ANNEX I SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

SUTENT 12.5 mg hard capsules SUTENT 25 mg hard capsules SUTENT 37.5 mg hard capsules SUTENT 50 mg hard capsules

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

12.5 mg hard capsules

Each capsule contains sunitinib malate, equivalent to 12.5 mg of sunitinib.

25 mg hard capsules

Each capsule contains sunitinib malate, equivalent to 25 mg of sunitinib.

37.5 mg hard capsules

Each capsule contains sunitinib malate, equivalent to 37.5 mg of sunitinib.

50 mg hard capsules

Each capsule contains sunitinib malate, equivalent to 50 mg of sunitinib.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Hard capsule.

SUTENT 12.5 mg hard capsules

Gelatin capsules with orange cap and orange body, printed with white ink "Pfizer" on the cap, "STN 12.5 mg" on the body, and containing yellow to orange granules.

SUTENT 25 mg hard capsules

Gelatin capsules with caramel cap and orange body, printed with white ink "Pfizer" on the cap, "STN 25 mg" on the body, and containing yellow to orange granules.

SUTENT 37.5 mg hard capsules

Gelatin capsules with yellow cap and yellow body, printed with black ink "Pfizer" on the cap, "STN 37.5 mg" on the body, and containing yellow to orange granules.

SUTENT 50 mg hard capsules

Gelatin capsule with caramel cap and caramel body, printed with white ink "Pfizer" on the cap, "STN 50 mg" on the body, and containing yellow to orange granules.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Gastrointestinal stromal tumour (GIST)

SUTENT is indicated for the treatment of unresectable and/or metastatic malignant gastrointestinal stromal tumour (GIST) in adults after failure of imatinib treatment due to resistance or intolerance.

Metastatic renal cell carcinoma (MRCC)

SUTENT is indicated for the treatment of advanced/metastatic renal cell carcinoma (MRCC) in adults.

Pancreatic neuroendocrine tumours (pNET)

SUTENT is indicated for the treatment of unresectable or metastatic, well-differentiated pancreatic neuroendocrine tumours (pNET) with disease progression in adults.

Experience with SUTENT as first-line treatment is limited (see section 5.1).

4.2 Posology and method of administration

Therapy with SUTENT should be initiated by a physician experienced in the administration of anti-cancer agents.

Posology

For GIST and MRCC, the recommended dose of SUTENT is 50 mg taken orally once daily, for 4 consecutive weeks, followed by a 2-week rest period (schedule 4/2) to comprise a complete cycle of 6 weeks.

For pNET, the recommended dose of SUTENT is 37.5 mg taken orally once daily without a scheduled rest period.

Dose adjustments

Safety and tolerability

For GIST and MRCC, dose modifications in 12.5 mg steps may be applied based on individual safety and tolerability. Daily dose should not exceed 75 mg nor be decreased below 25 mg.

For pNET, dose modification in 12.5 mg steps may be applied based on individual safety and tolerability. The maximum dose administered in the Phase 3 pNET study was 50 mg daily.

Dose interruptions may be required based on individual safety and tolerability.

CYP3A4 inhibitors/inducers

Co-administration of sunitinib with potent CYP3A4 inducers, such as rifampicin, should be avoided (see sections 4.4 and 4.5). If this is not possible, the dose of sunitinib may need to be increased in 12.5 mg steps (up to 87.5 mg per day for GIST and MRCC or 62.5 mg per day for pNET) based on careful monitoring of tolerability.

Co-administration of sunitinib with potent CYP3A4 inhibitors, such as ketoconazole, should be avoided (see sections 4.4 and 4.5). If this is not possible, the dose of sunitinib may need to be reduced to a minimum of 37.5 mg daily for GIST and MRCC or 25 mg daily for pNET, based on careful monitoring of tolerability.

Selection of an alternative concomitant medicinal product with no or minimal potential to induce or inhibit CYP3A4 should be considered.

Special populations

Paediatric population

The safety and efficacy of SUTENT in patients below 18 years of age have not been established. Currently available limited data are described in sections 4.8, 5.1, and 5.2 but no recommendation on a posology can be made.

Elderly

Approximately one-third of the patients in clinical studies who received sunitinib were 65 years of age or over. No significant differences in safety or efficacy were observed between younger and older patients.

Hepatic impairment

No starting dose adjustment is recommended when administering sunitinib to patients with mild or moderate (Child-Pugh class A and B) hepatic impairment. Sunitinib has not been studied in subjects with severe (Child-Pugh class C) hepatic impairment and therefore its use in patients with severe hepatic impairment cannot be recommended (see section 5.2).

Renal impairment

No starting dose adjustment is required when administering sunitinib to patients with renal impairment (mild-severe) or with end-stage renal disease (ESRD) on haemodialysis. Subsequent dose adjustments should be based on individual safety and tolerability (see section 5.2).

Method of administration

SUTENT is for oral administration. It may be taken with or without food.

If a dose is missed, the patient should not be given an additional dose. The patient should take the usual prescribed dose on the following day.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Co-administration with potent CYP3A4 inducers should be avoided because it may decrease sunitinib plasma concentration (see sections 4.2 and 4.5).

Co-administration with potent CYP3A4 inhibitors should be avoided because it may increase the plasma concentration of sunitinib (see sections 4.2 and 4.5).

Skin and tissue disorders

Skin discolouration, possibly due to the active substance colour (yellow), is a very common adverse reaction occurring in approximately 30% of patients. Patients should be advised that depigmentation of the hair or skin may also occur during treatment with 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 reactions were not cumulative, were typically reversible and generally did not result in treatment discontinuation. Cases of pyoderma gangrenosum, generally reversible after discontinuation of sunitinib, have been reported. Severe cutaneous reactions have been reported, including cases of erythema multiforme (EM) and cases suggestive of Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), some of which were fatal. If signs or symptoms of SJS, TEN, or EM (e.g. progressive skin rash often with blisters or mucosal lesions) are present, sunitinib treatment should be discontinued. If the diagnosis of SJS or TEN is confirmed, treatment must not be re-started. In some cases of suspected EM, patients tolerated the reintroduction of sunitinib therapy at a lower dose after resolution of the reaction; some of these patients also received concomitant treatment with corticosteroids or antihistamines.

Haemorrhage and tumour bleeding

Haemorrhagic events, some of which were fatal, reported through post-marketing experience have included gastro-intestinal, respiratory, urinary tract and brain haemorrhages.

Bleeding events occurred in 18% of patients receiving sunitinib in a phase 3 GIST Study compared to 17% of patients receiving placebo. In patients receiving sunitinib for treatment-naïve MRCC, 39% had bleeding events compared to 11% of patients receiving IFN-α. Seventeen (4.5%) patients on sunitinib versus 5 (1.7%) of patients on IFN-α experienced Grade 3 or greater bleeding events. Of patients receiving sunitinib for cytokine-refractory MRCC, 26% experienced bleeding. Bleeding events, excluding epistaxis, occurred in 21.7% of patients receiving sunitinib in the phase 3 pNET study compared to 9.85% of patients receiving placebo. Routine assessment of this event should include complete blood counts and physical examination.

Epistaxis was the most common haemorrhagic adverse reaction, having been reported for approximately half of the patients with solid tumours who experienced haemorrhagic events. Some of the epistaxis events were severe, but very rarely fatal.

Events of tumour haemorrhage, sometimes associated with tumour necrosis, have been reported; some of these haemorrhagic events were fatal.

In clinical trials, tumour haemorrhage occurred in approximately 2% of patients with GIST. These events may occur suddenly, and in the case of pulmonary tumours, may present as severe and life-threatening haemoptysis or pulmonary haemorrhage. Cases of pulmonary haemorrhage, some with a fatal outcome, have been observed in clinical trials and have been reported in post-marketing experience in patients treated with sunitinib for MRCC, GIST and lung cancer. SUTENT is not approved for use in patients with lung cancer.

Patients receiving concomitant treatment with anticoagulants (e.g. warfarin, acenocoumarole) may be periodically monitored by complete blood counts (platelets), coagulation factors (PT/INR) and physical examination.

Gastrointestinal disorders

Diarrhoea, nausea/vomiting, abdominal pain, dyspepsia and stomatitis/oral pain were the most commonly reported gastrointestinal adverse reactions; oesophagitis events have been also reported (see section 4.8).

Supportive care for gastrointestinal adverse reactions requiring treatment may include medicinal products with anti-emetic, anti-diarrhoeal or antacid properties.

Serious, sometimes fatal gastrointestinal complications including gastrointestinal perforation have occurred in patients with intra-abdominal malignancies treated with sunitinib. Fatal gastrointestinal bleeding occurred in 0.98% of patients receiving placebo in the GIST phase 3 study.

Hypertension

Hypertension was a very common adverse reaction reported in clinical trials. The dose of sunitinib was reduced or its administration temporarily suspended in approximately 2.7% of the patients who experienced hypertension. In none of these patients sunitinib was permanently discontinued. Severe hypertension (>200 mmHg systolic or 110 mmHg diastolic) occurred in 4.7% of patients with solid tumours. Hypertension was reported in approximately 33.9% of patients receiving sunitinib for treatment-naïve MRCC compared to 3.6% of patients receiving IFN-α. Severe hypertension occurred in 12% of treatment-naïve patients on sunitinib and <1% of patients on IFN-α. Hypertension was reported in 26.5% of patients receiving sunitinib in a Phase 3 pNET study, compared to 4.9% of patients receiving placebo. Severe hypertension occurred in 10% of pNET patients on sunitinib and 3% of patients on placebo. Patients should be screened for hypertension and controlled as appropriate. Temporary suspension is recommended in patients with severe hypertension that is not controlled with medical management. Treatment may be resumed once hypertension is appropriately controlled.

