALT	82	50 (61)	3 (4)	80	44 (55)	2 (3)		
Alkaline phosphatase	82	52 (63)	8 (10)	80	56 (70)	9 (11)		
Total bilirubin	82	30 (37)	1(1)	80	22 (28)	3 (4)		
Amylase	74	15 (20)	3 (4)	74	7 (10)	1(1)		
Lipase	75	13 (17)	4 (5)	72	8 (11)	3 (4)		
Renal/Metabolic								
Glucose increased	82	58 (71)	10 (12)	80	62 (78)	14 (18)		
Albumin	81	33 (41)	1 (1)	79	29 (37)	1(1)		
Phosphorus	81	29 (36)	6 (7)	77	17 (22)	4 (5)		
Calcium decreased	82	28 (34)	0 (0)	80	15 (19)	0 (0)		
Sodium decreased	82	24 (29)	2(2)	80	27 (34)	2 (3)		
Creatinine	82	22 (27)	4 (5)	80	22 (28)	4 (5)		
Glucose decreased	82	18 (22)	2(2)	80	12 (15)	3 (4)		
Potassium decreased	82	17 (21)	3 (4)	80	11 (14)	0 (0)		
Magnesium decreased	52	10 (19)	0 (0)	39	4 (10)	0 (0)		
Potassium increased	82	15 (18)	1(1)	80	9 (11)	1(1)		
Hematology								
Neutrophils	82	58 (71)	13 (16)	80	13 (16)	0 (0)		
Hemoglobin	82	53 (65)	0 (0)	80	44 (55)	1(1)		
Platelets	82	49 (60)	4 (5)	80	12 (15)	0 (0)		
Lymphocytes	82	46 (56)	6 (7)	80	28 (35)	3 (4)		

^{*} Common Terminology Criteria for Adverse Events (CTCAE), Version 3.0

Other Adverse Reactions

Musculoskeletal

Rhabdomyolysis has been reported in some cases from non-pivotal clinical trials (see **WARNINGS AND PRECAUTIONS** section and **ADVERSE REACTIONS**, Post-Market Adverse Drug Reactions).

Cardiovascular

See WARNINGS AND PRECAUTIONS section.

Investigations

Teva-Sunitinib Capsules Page 28 of 73

a 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%)

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

Increase in blood uric acid.

Pulmonary Embolism

See WARNINGS AND PRECAUTIONS section.

Pancreatic and Hepatic Function

If symptoms of pancreatitis or hepatic failure are present, patients should have Teva-Sunitinib discontinued. Pancreatitis was observed in 5 (1%) patients receiving sunitinib for treatment-naïve RCC compared to 1 (< 1%) patient receiving IFN- α . Hepatotoxicity was observed in patients receiving sunitinib (see WARNINGS AND PRECAUTIONS section).

Seizures

See WARNINGS AND PRECAUTIONS section.

Skin and subcutaneous tissue disorders

Rare cases of Stevens-Johnson syndrome.

Post-Market Adverse Drug Reactions

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.

Arterial Thromboembolic Events:

Cases of arterial thromboembolic events (ATE), sometimes fatal, have been reported in patients treated with sunitinib. The most frequent events included cerebrovascular accident, transient ischemic attack and cerebral infarction. Risk factors associated with ATE, in addition to the underlying malignant disease and age \geq 65 years, included hypertension, diabetes mellitus, and prior thromboembolic disease.

Cases of myocardial ischemia and myocardial infarction, some of which were fatal, have been reported.

Blood and lymphatic system disorders:

Cases of DIC, ITP, hemolytic anemia, and microangiopathic hemolytic anemia have been reported. Suspension of sunitinib is recommended. There are no data to support re-initiation of treatment following resolution. Physician discretion is recommended.

Cardiovascular:

Cases of left ventricular failure, cardiac failure, cardiovascular ischemia-related events (See Post-Market Adverse Drug Reactions- Arterial Thromboembolic Events) and rhythm disorder events have been reported in patients with pre-existing disease and/or cardiovascular risk factors, but a causal association with sunitinib could not be ruled out.

Teva-Sunitinib Capsules Page 29 of 73

Cases of cardiomyopathy, in some cases with fatal outcome attributed to sunitinib, have been reported.

Thrombotic microangiopathy (TMA) (including cases identified as thrombotic thrombocytopenic purpura [TTP] and haemolytic uraemic syndrome [HUS]), sometimes leading to renal failure or a fatal outcome, has been reported. Permanently discontinue Teva-Sunitinib in patients developing TMA.

Endocrine disorders:

Cases of thyroiditis and hypothyroidism, as well as hyperthyroidism, with some cases followed by hypothyroidism, have been reported in clinical trials and through post-marketing experience (See WARNINGS AND PRECAUTIONS, Thyroid Dysfunction).

Decreases in blood glucose, in some cases clinically symptomatic with serious outcomes, have been reported during sunitinib treatment in both diabetic and non-diabetic patients.

Hemorrhage:

Epistaxis is one of the most common hemorrhagic adverse events reported with sunitinib (see **WARNINGS AND PRECAUTIONS**, Hemorrhage). Although most cases are mild and self-limited, serious cases have been reported through post-marketing experience.

Hemorrhagic events reported through post-marketing experience, some of which were fatal, have included GI, respiratory, tumour, urinary tract and brain hemorrhages. In addition, cases of fatal hemorrhage associated with thrombocytopenia have been reported.

Cases of pulmonary, gastrointestinal, tumour, urinary tract, and brain hemorrhage, some fatal, have been reported in patients treated with sunitinib.

Hepatic and Biliary Function

Hepatotoxicity has been observed in clinical trials and post-marketing experience

Cases of cholecystitis, including acalculous cholecystitis and emphysematous cholecystitis, have been reported in patients treated with sunitinib (with fatal outcome in some cases).

Immune system disorders:

Hypersensitivity reactions, including angioedema, have been reported.

Infections and infestations:

Cases of serious infection (with or without neutropenia), in some cases with fatal outcome, have been reported. The infections observed most commonly with sunitinib treatment are respiratory infections (e.g. pneumonia, bronchitis), urinary tract infections, skin infections (e.g. cellulitis), sepsis/septic shock, and abscess (e.g. genital, anorectal, skin, limb, visceral), viral (e.g. nasopharyngitis, oral herpes), or fungal (e.g. candidiasis: oral, esophageal). Cases of necrotizing fasciitis, including of the perineum, sometimes fatal, have been reported.

Teva-Sunitinib Capsules Page 30 of 73

Musculoskeletal and connective tissue disorders:

Cases of myopathy and/or rhabdomyolysis, some with acute renal failure and including fatality, have been reported. Most of these patients had pre-existing risk factors and/or were receiving concomitant medications known to be associated with these adverse reactions. Patients with signs or symptoms of muscle toxicity should be managed as per standard medical practice (see **WARNINGS AND PRECAUTIONS** section).

Cases of osteonecrosis of the jaw (ONJ) have been reported in patients treated with sunitinib, most of which occurred in patients who had identified risk factors for ONJ, in particular exposure to i.v. bisphosphonates and/or a history of dental disease requiring invasive dental procedures (see WARNINGS AND PRECAUTIONS section).

Nervous system disorders:

Taste disturbance, including ageusia, has been reported.

Renal and urinary disorders:

Cases of renal impairment and/or failure, in some cases with fatal outcome, have been reported.

Cases of proteinuria and nephrotic syndrome have been reported (see WARNINGS AND PRECAUTIONS section). Baseline urinalysis is recommended, and patients should be monitored for the development or worsening of proteinuria. The safety of continued sunitinib treatment in patients with moderate to severe proteinuria has not been systematically evaluated. Discontinue sunitinib in patients with nephrotic syndrome.

Respiratory disorders:

Cases of pulmonary embolism, in some cases with fatal outcome attributed to sunitinib, have been reported. Cases of Pleural effusion, in some cases with fatal outcome, have been reported.

Vascular disorders:

Artery dissection and artery aneurysm (including rupture) have been reported in association with VEGFR TKIs, including sunitinib.

Gastrointestinal disorders:

Esophagitis.

Neurologic

Cases of reversible posterior leukoencephalopathy syndrome, in some cases with fatal outcome have been reported.

Other:

Fistula formation: Cases of fistula formation (including anal, enterocutaneous, gastrointestinal, tracheo-esophageal, and pleural fistulae), sometimes associated with tumour necrosis and/or regression, in some cases with fatal outcome, have been reported.

Skin and subcutaneous tissue disorders:

Radiation interaction skin reaction has been reported when sunitinib was given concurrently with radiotherapy.

Cases of pyoderma gangrenosum, Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), including life-threatening and fatal cases, as well as erythema multiforme have been reported.

Tumour Lysis Syndrome: Cases of tumour lysis syndrome, some fatal and some occurring soon after initiation of sunitinib have been reported.

Long-Term Safety in MRCC

Based on the data from 9 completed clinical studies of sunitinib in patients with MRCC, prolonged treatment with sunitinib (≥ 2 years) was not associated with new types or increased severity of treatment-related adverse events, and except for hypothyroidism, toxicity was not cumulative.

DRUG INTERACTIONS

Overview

Sunitinib is metabolized primarily by CYP3A4. Potential interactions may occur with drugs/foods/herbs that are inhibitors or inducers of this enzyme system.

Drug-Drug Interactions

CYP3A4 Inhibitors: Co-administration of Teva-Sunitinib (sunitinib malate) with inhibitors of the CYP3A4 family may increase sunitinib concentrations (see ACTION AND CLINICAL PHARMACOLOGY). Concomitant administration of Teva-Sunitinib with CYP3A4 inhibitors should be avoided. These include, but are not limited to: non-dihydropyridine calcium channel blockers (e.g. diltiazem, verapamil); antifungals (e.g. ketoconazole, fluconazole, itraconazole, voriconazole); macrolide antibiotics (e.g. erythromycin, clarithromycin, telithromycin); fluoroquinolone antibiotics (e.g. ciprofloxacin, norfloxacin); and some HIV antivirals (e.g. ritonavir, indinavir).

CYP3A4 Inducers: Co-administration of Teva-Sunitinib with inducers of the CYP3A4 family may decrease sunitinib concentrations (see ACTION AND CLINICAL PHARMACOLOGY). Concomitant administration of Teva-Sunitinib with CYP3A4 inducers should be avoided. CYP3A4 inducers include, but are not limited to: barbiturates (e.g. phenobarbital); anticonvulsants (e.g. carbamazepine, phenytoin); rifampin; glucocorticoids; pioglitazone; and some HIV antivirals (e.g. efavirenz, nevirapine).

Drugs Which Prolong the QT/QTc Interval: The concomitant use of Teva-Sunitinib with another QT/QTc-prolonging drug is discouraged. However, if it is necessary, particular care

Teva-Sunitinib Capsules Page 32 of 73

should be used. Drugs that have been associated with QT/QTc interval prolongation and/or torsade de pointes include, but are not limited to, the examples in the following list. Chemical/pharmacological classes are listed if some, although not necessarily all, class members have been implicated in QT/QTc prolongation and/or torsade de pointes:

- Antiarrhythmics (Class IA, e.g., quinidine, procainamide, disopyramide; Class III, e.g. amiodarone, sotalol, ibutilide; Class IC, e.g. flecainide, propafenone)
- Antipsychotics (e.g. thioridazine, chlorpromazine, pimozide, haloperidol, droperidol)
- Antidepressants (e.g. amitriptyline, imipramine, maprotiline, fluoxetine, venlafaxine)
- Opioids (e.g. methadone)
- Macrolide antibiotics (e.g. erythromycin, clarithromycin, telithromycin)
- Quinolone antibiotics (e.g. moxifloxacin, gatifloxacin, ciprofloxacin)
- Antimalarials (e.g. quinine)
- Pentamidine
- Azole antifungals (e.g. ketoconazole, fluconazole, voriconazole)
- Gastrointestinal drugs (e.g. domperidone, 5HT3 antagonists, such as granisetron, ondansetron, dolasetron)
- Beta 2-adrenoreceptor agonists (e.g. salmeterol, formoterol)
- Tacrolimus

Drugs Which Prolong the PR Interval: Caution should be used if Teva-Sunitinib is prescribed to patients in combination with other drugs that also cause PR interval prolongation, such as beta blockers, calcium channel blockers, digitalis, or HIV protease inhibitors (see WARNINGS AND PRECAUTIONS, Cardiovascular, QT Interval Prolongation).

The above list of potentially interacting drugs is not comprehensive. Current scientific literature should be consulted for more information.

Drug-Food Interactions

Grapefruit juice has CYP3A4 inhibitory activity. Therefore, ingestion of grapefruit juice while on Teva-Sunitinib therapy may lead to decreased sunitinib metabolism and increased sunitinib plasma concentrations (see Drug-Drug Interactions). Concomitant administration of Teva-Sunitinib with grapefruit juice should be avoided.

Drug-Herb Interactions

St. John's Wort is a potent CYP3A4 inducer. Co-administration with Teva-Sunitinib may lead to increased sunitinib metabolism and decreased sunitinib plasma concentrations (see Drug-Drug Interactions). Patients receiving Teva-Sunitinib should not take St. John's Wort concomitantly.

Teva-Sunitinib Capsules Page 33 of 73

DOSAGE AND ADMINISTRATION

Recommended Dose for GIST and MRCC

The recommended dose of Teva-Sunitinib (sunitinib malate) is one 50 mg oral dose taken once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off.

Recommended Dose for pancreatic NET

The recommended dose of Teva-Sunitinib for pancreatic neuroendocrine tumours (pancreatic NET) is 37.5 mg taken orally once daily without a scheduled off-treatment period.

Teva-Sunitinib may be taken with or without food.

Dose Modification

Daily doses should not exceed 50 mg nor be decreased below 25 mg. Dose modification of 12.5 mg is recommended based on individual safety and tolerability.

CYP3A4 Inhibitors: Concurrent administration of sunitinib malate with the CYP3A4 inhibitor, ketoconazole, resulted in 49% and 51% increases in combined (sunitinib + active metabolite) C_{max} and AUC₀-∞ values, respectively, after a single dose of sunitinib malate in healthy volunteers. Doses of Teva-Sunitinib may need to be reduced to a minimum of 25 mg daily, and clinical response and tolerability should be carefully monitored, in patients receiving a potent CYP3A4 inhibitor such as ketoconazole (see DRUG INTERACTIONS and ACTION AND CLINICAL PHARMACOLOGY). Selection of an alternate concomitant medication with no or minimal enzyme inhibition potential should be considered. NOTE: This recommendation is based on pharmacokinetic data from healthy volunteers. In clinical trials conducted to date, the safety and efficacy of sunitinib with concomitant use of CYP3A4 inhibitors has not been established. In the 2 cytokine-refractory MRCC studies, 14 of the 169 patients used a potent CYP 3A4 inhibitor concomitantly with sunitinib with no modification of the starting dose of sunitinib.

CYP3A4 Inducers: Concurrent administration of sunitinib malate with the potent CYP3A4 inducer, rifampin, resulted in a more than 23% and 46% reduction in combined (sunitinib + active metabolite) C_{max} and AUC_{0-∞} values, respectively, after a single dose of sunitinib in healthy volunteers. The dose of Teva-Sunitinib may need to be increased (maximum 50 mg), and clinical response and tolerability should be carefully monitored, in patients receiving Teva-Sunitinib with a potent CYP3A4 inducer, such as rifampin (see DRUG INTERACTIONS and ACTION AND CLINICAL PHARMACOLOGY). Selection of an alternate concomitant medication with no or minimal enzyme induction potential should be considered. NOTE: This recommendation is based on pharmacokinetic data from healthy volunteers. In clinical trials conducted to date, the safety and efficacy of sunitinib with concomitant use of CYP3A4 inducers has not been established. In the two cytokine-refractory MRCC studies, 33 of the 169 patients received a potent CYP3A4 inducer concomitantly with sunitinib with no modification of the starting dose of sunitinib.

Teva-Sunitinib Capsules Page 34 of 73

Special Populations: No dose adjustment is required on the basis of patient age, body weight, creatinine clearance, race, gender or ECOG score (see ACTION AND CLINICAL PHARMACOLOGY, Special Populations).

OVERDOSAGE

Treatment of overdose with Teva-Sunitinib should consist of general supportive measures. There is no specific antidote for overdose with Teva-Sunitinib. If indicated, elimination of unabsorbed drug should be achieved by emesis or gastric lavage. Cases of accidental overdose have been reported; some cases were associated with adverse reactions consistent with the known safety profile of sunitinib. A case of intentional overdose involving the ingestion of 1,500 mg of sunitinib in an attempted suicide was reported without adverse reaction.

For management of a suspected drug overdose, contact your regional Poison Control Centre.

ACTION AND CLINICAL PHARMACOLOGY

Sunitinib malate is a small molecule that inhibits multiple receptor tyrosine kinases (RTKs), some of which are implicated in tumour growth, pathologic angiogenesis, and metastatic progression of cancer. Sunitinib was evaluated for its inhibitory activity against a variety of kinases (> 80 kinases) and was identified as a potent inhibitor of platelet-derived growth factor receptors (PDGFRα and PDGFRβ), vascular endothelial growth factor receptors (VEGFR1, VEGFR2 and VEGFR3), stem cell factor receptor (KIT), Fms-like tyrosine kinase-3 (FLT3), colony stimulating factor receptor (CSF-1R), and the glial cell-line derived neurotrophic factor receptor (RET). Inhibition of the activity of these RTKs by sunitinib has been demonstrated in biochemical and/or cellular assays, and inhibition of function has been demonstrated in cell proliferation or viability assays. The primary metabolite exhibits similar potency compared to sunitinib in biochemical and cellular assays (see **DETAILED PHARMACOLOGY**).

Sunitinib inhibited the phosphorylation of multiple RTKs (PDGFRβ, VEGFR2, KIT) in tumour xenografts expressing RTK targets *in vivo* and demonstrated inhibition of tumour growth or tumour regression and/or inhibited metastases in some experimental models of cancer. Sunitinib demonstrated the ability to inhibit growth of tumour cells expressing dysregulated target RTKs (PDGFR, RET, or KIT) *in vitro* and to inhibit PDGFRβ- and VEGFR2-dependent tumour angiogenesis *in vivo*.

Pharmacokinetics

The pharmacokinetics of sunitinib and its primary active metabolite have been evaluated in 135 healthy volunteers and in 266 patients with solid tumours.

Absorption and Distribution

Maximum plasma concentrations (C_{max}) of sunitinib are generally observed from 6 to 12 hours (T_{max}) post-dose. Food has no effect on the bioavailability of sunitinib. Following administration of a single oral dose in healthy volunteers, the terminal half-lives of sunitinib and its primary active metabolite are approximately 40 to 60 hours and 80 to 110 hours, respectively. After repeated daily administration, in the dosing ranges of 25 to 100 mg, the area under the plasma concentration-time curve (AUC) and C_{max} for sunitinib and total drug increases proportionally with dose. With repeated daily administration, sunitinib accumulates 3- to 4-fold while the primary metabolite accumulates 7- to 10-fold. Steady-state concentrations of sunitinib and its primary active metabolite are achieved within 10 to 14 days. By Day 14, combined trough plasma concentrations of sunitinib and its active metabolite are 62.9-101 ng/mL. No significant changes in the pharmacokinetics of sunitinib or the primary active metabolite are observed with repeated daily administration or with repeated cycles in the dosing regimens tested. The apparent volume of distribution (Vd/F) for sunitinib was 2230 L.

The pharmacokinetics were similar in healthy volunteers and in the solid tumour patient populations tested, including patients with GIST, MRCC, and pancreatic NET (see **CLINICAL TRIALS**).

Binding of sunitinib and its primary active metabolite to human plasma protein *in vitro* was 95% and 90%, respectively, with no apparent concentration dependence.

Metabolism and Elimination

Sunitinib is metabolized primarily by the cytochrome P450 enzyme, CYP3A4, to produce its primary active metabolite, which is further metabolized by CYP3A4. The primary active metabolite comprises 23 to 37% of the total exposure. Elimination is primarily via feces. In a human mass balance study of [\frac{14}{C}] sunitinib, 61% of the radioactive dose was eliminated in feces, with renal elimination of drug and metabolites accounting for 16% of the administered radioactive dose. Sunitinib and its primary active metabolite are the major drug-related compounds identified in plasma, urine and feces, representing 91.5 %, 86.4 % and 73.8% of radioactivity in pooled samples, respectively. Minor metabolites were identified in urine and feces, but were generally not found in plasma. Total oral clearance (CL/F) was 34 - 62 L/hr with an inter-patient variability of 40%.

Special Populations

Population pharmacokinetic analyses of demographic data suggest that there are no clinically relevant effects of age, body weight, creatinine clearance, race, gender or ECOG score on the pharmacokinetics of sunitinib or the active metabolite.

There are no pharmacokinetic data available in pediatric patients.

Hepatic Insufficiency

A single 50 mg dose of sunitinib was administered to patients with mild (Child-Pugh Class A) and moderate (Child-Pugh Class B) hepatic impairment, and to control group of patients with normal hepatic function. The pharmacokinetic parameters evaluated demonstrated that dose

Teva-Sunitinib Capsules Page 36 of 73

adjustments to starting dose might not be necessary for patients with mild (Child-Pugh Class A) or moderate (Child-Pugh Class B) hepatic impairment. However, sunitinib was not studied in subjects with severe (Child-Pugh Class C) hepatic impairment. In addition, repeated administration of sunitinib was not studied in subjects with hepatic impairment.

Renal Insufficiency

Safety and efficacy of sunitinib have not been established in patients with severe renal impairment or with end-stage renal disease (ESRD) on hemodialysis. Phase 3 studies that were conducted excluded patients with serum creatinine > 2.0 x ULN. However, in a small Phase 1 study, systemic exposures after a single 50 mg dose of sunitinib were similar in 8 subjects with severe renal impairment (CLcr <30 mL/min) compared to 8 subjects with normal renal function (CLcr > 80 mL/min), although the variability was greater in the patients with severe renal impairment. Even though sunitinib and its primary metabolite were not eliminated through hemodialysis in 8 subjects with ESRD, the total systemic exposures were lower by 47% for sunitinib and 31% for its primary metabolite compared to 8 subjects with normal renal function, most likely due to a lower absorption of sunitinib in subjects with ESRD.

Based on pharmacokinetic data from this Phase 1 study, no adjustment to starting dose is required when administering sunitinib to patients with renal impairment (mild-severe) or with end-stage renal disease (ESRD) on hemodialysis. Subsequent dose modifications should be based on individual safety and tolerability (see **DOSAGE AND ADMINISTRATION**, Dose Modification). Repeated administration of sunitinib was not studied in subjects with renal impairment.

Cases of renal impairment and failure, including fatalities, have been reported with sunitinib use. Caution and careful monitoring of patients with severe renal impairment or ESRD on hemodialysis is required while on Teva-Sunitinib.

In a population pharmacokinetic analysis, no relationship was observed between renal function (as measured by calculated creatinine clearance, range 42-347 mL/min) and sunitinib pharmacokinetics.

Pharmacodynamics

QT/QTc Interval Prolongation

In a phase I clinical QT study, patients with advanced solid tumours received sunitinib 150 mg on Days 3 and 9, and sunitinib 50 mg daily Days 4 to 8 (positive control given Day 1 and placebo given Day 2). Manual serial ECG readings were conducted in accordance with current guidelines. At approximately twice therapeutic concentrations, sunitinib was associated with QTc prolongation. On both Day 3 and Day 9, sunitinib was associated with a progressive increase in the QTc interval that continued throughout the 24-hour observation period, without reaching any obvious peak, plateau, or offset. Because of this, the peak effect could not be characterized with confidence. At the last observation (24 h), the maximum mean placebo-adjusted increase from baseline was 9.6 (90% CI 4.1, 15.1) msec for Day 3 and 15.4 (90% CI 8.4, 22.4) msec for Day 9 using a time-matched baseline and Fridericia's heart rate

Teva-Sunitinib Capsules Page 37 of 73

correction. The magnitude of these increases is considered to justify cause for concern. However, no subjects experienced an effect on the QTc interval greater than grade 2 (CTCAE version 3.0). No patient presented with a cardiac arrhythmia (see **WARNINGS AND PRECAUTIONS** section).

T wave Morphology

At baseline, the incidence of patients with T wave abnormalities and the proportion of ECGs with abnormal T waves was high in this population of cancer patients. After 7 days of sunitinib therapy, however, these incidences had increased.

QTc prolongation in association with changes in T wave morphology has been suggested to merit intensified concern with respect to proarrhythmic potential.

PR Interval and Heart Rate

Mean placebo-adjusted changes in the PR interval were positive at all time points, with the maximum increase occurring 7 to 12 hours post-dosing, followed by a decline at 24 hours. Outlier analyses for the PR interval (> 200 msec) were consistent with a shift toward a higher proportion of outliers in patients treated with sunitinib. Excessive PR interval prolongation can result in AV block. Progressive levels of AV block are associated with increasing morbidity and mortality.

On Days 3 and 9, heart rate decreased progressively over the 24 hours period following sunitinib dosing, but was not affected by the positive control. During the study, an event of bradycardia occurred that was considered treatment-related, and dizziness was experienced by 7 of 48 patients.