Haematological disorders

Decreased absolute neutrophil counts of Grade 3 and 4 severity respectively were reported in 10% and 1.7% of patients on the phase 3 GIST study, in 16% and 1.6% of patients on the phase 3 MRCC study, and in 13% and 2.4% of patients on the phase 3 pNET study. Decreased platelet counts of Grade 3 and

4 severity respectively were reported in 3.7% and 0.4% of patients on the phase 3 GIST study, in 8.2% and 1.1% of patients on the phase 3 MRCC study, and in 3.7% and 1.2% of patients on the phase 3 pNET study. The above events were not cumulative, were typically reversible and generally did not result in treatment discontinuation. None of these events in the phase 3 studies were fatal, but rare fatal haematological events, including haemorrhage associated with thrombocytopenia and neutropenic infections, have been reported through post-marketing experience.

Anaemia has been observed to occur early as well as late during treatment with sunitinib; Grade 3 and 4 cases have been reported.

Complete blood counts should be performed at the beginning of each treatment cycle for patients receiving treatment with sunitinib.

Cardiac disorders

Cardiovascular events, including heart failure, cardiomyopathy, and myocardial ischemia and myocardial infarction, some of which were fatal, have been reported in patients treated with sunitinib. These data suggest that sunitinib increases the risk of cardiomyopathy. No specific additional risk factors for sunitinib-induced cardiomyopathy apart from the drug-specific effect have been identified in the treated patients. Use sunitinib with caution in patients who are at risk for, or who have a history of, these events.

In clinical trials, decreases in left ventricular ejection fraction (LVEF) of \geq 20% and below the lower limit of normal occurred in approximately 2% of sunitinib-treated GIST patients, 4% of cytokine-refractory MRCC patients, and 2% of placebo-treated GIST patients. These LVEF declines do not appear to have been progressive and often improved as treatment continued. In the treatment-naïve MRCC study, 27% patients on sunitinib and 15% of patients on IFN- α had an LVEF value below the lower limit of normal. Two patients (<1%) who received sunitinib were diagnosed with congestive heart failure (CHF).

In GIST patients 'cardiac failure', 'cardiac failure congestive' or 'left ventricular failure' were reported in 1.2% of patients treated with sunitinib and 1% of patients treated with placebo. In the pivotal phase 3 GIST study (n = 312), treatment-related fatal cardiac reactions occurred in 1% of patients on each arm of the study (i.e. sunitinib and placebo arms). In a phase 2 study in cytokine-refractory MRCC patients, 0.9% of patients experienced treatment-related fatal myocardial infarction and in the phase 3 study in treatment-naïve MRCC patients, 0.6% of patients on the IFN- α arm and 0% patients on the sunitinib arm experienced fatal cardiac events. In the phase 3 pNET study, one (1%) patient who received sunitinib had treatment-related fatal cardiac failure. The relationship, if any, between receptor tyrosine kinase (RTK) inhibition and cardiac function remains unclear.

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

Close monitoring for clinical signs and symptoms of CHF should be performed, especially in patients with cardiac risk factors and/or history of coronary artery disease.

Physicians are advised to weigh this risk against the potential benefits of sunitinib. These patients should be carefully monitored for clinical signs and symptoms of CHF while receiving sunitinib. Baseline and periodic evaluations of LVEF should also be considered while the patient is receiving 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 sunitinib is recommended. The administration of sunitinib should be interrupted and/or the dose reduced in patients without clinical evidence of CHF but with an ejection fraction <50% and >20% below baseline.

QT interval prolongation

Data from non-clinical (*in vitro* and *in vivo*) studies, at doses higher than the recommended human dose, indicated that sunitinib has the potential to inhibit the cardiac action potential repolarisation process (e.g. prolongation of QT interval).

Increases in the QTc interval to over 500 msec occurred in 0.5%, and changes from baseline in excess of 60 msec occurred in 1.1% of the 450 solid tumour patients; both of these parameters are recognized as potentially significant changes. At approximately twice therapeutic concentrations, sunitinib has been shown to prolong the QTcF Interval (Frederica's Correction).

QTc interval prolongation was investigated in a trial in 24 patients, ages 20 - 87 years, with advanced malignancies. The results of this study demonstrated that sunitinib had an effect on QTc interval (defined as a mean placebo-adjusted change of >10 msec with a 90% CI upper limit >15 msec) at therapeutic concentration (Day 3) using the within-day baseline correction method, and at greater than therapeutic concentration (Day 9) using both baseline correction methods. No patients had a QTc interval >500 msec. Although an effect on QTcF interval was observed on Day 3 at 24 hours post-dose (i.e. at therapeutic plasma concentration expected after the recommended starting dose of 50 mg) with the within-day baseline correction method, the clinical significance of this finding is unclear.

Using comprehensive serial ECG assessments at times corresponding to either therapeutic or greater than therapeutic exposures, none of the patients in the evaluable or ITT populations were observed to develop QTc interval prolongation considered as "severe" (i.e. equal to or greater than Grade 3 by CTCAE version 3.0).

At therapeutic plasma concentrations, the maximum QTcF interval (Frederica's correction) mean change from baseline was 9.6 msec (90% CI: 15.1msec). At approximately twice therapeutic concentrations, the maximum QTcF interval change from baseline was 15.4 msec (90% CI: 22.4 msec). Moxifloxacin (400 mg) used as a positive control showed a 5.6 msec maximum mean QTcF interval change from baseline. No subjects experienced an effect on the QTc interval greater than Grade 2 (CTCAE version 3.0).

QT interval prolongation may lead to an increased risk of ventricular arrhythmias including Torsade de pointes. Torsade de pointes has been observed in <0.1% of sunitinib-exposed patients. Sunitinib should be used with caution in patients with a known history of QT interval prolongation, patients who are taking antiarrhythmics, or medicinal products that can prolong QT interval, or patients with relevant pre-existing cardiac disease, bradycardia, or electrolyte disturbances. Concomitant administration of sunitinib with potent CYP3A4 inhibitors should be limited because of the possible increase in sunitinib plasma concentrations (see sections 4.2 and 4.5).

Venous thromboembolic events

Treatment-related venous thromboembolic events were reported in approximately 1.0% of patients with solid tumours who received sunitinib on clinical trials, including GIST and MRCC.

Seven patients (3%) on sunitinib and none on placebo in a phase 3 GIST study experienced venous thromboembolic events; five of the seven were Grade 3 deep venous thrombosis (DVT) and two were Grade 1 or 2. Four of these seven GIST patients discontinued treatment following first observation of DVT.

Thirteen patients (3%) receiving sunitinib in the phase 3 treatment-naïve MRCC study and four patients (2%) on the two cytokine-refractory MRCC studies had venous thromboembolic events reported. Nine of these patients had pulmonary embolisms, one was Grade 2 and eight were Grade 4. Eight of these patients had DVT, one with Grade 1, two with Grade 2, four with Grade 3 and one with Grade 4. One patient with pulmonary embolism in the cytokine-refractory MRCC study experienced dose interruption.

In treatment-naïve MRCC patients receiving IFN- α , six (2%) venous thromboembolic events occurred; one patient (<1%) experienced a Grade 3 DVT and five patients (1%) had pulmonary embolisms, all with Grade 4.

Venous thromboembolic events were reported for 1 (1.2%) subject in the sunitinib arm and 5 (6.1%) subjects in the placebo arm in the phase 3 pNET study. Two of these subjects on placebo had DVT, one with Grade 2 and one with Grade 3.

No cases with fatal outcome were reported in GIST, MRCC and pNET registrational studies. Cases with fatal outcome have been observed in post-marketing setting (see respiratory events and section 4.8).

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 ischaemic 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.

Thrombotic Microangiopathy (TMA)

TMA, including thrombotic thrombocytopaenic purpura (TTP) and haemolytic uremic 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. The diagnosis of TMA should be considered in the occurrence of haemolytic anaemia, thrombocytopaenia, fatigue, fluctuating neurologic manifestation, renal impairment and fever. Sunitinib therapy should be discontinued in patients who develop TMA and prompt treatment is required. Reversal of the effects of TMA has been observed after treatment discontinuation (see section 4.8).

Respiratory events

Patients who presented with pulmonary embolism within the previous 12 months were excluded from sunitinib clinical studies.

In patients who received sunitinib in phase 3 registrational studies, pulmonary events (i.e. dyspnoea, pleural effusion, pulmonary embolism or pulmonary oedema) were reported in approximately 17.8% of patients with GIST, in approximately 26.7% of patients with MRCC and in 12% of patients with pNET.

Approximately 22.2% of patients with solid tumours, including GIST and MRCC, who received sunitinib in clinical trials experienced pulmonary events.

Cases of pulmonary embolism were observed in approximately 3.1% of patients with GIST and in approximately 1.2% of patients with MRCC, who received sunitinib in phase 3 studies (see section 4.4 - Venous thromboembolic events). No pulmonary embolism was reported for patients with pNET who received sunitinib in the phase 3 study. Rare cases with fatal outcome have been observed in post-marketing setting (see section 4.8).

Thyroid dysfunction

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 sunitinib treatment. During 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.

Hypothyroidism has been observed to occur early as well as late during treatment with sunitinib.

Hypothyroidism was reported as an adverse reaction in 7 patients (4%) receiving sunitinib across the two cytokine-refractory MRCC studies; in 61 patients (16%) on sunitinib and three patients (<1%) in the IFN- α arm in the treatment-naïve MRCC study.

Additionally, TSH elevations were reported in 4 cytokine-refractory MRCC patients (2%). Overall, 7% of the MRCC population had either clinical or laboratory evidence of treatment-emergent hypothyroidism. Acquired hypothyroidism was noted in 6.2% of GIST patients on sunitinib *versus* 1% on placebo. In the phase 3 pNET study hypothyroidism was reported in 6 patients (7.2%) receiving sunitinib and in one patient (1.2%) on placebo.

Thyroid function was monitored prospectively in two studies in patients with breast cancer; SUTENT is not approved for use in breast cancer. In one study, hypothyroidism was reported in 15 (13.6%) subjects on sunitinib and 3 (2.9%) subjects on standard of care. Blood TSH increase was reported in 1 (0.9%) subject on sunitinib and no subjects on standard of care. Hyperthyroidism was reported in no sunitinib-treated subjects and 1 (1.0%) subject receiving standard of care. In the other study hypothyroidism was reported in a total of 31 (13%) sunitinib subjects and 2 (0.8%) capecitabine subjects. Blood TSH increase was reported in 12 (5.0%) sunitinib subjects and no capecitabine subjects. Hyperthyroidism was reported in 4 (1.7%) sunitinib subjects and no capecitabine subjects. Blood TSH decrease was reported in 3 (1.3%) sunitinib subjects and no capecitabine subjects. T4 increase was reported in 2 (0.8%) sunitinib subjects and 1 (0.4%) capecitabine subject. T3 increase was reported in 1 (0.8%) sunitinib subject and no capecitabine subjects. All thyroid-related events reported were Grade 1-2.