Bradycardia and AV block are recognized risk factors for torsade de pointes. For this reason, a drug that causes QTc prolongation in associated with prolongation of the PR and RR intervals raises particular concerns with respect to proarrhythmic potential.

Drug-Drug Interactions

In vitro studies indicate that sunitinib does not induce or inhibit major CYP enzymes.

In vitro **Studies of CYP Inhibition and Induction:** The *in vitro* studies in human liver microsomes and hepatocytes of the activity of CYP isoforms CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1, CYP3A4/5, and CYP4A9/11 indicated that sunitinib and its primary active metabolite are unlikely to have any clinically relevant drug-drug interactions with drugs that may be metabolized by these enzymes.

CYP3A4 Inhibitors: Concurrent administration of sunitinib with the potent CYP3A4 inhibitor, ketoconazole, resulted in a 49% and 51% increase in the combined (sunitinib + active metabolite) C_{max} and $AUC_{0-\infty}$ values, respectively, after a single dose of sunitinib in healthy volunteers.

Teva-Sunitinib Capsules Page 38 of 73

Administration of Teva-Sunitinib with potent inhibitors of the CYP3A4 family may increase sunitinib concentrations. Concomitant administration of Teva-Sunitinib with inhibitors should be avoided or the selection of an alternate concomitant medication with no, or minimal potential to inhibit CYP3A4 should be considered. If this is not possible, the dose of Teva-Sunitinib may need to be reduced (see **DOSAGE AND ADMINISTRATION**). <u>NOTE:</u> In clinical trials conducted to date, the safety and efficacy of sunitinib with concomitant use of CYP3A4 inhibitors has not been established.

CYP3A4 Inducers: Concurrent administration of sunitinib with the potent CYP3A4 inducer, rifampin, resulted in a 23% and 46% reduction in the combined (sunitinib + active metabolite) C_{max} and AUC_{0-∞} values, respectively, after a single dose of sunitinib in healthy volunteers.

Administration of Teva-Sunitinib with potent inducers of CYP3A4 may decrease sunitinib concentrations. Concomitant administration of Teva-Sunitinib should be avoided or selection of an alternate concomitant medication with no or minimal potential to induce CYP3A4 should be considered. If this is not possible, the dose of Teva-Sunitinib may need to be increased (see **DOSAGE AND ADMINISTRATION**). NOTE: In clinical trials conducted to date, the safety and efficacy of sunitinib with concomitant use of CYP3A4 inducers have not been established.

STORAGE AND STABILITY

Store between 15-30°C.

SPECIAL HANDLING INSTRUCTIONS

Not applicable

DOSAGE FORMS, COMPOSITION AND PACKAGING

Dosage Forms

Teva-Sunitinib (sunitinib malate) is supplied as a hard gelatin capsule for daily oral administration.

12.5 mg Capsules: Hard gelatin capsule with maroon opaque cap and body, imprinted in black ink with 'TEVA' over '8199' on both cap and body.

25 mg Capsules: Hard gelatin capsule with light brown opaque cap and maroon body, imprinted in black ink with 'TEVA' over '8224' on both cap and body.

50 mg Capsules: Hard gelatin capsule with light brown opaque cap and body imprinted in black ink with 'TEVA' and '8231' on both cap and body.

Teva-Sunitinib Capsules Page 39 of 73

Composition

Teva-Sunitinib capsules are supplied as printed hard shell capsules containing sunitinib malate equivalent to 12.5, 25 or 50 mg of sunitinib together with croscarmellose sodium, magnesium stearate, mannitol and povidone as inactive ingredients.

The capsule shells contain D&C Red #28 (12.5 mg and 25 mg), FD&C Blue #1, FD&C Red #40, FD&C Yellow #6 (25 mg and 50 mg), titanium dioxide and gelatin.

The printing ink contains, Black Iron Oxide, Butyl Alcohol, D&C Yellow #10, FD&C Blue #1, FD&C Blue #2, FD&C Red #40, Methanol, Propylene Glycol and Shellac.

Packaging

Teva-Sunitinib is supplied in bottles of 28 or 100 capsules.

Teva-Sunitinib Capsules Page 40 of 73

PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: Sunitinib Malate

Chemical name: (Z)-N-[2-(Diethylamino)ethyl]-5-[(5-fluoro-1,2-dihydro-2-oxo-3*H*-indol-3-

ylidene)methyl]-2,4-dimethyl-1*H*-pyrrole-3-carboxamide (*S*)-2-hydroxysuccinate

Molecular formula: C₂₂H₂₇FN₄O₂·C₄H₆O₆

Molecular mass: 532.6 g/mol

Structural formula:

Physicochemical properties: Sunitinib malate is a yellow to orange powder with a pKa of 8.95.

The solubility of sunitinib malate in aqueous media over the range

pH 1.2 to pH 6.8 is in excess of 25 mg/mL. The log of the distribution coefficient (octanol/water) at pH 7 is 5.2.

CLINICAL TRIALS

Comparative Bioavailability Studies

A randomized, open-label, single-dose, two-way crossover, bioequivalence study of TEVA-SUNITINIB Capsules 50 mg (Teva Canada Limited) and SUTENT® Capsules 50 mg (Pfizer Inc., USA), administered as a single 1 x 50 mg dose, was conducted in healthy, adult human subjects (N=27) under fasting conditions. The results are summarized in the table below:

Teva-Sunitinib Capsules Page 41 of 73

	Sunitinib)
	$(1 \times 50 \text{ mg})$	g)
	Geometric N	l ean
	Arithmetic Mean	(CV %)
		0/ T

Parameter	Test*	Reference [†]	% Ratio of Geometric Means	90% Confidence Interval
AUC ₀₋₇₂	1391.87	1330.60	104.50	101.33 – 107.77
(ng·hr/mL)	1420.37 (20.25)	1362.16 (22.33)		
C_{MAX}	41.56	39.92	104.04	100.63 - 107.57
(ng/mL)	42.47 (20.75)	40.75 (21.45)	101101	100.03 107.07
T_{MAX}^{\S}	7.50	7.50		
(hr)	(4.50 - 10.00)	(5.50 - 14.00)		

^{*} Teva-Sunitinib (sunitinib malate) Capsules 50 mg (Teva Canada Limited)

Due to the long elimination half-life of sunitinib, AUC_I and $T_{1/2}$ could not be accurately calculated from the data obtained in the study

GIST Patient Population

The clinical safety and efficacy of sunitinib (sunitinib malate) have been studied in the treatment of gastrointestinal stromal tumour (GIST) after failure of imatinib mesylate treatment due to resistance or intolerance.

GIST Study A

Study A was a two-arm, multi-national, randomized, double-blind, placebo-controlled Phase 3 study of sunitinib in patients with GIST who had disease progression due to resistance during prior imatinib mesylate (imatinib) treatment or who were intolerant of imatinib. The primary objective was to compare the time-to-progression (TTP) in patients receiving sunitinib plus best supportive care to patients receiving placebo plus best supportive care. Secondary objectives included progression-free survival (PFS), objective response rate (ORR), and overall survival (OS). Patients were randomized (2:1) to receive either 50 mg sunitinib or placebo orally, once daily, on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2) until disease progression or withdrawal from the study for another reason. At the time of disease progression, treatment was unblinded; patients randomized to placebo were offered crossover to open-label sunitinib and patients randomized to sunitinib were permitted to continue treatment if there was evidence of clinical benefit.

At the time of a pre-specified interim analysis, the intent-to-treat (ITT) population included 312 patients; 207 patients were randomized to the sunitinib arm and 105 patients were randomized to the placebo arm.

Baseline age, gender, race, and ECOG performance status were comparable between the sunitinib and placebo groups. Prior exposure to imatinib was similar between the two study arms,

Teva-Sunitinib Capsules Page 42 of 73

[†] SUTENT® (sunitinib malate) Capsules 50 mg (Pfizer Inc., USA)

[§] Expressed as the median (range) only.

with a median imatinib dose of 800 mg in both groups, although only approximately 60% of all patients received imatinib 800 mg/day prior to study entry.

An independent Data Safety Monitoring Board recommended unblinding the study based on the results of a planned interim analysis, where 149 TTP events (53% of the events required for the final analysis) had been reported in 312 patients (82 in the sunitinib arm and 67 in the placebo arm). The median number of cycles per treatment arm prior to unblinding was 2 (1.0 to 15.0) for the sunitinib arm compared to 1 (1.0-6.0) for the placebo arm. There was a statistically significant benefit for sunitinib 50 mg over placebo in the primary endpoint of TTP, meeting the primary endpoint. Similarly, the secondary endpoint of PFS was also significant. At the time of the interim analysis, the data were not mature enough to determine the OS benefit. Efficacy results are summarized in Table 9 and the Kaplan-Meier curve for TTP is shown in Figure 1.

Table 9: GIST Efficacy Results (interim analysis)

	Study A				
Efficacy Parameter	Sunitinib $(N = 207)$	Placebo (N = 105)	P-value (log- rank test)	HR (95% CI)	
Time to Tumour Progression ^a	27.3 [6.4]	6.4 [1.5]	< 0.0001*	0.33	
{median, weeks [months] (95% CI)}	(16.0, 32.1)	(4.4, 10.0)	< 0.0001	(0.23, 0.47)	
Progression Free Survival ^b	24.1 [5.6]	6.0 [1.4]	< 0.0001	0.33	
{median, weeks [months] (95% CI)}	(11.1, 28.3)	(4.4, 9.9)	< 0.0001	(0.24, 0.47)	
Objective Response Rate (PR)	6.8	0	0.0066		
[%, (95% CI)]	(3.7, 11.1)	U	0.006°		

Abbreviations: CI = Confidence Interval, GIST = Gastrointestinal Stromal Tumour, HR = Hazard Ratio, N = Number of patients, PR = Partial Response

Teva-Sunitinib Capsules Page 43 of 73

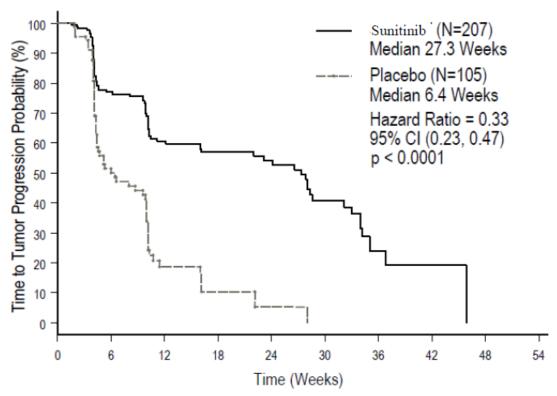
^{*} A comparison is considered statistically significant if the p-value is < 0.00156 (O'Brien Fleming stopping boundary)

a Time from randomization to progression; deaths prior to documented progression were censored at time of last radiographic evaluation

b Time from randomization to progression or death due to any cause

c Pearson chi-square test

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



Abbreviations: CI = Confidence Interval; GIST = Gastrointestinal Stromal Tumour; N = Number of patients; TTP = Time-to-Tumour 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. Demographics and patient characteristics are shown in Table 10.

Table 10: Baseline Demographics in GIST Study A Based on Final Results

	Sunitinib (N = 243)	Placebo (N = 118)
Gender [N (%)]	(11 – 243)	(11-110)
Male	152 (63)	71 (60)
Female	91 (37)	47 (40)
Self-identified Race [N (%)]		
White	209 (86)	98 (83)
Asian	11 (5)	6 (5)
Black	8 (3)	5 (4)
Not Reported	15 (6)	9 (8)
Age Group [N (%)]		
< 65 years	170 (70)	81 (69)

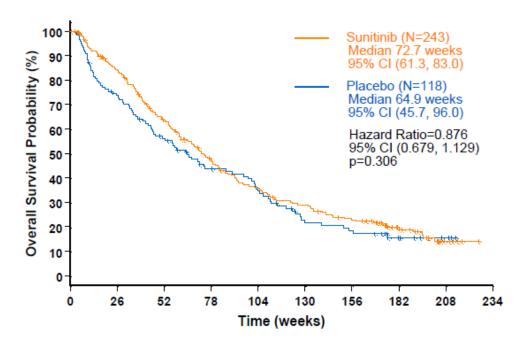
Teva-Sunitinib Capsules Page 44 of 73

	Sunitinib (N = 243)	Placebo (N = 118)
\geq 65 years	73 (30)	37 (31)
Performance Status [N (%)]		
0	109 (45)	53 (45)
1	131 (54)	63 (54)
2	3 (1)	2 (2)
Prior Treatment [N (%)]		
Surgery (other than biopsy)	238 (98)	116 (98)
Radiotherapy	15 (6)	12 (10)
Median Maximum Dose of Prior Imatinib Therapy [mg (Range)]	800 (300 – 1600)	800 (400 – 1600)
Reason for Imatinib Failure [N (%)]		
Intolerance	13 (5)	4 (3)
Primary Resistance (Progression within 6 months)	42 (17)	20 (17)
Secondary Resistance (Progression beyond 6 months)	188 (77)	94 (80)

After the primary endpoint was met at the interim analysis, the study was unblinded, and patients on the placebo arm were offered open-label sunitinib treatment. A total of 255 patients received sunitinib in the open-label treatment phase of the study, including 99 patients who were initially treated with placebo. Partial responses were achieved by 10 of these 99 patients [10.1% ORR 95% CI (5.0 to 17.8)]. Median OS in the ITT population was 72.7 weeks and 64.9 weeks (hazard ratio 0.876, 95% CI 0.679 to 1.129, p = 0.306) in the sunitinib and placebo arms, respectively. In this analysis, the placebo arm included those patients randomized to placebo who subsequently received open-label sunitinib treatment. Of those patients randomized to the sunitinib arm, 62.7% survived longer than 1 year, 35.5% survived longer than 2 years, and 22.3% survived longer than 3 years.

Teva-Sunitinib Capsules Page 45 of 73

Figure 2: Kaplan-Meier Curve of OS in GIST Study A (Intent-to-Treat Population)



Abbreviations: CI = Confidence Interval; GIST = Gastrointestinal Stromal Tumour; N = Number of patients; OS = Overall Survival

GIST Study B

Study B was an open-label, multi-centre, single-arm, dose-escalation study conducted in patients with GIST after progression on, or intolerance to, imatinib. Following identification of the recommended Phase 2 regimen (50 mg once daily on Schedule 4/2) 55 patients in Study B received the 50 mg dose of sunitinib on treatment Schedule 4/2. Partial responses were observed in 5 of 55 patients (9.1%).

MRCC Patient Population

Treatment-Naïve MRCC

A Phase 3 randomized study comparing single-agent sunitinib with IFN-α was conducted in patients with treatment-naïve MRCC. The primary endpoint was to compare PFS in patients receiving sunitinib versus patients receiving IFN-α. Secondary endpoint included TTP, ORR, OS, and safety. PFS was defined as the time from randomization to first documentation of objective tumour progression or to death due to any cause, whichever occurred first. TTP was defined as the time from randomization to first documentation of objective tumour progression. ORR was defined as the proportion of patients with confirmed complete response (CR) or confirmed partial response (PR) according to Response Evaluation Criteria in Solid Tumors

Teva-Sunitinib Capsules Page 46 of 73

(RECIST), relative to the total population of randomized patients. OS was defined as the time from randomization to date of death due to any cause. Safety was reported as type, incidence, severity, timing, seriousness, and relatedness of adverse events and laboratory abnormalities. Three scheduled analyses were planned for this study; as the study met its primary endpoint of PFS at the time of the second interim analysis, the study protocol was amended to allow patients in the IFN- α group to cross over to receive sunitinib on documented disease progression, as agreed with the independent data and safety monitoring committee.

Interim Analysis

Seven hundred fifty (750) patients were randomized (1:1) to receive either 50 mg sunitinib once daily on Schedule 4/2 or to receive IFN- α administered subcutaneously at 9 MIU three times a week. During the first cycle, patients randomized to the IFN- α arm received increasing doses from 3 MU per dose for one week, 6 MU per dose for the second week, and 9 MU per dose thereafter. Tumour assessment was performed every 28th day of each cycle for the first 4 cycles and every 12 weeks thereafter. After the first cycle, 65 of 375 patients on the IFN- α arm were assessed as having disease progression or died, compared to 39 of 375 patients on the sunitinib arm. Patients were treated until disease progression or withdrawal from the study for another reason.

The ITT population included 750 patients, 375 randomized to sunitinib and 375 randomized to IFN-α. There were 15 patients randomized to the IFN-α arm who withdrew consent prior to starting the treatment; therefore, the AT population included 375 randomized to sunitinib and 360 randomized to IFN-α. Histological evaluation demonstrated that 90% of the enrolled MRCC patients in both treatment arms had clear cell histology. Baseline age, gender, race and ECOG performance status were comparable and balanced between the sunitinib and IFN-α groups. Demographics and patient characteristics are shown in Table 11. The most common site of metastases present at screening was the lung (78% versus 80%, respectively), followed by the lymph nodes (58% versus 53%, respectively), and bone (30% each arm); the majority of the patients had multiple (2 or more) metastatic sites at baseline (80% versus 77%, respectively).

Table 11: Baseline Demographics in Treatment-Naïve MRCC Study

	Treatment-N	Naïve MRCC
	Sunitinib	IFN-α
	(N = 375)	(N=375)
Gender [N (%)]		
Male	267 (71)	269 (72)
Female	108 (29)	106 (28)
Self-identified Race [N (%)]		
White	354 (94)	340 (91)
Asian	7 (2)	12 (3)
Black	4(1)	9 (2)
Not Reported	10 (3)	14 (4)
Age Group [N (%)]		
< 65 years	223 (59)	252 (67)
\geq 65 years	152 (41)	123 (33)

Teva-Sunitinib Capsules Page 47 of 73

	Treatment-N	Vaïve MRCC
	Sunitinib	IFN-α
	(N=375)	(N=375)
Performance Status [N (%)]		
0	231 (62)	229 (61)
1	144 (38)	142 (38)
2	0 (0)	4 (1) ^a
Prior Treatment [N (%)]		
Nephrectomy	340 (91)	335 (89)
Radiotherapy	53 (14)	54 (14)

Abbreviations: ECOG = Eastern Cooperative Oncology Group; MRCC = Metastatic Renal Cell Carcinoma; N = number of subjects.

In the interim analysis, there was a statistically significant advantage for sunitinib over IFN- α in the primary endpoint of PFS, with PFS for sunitinib more than double that of IFN- α (47.3 versus 22.0 weeks, respectively) (see Table 12). Due to concerns that the overall study results may have been influenced by results for patients randomized to the IFN- α arm who were assessed as experiencing disease progression or death prior to reaching the 9 MU dose (see previous page), an additional analysis was performed in which patients who had disease progression or died during Cycle 1 were not included. Results of this analysis also demonstrated a statistically significant difference in PFS between the two treatment groups (HR=0.343, 95% CI: 0.24-0.48, p < 0.0001). The median PFS estimates were 48.3 versus 31.3 weeks for sunitinib and IFN- α arms, respectively.

The secondary endpoint of ORR was more than 4 times higher for sunitinib than IFN- α . At the time of the interim analysis, 374 of 750 patients enrolled (50%) continued on study, 248/375 (66%) on the sunitinib arm and 126/375 (34%) on the IFN- α arm. Efficacy results are summarized in Table 12 and the Kaplan-Meier curve for PFS is shown in Figure 3. The results were similar in the supportive analyses and they were robust when controlling for demographic (age, gender, race and performance status) and known risk factors.

Table 12: Treatment-Naïve MRCC Efficacy Results*

	Treatment-Naïve MRCC				
Efficacy Parameter	Sunitinib $(N = 375)$	$ IFN-\alpha (N = 375) $	P-value (log- rank test)	HR (95% CI)	
Progression Free Survival ^a	47.3	22.0	< 0.000001 ^b	0.415	
[median, weeks (95% CI)]	(42.6, 50.7)	(16.4, 24.0)	< 0.000001	(0.320, 0.539)	
Time to Tumour Progression ^a	47.9	22.3	< 0.000001	0.416	
[median, weeks (95% CI)]	(45.9, 50.7)	(17.3, 31.3)	< 0.000001	(0.318, 0.545)	
Objective Response Rate ^a	38.7	7.7	< 0.001°	NA	
[%, (95% CI)]	(33.7, 43.8)	(5.2, 10.9)	< 0.001	INA	

Abbreviations: CI = Confidence Interval, $\overline{NA} = Not Applicable$; $IFN-\alpha = Interferon-\alpha$; MRCC = Metastatic Renal Cell Carcinoma; N = Number of Subjects

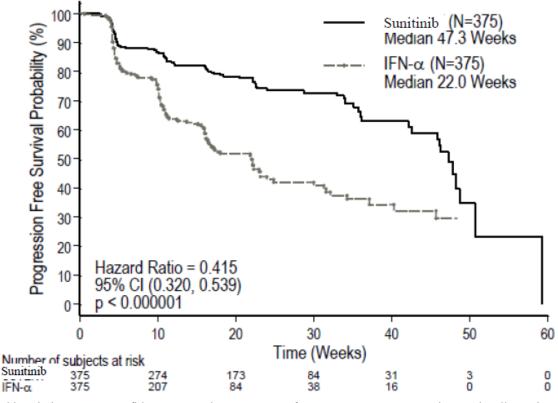
Teva-Sunitinib Capsules Page 48 of 73

a Patients had ECOG performance status of 1 at screening which changed to 2 at baseline

a Assessed by blinded core radiology laboratory

- b A comparison is considered statistically significant if the p-value is < 0.0042 (O'Brien Fleming stopping boundary)
- c Pearson chi-square test
- * The results presented originate from the interim analysis with the exception of ORR that originates from the final data

Figure 3: Kaplan-Meier Curve of PFS in Treatment-Naïve MRCC Study (Intent-to-Treat Population)



Abbreviations: CI = Confidence Interval; $IFN-\alpha = Interferon-\alpha$; MRCC = Metastatic Renal Cell Carcinoma; PFS = Progression Free Survival

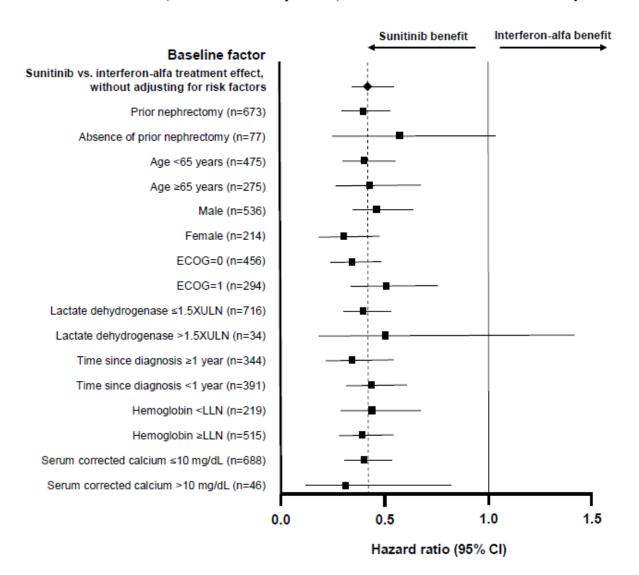
The influence of baseline factors on the treatment effect was further analyzed by using a Cox proportional hazards model including the baseline factors, controlling for each factor one at a time. In the primary analysis, the overall treatment effect hazard ratio was 0.415 (95% CI: 0.320 to 0.539; p< 0.001) and was similar when controlling for each individual baseline factor. The treatment effect in the baseline factor subgroups is illustrated in Figure 4.

The baseline factors baseline ECOG (0 vs 1), baseline LDH (\leq vs > 1.5 x ULN), time since original diagnosis (\geq vs < 1 year), baseline hemoglobin (\geq vs < LLN), baseline corrected calcium (\leq vs > 10 mg/dL) and baseline alkaline phosphatase (\leq vs > ULN) were statistically significant at p < 0.01. Using the investigators assessment, the results were similar except that the baseline

Teva-Sunitinib Capsules Page 49 of 73

factors prior nephrectomy (p = 0.0064), sex (p = 0.0349), and baseline ECOG (p<0.001) were also significant.

Figure 4: Result of Cox Proportional Analysis of Progression-Free Survival, Treatment Comparisons by Individual Baseline Factors One at a Time Core Radiology Laboratory Assessment (Intent-to-Treat Population) in the Treatment-Naïve MRCC Study



Final Analysis

One hundred ninety (50.7%) patients on sunitinib versus 200 (53.3%) patients on IFN- α had died at the time of the final analysis. As shown in Figure 5, in the primary analysis of survival, there was a trend toward longer survival with sunitinib treatment. The median OS was 115 weeks for the sunitinib arm (95% CI: 100 - 143) and 94.9 weeks for the IFN- α arm (95% CI: 77.7 - 117.0) [HR= 0.821 (95% CI: 0.673 - 1.001); p=0.0510 by log-rank test, primary analysis]. In the stratified analysis (LDH > vs \leq 1.5 x ULN, ECOG performance status 0 vs \geq 1, and absence or presence of prior nephrectomy), the HR was 0.818 (95% CI: 0.669 to 0.999; p=0.049 by log-rank

Teva-Sunitinib Capsules Page 50 of 73

test, secondary analysis). The median OS for the IFN- α arm includes 25 patients who discontinued IFN- α treatment because of disease progression and crossed over to treatment with sunitinib. Following discontinuation from the study, 213 patients on the IFN- α arm received post-study cancer treatment, including 32% who received sunitinib; 182 patients on the sunitinib arm received post-study cancer treatment, including 11% who received sunitinib.