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

Pancreatitis

Increases in serum lipase and amylase activities were observed in patients with various solid tumours who received sunitinib. Increases in lipase activities were transient and were generally not accompanied by signs or symptoms of pancreatitis in subjects with various solid tumours.

Pancreatitis has been observed uncommonly (<1%) in patients receiving sunitinib for GIST or MRCC.

Cases of serious pancreatic events, some with fatal outcome, have been reported.

If symptoms of pancreatitis are present, patients should have sunitinib discontinued and be provided with appropriate supportive care.

No treatment-related pancreatitis was reported in the phase 3 pNET study.

Hepatotoxicity

Hepatotoxicity has been observed in patients treated with sunitinib. Cases of hepatic failure, some with a fatal outcome, were observed in <1% of solid tumor patients treated with sunitinib. Monitor liver function tests (alanine transaminase [ALT], aspartate transaminase [AST], bilirubin levels) before initiation of treatment, during each cycle of treatment, and as clinically indicated. If signs or symptoms of hepatic failure are present, sunitinib should be discontinued and appropriate supportive care should be provided.

Hepatobiliary disorders

Sunitinib treatment may be associated with cholecystitis, including acalculous cholecystitis and emphysematous cholecystitis. In clinical registrational studies the incidence of cholecystitis was 0.5%. Post-marketing cases of cholecystitis have been reported.

Renal function

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

Risk factors associated with renal impairment/failure in patients receiving sunitinib included, in addition to underlying renal cell carcinoma, older age, diabetes mellitus, underlying renal impairment, cardiac failure, hypertension, sepsis, dehydration/hypovolemia, and rhabdomyolysis.

The safety of continued sunitinib treatment in patients with moderate to severe proteinuria has not been systematically evaluated.

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. Discontinue sunitinib in patients with nephrotic syndrome.

Fistula

If fistula formation occurs, sunitinib treatment should be interrupted. Limited information is available on the continued use of sunitinib in patients with fistulae.

Impaired wound healing

Cases of impaired wound healing have been reported during sunitinib therapy.

No formal clinical studies of the effect of sunitinib on wound healing have been conducted. Temporary interruption of sunitinib therapy is recommended for precautionary reasons in patients undergoing major surgical procedures. There is limited clinical experience regarding the timing of reinitiation of therapy following major surgical intervention. Therefore, the decision to resume sunitinib therapy following a major surgical intervention should be based upon clinical judgment of recovery from surgery.

Osteonecrosis of the jaw (ONJ)

Cases of ONJ have been reported in patients treated with SUTENT. The majority of cases occurred in patients who had received prior or concomitant treatment with intravenous bisphosphonates, for which ONJ is an identified risk. Caution should therefore be exercised when SUTENT and intravenous bisphosphonates are used either simultaneously or sequentially.

Invasive dental procedures are also an identified risk factor. Prior to treatment with SUTENT, a dental examination and appropriate preventive dentistry should be considered. In patients who have previously received or are receiving intravenous bisphosphonates, invasive dental procedures should be avoided if possible (see section 4.8).

Hypersensitivity/angioedema

If angioedema due to hypersensitivity occurs, sunitinib treatment should be interrupted and standard medical care provided.

Nervous system disorders

Dysgeusia was reported in approximately 28% of patients receiving sunitinib in clinical trials.

Seizures

In clinical studies of sunitinib and from post-marketing experience, seizures have been observed in subjects with or without radiological evidence of brain metastases. In addition, there have been few reports (<1%), 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. Temporary suspension of sunitinib is recommended; following resolution, treatment may be resumed at the discretion of the treating physician.

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. Risk factors for TLS include high tumour

burden, preexisting chronic renal insufficiency, oliguria, dehydration, hypotension, and acidic urine. These patients should be monitored closely and treated as clinically indicated, and prophylactic hydration should be considered.

Infections

Serious infections, with or without neutropenia, including some with a fatal outcome, have been reported. The infections observed most commonly with sunitinib treatment are infections typically seen in cancer patients, e.g. respiratory, urinary tract, skin infections and sepsis.

Rare cases of necrotising fasciitis, including of the perineum, sometimes fatal, have been reported. Sunitinib therapy should be discontinued in patients who develop necrotising fasciitis, and appropriate treatment should be promptly initiated.

Hypoglycaemia

Decreases in blood glucose, in some cases clinically symptomatic and requiring hospitalization due to loss of consciousness, have been reported during sunitinib treatment. In case of symptomatic hypoglycemia, sunitinib should be temporarily interrupted. Blood glucose levels in diabetic patients should be checked regularly in order to assess if anti-diabetic medicinal product's dosage needs to be adjusted to minimize the risk of hypoglycaemia.

4.5 Interaction with other medicinal products and other forms of interaction

Interaction studies have only been performed in adults.

Medicinal products that may increase sunitinib plasma concentrations

In healthy volunteers, concomitant administration of a single dose of sunitinib with the potent CYP3A4 inhibitor ketoconazole resulted in an increase of the combined [sunitinib + primary metabolite] C_{max} and $AUC_{0-\infty}$ values of 49% and 51%, respectively.

Administration of sunitinib with potent CYP3A4 inhibitors (e.g. ritonavir, itraconazole, erythromycin, clarithromycin, grapefruit juice) may increase sunitinib concentrations.

Combination with CYP3A4 inhibitors should therefore be avoided, or the selection of an alternate concomitant medicinal product with no or minimal potential to inhibit CYP3A4 should be considered.

If this is not possible, the dose of SUTENT may need to be reduced to a minimum of 37.5 mg daily for GIST and MRCC or 25 mg daily for pNET, based on careful monitoring of tolerability (see section 4.2).

Medicinal products that may decrease sunitinib plasma concentrations

In healthy volunteers, concomitant administration of a single dose of sunitinib with the CYP3A4 inducer rifampicin resulted in a reduction of the combined [sunitinib + primary metabolite] C_{max} and $AUC_{0-\infty}$ values of 23% and 46%, respectively.

Administration of sunitinib with potent CYP3A4 inducers (e.g. dexamethasone, phenytoin, carbamazepine, rifampicin, phenobarbital or herbal preparations containing St. John's Wort/Hypericum perforatum) may decrease sunitinib concentrations. Combination with CYP3A4 inducers should therefore be avoided, or selection of an alternate concomitant medicinal product, with no or minimal potential to induce CYP3A4 should be considered. If this is not possible, the dose of SUTENT may need to be increased in 12.5 mg increments (up to 87.5 mg per day for GIST and MRCC or 62.5 mg per day for pNET), based on careful monitoring of tolerability (see section 4.2).

4.6 Fertility, pregnancy and lactation

Contraception in males and females

Women of childbearing potential should be advised to use effective contraception and avoid becoming pregnant while receiving treatment with SUTENT.

Pregnancy

There are no studies in pregnant women using sunitinib. Studies in animals have shown reproductive toxicity including foetal malformations (see section 5.3). SUTENT should not be used during pregnancy or in women not using effective contraception, unless the potential benefit justifies the potential risk to the foetus. If SUTENT is used during pregnancy or if the patient becomes pregnant while on treatment with SUTENT, the patient should be apprised of the potential hazard to the foetus.

Breast-feeding

Sunitinib and/or its metabolites are excreted in rat milk. It is not known whether sunitinib or its primary active metabolite is excreted in human milk. Because active substances are commonly excreted in human milk and because of the potential for serious adverse reactions in breast-feeding infants, women should not breast-feed while taking SUTENT.

Fertility

Based on nonclinical findings, male and female fertility may be compromised by treatment with sunitinib (see section 5.3).

4.7 Effects on ability to drive and use machines

SUTENT has minor influence on the ability to drive and use machines. Patients should be advised that they may experience dizziness during treatment with sunitinib.

4.8 Undesirable effects

Summary of the safety profile

The most serious adverse reactions associated with sunitinib, some fatal, are renal failure, heart failure, pulmonary embolism, gastrointestinal perforation, and haemorrhages (e.g. respiratory tract, gastrointestinal, tumour, urinary tract, and brain haemorrhages). The most common adverse reactions of any grade (experienced by patients in RCC, GIST, and pNET registrational trials) included decreased appetite, taste disturbance, hypertension, fatigue, gastrointestinal disorders (i.e. diarrhoea, nausea, stomatitis, dyspepsia and vomiting), skin discolouration, and palmar-plantar erythrodysaesthesia syndrome. These symptoms may diminish as treatment continues. Hypothyroidism may develop during treatment. Haematological disorders (e.g. neutropoenia, thrombocyopoenia, and anaemia) are amongst the most common adverse drug reactions.

Fatal events other than those listed in section 4.4 above or in section 4.8 below that were considered possibly related to sunitinib included multi-system organ failure, disseminated intravascular coagulation, peritoneal haemorrhage, adrenal insufficiency, pneumothorax, shock, and sudden death.

Tabulated list of adverse reactions

Adverse reactions that were reported in GIST, MRCC, and pNET patients in a pooled dataset of 7,115 patients are listed below, by system organ class, frequency and grade of severity (NCI-CTCAE). Post-marketing adverse reactions identified in clinical studies are also included. Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Frequencies are defined as: very common ($\geq 1/10$), common ($\geq 1/100$ to <1/10), uncommon ($\geq 1/1,000$ to <1/100), rare ($\geq 1/10,000$ to 1/1,000), very rare (<1/10,000), not known (cannot be estimated from the available data).

Table 1 - Adverse reactions reported in clinical trials

System organ class	Very common	Common	Uncommon	Rare
Infections and infestations		Viral infections ^a Respiratory infections ^{b,*} Abscess ^{c,*} Fungal infections ^d Urinary tract infection Skin infections ^e Sepsis ^{f,*}	Necrotising fasciitis* Bacterial infections ^g	
Blood and lymphatic system disorders	Neutropoenia Thrombocytopoenia Anaemia Leukopoenia	Lymphopoenia	Pancytopenia	Thrombotic microangiopathy ^{h,*}
Immune system disorders			Hypersensitivity	Angioedema
Endocrine disorders	Hypothyroidism		Hyperthyroidism	Thyroiditis
Metabolism and nutrition disorders	Decreased appetite ⁱ	Dehydration Hypoglycaemia		Tumour lysis syndrome*
Psychiatric disorders	Insomnia	Depression		
Nervous system disorders	Dizziness Headache Taste disturbance ^j	Neuropathy peripheral Paraesthesia Hypoaesthesia Hyperaesthesia	Cerebral haemorrhage* Cerebrovascular accident* Transient ischaemic attack	Posterior reversible encephalopathy syndrome*
Eye disorders		Periorbital oedema Eyelid oedema Lacrimation increased		
Cardiac disorders		Myocardial ischemia ^{k,*} Ejection fraction decreased ^l	Cardiac failure congestive Myocardial infarction ^{m,*} Cardiac failure* Cardiomyopathy* Pericardial effusion Electrocardiogram QT prolonged	Left ventricular failure* Torsade de pointes
Vascular disorders	Hypertension	Deep vein thrombosis Hot flush Flushing	Tumour haemorrhage*	
Respiratory, thoracic and mediastinal disorders	Dyspnoea Epistaxis Cough	Pulmonary embolism* Pleural effusion* Haemoptysis Dyspnoea exertional Oropharyngeal pain* Nasal congestion Nasal dryness	Pulmonary haemorrhage* Respiratory failure*	

System organ class	Very common	Common	Uncommon	Rare
Gastrointestinal disorders	Stomatitis ^o Abdominal pain ^p Vomiting Diarrhoea Dyspepsia Nausea Constipation	Gastro-oesophageal reflux disease Dysphagia Gastrointestinal haemorrhage* Oesophagitis* Abdominal distension Abdominal discomfort Rectal haemorrhage Gingival bleeding Mouth ulceration Proctalgia Cheilitis Haemorrhoids Glossodynia Oral pain Dry mouth Flatulence Oral discomfort Eructation	Gastrointestinal perforation ^{q,*} Pancreatitis Anal fistula	
Hepatobiliary disorders			Hepatic failure* Cholecystitis ^{r,*} Hepatic function abnormal	Hepatitis
Skin and subcutaneous tissue disorders	Skin discolouration ^s Palmar-plantar erythrodysaesthesia syndrome Rash ^t Hair colour changes Dry skin	Skin exfoliation Skin reaction ^u Eczema Blister Erythema Alopecia Acne Pruritus Skin hyperpigmentation Skin lesion Hyperkeratosis Dermatitis Nail disorder ^v		Erythema multiforme* Stevens-Johnson syndrome* Pyoderma gangrenosum Toxic epidermal necrolysis*
Musculoskeletal and connective tissue disorders	Pain in extremity Arthralgia Back pain	Musculoskeletal pain Muscle spasms Myalgia Muscular weakness	Osteonecrosis of the jaw Fistula*	Rhabdomyolysis* Myopathy
Renal and urinary disorders		Renal failure* Renal failure acute* Chromaturia Proteinuria	Haemorrhage urinary tract	Nephrotic syndrome
General disorders and administration site conditions	Mucosal inflammation Fatigue ^w Oedema ^x Pyrexia	Chest pain Pain Influenza like illness Chills	Impaired healing	

System organ class	Very common	Common	Uncommon	Rare
Investigations		Weight decreased White blood cell count decreased Lipase increased Platelet count decreased Haemoglobin decreased Amylase increased Aspartate aminotransferase increased Alanine aminotransferase increased Blood creatinine increased	Blood creatine phosphokinase increased Blood thyroid stimulating hormone increased	
		Blood pressure increased Blood uric acid increased		

The following terms have been combined:

- ^a Nasopharyngitis and oral herpes
- b Bronchitis, lower respiratory tract infection, pneumonia and respiratory tract infection
- Abscess, abscess limb, anal abscess, gingival abscess, liver abscess, pancreatic abscess, perineal abscess, perirectal abscess, rectal abscess, subcutaneous abscess and tooth abscess
- d Oesophageal candidiasis and oral candidiasis
- e Cellulitis and skin infection
- f Sepsis and sepsis shock
- Abdominal abscess, abdominal sepsis, diverticulitis and osteomyelitis
- h Thrombotic microangiopathy, thrombotic thrombocytopaenic purpura, haemolytic uremic syndrome
- Decreased appetite and anorexia
- Dysgeusia, ageusia and taste disturbance
- Acute coronary syndrome, angina pectoris, angina unstable, coronary artery occlusion, myocardial ischaemia
- ¹ Ejection fraction decreased/abnormal
- ^m Acute myocardial infarction, myocardial infarction, silent myocardial infarction
- Oropharyngeal and pharyngolaryngeal pain
- Stomatitis and aphtous stomatitis
- P Abdominal pain, abdominal pain lower and abdominal pain upper
- ^q Gastrointestinal perforation and intestinal perforation
- ^r Cholecystitis and acalculous cholecystitis
- Yellow skin, skin discolouration and pigmentation disorder
- Dermatitis psoriasiform, exfoliative rash, rash, rash erythematous, rash follicular, rash generalised, rash macular, rash maculo-papular, rash papular and rash pruritic
- ^u Skin reaction and skin disorder
- Nail disorder and discolouration
- w Fatigue and asthenia
- x Face oedema, oedema and oedema peripheral
- y Amylase and amylase increased
- * Including fatal events

Description of selected adverse reactions

Infection and infestations

Cases of serious infection (with or without neutropoenia), including cases with fatal outcome, have been reported. Cases of necrotising fasciitis, including of the perineum, sometimes fatal, have been reported (see also section 4.4).

Blood and lymphatic system disorders

Cases of thrombotic microangiopathy, in some cases with fatal outcome, have been reported (see also section 4.4).

Immune system disorders

Hypersensitivity reactions, including angioedema, have been reported.

Nervous system disorders

There have been few reports, some fatal, of subjects presenting with seizures and radiological evidence of RPLS (see also section 4.4).

Metabolism and nutrition disorders

A higher incidence rate of hypoglycemia events was reported in patients with pNET in comparison to MRCC and GIST. Nevertheless most of these AEs observed in clinical studies were not considered related to study treatment.

Hepatobiliary disorders

Hepatic dysfunction has been reported and may include Liver Function Test abnormalities, hepatitis or liver failure.

Skin and subcutaneous tissue disorders

Cases of pyoderma gangrenosum, generally reversible after discontinuation of sunitinib, have been reported (see also section 4.4).

Musculoskeletal and connective tissue disorders

Cases of myopathy and/or rhabdomyolysis, some with acute renal failure, have been reported. Patients with signs or symptoms of muscle toxicity should be managed as per standard medical practice.

Cases of fistula formation, sometimes associated with tumour necrosis and regression, in some cases with fatal outcomes, have been reported.

Cases of ONJ have been reported in patients treated with SUTENT, most of which occurred in patients who had identified risk factors for ONJ, in particular exposure to intravenous bisphosphonates and/or a history of dental disease requiring invasive dental procedures (see also section 4.4).

Paediatric population

A phase I dose-escalation study of oral sunitinib was conducted in 35 paediatric and young adult patients (aged 2-21) with refractory solid tumours, the majority of whom had a primary diagnosis of brain tumour. All study participants experienced adverse drug reactions and in those patients with previous exposure to anthracyclines or cardiac radiation most of these were severe (toxicity grade ≥3) and included cardiac toxicity. The risk of cardiac adverse drug reactions appears higher in paediatric patients with previous exposure to cardiac radiation and anthracycline, compared to those paediatric patients without previous exposure. No maximum tolerated dose of sunitinib has been identified for this patient population due to dose limiting toxicities (see section 5.1). In paediatric patients without previous exposure to anthracyclines or cardiac radiation, the most common adverse reactions were GI toxicity, neutropenia, fatigue and ALT elevation.

Based on a population pharmacokinetics (PK) and pharmacokinetic pharmacodynamic (PK/PD) analysis, sunitinib at doses of 25 mg/m²/day on schedule 4/2 in paediatric patients (ages 6-11 and 12-17 years) with GIST is predicted to provide comparable sunitinib plasma exposures, and subsequently safety and efficacy profiles, to those in adult patients with GIST treated at 50 mg/day on schedule 4/2.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

There is no specific antidote for overdose with SUTENT and treatment of overdose should consist of general supportive measures. If indicated, elimination of unabsorbed active substance may be achieved

by emesis or gastric lavage. Cases of overdose have been reported; some cases were associated with adverse reactions consistent with the known safety profile of sunitinib.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antineoplastic agents, protein kinase inhibitors; ATC code: L01XE04

Mechanism of action

Sunitinib inhibits multiple receptor tyrosine kinases (RTKs) that are implicated in tumour growth, neoangiogenesis, and metastatic progression of cancer. Sunitinib was identified as an inhibitor of platelet-derived growth factor receptors (PDGFR α and PDGFR β), 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). The primary metabolite exhibits similar potency compared to sunitinib in biochemical and cellular assays.

Clinical efficacy and safety

The clinical safety and efficacy of sunitinib has been studied in the treatment of patients with GIST who were resistant to imatinib (i.e. those who experienced disease progression during or following treatment with imatinib) or intolerant to imatinib (i.e. those who experienced significant toxicity during treatment with imatinib that precluded further treatment), the treatment of patients with MRCC and the treatment of patients with unresectable pNET.

Efficacy is based on time to tumour progression (TTP) and an increase in survival in GIST, on progression free survival and objective response rates for treatment-naïve and cytokine-refractory MRCC respectively, and on progression free survival for pNET.