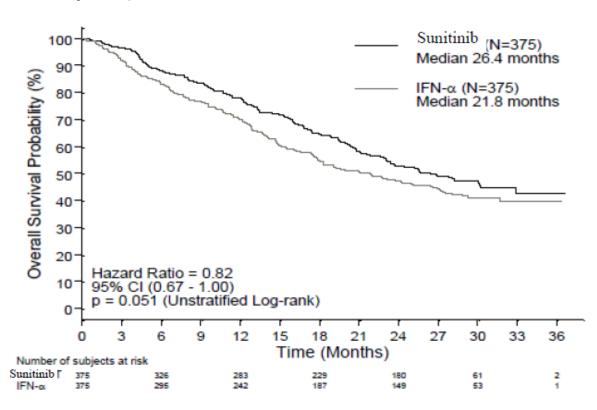


Figure 5: Kaplan-Meier Curve of OS in Treatment-Naïve RCC Study (Intent-to-Treat Population)

Abbreviations: CI = Confidence Interval; IFN- α = Interferon- α ; OS = Overall Survival; RCC = Renal Cell Carcinoma

Cytokine-Refractory MRCC

The use of single agent sunitinib in the treatment of cytokine-refractory MRCC was investigated in 2 single-arm US studies. Patients received sunitinib at a starting dose of 50 mg once daily on a schedule of 4 weeks on treatment followed by 2 weeks off (Schedule 4/2). In pivotal Study 1, failure of the previous cytokine therapy was based on radiographic evidence of disease progression defined by RECIST or World Health Organization (WHO) criteria during or within 9 months of completion of 1 cytokine therapy treatment (IFN-α, interleukin-2, or IFN-α plus interleukin-2; patients who were treated with IFN-α alone were required to have received treatment for at least 28 days). In supportive Study 2, failure of prior cytokine therapy was defined as disease progression or unacceptable treatment-related toxicity. The primary endpoint was objective response rate (ORR) based on independent, third party radiology laboratory

Teva-Sunitinib Capsules Page 51 of 73

assessment in Study 1 and ORR based on investigator assessment in Study 2. Secondary endpoints included assessment of Duration of Response (DR). Study 1 was reported early because of promising results; follow-up has not been completed thus results for DR cannot be accurately calculated.

One hundred six (106) patients were enrolled into Study 1 and 63 patients were enrolled into Study 2. Therapy was continued until the patients met withdrawal criteria or had progressive disease. The baseline age, gender, race and ECOG performance statuses of the patients were comparable between Studies 1 and 2. Approximately 86-94% of patients in the 2 studies were white. Men comprised 65% of the pooled sunitinib population. The median age was 57 years and ranged from 24 to 87 years in the studies. All patients entered the studies with an ECOG performance status < 2 at the screening visit; 2 patients had a performance status of 2 at baseline.

The baseline malignancy and prior treatment history of the patients were comparable between Studies 1 and 2. Across the 2 studies, 95.3% of the pooled population of patients had at least some component of clear-cell histology. All patients on Study 1 were required to have a histological clear-cell component. In Study 2, 87% of patients had cytokine-refractory MRCC of clear-cell histology. Elapsed time since diagnosis was approximately 1.6 years prior to study entry. Most patients enrolled in the studies (97% of the pooled population) had undergone nephrectomy; prior nephrectomy was required for patients enrolled in Study 1. All patients had received one previous cytokine regimen, to which 9.5% (n=16) had experienced an objective disease response. Metastatic disease present at the time of study entry included lung metastases in 81% of patients. Liver metastases were more common in Study 1 (27% vs. 16% in Study 2) and bone metastases were more common in Study 2 (51% vs. 25% in Study 1); 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.

Results of Studies 1 and 2

The results of Studies 1 and 2 are provided in Table 13.

Table 13: Cytokine-Refractory MRCC Efficacy Results^a

Efficacy Parameter	Study 1 (N = 106)	Study 2 (N = 63)
Objective Response Rate [% (95% CI)] (PR)	25.5 (17.5, 34.9)	36.5 (24.7, 49.6)
Duration of Response {median, weeks [months] (95% CI)}	NE*	54 [12.5] (34.3, 70.1)

Abbreviations: CI = Confidence Interval, PR=Partial response, NE=Not estimable

- a Data based on cutoff date of 28 January 2005 for Study 1 and 01 December 2004 for Study 2.
- * Duration of Response in Study 1 was premature as 4 of 27 patients responding to treatment had experienced disease progression.

The primary endpoint of Study 1 was ORR based on independent radiology laboratory assessment; the primary endpoint of Study 2 was ORR based on investigator assessment. No complete responses and 27 partial responses were observed in Study 1 for an ORR of 25.5% (95% CI: 17.5, 34.9). No complete responses and 23 partial responses as assessed by the

Teva-Sunitinib Capsules Page 52 of 73

investigator were observed in Study 2 for an ORR of 36.5% (95% CI; 24.7, 49.6). The majority of objective disease responses were observed during Cycles 2 to 4; responses were observed as late as Cycle 11. DR data are indicated above for Study 2; DR data from Study 1 are premature as only 4 of 27 patients (15%) responding to treatment had experienced disease progression. At the time of the data cut-off, 41% of patients enrolled were continuing treatment with sunitinib.

Pancreatic Neuroendocrine Tumours

Phase 3

The Phase 3 study was a multi-center, international, randomized, double-blind placebo-controlled study of single-agent sunitinib conducted in patients with unresectable pancreatic NET. 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 mg sunitinib once daily without a scheduled off-treatment period (n=86) or placebo (n=85). The dose was escalated to 50 mg for 8 patients. The primary objective was to compare Progression-Free Survival (PFS) in patients receiving sunitinib versus patients receiving placebo. Other endpoints included Overall Survival (OS), Objective Response Rate (ORR), Patient-reported Outcomes (PRO), and safety. Use of somatostatin analogs was allowed in the study.

Demographics were comparable between the sunitinib and placebo groups. Additionally, 49% of sunitinib patients had non-functioning tumours 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. In addition, 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 prior to the pre-specified interim analysis. This may have led to an overestimate of the magnitude of PFS effect. In order to rule out investigator bias in the efficacy assessment, review of the data was performed by the Blinded Independent Review Committee (BICR), which supported the investigator assessment. A clinically significant advantage for sunitinib over placebo in the endpoint of 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 in Table 14, and the Kaplan-Meier curve for PFS is shown in Figure 6.

Table 14: Pancreatic NET Efficacy Results from the Phase 3 Study

Efficacy Parameter	Sunitinib (N = 86)	Placebo (N = 85)	P-value	HR (95% CI)
Progression-Free Survival [median, months	11.4	5.5	0.000118^{a}	0.418
(95% CI)] by Investigator Assessment	(7.4, 19.8)	(3.6, 7.4)	0.000118	(0.263, 0.662)

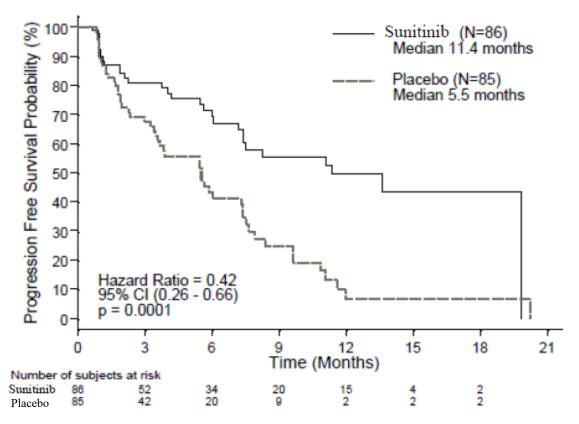
Teva-Sunitinib Capsules Page 53 of 73

Efficacy Parameter	Sunitinib (N = 86)	Placebo (N = 85)	P-value	HR (95% CI)
Objective Response Rate [% (95% CI)]	9.3 (3.2, 15.4)	0	0.0066 ^b	NA

Abbreviations: CI = Confidence Interval, HR = Hazard Ratio, N = Number of patients, NA = Not Applicable, pNET = Pancreatic Neuroendocrine Tumours

- a 2-sided unstratified log-rank test
- b Fisher's Exact Test

Figure 6: Kaplan-Meier Curve of PFS in the pancreatic NET Phase 3 Study



Abbreviations: CI = Confidence Interval; N = Number of subjects; PFS = Progression-Free Survival; pNET = Pancreatic Neuroendocrine Tumours.

DETAILED PHARMACOLOGY

The nonclinical pharmacology program of sunitinib evaluated the ability of sunitinib, and its major active metabolite, to inhibit the activity and function of its receptor tyrosine kinase (RTK) targets *in vitro* and *in vivo* as well as its ability to inhibit tumour progression in rodent models of experimental cancer. The primary metabolite exhibits similar potency compared to sunitinib in biochemical and cellular assays.

Teva-Sunitinib Capsules Page 54 of 73

In vitro Activity:

Sunitinib was selective for its intended RTK targets when evaluated over a panel of >80 biochemical kinase screens (15-20% of known kinases).

Table 15: Inhibition of Pharmacologically Relevant Target Receptor Tyrosine Kinases by Sunitinib

Tyrosine	Biochemical Ki ^a	Cellular IC ₅₀ (mcM)		
Kinase	(mcM)	RTK Phosphorylation ^b	Cell Proliferation ^d	
VEGFR1	0.002	ND	ND	
VEGFR2	0.009 (Flk-1)	0.004 (KDR)	0.004 (KDR)	
		0.01 (Flk-1) ^c	0.004 (KDK)	
VEGFR3	0.017	ND	ND	
PDGFRα	ND	ND	0.069	
PDGFRβ	0.008	0.003	0.039	
		0.01°	0.039	
KIT	ND	0.013	0.002	
		0.001 - 0.01°	0.002	
FLT3-ITD	ND	0.05°	0.01	
RET	ND	0.05°	0.05	
CSF-1R	ND	$0.05-0.1^{\circ}$	ND	

ND = Not Determined; ITD = Internal Tandem Duplication; KDR = human ortholog of VEGFR2; Flk-1 = mouse ortholog of VEGFR2

In Vivo Activity

Sunitinib inhibited the phosphorylation of multiple RTKs (PDGFRβ, VEGFR2, KIT) in tumour xenografts expressing RTK targets and demonstrated the ability to inhibit tumour growth or cause tumour regression, and/or inhibit metastatic progression in a variety of rodent models of experimental cancer. Consistent with its multi-targeted profile, sunitinib malate demonstrated the ability to inhibit growth of tumour cells expressing dysregulated target RTK (PDGFR, RET, or KIT) and to inhibit PDGFRβ- and VEGFR2-dependent tumour angiogenesis.

Non-Clinical Safety Pharmacology - QT Studies

Sunitinib and its active metabolite SU012662 both suppressed hERG currents in human embryonic kidney cells stably transfected with hERG channel DNA. IC₅₀ values for sunitinib were 266.3 nM (nominal) and 144.1 nM (analytically verified). For SU12662, an IC₅₀ value of

Teva-Sunitinib Capsules Page 55 of 73

a Values were determined in biochemical kinase assays using recombinant enzymes.

b Values were determined by measuring intrinsic or ligand-stimulated kinase activity (phosphorylation) in cell lines expressing a given target RTK by ELISA assay or immunoblotc. Inhibition of phosphorylation is a measure of inhibition of catalytic activity of RTK targets.

c Estimated values (or value ranges) were determined by visual assessment of immunoblot analysis of RTK phosphorylation in cells over a range of concentrations.

d Values were determined by measuring intrinsic or ligand-stimulated cell proliferation in cell lines expressing a given target RTK. Inhibition of cell proliferation reflects the inhibition of kinase-dependent function of RTK targets in cell lines selected for these assays.

4.1 mcM was reported (nominal). Sunitinib also caused an increase in action potential duration in canine Purkinje fibres. Furthermore, sunitinib caused QTc prolongation in conscious telemetry monkeys at doses of 50 mg/kg and 150 mg/kg (intragastric), which produced plasma concentrations of sunitinib and SU012662 ranging from 242-474 ng/mL and 270-304 ng/mL, respectively. Peak increases were 72 msec and 77 msec for the 50 and 150 mg/kg doses, respectively.

Pharmacokinetics

See also ACTION AND CLINICAL PHARMACOLOGY.