Gastrointestinal stromal tumours

An initial open-label, dose-escalation study was conducted in patients with GIST after failure of imatinib (median maximum daily dose 800 mg) due to resistance or intolerance. Ninety-seven patients were enrolled at various doses and schedules; 55 patients received 50 mg at the recommended treatment schedule 4 weeks on /2 weeks off ("schedule 4/2").

In this study, the median TTP was 34.0 weeks (95% CI = 22.0 - 46.0 weeks).

A phase 3, randomized, double-blind, placebo-controlled study of sunitinib was conducted in patients with GIST who were intolerant to, or had experienced disease progression during or following treatment with, imatinib (median maximum daily dose 800 mg). In this study, 312 patients were randomized (2:1) to receive either 50 mg sunitinib or placebo, orally once daily on Schedule 4/2 until disease progression or withdrawal from the study for another reason (207 patients received sunitinib and 105 patients received placebo). The primary efficacy endpoint of the study was TTP, defined as the time from randomization to first documentation of objective tumour progression. At the time of the pre-specified interim analysis, the median TTP on sunitinib was 28.9 weeks (95% CI = 21.3 - 34.1 weeks) as assessed by the Investigator and 27.3 weeks (95% CI = 16.0 - 32.1 weeks) as assessed by the Independent Review and was statistically significantly longer than the TTP on placebo of 5.1 weeks (95% CI = 4.4 - 10.1 weeks) as assessed by the Investigator and 6.4 weeks (95% CI = 4.4 - 10.0 weeks) as assessed by the Independent Review. The difference in overall survival (OS) was statistically in favour of sunitinib [hazard ratio: 0.491 (95%CI: 0.290 - 0.831)]; the risk of death was 2 times higher in patients in the placebo arm compared to the sunitinib arm.

After the interim analysis of efficacy and safety, at recommendation of the Independent DSMB, 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.

The analyses of primary and secondary endpoints in the open-label phase of the study reaffirmed the results obtained at the time of the interim analysis, as shown in the table below:

Table 2 - Summary of efficacy endpoints (ITT population)

Double-blind treatment ^a					
	Median	edian (95% CI) Hazard ratio		io	Placebo cross-over group
Endpoint	SUTENT	Placebo	(95% CI)	p	treatment ^b
Primary: TTP					
(weeks)					
Interim	27.3 (16.0 to 32.1)	6.4 (4.4 to 10.0)	0.329 (0.233 to 0.466)	< 0.001	-
Final	26.6 (16.0 to	6.4 (4.4 to 10.0)	0.339 (0.244 to	< 0.001	10.4 (4.3 to
	32.1)		0.472)		22.0)
Secondary					
PFS (weeks) ^c					
Interim	24.1 (11.1 to 28.3)	6.0 (4.4 to 9.9)	0.333 (0.238 to 0.467)	< 0.001	-
Final	22.9 (10.9 to 28.0)	6.0 (4.4 to 9.7)	0.347 (0.253 to 0.475)	< 0.001	-
ORR (%) ^d	20.0)		01.70)		
Interim	6.8 (3.7 to 11.1)	0 (-)	NA	0.006	-
Final	6.6 (3.8 to 10.5)	0 (-)	NA	0.004	10.1 (5.0 to 17.8)
OS (weeks) ^e					,
Interim	-	-	0.491 (0.290 to	0.007	-
			0.831)		
Final	72.7 (61.3 to	64.9 (45.7 to	0.876 (0.679 to	0.306	-
	83.0)	96.0)	1.129)		

^a Results of double-blind treatment are from the ITT population and using central radiologist measurement, as appropriate.

Median OS in the ITT population was 72.7 weeks and 64.9 weeks (HR 0.876, 95% CI: 0.679 - 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.

Treatment-naïve metastatic renal cell carcinoma

A phase 3, randomized, multi-centre international study evaluating the efficacy and safety of sunitinib compared with IFN- α in treatment-naïve MRCC patients was conducted. Seven hundred and fifty patients were randomized 1:1 to the treatment arms; they received treatment with either sunitinib in repeated 6-week cycles, consisting of 4 weeks of 50 mg daily oral administration followed by 2 weeks of rest (schedule 4/2), or IFN- α , administered as a subcutaneous injection of 3 million units (MU) the first week, 6 MU the second week, and 9 MU the third week and thereafter, on 3 non-consecutive days each week.

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. Treatment-related serious adverse events

Efficacy results for the 99 subjects who crossed over from placebo to SUTENT after unblinding. Baseline was reset at cross-over and efficacy analyses were based on investigators assessment

^c The interim PFS numbers have been updated based on a recalculation of the original data

d Results for ORR are given as percent of subjects with confirmed response with the 95% CI.

Median not achieved because the data were not yet mature.

(TRSAEs) were reported in 23.7% of patients receiving sunitinib and in 6.9% of patients receiving IFN-α. However, the discontinuation rates due to adverse events were 20% for sunitinib and 23% for IFN-α. 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. Patients were treated until disease progression or withdrawal from the study. The primary efficacy endpoint was progression free survival (PFS). A planned interim analysis showed a statistically significant advantage for sunitinib over IFN-α, in this study, the median PFS for the sunitinib-treated group was 47.3 weeks, compared with 22.0 weeks for the IFN-α-treated group; the hazard ratio was 0.415 (95% CI: 0.320 - 0.539, p-value <0.001). Other endpoints included objective response rate (ORR), OS and safety. Core radiology assessment was discontinued after the primary endpoint had been met. At the final analysis, the ORR as determined by the investigator's assessment was 46% (95% CI: 41 - 51) for the sunitinib arm and 12.0% (95% CI: 9 - 16) for the IFN-α arm (p<0.001).

Sunitinib treatment was associated with longer survival compared to IFN- α . The median OS was 114.6 weeks for the sunitinib arm (95% CI: 100.1 - 142.9 weeks) and 94.9 weeks for the IFN- α arm (95% CI: 77.7 - 117.0 weeks) with a hazard ratio of 0.821 (95% CI: 0.673 - 1.001; p = 0.0510 by unstratified log-rank).

The overall PFS and OS, observed in the ITT population, as determined by the core radiology laboratory assessment, are summarized in the table below:

Table 3 - Summary of efficacy endpoints (ITT population)

Summary of progression-free survival	Sunitinib	IFN-α
	(N=375)	(N=375)
Subject did not progress or die [n (%)]	161 (42.9)	176 (46.9)
Subject observed to have progressed or died [n	214 (57.1)	199 (53.1)
(%)]		
PFS (weeks)		
Quartile (95% CI)		
25%	22.7 (18.0 to 34.0)	10.0 (7.3 to 10.3)
50%	48.3 (46.4 to 58.3)	22.1 (17.1 to 24.0)
75%	84.3 (72.9 to 95.1)	58.1 (45.6 to 82.1)
Unstratified analysis		
Hazard ratio (sunitinib vs IFN-α)	0.5	268
95% CI for hazard ratio	(0.4316 t	o 0.6430)
p-value ^a	<0.0	0001

^a From a 2-sided log-rank test.

Summary of overall survival	Sunitinib	IFN-α	
	(N=375)	(N=375)	
Subject not known to have died [n (%)]	185 (49.3)	175 (46.7)	
Subject observed to have died [n (%)]	190 (50.7)	200 (53.3)	
OS (weeks)			
Quartile (95% CI)			
25%	56.6 (48.7 to 68.4)	41.7 (32.6 to 51.6)	
50%	114.6 (100.1 to 142.9)	94.9 (77.7 to 117.0)	
75%	NA (NA to NA)	NA (NA to NA)	
Unstratified analysis			
Hazard ratio (sunitinib vs IFN-α)	0.8209		
95% CI for hazard ratio	(0.6730 to 1.0013)		
p-value a	0.05	510	

^a From a 2-sided log-rank test. NA: Not Available (Not Reached)

Cytokine-refractory metastatic renal cell carcinoma

A phase 2 study of sunitinib was conducted in patients who were refractory to prior cytokine therapy with interleukin-2 or IFN- α . Sixty-three patients received a starting dose of 50 mg sunitinib orally, once daily for 4 consecutive weeks followed by a 2-week rest period, to comprise a complete cycle of 6 weeks (schedule 4/2). The primary efficacy endpoint was ORR, based on Response Evaluation Criteria in Solid Tumours (RECIST).

In this study the objective response rate was 36.5% (95% CI: 24.7% - 49.6%) and the median time to progression (TTP) was 37.7 weeks (95% CI: 24.0 - 46.4 weeks).

A confirmatory, open-label, single-arm, multi-centre study evaluating the efficacy and safety of sunitinib was conducted in patients with MRCC who were refractory to prior cytokine therapy. One hundred and six patients received at least one 50 mg dose of sunitinib on schedule 4/2.

The primary efficacy endpoint of this study was ORR. Secondary endpoints included TTP, duration of response (DR) and OS.

In this study the ORR was 35.8% (95% CI: 26.8% - 47.5%). The median DR and OS had not yet been reached.

Pancreatic neuroendocrine tumours

A supportive phase 2, open-label, multi-center study evaluated the efficacy and safety of single-agent sunitinib 50 mg daily on Schedule 4/2 [4 weeks on treatment, 2-week rest period] in patients with unresectable pNET. In a pancreatic islet cell tumour cohort of 66 patients, the primary endpoint of response rate was 17%.

A pivotal phase 3, multi-centre, international, randomized, double-blind placebo-controlled study of single-agent sunitinib was conducted in patients with unresectable pNET.

Patients were required to have documented progression, based on RECIST, within the prior 12 months and were randomized (1:1) to receive either 37.5 mg sunitinib once daily without a scheduled rest period (n = 86) or placebo (n = 85).

The primary objective was to compare PFS in patients receiving sunitinib *versus* patients receiving placebo. Other endpoints included OS, ORR, Patient-reported Outcomes (PRO) and safety.

Demographics were comparable between the sunitinib and placebo groups. Additionally, 49% of sunitinib patients had non-functioning tumours *versus* 52% of placebo patients and 92% patients in both arms had liver metastases.

Use of somatostatin analogs was allowed in the study.

A total of 66% of sunitinib patients received prior systemic therapy compared with 72% of placebo patients. In addition, 24% of sunitinib patients had received somatostatin analogs compared with 22% of placebo patients.

A clinically significant advantage in investigator-assessed PFS for sunitinib over placebo was observed. The median PFS was 11.4 months for the sunitinib arm compared to 5.5 months for the placebo arm [hazard ratio: 0.418 (95% CI: 0.263, 0.662), p-value = 0.0001]; similar results were observed when derived tumour response assessments based upon application of RECIST to investigator tumour measurements were used to determine disease progression, as shown in Table 4. A hazard ratio favouring sunitinib was observed in all subgroups of baseline characteristics evaluated, including an analysis by number of prior systemic therapies. A total of 29 patients in the sunitinib arm and 24 in the placebo arm had received no prior systemic treatment; among these patients, the hazard ratio for PFS was 0.365 (95% CI: 0.156, 0.857), p = 0.0156. Similarly, among 57 patients in the sunitinib arm (including 28 with 1 prior systemic therapy and 29 with 2 or more prior systemic therapies) and 61 patients in the placebo arm (including 25 with 1 prior systemic therapy and 36 with 2

or more prior systemic therapies), the hazard ratio for PFS was 0.456 (95% CI: 0.264, 0.787), p = 0.0036.

A sensitivity analysis of PFS was conducted where progression was based upon investigator-reported tumour measurements and where all subjects censored for reasons other than study termination were treated as PFS events. This analysis provided a conservative estimate of the treatment effect of sunitinib and supported the primary analysis, demonstrating a hazard ratio of 0.507 (95% CI: 0.350, 0.733), p = 0.000193. The pivotal study in pancreatic NET was terminated prematurely at the recommendation of an independent Drug Monitoring Committee, and the primary endpoint was based upon investigator assessment, both of which may have affected the estimates of the treatment effect.

In order to rule out bias in the investigator-based assessment of PFS, a blinded independent central review of scans was performed; this review supported the investigator assessment, as shown in Table 4.

Table 4 - pNET efficacy results from the Phase 3 Study

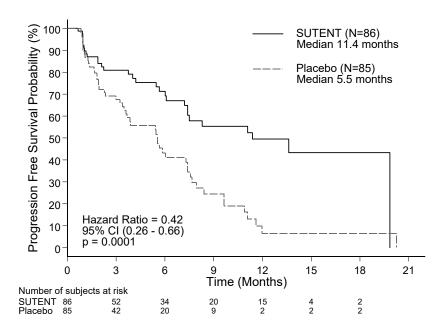
Efficacy parameter	SUTENT	Placebo	HR	P-value
Progression-Free Survival [median, months (95% CI)] by Investigator Assessment	(n = 86) 11.4 (7.4, 19.8)	(n = 85) 5.5 (3.6, 7.4)	0.418 (0.263, 0.662)	0.0001 ^a
Progression-Free Survival [median, months (95% CI)] by derived tumour response assessment based upon application of RECIST to investigator tumour assessments	12.6 (7.4, 16.9)	5.4 (3.5, 6.0)	0.401 (0.252, 0.640)	0.000066ª
Progression-Free Survival [median, months (95% CI)] by blinded independent central review of tumour assessments	12.6 (11.1, 20.6)	5.8 (3.8, 7.2)	0.315 (0.181, 0.546)	0.000015 a
Overall survival [5 years follow-up] [median, months (95% CI)]	38.6 (25.6, 56.4)	29.1 (16.4, 36.8)	0.730 (0.504, 1.057)	0.0940 ^a
Objective response rate [%, (95% CI)]	9.3 (3.2, 15.4)	0	NA	0.0066 ^b

CI=Confidence interval, HR=Hazard ratio, NA=Not applicable

^a 2-sided unstratified log-rank test

^b Fisher's Exact test

Figure 1 - Kaplan-Meier curve of PFS in the pNET Phase 3 Study



OS data were not mature at the time of the study closure [20.6 months (95% CI 20.6, NR) for the sunitinib arm compared to NR (95% CI 15.5, NR) for the placebo arm, hazard ratio: 0.409 (95% CI: 0.187, 0.894), p-value = 0.0204]. There were 9 deaths in the sunitinib arm and 21 deaths in the placebo arm.

Upon disease progression, patients were unblinded and placebo patients were offered access to open-label sunitinib in a separate extension study. As a result of the early study closure, remaining patients were unblinded and offered access to open-label sunitinib in an extension study. A total of 59 out of 85 (69.4%) patients from the placebo arm crossed over to open-label sunitinib following disease progression or unblinding at study closure. OS observed after 5 years of follow-up in the extension study showed a hazard ratio of 0.730 (95% CI 0.504, 1.057).

Results from the European Organization for Research and Treatment of Cancer Quality of Life Questionnaire (EORTC QLQ-C30) showed that the overall global health-related quality of life and the five functioning domains (physical, role, cognitive, emotional and social) were maintained for patients on sunitinib treatment as compared to placebo with limited adverse symptomatic effects.

Paediatric population

Experience on the use of sunitinib in paediatric patients is limited (see section 4.2 Paediatric population).

A phase I dose-escalation study of oral sunitinib was conducted in paediatric and young adult patients (aged 2-21) with refractory solid tumours, the majority of whom were enrolled with a primary diagnosis of brain tumour. Dose-limiting cardiotoxicity was observed in the first part of the study which was therefore amended to exclude patients with previous exposure to potentially cardiotoxic therapies (including anthracyclines) or cardiac radiation. In the second part of the study including patients with prior anticancer therapy but without risk factors for cardiac toxicity, sunitinib was generally tolerable and clinically manageable at the dose of 15 mg/m²/day on schedule 4/2. None of the subjects achieved complete response or partial response. Stable disease was observed in 6 patients

(17%). One GIST patient was enrolled at the 15 mg/m² dose level with no evidence of benefit. The observed adverse drug reactions were overall similar to those seen in adults (see section 4.8).

A population PK and PK/PD analysis was conducted with the scope to extrapolate the PK and key safety and efficacy endpoints of sunitinib in paediatric patients with GIST (age group 6-17 years). This analysis was based on data collected from adults with GIST or solid tumours, and from paediatric patients with solid tumours. Based on the modelling analyses, the younger age and lower body size did not appear to affect negatively the safety and efficacy responses to sunitinib plasma exposures. Sunitinib benefit/risk did not appear to be negatively affected by younger age or lower body size, and was mainly driven by its plasma exposure.

Based on the PK, safety, and efficacy trial simulation results, a starting dose of approximately 25 mg/m²/day on schedule 4/2 in paediatric patients with GIST (ages 6-11 and 12-17 years) is predicted to provide comparable sunitinib plasma exposures, and subsequently safety and efficacy to those in adult patients with GIST treated at 50 mg/day on schedule 4/2.

The European Medicines Agency has deferred the obligation to submit the results of the studies with SUTENT in one or more subsets of the paediatric population in GIST (see section 4.2 Paediatric population).

The European Medicines Agency has waived the obligation to submit the results of studies with SUTENT in all subsets of the paediatric population for treatment of kidney and renal pelvis carcinoma (excluding nephroblastoma, nephroblastomatosis, clear cell sarcoma, mesoblastic nephroma, renal medullary carcinoma and rhabdoid tumour of the kidney) (see section 4.2 for information on paediatric use).

The European Medicines Agency has waived the obligation to submit the results of the studies with SUTENT in all subsets of the paediatric population for treatment of gastroenteropancreatic neuroendocrine tumours (excluding neuroblastoma, neuroganglioblastoma, phaeochromocytoma) (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

The pharmacokinetics of sunitinib were evaluated in 135 healthy volunteers and 266 patients with solid tumours. The pharmacokinetics were similar in all solid tumours populations tested and in healthy volunteers.

In the dosing ranges of 25 to 100 mg, the area under the plasma concentration-time curve (AUC) and C_{max} increase proportionally with dose. With repeated daily administration, sunitinib accumulates 3- to 4-fold and its primary active 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 plasma concentrations of sunitinib and is active metabolite are 62.9 - 101 ng/ml which are target concentrations predicted from preclinical data to inhibit receptor phosphorylation *in vitro* and result in tumour stasis/growth reduction *in vivo*. The primary active metabolite comprises 23 to 37% of the total exposure. 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 schedules tested.

Absorption

After oral administration of sunitinib, maximum concentrations (C_{max}) are generally observed from 6 to 12 hours (t_{max}) post-administration.

Food has no effect on the bioavailability of sunitinib.

Distribution

In vitro, binding of sunitinib and its primary active metabolite to human plasma protein was 95% and 90%, respectively, with no apparent concentration dependence. The apparent volume of distribution (V_d) for sunitinib was large, 2230 l, indicating distribution into the tissues.

Metabolic interactions

The calculated *in vitro* Ki values for all cytochrome (CYP) isoforms tested (CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1, CYP3A4/5 and CYP4A9/11) indicated that sunitinib and its primary active metabolite are unlikely to induce metabolism, to any clinically relevant extent, of other actives substances that may be metabolised by these enzymes.

Biotransformation

Sunitinib is metabolised primarily by CYP3A4, the cytochrome P450 isoform which produces its primary active metabolite, desethyl sunitinib, which is then further metabolized by the same isoenzyme.

Co-administration of sunitinib with potent CYP3A4 inducers or inhibitors should be avoided because the plasma levels of sunitinib may be altered (see sections 4.4 and 4.5).

Elimination

Excretion is primarily via faeces (61%), with renal elimination of unchanged active substance and metabolites accounting for 16% of the administered dose. Sunitinib and its primary active metabolite were the major compounds identified in plasma, urine and faeces, representing 91.5%, 86.4% and 73.8% of radioactivity in pooled samples, respectively. Minor metabolites were identified in urine and faeces, but generally were not found in plasma. Total oral clearance (CL/F) was 34-62 l/h. Following oral administration in healthy volunteers, the elimination half-lives of sunitinib and its primary active desethyl metabolite are approximately 40-60 hours, and 80-110 hours, respectively.