After intravenous administration in mice, rats, and monkeys, sunitinib showed moderate to high systemic clearance and a volume of distribution larger than total body water. The half-life was approximately 1, 2-5, and 15 hours in mice, rats, and monkeys, respectively. Following oral dosing, T_{max} of sunitinib was observed between 0.5-9 hours and bioavailability was 50% or higher (53-77% in mice, 55-112% in rats, and 41-58% in monkeys). Plasma protein binding of sunitinib was 91% in mouse, 98% in rat, and 95% in monkey and human. In rats and monkeys, sunitinib and its metabolites were extensively distributed into tissues with concentrations in most tissues higher than in blood or plasma. In repeated dose studies, the plasma exposure in rats and monkeys and tissue exposure in monkeys increased with dose and attained steady state by day 28 of dosing. At steady state, the AUC of sunitinib and its active metabolite in plasma was less than 4 times that of the values on day 1 in both species. Tissue levels of drug and its primary metabolite in monkeys were 13 to 308 times that of plasma concentrations at 24 hours post dose; white fat and CNS had lower concentrations than other tissues.

Sunitinib was extensively metabolized *in vitro* in hepatic microsomes from mouse, rat, monkey, and human; and *in vivo* in rat, monkey, and human. The metabolism, which was similar *in vitro* and *in vivo*, was mainly mediated by CYP3A to produce the primary active metabolite. Although multiple minor metabolites have been identified in excreta, sunitinib and its primary active metabolite were the only drug-related compounds that could be measured in plasma in mice, rats, monkeys, and humans. Studies with human liver microsomes and hepatocytes indicate that sunitinib has low potential to cause clinically relevant drug-drug interactions with other co-administered drugs that are metabolized by CYP450 enzymes, CYP1A2, CYP2D6, CYP2C8, CYP3A4/5, CYP2C19, CYP2C9, CYP2A6, CYP2B6, CYP2E1, and CYP4A9/11. Sunitinib and its metabolites were mainly eliminated in feces and urinary elimination is a minor route. In monkeys, 84-87% of a radioactive dose was recovered in feces and 5-6% in urine with a total recovery of 90-94%. In rats, the total recovery was 82-87% with 71-77% in feces and 8-9% in urine. Fecal elimination is also a major route in humans. Overall, the pharmacokinetic and metabolism data from mouse, rat, and monkey indicate that these species are adequate for nonclinical pharmacology and toxicology studies with sunitinib.

MICROBIOLOGY

Not applicable.

Teva-Sunitinib Capsules Page 56 of 73

TOXICOLOGY

The nonclinical toxicologic profile of sunitinib has been extensively investigated (see Table 16).

Single Dose Toxicity

The acute oral maximally tolerated-dose (MTD) for mice, rats, and dogs was greater than the tested maximum dose of 500 mg/kg of sunitinib. The oral MTD of sunitinib was greater than the tested maximum dose of 1200 mg/kg for monkeys, with emesis observed at doses ≥50 mg/kg. Sunitinib did not cause lethality following single-dose administration of 500 mg/kg to mice (48 times the recommended human dose of 50 mg/day on 4/2 Schedule, based on body surface area), 500 mg/kg to rats (95 times the recommended human dose), 500 mg/kg to dogs (approximately 300 times the recommended human dose), and 1200 mg/kg to monkeys (approximately 450 times the recommended human dose). In monkeys, emesis, diarrhea, and slight increases in fibrinogen, aspartate aminotransferase (AST), alanine aminotransferase (ALT), lactic dehydrogenase (LDH), creatine kinase (CK) and alpha-hydroxybutyric dehydrogenase (HBDH) occurred following administration of single oral doses of 50 mg/kg/day.

Repeat Dose Toxicity

The long-term toxicity of sunitinib was evaluated in repeat dose toxicity studies in rats and monkeys (Table 16).

Teva-Sunitinib Capsules Page 57 of 73

Table 16: Repeat-Dose Toxicity

Species / Strain	No./Group	Dose (mg/kg/day)	Route	Duration	Recovery Period	Results / Observations
Rat/Crl: CD (SD) BR	10M 10F	5, 15, 45	Oral	2 weeks	-	Toxic changes were observed in bone growth plate, adrenal gland, pancreas, bone marrow and hemolymphopoietic organs and circulating red and white blood cells, gastrointestinal system, and male and female reproductive organs. The 5 mg/kg/day dose was the no-adverse-effect-level (NOAEL).
Rat/Crl: CD (SD) IGS BR	14M 14F	30 (QD) 30, 60 (QOD) 30, 80, 240 ^a	Oral	2 weeks	-	Toxic changes were similar to those observed in the previous 14-day study. Treatment with 240 mg/kg/day of SU012662 (major metabolite) resulted in similar target organ toxicity that was observed at 30 mg/kg/day of sunitinib. The NOAEL was < 30 mg/kg/day.
Rat/Crl: CD (SD) BR	15M 15F	2.5, 5, 15	Oral	1 month	4 weeks	Additional changes included broken incisor teeth due to dentin degeneration in rats at >5 mg/kg/day, other changes similar to previously reported findings. The dose of 5 mg/kg/day was considered to be the NOAEL.
Rat/Crl: CD (SD) BR	20M 20F	1.5, 5, 15	Oral	3 months	6 weeks	Toxic changes were similar to those observed in previous rat studies, except for changes in the common bile duct, ↑ in ALT and AST, and ↓ in albumin and urea at 15 mg/kg/day. Broken incisors observed at > 5 mg/kg/day were associated with a moderate to marked loss of body weight at 15 mg/kg/day. Partial recovery of body weight occurred in the last week of the study after soft/powdered food was supplied. The dose of 1.5 mg/kg/day was considered the NOAEL.
Rat/Crl: CD (SD) IGS BR	25M 25F	0.3, 1.5, 6.0	Oral	6 months (5 cycles of 4- wk dosing, 1 wk off)	8 weeks	Toxic changes were similar to those observed in previous rat studies, except for chronic progressive nephrosis observed at ≥ 1.5 mg/kg/day. The dose of 0.3 mg/kg/day was considered the NOAEL.
Monkey/Cyn omolgus	3M 3F	5, 15, 45	Oral	2 weeks	-	Overall, toxicity observed in tissues previously identified in rats. Vomiting, decreased activity, feed intake, and body weight; and, minimal prolongation of QTc interval at 45 mg/kg/day. The dose

Teva-Sunitinib Capsules Page 58 of 73

Species / Strain	No./Group	Dose (mg/kg/day)	Route	Duration	Recovery Period	Results / Observations
						of 5 mg/kg/day was considered the NOAEL.
Monkey/Cyn omolgus	6M 6F	2, 6, 12	Oral	3 months	6 weeks	Similar changes to previous studies, in addition, epithelial necrosis with erosion/ulceration in tissues of the oral cavity observed at >6 mg/kg/day. Severe clinical signs observed at 12 mg/kg/day: mortality, anorexia, body weight loss, emesis, soft to watery feces, pale skin, decreased activity, hunched posture, hypothermia, discolored mouth or gums, and lip or mouth lesions. All changes were reversible at the end of recovery. The NOAEL was <2 mg/kg/day based on observation of physeal dysplasia, endometrial atrophy, and pancreatic acinar degranulation.
Monkey/Cyn omolgus	7M 7F	0.3, 1.5, 6.0	Oral	9 months (8 cycles of 4-wk dosing, 1 wk off)	8 weeks	Additional changes at 6 mg/kg/day included female reproductive changes including epithelial atrophy of the cervix, oviduct and vagina, follicular atresia and the absence of corpora lutea in the ovaries, and endometrial atrophy in the uterus; ↑ glomerular mesangial matrix in the kidney; acute thyroid gland inflammation; choroid plexus inflammation; and, esophageal and lingual epithelial atrophy. All toxicological effects were considered reversible except for skin pallor and the decrease in uterine and ovarian weights at 6 mg/kg/day. The dose of 1.5 mg/kg/day was considered the NOAEL.

M =Male; F =Female; -- = Not applicable; NOAEL = No observed adverse effect level; ↓ = Decrease; ↑ = Increase; QD = Once daily dosing; QOD = Every other day dosing; ALT = Alanine aminotransferase; AST = Aspartate aminotransferase a The major, active metabolite of SU011248, SU012662 was tested.

Teva-Sunitinib Capsules Page 59 of 73

In summary, important and reversible toxicologic findings following sunitinib administration included emesis and diarrhea in monkeys at ≥ 1.1 times the mean human exposure of 1929 ng·h/mL at the recommended clinical dose of 50 mg/day (based on combined sunitinib and active metabolite systemic exposure comparisons). Adrenal cortical hemorrhage was observed in rats at ≥ 16 times and in monkeys at ≥ 1.1 times the mean human exposure. Bone marrow hypocellularity was observed in rats at ≥ 3.3 times, and in monkeys at ≤ 1.2 times the mean human exposure. Pancreatic acinar cell degranulation was observed in rats at ≥ 16 times, and in monkeys at ≤ 1 times the mean human exposure. Bone growth plate thickening was observed in rats at ≥ 3.3 times, and in monkeys at ≤ 1 times the mean human exposure. Uterine atrophy in monkeys and corpora lutea degeneration in rats was observed at ≤ 1 times the mean human exposure at the recommended clinical dose.

Genotoxicity

The genotoxic potential of sunitinib was assessed *in vitro* and *in vivo* (see Table 17 and **WARNINGS AND PRECAUTIONS**). Sunitinib was not mutagenic in bacteria using metabolic activation provided by rat liver. Sunitinib did not induce structural chromosome aberrations in human peripheral blood lymphocyte cells *in vitro*, and polyploidy (numerical chromosome aberrations) was observed in human peripheral blood lymphocytes *in vitro*, in the presence and absence of metabolic activation. Sunitinib was not clastogenic in rat bone marrow *in vivo*. The major, active metabolite was not evaluated for genetic toxicity potential.

Teva-Sunitinib Capsules Page 60 of 73

Table 17: Genotoxicity

Type of Study	Drug Lot Number	Test System	Metabolic Activation ^a	Dose / Concentration Range	Results
Microbial reverse mutation assay	(A)5903-TJF-0001	S. typhimurium and E. coli	Without and With	±S9: 19.53, 39.06, 78.12, 156.25, 312.5 mcg/plate	Sunitinib was not mutagenic in the Ames assay with or without metabolic activation up to the maximum concentrations.
Microbial reverse mutation assay	(A)5953-TJF-0003	S. typhimurium and E. coli	Without and With	±S9: 19.54, 39.07, 78.13, 156.25, 312.5, 625 mcg//plate	Sunitinib was not mutagenic in the Ames assay with or without metabolic activation up to the maximum concentrations.
In Vitro Micronucleus	002101	Human Blood Lymphocytes	NA	+S9: 1.00-70.0 mcg//mL -S9: 1.00-59.9 mcg//mL	Sunitinib was negative for inducing structural chromosomal aberrations with and without S9 at any concentration. Sunitinib induced numerical aberrations at 9.73-19.8 mcg/mL with S9, and 12.0 mcg/mL without S9.
In Vivo Micronucleus Assay	002101, 002103	Rat bone marrow cells (in vivo)	NA	250, 750, 1500 mg/kg	Sunitinib failed to induce micronuclei in bone marrow polychromatic erythrocytes, from rats treated up to 1500 mg/kg. Therefore, sunitinib was considered to be not clastogenic in this test system.

Teva-Sunitinib Capsules Page 61 of 73

NA = Not applicable; S = Salmonella; E = Escherichia; a Aroclor-induced rat liver S-9 fraction from male Sprague-Dawley rats.

Carcinogenicity

The carcinogenic potential of sunitinib was assessed *in vivo* in mice and rats (see Table 18 and **WARNINGS AND PRECAUTIONS**).

In a 1-month, oral gavage dose-range finding study (0, 10, 25, 75, or 200 mg/kg/day) with continuous daily dosing in rasH2 transgenic mice; hyperplasia of epithelial non-glandular stomach and mucous cells of the glandular stomach and carcinoma and hyperplasia of Brunner's glands of the duodenum, were observed at the highest dose (200 mg/kg/day) tested.

A 6-month, oral gavage carcinogenicity study (0, 8, 25, 75 [reduced to 50] mg/kg/day), with daily dosing was conducted in rasH2 transgenic mice. Gastroduodenal carcinomas, an increased incidence of background hemangiosarcomas, and gastric mucosal hyperplasia have been observed at doses of \geq 25 mg/kg/day following 1- or 6-month duration (\geq 7.3 times the AUC in patients administered the RDD). No proliferative changes were observed in rasH2 transgenic mice at 8 mg/kg/day (\geq 0.7 times the AUC in patients administered the RDD).

In a 2-year rat carcinogenicity study (0, 0.33, 1, or 3 mg/kg/day), administration of sunitinib in 28-day cycles followed by 7-day dose-free periods resulted in duodenal carcinomas in Brunner's glands, increases in the incidence of pheochromocytomas and hyperplasia in the adrenal medulla of male rats given 3 mg/kg/day following >1 year of dosing (\geq 7.8 times the AUC in patients administered the RDD). Brunner's glands carcinoma occurred in the duodenum at \geq 1 mg/kg/day in females and at 3 mg/kg/day in males, and mucous cell hyperplasia was evident in the glandular stomach at 3 mg/kg/day in males, which occurred at \geq 0.9, 7.8 and 7.8 times the AUC in patients administered the RDD, respectively.

The relevance to humans of the neoplastic findings observed in the mouse (rasH2 transgenic) and rat carcinogenicity studies with sunitinib treatment is unclear.

Teva-Sunitinib Capsules Page 62 of 73

Table 18: Carcinogenicity

Species / Strain	No./Group	Dose (mg/kg/day)	Route	Duration	Results / Observations
CB6F1/Jic- TgrasH2@T ac	25-45M; 25-45F	8, 25, 75/50 ^a	Oral	6 months	Gastroduodenal carcinomas (inclusive of Brunner's gland), gastric mucous cell hyperplasia, and an increased incidence of hemangiosarcomas of the spleen and uterus were observed at doses ≥ 25 mg/kg/day. Additional non-proliferative microscopic findings were observed in the bone marrow, liver, kidneys, ovaries, pancreas, and thymus at doses ≥ 25 mg/kg/day. The no effect level for proliferative changes was 25 mg/kg/day in males and 8 mg/kg/day in females.
Rat/Crl: CD (SD)	60-70M; 60-70F	0.33, 1.0, 3.0	Oral	2 years	Carcinoma of the duodenum (inclusive of Brunner's gland), an increased incidence of pheochromocytomas in the adrenal medulla, and gastric mucous cell hyperplasia were observed at ≥ 1.0 mg/kg/day. Additional non-proliferative or secondary microscopic findings were observed in the adrenal gland, kidney, parathyroid gland, bone marrow, stomach, and thymus at ≥ 0.33 mg/kg/day. The no observed effect level for proliferative changes was 1.0 mg/kg/day in males and 0.33 mg/kg/day in females.

a Dose reduction from 75 to 50 mg/kg/day occurred following a short dose holiday at approximately 6 weeks of dosing in male animals and 9 weeks of dosing in female animals due to excessive mortality or signs of intolerance.

Teva-Sunitinib Capsules Page 63 of 73

Reproductive and Developmental Toxicity

Although fertility was not affected in rats, sunitinib may impair fertility in humans, (see Table 19 and WARNINGS AND PRECAUTIONS). No reproductive effects were observed in male rats dosed (1, 3 or 10 mg/kg/day) for 58 days prior to mating with untreated females. Fertility, copulation, conception indices and sperm evaluation (morphology, concentration, and motility) were unaffected by sunitinib at doses \leq 10 mg/kg/day (the 10 mg/kg dose produced a mean AUC that was approximately 25.8 times the systemic exposure in patients administered the recommended human dose [RHD] of 50 mg/daily). Female rats were dosed (0.5, 1.5 or 5 mg/kg/day) for 14 days prior to mating with untreated males. No effects on fertility were observed in female rats at doses \leq 5 mg/kg/day (the 5 mg/kg dose produced a mean AUC that was approximately 5 times the systemic exposure in patients administered the RHD).

Effects on the female reproductive system were identified in a 3-month monkey toxicology study, where ovarian (decreased follicular development) changes were noted at 12 mg/kg/day (associated with a mean AUC that was approximately 5.1 times the systemic exposure in patients administered the RHD of 50 mg/day), while uterine changes (endometrial atrophy) were noted at ≥ 2 mg/kg/day (the 2 mg/kg-dose produced a mean AUC that was approximately 0.4 times the systemic exposure in patients administered the RHD). With the addition of vaginal atrophy, the uterine and ovarian effects were reproduced at 6 mg/kg/day in the 9-month monkey study (the 6 mg/kg dose produced a mean AUC that was approximately 0.8 times the systemic exposure in patients administered the RHD).

Sunitinib was evaluated in pregnant rats and rabbits for effects on embryo-fetal development. Embryolethality and developmental abnormalities were observed in rats, at the dose of 5 mg/kg/day (the 5-mg/kg dose produced a mean AUC that was approximately 5.5 times the systemic exposure in patients administered the RHD). Embryolethality was observed in rabbits at 5 mg/kg/day, while developmental effects were observed at ≥ 1 mg/kg/day (the 1-mg/kg dose produced a mean AUC that was approximately 0.3 times the systemic exposure in patients administered the RHD of 50 mg/day). Developmental effects consisted of increased incidence of fetal skeletal malformations in rats. In rabbits, cleft lip was observed at 1 mg/kg/day and cleft lip and cleft palate was observed at 5 mg/kg/day (the 5 mg/kg dose produced a mean AUC that was approximately 2.7 times the systemic exposure in patients administered the RHD). Neither fetal loss nor malformations were observed in rats at ≤ 3 mg/kg/day (the 3 mg/kg dose produced a mean AUC that was approximately 2.3 times the systemic exposure in patients administered the RHD).

Sunitinib was evaluated in a pre- and postnatal development study in pregnant rats (0.3, 1.0, 3.0 mg/kg/day). Maternal body weight gains were reduced during gestation and lactation at ≥ 1 mg/kg/day but no maternal reproductive toxicity was observed up to 3 mg/kg/day (estimated exposure ≥ 2.3 times the AUC in patients administered the RDD). Reduced offspring body weights were observed during the pre-weaning and post-weaning periods at 3 mg/kg/day. No developmental toxicity was observed at 1 mg/kg/day (approximate exposure 0.9 times the AUC in patients administered the RDD).

Teva-Sunitinib Capsules Page 64 of 73

Table 19: Reproductive and Developmental Toxicity

Type of Study	Species / Strain	Dose Route	Doses (mg/kg/day)	Duration of Dosing	Number / Sex / Group	Results / Observations
Fertility and Early Embryonic Development (Segment 1)	Rat/Crl: CD (SD) IGS BR	Oral	0.1, 0.3, 1, 3, 10 (males) ^a 0.5, 1.5, 5.0 ^a (females)	Males > 70 days Females 14 days to G7	22M 22F	Mortality in males at 10 mg/kg/day, but sperm morphology, concentration, and motility were unaffected by treatment. Adverse developmental effects consisted of an increased mean number of dead fetuses observed in female rats at 5 mg/kg/day. No developmental effects were observed at 0.5 or 1.5 mg/kg/day. The NOAEL was considered 5 mg/kg/day for maternal toxicity, 1.5 mg/kg/day for female reproductive toxicity, and 3.0 mg/kg/day for male systemic and reproductive toxicity.
Embryo-Fetal Development (Segment II)	Rat/Crl: CD (SD) IGS BR	Oral	0.3, 1.5, 3, 5 ^a	12 days (G6-17)	22F	Embryolethality and developmental abnormalities were observed in rats, at the dose of 5 mg/kg/day. Embryolethality was observed in rabbits at 5
	Rat/Crl: CD (SD) IGS BR		1, 5, 15, 30 a	12 days (G6-17)	8F	mg/kg/day, while developmental effects were observed at ≥ 1 mg/kg/day. The 5 mg/kg/day dose was the NOAEL for maternal toxicity in rats, while
	Rabbit/New Zealand White		0.5, 1, 5, 20 ^a	14 days (G6-20)	6F	1 mg/kg/day was the NOAEL in rabbits. The NOAEL for developmental toxicity was 3 mg/kg/day in rats and 0.5 mg/kg/day in rabbits.
Pre- and Postnatal Development (Segment III)	Rat/Crl: CD (SD)	Oral	0.3, 1, 3 ^a	Approximately 35 days (G6-L20)	20F	F1 developmental toxicity was observed at 3 mg/kg/day as reduced mean body weights throughout the pre-weaning period that extended through the post-weaning period in males. Reflexive development and function, locomotor activity, learning and memory, sexual development, and reproductive function of the F1 offspring were unaffected by sunitinib treatment up to 3 mg/kg/day. The NOAEL for F1 developmental toxicity was 1 mg/kg/day

M = Male; F= Female; NOAEL = No observed adverse effect level; G = Gestation Day; L = Lactation Day. a The L-malate salt of SU011248, SU010398 was tested.

As angiogenesis is a critical component of embryonic and fetal development, inhibition of angiogenesis following administration of sunitinib may result in adverse effects on pregnancy (see WARNINGS AND PRECAUTIONS).

Pediatric Use

The safety and efficacy of sunitinib in pediatric patients have not been established (see **INDICATIONS AND CLINICAL USE**, **TOXICOLOGY**). However, physeal dysplasia was observed in Cynomolgus monkeys with open growth plates treated for ≥ 3 months with sunitinib at ≥ 2 mg/kg/day (the 2 mg/kg/day dose produced a mean AUC that was approximately 0.45 times the RHD). In the 13-week studies with sunitinib, bone abnormalities consisting of thickening of the epiphyseal cartilage of the femur and increase of fracture of the tibia were observed in developing rats at 5 mg/kg/day, (the 5 mg/kg/day dose produced a mean AUC that was approximately 3.3 times the RHD based on systemic exposure). Broken incisors were observed in rats treated ≥ 4 weeks at 5 mg/kg/day (the 5 mg/kg/day dose produced a mean AUC that was as low as 3.3 times the RHD based on systemic exposure) and caries identified at 6 mg/kg/day in the 6 month study (the 6 mg/kg/day dose produced a mean AUC that was approximately 7.2 times the RHD based on systemic exposure). While the findings in rat teeth were not reversible, the incidence and severity of physeal dysplasia were dose-related and reversible upon cessation of treatment.

Teva-Sunitinib Capsules Page 66 of 73

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Teva-Sunitinib Capsules Page 68 of 73

PART III: CONSUMER INFORMATION PrTeva-Sunitinib

Sunitinib Capsules

This leaflet is part III of a three-part "Product Monograph" published when Teva-Sunitinib was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about Teva-Sunitinib. Contact a member of your healthcare team if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:

Teva-Sunitinib is an oral medicinal product used in the treatment of 3 types of cancer:

- 1. Gastrointestinal Stromal Tumour (GIST), a cancer of the stomach and bowels. GIST arises from uncontrolled cell growth of the supporting tissues of these organs.
- 2. Kidney cancer that has spread to other parts of your body.
- 3. Pancreatic Neuroendocrine Tumour (pancreatic NET). This is a rare cancer of the endocrine pancreas. Teva-Sunitinib is used when the cancer cannot be treated with surgery.

What it does:

Teva-Sunitinib specifically targets the activity of certain enzymes called tyrosine kinases that play a major role in transmitting the chemical signals required for critical cellular processes. Teva-Sunitinib prevents the growth of blood vessels from surrounding tissue to a solid tumour, and prevents the proliferation of cancer cells.

When it should not be used:

Do not take Teva-Sunitinib:

- If you are allergic (hypersensitive) to sunitinib or any of the other ingredients of Teva-Sunitinib, listed under "What the important nonmedicinal ingredients are:".
- If you are pregnant.

What the medicinal ingredient is:

The active ingredient is sunitinib (as malate salt).

What the important nonmedicinal ingredients are:

The non-medicinal ingredients are croscarmellose sodium, magnesium stearate, mannitol and povidone.

The capsule shells contain D&C Red #28 (12.5 mg and 25 mg), FD&C Blue #1, FD&C Red #40, FD&C Yellow #6 (25 mg and 50 mg), titanium dioxide and gelatin.

The printing ink contains, Black Iron Oxide, Butyl Alcohol, D&C Yellow #10, FD&C Blue #1, FD&C Blue #2, FD&C Red #40, Methanol, Propylene Glycol and Shellac.

What dosage forms it comes in:

Teva-Sunitinib is available as hard gelatin capsules containing 12.5 mg, 25 mg, or 50 mg sunitinib. Teva-Sunitinib is available in bottles of 28 or 100 capsules.

Teva-Sunitinib 12.5 mg Capsules: Hard gelatin capsule with maroon opaque cap and body, imprinted in black ink with 'TEVA' over '8199' on both cap and body.

Teva-Sunitinib 25 mg Capsules: Hard gelatin capsule with light brown opaque cap and maroon body, imprinted in black ink with 'TEVA' over '8224' on both cap and body.

Teva-Sunitinib 50 mg Capsules: Hard gelatin capsule with light brown opaque cap and body imprinted in black ink with 'TEVA' and '8231' on both cap and body.

WARNINGS AND PRECAUTIONS

Serious Warnings and Precautions

Patients receiving Teva-Sunitinib should be monitored by a doctor with experience in cancer medicines.

Serious side effects have been reported with sunitinib include:

- Rare cases of Tumour Bleeding.
- Decreases in the amount of blood pumped by your heart (Left Ventricular Dysfunction), including fatal cases.
- High blood pressure.
- QT prolongation (Teva-Sunitinib may cause an irregular heartbeat), including fatal cases.
- Heart muscle disorders (cardiomyopathy), including fatal cases
- Blood clots in the lung, including fatal cases
- Damage to the smallest blood vessels [Thrombotic microangiopathy (TMA)], including fatal cases
- Blood clots in the artery which could lead to stroke or heart attack, including fatal cases
- Muscle disorders (myopathy and/or rhabdomyolysis), including fatal cases.
- Kidney failure, including fatal cases.
- Serious liver problems, including death, have been reported.
- Reversible Posterior Leukoencephalopathy Syndrome, including fatal cases
- Buildup of fluid between layers of tissue in the lungs and the chest cavity (pleural effusion), including fatal cases

Sunitinib has not been studied in patients with severe liver problems.

Sunitinib has an effect on the electrical activity of the heart. This effect can be measured as a change in the electrocardiogram (ECG). This effect can lead to heart rhythm disturbances. These heart rhythm disturbances may be more likely in patients with risk factors, such as heart disease, or in the presence of certain interacting drugs. If you feel dizzy, weak, faint, or light-headed, and your pulse is irregular or unusually low or high, you should stop taking Teva-Sunitinib and seek immediate medical attention. It is important to follow the instructions of your doctor with regard to dosing or any special tests.

Cases of Tumour Lysis Syndrome [TLS] have been reported during the use of sunitinib. TLS is a metabolic condition that

Teva-Sunitinib Capsules Page 69 of 73

results from dying cancer cells and involves changes in blood chemistry that can lead to kidney failure and abnormal heart rhythm, which may be fatal. Tell your doctor immediately if you have palpitations/irregular heartbeats; vomiting; fatigue/weakness; difficulty concentrating/trouble thinking; swelling, numbness or tingling in hands, face or feet; back pain; muscle cramps; fainting or trouble breathing.

Cases of the following have been reported with the use of sunitinib:

- Life-threatening infection of the soft tissue including the anogenital area (necrotizing fasciitis)
- Painful skin ulcers (pyoderma gangrenosum)
- Cholecystitis (inflammation of the gall bladder), in some cases fatal
- Severe and sometimes life-threatening skin rashes (Stevens-Johnson syndrome, toxic epidermal necrolysis, erythema multiforme)
- Damage to the smallest blood vessels (TMA), including deaths.

Tell your doctor before taking Teva-Sunitinib, if any of the following apply to you now or even in the past:

- If you have thyroid problems
- If you have an adrenal gland problem
- If you have or have had muscle aches or weakness
- If you have bleeding problems
- If you have or had liver or kidney problems.
- If you have high blood pressure and its complications, including separation of the layers of the arterial wall (Artery Dissection).
- If you are pregnant or think you may be. Teva-Sunitinib is not to be used during pregnancy. Women who might get pregnant must use effective contraception during treatment with Teva-Sunitinib.
- If you are breast-feeding.
- If you have had recent surgery, injury or a severe infection. Teva-Sunitinib can affect the way your wound heals.
- If you have a heart condition.
- If you have had a stroke.
- If you have a history of fainting spells.
- have or have had pain in the mouth, teeth and/or jaw, swelling
 or sores inside the mouth, numbness or a feeling of heaviness
 in the jaw, or loosening of a tooth
- need to undergo an invasive dental treatment or dental surgery, in particular if you are also receiving or have received i.v. bisphosphonates (a bone builder that may have been given for another medical condition)
- If you have a family history of sudden cardiac death at age less than 50 years.
- If you are male and plan to father a child.

Use in children (under 18 years):

Experience with sunitinib in children is limited. Therefore, Teva-Sunitinib is not recommended for use in children.

Contraception

Teva-Sunitinib may cause harm to an unborn child. Female patients who might get pregnant must use effective contraception during treatment with Teva-Sunitinib. Since Teva-Sunitinib may present in the semen, male patients who are not surgically sterile must agree to use effective contraception during treatment with Teva-Sunitinib to prevent pregnancy in female partners.

If pregnancy is suspected during treatment with Teva-Sunitinib, inform your doctor immediately.

Driving and using machines:

If you experience (feel) dizziness, do not drive or use machinery.

INTERACTIONS WITH THIS MEDICATION

Taking other medicines:

Tell your doctor if you are taking other drugs, including nonprescription and natural health products, because they may speed up or slow down the breakdown of Teva-Sunitinib. This may lead to an increase in Teva-Sunitinib drug levels, which may lead to an increase in the side effects of Teva-Sunitinib. For example:

- Antifungals (such as ketoconazole, fluconazole)
- Calcium channel blockers (such as diltiazem, verapamil)
- Macrolide antibiotics (such as erythromycin, clarithromycin)
- Fluoroquinolone antibiotics (such as ciprofloxacin, norfloxacin)
- Some antivirals (such as ritonavir, indinavir)
- Herbal medicines (such as St. John's Wort)

Also, the following list includes some, but not all, of the drugs that may interact with Teva-Sunitinib to affect the electrical activity of your heart:

- Antiarrhythmics (drugs that stabilize the heart rhythm function, such as procainamide, quinidine, amiodarone, sotalol, etc.)
- Antidepressants (mood disorder drugs)
- Antipsychotics (drugs to stabilize thinking and behaviour)
- Anti-asthmatics (salmeterol)
- Opioids (e.g. methadone)
- Antinauseants (e.g. granisetron, dolasetron, ondansetron)

PROPER USE OF THIS MEDICATION

You should follow the doses and instructions given by your doctor.

Usual Teva-Sunitinib Adult Dose:

GIST and Kidney Cancer:

50 mg taken by mouth, once daily for 4 weeks, followed by 2 weeks off (no medicine). This is called 6-week cycle. Your doctor will determine how many cycles of treatment you will need.

Pancreatic NET:

37.5 mg taken by mouth, once every day.

Teva-Sunitinib can be taken with or without food. Do not drink grapefruit juice while taking Teva-Sunitinib. It may increase the

Teva-Sunitinib Capsules Page 70 of 73

amount of Teva-Sunitinib in the blood.

Overdose:

If you think you, or a person you are caring for, have taken too much Teva-Sunitinib, contact a healthcare professional, hospital emergency department or Poison Control Centre immediately, even if there are no symptoms.

Missed Dose:

Do not take a double dose to make up for a forgotten dose.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Like all medicines, Teva-Sunitinib can have side effects which are usually mild to moderate. Teva-Sunitinib can affect the way the adrenal gland works (in controlling the body's response to stress such as surgery, injury, or severe infection).

Very common side effects (these are likely to affect more than 10 in every 100 people)

- tiredness
- decreased white blood cell and platelet counts
- increased blood pressure
- mouth pain/irritation, mouth soreness, taste disturbances, upset stomach, nausea, vomiting, diarrhea, constipation, abdominal pain, dry mouth, bleeding.
- skin discoloration due to the color of sunitinib malate (yellow), hair color change, rash or blisters on the palms of the hands and soles of the feet, dry skin
- headache

Common side effects (these are likely to affect between 1 and 10 in every 100 people)

- dizziness, weakness
- loss of appetite
- infection
- heartburn
- buildup of fluid between layers of tissue in the lungs and the chest cavity

If any of the side effects get serious or if you notice any side effect not listed in this leaflet, please tell your doctor.

SERIOUS SIDE EFFECTS AND WHAT TO DO ABOUT THEM							
Symptom / effect	Talk to healtl profes	Stop taking drug and get					
	Only if severe	In all cases	immediate medical help				
Bleeding problems (blood in urine/stool, nosebleeds) and infections		V					

THEM							
Symptom / effect	Talk to health profes	ncare	Stop taking drug and get				
	Only if severe	In all cases	immediate medical help				
Pancreatitis (inflammation of the pancreas) with symptoms such as abdominal pain, fever, nausea, vomiting		V					
Decreased thyroid gland function (hypothyroidism) with symptoms such as fatigue, constipation, dry skin, weight gain		$\sqrt{}$					
Increased thyroid gland function (hyperthyroidism and some forms of thyroiditis) with symptoms such as weight loss, sweating and irritability		V					
Decreased amount of blood pumped out of the heart with symptoms such as shortness of breath, fatigue, swollen feet and ankles		V					
Decreased white blood cell and platelet counts with symptoms such as infection, fever and bleeding		V					
Symptoms of muscle aches or weakness, or dark urine		V					
Symptoms of blood clots in the legs (pain, swelling, redness) or lungs (chest pain, shortness of breath)		V					
Symptoms of a possible heart rhythm disturbance, such as dizziness, palpitations (sensation of rapid, pounding, or irregular heart beat), fainting, or seizures			V				
Signs or symptoms of bone damage (osteonecrosis) in the jaw may include pain in the mouth, teeth and/or jaw, swelling or sores inside the mouth, numbness or a feeling of heaviness in the jaw, or loosening of a tooth or exposure of the bone in the jaw.		٧					

SERIOUS SIDE EFFECTS AND WHAT TO DO ABOUT

Teva-Sunitinib Capsules Page 71 of 73

SERIOUS SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Symptom / effect	Talk to healtl profes	hcare	Stop taking drug and get	
	Only if severe	In all cases	immediate medical help	
Life-threatening infection of the soft tissue including the ano-genital area. Symptoms include infection around a skin injury, fever, pain, redness, swelling, or drainage of pus or blood.			√	
Liver problems which include symptoms such as itching, yellow eyes or skin, dark urine, and pain or discomfort in the right upper stomach area		V		
Painful skin ulcers		$\sqrt{}$		
(pyoderma gangrenosum) Severe skin rashes that may				
become life threatening. They may initially appear as reddish target-like spots or circular patches often with central blisters on the trunk. The rash may progress to widespread blistering or peeling of the skin, blisters in the mouth, and ulcers in the eyes. The skin changes happen quickly and may follow fever, tiredness, headache and cough. A neurological disorder			V	
A neurological disorder called reversible posterior leukoencephalopathy syndrome with symptoms such as headache, seizures, lethargy, confusion, blindness and other visual disturbances		√		
Cholecystitis (inflammation of the gall bladder) which includes symptoms such as abdominal pain and vomiting		V		
Low blood sugar (hypoglycaemia) with symptoms such as sweating, hunger, trembling, weakness and palpitation, that may lead to loss of consciousness and seizures in some cases			V	

SERIOUS SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Symptom / effect	Symptom / effect			Stop taking drug and get
		Only if severe	In all cases	immediate medical help
Damage to the smallest blovessels (TMA) that may occur inside organs such as kidney and brain. This may be caused by clotting in the small blood vessels and injury to red blood cells (TTP and HUS). Symptom include fever, tiredness, bruising, swelling, confusivision loss, and seizures	s y e		V	
Symptoms of heart attack, including chest tightness, shortness of breath and sweating			√	
Symptoms of buildup of fl between the layers of tissu- in the lungs and the chest cavity include shortness of breath and chest tightness	e		V	
Artery Dissection (sudden severe pain in the back, chor abdomen)			V	
Artery Aneurysm (a bulg in the wall of any artery including in the chest, arms, legs, heart and brain): symptoms will diff by the site. They can be cough, coughing up blood. Strong pain high in your neck or in your back when you didn't hurt yourself. Problems swallowing. Hoarse voice. Unusual pulsing in your chest or abdomen.	fer		V	

This is not a complete list of side effects. For any unexpected effects while taking Teva-Sunitinib, contact your doctor or pharmacist.

HOW TO STORE IT

Keep out of reach and sight of children.

- Store between 15-30 °C.
- Store in the original package.
- Do not use after the expiry date (EXP) shown on the outer pack and label.

Teva-Sunitinib Capsules Page 72 of 73

 Do not use any pack that is damaged or show signs of tampering.

Medicines should not be disposed of via wastewater or household waste. Ask your pharmacist how to dispose of medicines no longer required. These measures will help to protect the environment.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (https://www.canada.ca/en/healthcanada/services/drugs-health-products/medeffectcanada/adverse-reaction-reporting.html) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

MORE INFORMATION

If you want more information about Teva-Sunitinib:

- Talk to your healthcare professional
- Find the full Product Monograph that is prepared for healthcare professionals and includes this Consumer Information by visiting the Health Canada website (https://www.canada.ca/en/health-canada.html); or by contacting Teva Canada Limited at:

Phone: 1-800-268-4127 ext. 3; Email: druginfo@tevacanada.com; or

Fax: 1-416-335-4472

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Teva-Sunitinib Capsules Page 73 of 73