Special populations

Hepatic impairment

Sunitinib and its primary metabolite are mainly metabolized by the liver. Systemic exposures after a single dose of sunitinib were similar in subjects with mild or moderate (Child-Pugh class A and B) hepatic impairment compared to subjects with normal hepatic function. SUTENT was not studied in subjects with severe (Child-Pugh class C) hepatic impairment.

Studies in cancer patients have excluded patients with ALT or AST >2.5 x ULN (upper limit of normal) or, if due to liver metastasis, >5.0 x ULN.

Renal impairment

Population pharmacokinetic analyses indicated that sunitinib apparent clearance (CL/F) was not affected by creatinine clearance within the range evaluated (42 - 347 ml/min). Systemic exposures after a single dose of sunitinib were similar in subjects with severe renal impairment (CLcr <30 ml/min) compared to subjects with normal renal function (CLcr >80 ml/min). Although sunitinib and its primary metabolite were not eliminated through hemodialysis in subjects with ESRD, the total systemic exposures were lower by 47% for sunitinib and 31% for its primary metabolite compared to subjects with normal renal function.

Weight, performance status

Population pharmacokinetic analyses of demographic data indicate that no starting dose adjustments are necessary for weight or Eastern Cooperative Oncology Group (ECOG) performance status.

Gender

Available data indicate that females could have about 30% lower apparent clearance (CL/F) of sunitinib than males: this difference, however, does not necessitate starting dose adjustments.

Paediatric population

Experience on the use of sunitinib in paediatric patients is limited (see section 4.2 Paediatric population). Population PK analyses of a pooled dataset from adult patients with GIST and solid tumours and paediatric patients with solid tumours were completed. Stepwise covariate modelling analyses were performed to evaluate the effect of age and body size (total body weight or body surface

area) as well as other covariates on important PK parameters for sunitinib and its active metabolite. Among age and body-size related covariates tested, age was a significant covariate on apparent clearance of sunitinib (the younger the age of the paediatric patient, the lower the apparent clearance). Similarly, body surface area was a significant covariate on the apparent clearance of the active metabolite (the lower the body surface area, the lower the apparent clearance). Based on the final PK model trial simulation results, taking into account all the covariates effects, a sunitinib dose of 25 mg/m²/day in paediatric patients (ages 6-11 and 12-17 years) with GIST is predicted to achieve comparable sunitinib plasma exposures to those in adult patients with GIST treated at 50 mg/day, on Schedule 4/2.

5.3 Preclinical safety data

In rat and monkey repeated-dose toxicity studies up to 9-months duration, the primary target organ effects were identified in the gastrointestinal tract (emesis and diarrhoea in monkeys); adrenal gland (cortical congestion and/or haemorrhage in rats and monkeys, with necrosis followed by fibrosis in rats); haemolymphopoietic system (bone morrow hypocellularity, and lymphoid depletion of thymus, spleen, and lymph node); exocrine pancreas (acinar cell degranulation with single cell necrosis); salivary gland (acinar hypertrophy); bone joint (growth plate thickening); uterus (atrophy); and ovaries (decreased follicular development). All findings occurred at clinically relevant sunitinib plasma exposure levels. Additional effects, observed in other studies included: QTc interval prolongation, LVEF reduction and testicular tubular atrophy, increased mesangial cells in kidney, haemorrhage in gastro-intestinal tract and oral mucosa, and hypertrophy of anterior pituitary cells. Changes in the uterus (endometrial atrophy) and bone growth plate (physeal thickening or dysplasia of cartilage) are thought to be related to the pharmacological action of sunitinib. Most of these findings were reversible after 2 to 6 weeks without treatment.

Genotoxicity

The genotoxic potential of sunitinib was assessed *in vitro* and *in vivo*. 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*. Polyploidy (numerical chromosome aberrations) was observed in human peripheral blood lymphocytes *in vitro*, both 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 genotoxic potential.

Carcinogenicity

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, 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 haemangiosarcomas, and/or gastric mucosal hyperplasia were observed at doses of ≥25 mg/kg/day following 1- or 6-months duration (≥7.3 times the AUC in patients administered the recommended daily dose [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 increases in the incidence of pheochromocytomas and hyperplasia in the adrenal medulla of male rats given 3 mg/kg/day following \geq 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.

Reproductive and developmental toxicity

No effects on male or female fertility were observed in reproductive toxicity studies. However, in repeated-dose toxicity studies performed in rats and monkeys, effects on female fertility were observed in the form of follicular atresia, degeneration of corpora lutea, endometrial changes in the uterus and decreased uterine and ovarian weights at clinically relevant systemic exposure levels. Effects on male fertility in rat were observed in the form of tubular atrophy in the testes, reduction of spermatozoa in epididymides and colloid depletion in prostate and seminal vesicles at plasma exposure levels 25 times the systemic exposure in humans.

In rats, embryo-foetal mortality was evident as significant reductions in the number of live foetuses, increased numbers of resorptions, increased post-implantation loss, and total litter loss in 8 of 28 pregnant females at plasma exposure levels 5.5 times the systemic exposure in humans. In rabbits, reductions in gravid uterine weights and number of live foetuses were due to increases in the number of resorptions, increases in post-implantation loss and complete litter loss in 4 of 6 pregnant females at plasma exposure levels 3 times the systemic exposure in humans. Sunitinib treatment in rats during organogenesis resulted in developmental effects at ≥5 mg/kg/day consisting of increased incidence of foetal skeletal malformations, predominantly characterized as retarded ossification of thoracic/lumbar vertebrae and occurred at plasma exposure levels 5.5 times the systemic exposure in humans. In rabbits, developmental effects consisted of increased incidence of cleft lip at plasma exposure levels approximately equal to that observed in clinic, and cleft lip and cleft palate at plasma exposure levels 2.7 times the systemic exposure in humans.

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

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

12.5 mg hard capsules
Capsule content
Mannitol (E421)
Croscarmellose sodium
Povidone (K-25)
Magnesium stearate

Capsule shell
Gelatin
Red iron oxide (E172)
Titanium dioxide (E171)

Printing ink
Shellac
Propylene glycol
Sodium hydroxide
Povidone
Titanium dioxide (E171)

25 mg hard capsules

Capsule content

Mannitol (E421)

Croscarmellose sodium

Povidone (K-25)

Magnesium stearate

Capsule shell

Gelatin

Red iron oxide (E172)

Titanium dioxide (E171)

Yellow iron oxide (E172)

Black iron oxide (E172)

Printing ink

Shellac

Propylene glycol

Sodium hydroxide

Povidone

Titanium dioxide (E171)

37.5 mg hard capsules

Capsule content

Mannitol (E421)

Croscarmellose sodium

Povidone (K-25)

Magnesium stearate

Capsule shell

Gelatin

Titanium dioxide (E171)

Yellow iron oxide (E172)

Printing ink

Shellac

Propylene glycol

Potassium hydroxide

Black iron oxide (E172)

50 mg hard capsules

Capsule content

Mannitol (E421)

Croscarmellose sodium

Povidone (K-25)

Magnesium stearate

Capsule shell

Gelatin

Titanium dioxide (E171)

Yellow iron oxide (E172)

Red iron oxide (E172)

Black iron oxide (E172)

Printing ink
Shellac
Propylene glycol
Sodium hydroxide
Povidone
Titanium dioxide (E171)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 years.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

High-density polyethylene (HDPE) bottle with a polypropylene closure containing 30 hard capsules.

Poly(chlorotrifluoroethylene)/PVC transparent perforated unit dose blister with aluminium foil coated with heat seal lacquer containing 28 x 1 hard capsules.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

No special requirements.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom

8. MARKETING AUTHORISATION NUMBER(S)

SUTENT 12.5 mg hard capsules EU/1/06/347/001 EU/1/06/347/004

SUTENT 25 mg hard capsules EU/1/06/347/002 EU/1/06/347/005

<u>SUTENT 37.5 mg hard capsules</u> EU/1/06/347/007 EU/1/06/347/008 SUTENT 50 mg hard capsules EU/1/06/347/003 EU/1/06/347/006

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 19 July 2006 Date of latest renewal: 9 January 2012

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.

ANNEX II

- A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

PFIZER Italia S.r.l Via del Commercio Zona Industriale IT-63100 Marino del Tronto (Ascoli Piceno) Italy

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic Safety Update Reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2. of the Marketing Authorisation and any agreed subsequent updates of the RMP .

An updated RMP should be submitted:

- At the request of the European Medicine Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
HDPE BOTTLE OUTER CARTON - 12.5 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 12.5 mg hard capsules sunitinib
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains sunitinib malate, equivalent to 12.5 mg of sunitinib.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
30 hard capsules
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
This medicinal product does not require any special storage conditions.

APPROPRIATE

SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer	Ltd
Rams	gate Road
Sandy	
Kent	CT13 9NJ
Unite	d Kingdom
12.	MARKETING AUTHORISATION NUMBER(S)
EU/1/	06/347/001
13.	BATCH NUMBER
D 4 1	
Batch	
14.	GENERAL CLASSIFICATION FOR SUPPLY
15	INCEDITIONS ON LISE
15.	INSTRUCTIONS ON USE
16.	INFORMATION IN BRAILLE

Sutent 12.5 mg

MIN	IMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
HDP	E BOTTLE – 12.5 MG CAPSULES
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
Suten suniti Oral u	
2.	METHOD OF ADMINISTRATION
Read	the package leaflet before use.
3.	EXPIRY DATE
EXP	
4.	BATCH NUMBER
Batch	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
30 ca ₁	psules
6.	OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
HDPE BOTTLE OUTER CARTON - 25 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT	
Sutent 25 mg hard capsules sunitinib	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each capsule contains sunitinib malate, equivalent to 25 mg of sunitinib.	
3. LIST OF EXCIPIENTS	
4. PHARMACEUTICAL FORM AND CONTENTS	
30 hard capsules	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
Read the package leaflet before use. Oral use.	
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN	
Keep out of the sight and reach of children.	
7. OTHER SPECIAL WARNING(S), IF NECESSARY	
8. EXPIRY DATE	
EXP	
9. SPECIAL STORAGE CONDITIONS	
This medicinal product does not require any special storage conditions.	

SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

Pfizer Ltd Ramsgate Road	
- 11LUI 21W	
Camsyate road	
Sandwich	
Kent CT13 9NJ	
Jnited Kingdom	
2. MARKETING AUTHORISATION NUMBER(S)	
2. MARKETING AUTHORISATION NUMBER(S)	
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3. BATCH NUMBER	
Batch	
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4. GENERAL CLASSIFICATION FOR SUPPLY	
5. INSTRUCTIONS ON USE	
6. INFORMATION IN BRAILLE	

Sutent 25 mg

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS	
HDP	E BOTTLE – 25 MG CAPSULES
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
Suten suniti Oral u	
2.	METHOD OF ADMINISTRATION
Read	the package leaflet before use.
3.	EXPIRY DATE
EXP	
4.	BATCH NUMBER
Batch	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
30 ca	psules
6.	OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
HDPE BOTTLE OUTER CARTON – 37.5 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT	
Sutent 37.5 mg hard capsules sunitinib	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each capsule contains sunitinib malate, equivalent to 37.5 mg of sunitinib.	
3. LIST OF EXCIPIENTS	
4. PHARMACEUTICAL FORM AND CONTENTS	
30 hard capsules.	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
Read the package leaflet before use. Oral use.	
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN	
Keep out of the sight and reach of children.	
7. OTHER SPECIAL WARNING(S), IF NECESSARY	
8. EXPIRY DATE	
EXP	
9. SPECIAL STORAGE CONDITIONS	
This medicinal product does not require any special storage conditions.	
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF	

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer	Ltd
Rams	gate Road
Sandy	
Kent (CT13 9NJ
	d Kingdom
12.	MADIZETING AUTHODISATION NUMBER(S)
12.	MARKETING AUTHORISATION NUMBER(S)
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13.	BATCH NUMBER
Batch	
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
16.	INFORMATION IN BRAILLE
	11

Sutent 37.5 mg

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS	
HDPE BOTTLE – 37.5 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION	
Sutent 37.5 mg hard capsules sunitinib Oral use	
A METHOD OF ADMINISTRATION	
2. METHOD OF ADMINISTRATION	
Read the package leaflet before use.	
3. EXPIRY DATE	
EXP	
4. BATCH NUMBER	
Batch	
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT	
30 capsules	
6. OTHER	

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
HDPE BOTTLE OUTER CARTON - 50 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT	
Sutent 50 mg hard capsules sunitinib	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each capsule contains sunitinib malate, equivalent to 50 mg of sunitinib.	
3. LIST OF EXCIPIENTS	
4. PHARMACEUTICAL FORM AND CONTENTS	
30 hard capsules	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
Read the package leaflet before use. Oral use.	
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN	
Keep out of the sight and reach of children.	
7. OTHER SPECIAL WARNING(S), IF NECESSARY	
8. EXPIRY DATE	
EXP	
9. SPECIAL STORAGE CONDITIONS	
This medicinal product does not require any special storage conditions.	

SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
Ramsgate Road
Sandwich
Kent CT13 9NJ
United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/06/347/003
13. BATCH NUMBER
Batch
Batti
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Sutent 50 mg

MIN	IMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
HDP	E BOTTLE – 50 MG CAPSULES
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
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2.	METHOD OF ADMINISTRATION
	the package leaflet before use.
3.	EXPIRY DATE
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4.	BATCH NUMBER
Batch	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
30 ca	psules
6.	OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
BLISTER OUTER CARTON - 12.5 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT	
Sutent 12.5 mg hard capsules sunitinib	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each capsule contains sunitinib malate, equivalent to 12.5 mg of sunitinib.	
3. LIST OF EXCIPIENTS	
4. PHARMACEUTICAL FORM AND CONTENTS	
28 x 1 hard capsules	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
Read the package leaflet before use. Oral use.	
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN	
Keep out of the sight and reach of children.	
7. OTHER SPECIAL WARNING(S), IF NECESSARY	
8. EXPIRY DATE	
o. EATRI DATE	
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9. SPECIAL STORAGE CONDITIONS	
This medicinal product does not require any special storage conditions.	
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF	

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
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Kent	CT13 9NJ
Unite	ed Kingdom
12.	MARKETING AUTHORISATION NUMBER(S)
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Batch	1
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
16.	INFORMATION IN BRAILLE
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Sutent 12.5 mg

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
BLISTER – 12.5 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 12.5 mg hard capsules sunitinib
2. NAME OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Batch
5. OTHER
MON TUE WED THU FRI SAT

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
BLISTER OUTER CARTON - 25 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 25 mg hard capsules sunitinib
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains sunitinib malate, equivalent to 25 mg of sunitinib.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
28 x 1 hard capsules
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
This medicinal product does not require any special storage conditions.

SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
Ramsgate Road
Sandwich
Kent CT13 9NJ
United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
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13. BATCH NUMBER
Batch
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14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
13. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Sutent 25 mg

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
BLISTER – 25 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 25 mg hard capsules sunitinib
2. NAME OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Batch
5. OTHER
MON TUE WED THU FRI SAT SUN

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
BLISTER OUTER CARTON – 37.5 MG CAPSULES	
1. NAME OF THE MEDICINAL PRODUCT	
Sutent 37.5 mg hard capsules sunitinib	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each capsule contains sunitinib malate, equivalent to 37.5 mg of sunitinib.	
3. LIST OF EXCIPIENTS	
U. Zioi di Bioli ibilio	
4. PHARMACEUTICAL FORM AND CONTENTS	
28 x 1 hard capsules	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
Read the package leaflet before use.	
Oral use.	
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OU OF THE SIGHT AND REACH OF CHILDREN	T
Keep out of the sight and reach of children.	
7. OTHER SPECIAL WARNING(S), IF NECESSARY	
8. EXPIRY DATE	
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9. SPECIAL STORAGE CONDITIONS	
This medicinal product does not require any special storage conditions.	
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS	

OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer	r Ltd
Rams	gate Road
Sandy	wich
	CT13 9NJ
Unite	d Kingdom
12.	MARKETING AUTHORISATION NUMBER(S)
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13.	BATCH NUMBER
Batch	
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
16.	INFORMATION IN BRAILLE
Suten	t 37.5 mg

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
BLISTER – 37.5 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 37.5 mg hard capsules sunitinib
2. NAME OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Batch
5. OTHER
MON TUE WED THU FRI SAT

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
BLISTER OUTER CARTON - 50 MG CAPSULES
1. NAME OF THE MEDICINAL PRODUCT
Sutent 50 mg hard capsules sunitinib
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each capsule contains sunitinib malate, equivalent to 50 mg of sunitinib.
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
28 x 1 hard capsules
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
This medicinal product does not require any special storage conditions.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OF WASTE MATERIALS DEPLYED FROM SUCH MEDICINAL PRODUCTS. IF

OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Pfizer Ltd
Ramsgate Road
Sandwich
Kent CT13 9NJ
United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/06/347/006
13. BATCH NUMBER
Batch
Batti
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Sutent 50 mg

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
BLISTER - 50 MG CAPSULES		
DEISTER - 30 MG CATSULES		
1. NAME OF THE MEDICINAL PRODUCT		
Sutent 50 mg hard capsules		
sunitinib		
2. NAME OF THE MARKETING AUTHORISATION HOLDER		
DC1.41		
Pfizer Ltd		
3. EXPIRY DATE		
EXP		
EAP		
4. BATCH NUMBER		
Detal		
Batch		
5. OTHER		
MON		
MON TUE		
WED		
THU		
FRI		
SAT		
SUN		

B. PACKAGE LEAFLET

Package leaflet: Information for the user

SUTENT 12.5 mg hard capsules SUTENT 25 mg hard capsules SUTENT 37.5 mg hard capsules SUTENT 50 mg hard capsules sunitinib

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Sutent is and what it is used for
- 2. What you need to know before you take Sutent
- 3. How to take Sutent
- 4. Possible side effects
- 5. How to store Sutent
- 6. Contents of the pack and other information

1. What Sutent is and what it is used for

Sutent contains the active substance sunitinib, which is a protein kinase inhibitor. It is used to treat cancer by preventing the activity of a special group of proteins which are known to be involved in the growth and spread of cancer cells.

Sutent is used to treat adults with the following types of cancer:

- Gastrointestinal stromal tumour (GIST), a type of cancer of the stomach and bowel, where imatinib (another anticancer medicine) no longer works or you cannot take imatinib.
- Metastatic renal cell carcinoma (MRCC), a type of kidney cancer that has spread to other parts of the body.
- Pancreatic neuroendocrine tumours (pNET) (tumours of the hormone-producing cells in the pancreas) that have progressed or cannot be removed with surgery.

If you have any questions about how Sutent works or why this medicine has been prescribed for you, ask your doctor.

2. What you need to know before you take Sutent

Do not take Sutent:

- If you are allergic to sunitinib or any of the other ingredients of Sutent (listed in section 6).

Warnings and precautions

Talk to your doctor before taking Sutent:

- **If you have high blood pressure.** Sutent can raise blood pressure. Your doctor may check your blood pressure during treatment with Sutent, and you may be treated with medicines to reduce the blood pressure, if needed.
- If you have or have had blood disease, bleeding problems, or bruising. Treatment with Sutent may lead to a higher risk of bleeding or lead to changes in the number of certain cells in the blood which may lead to anemia or affect the ability of your blood to clot. If you are taking warfarin or acenocoumarole, medicines which thin the blood to prevent blood clots, there may be a greater risk of bleeding. Tell your doctor if you have any bleeding while on treatment with Sutent.
- **If you have heart problems.** Sutent can cause heart problems. Tell your doctor if you feel very tired, are short of breath, or have swollen feet and ankles.
- **If you have abnormal heart rhythm changes.** Sutent can cause abnormality of your heart rhythm. Your doctor may obtain electrocardiograms to evaluate for these problems during your treatment with Sutent. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking Sutent.
- If you have had a recent problem with blood clots in your veins and/or arteries (types of blood vessels), including stroke, heart attack, embolism, or thrombosis. Call your doctor immediately if you get symptoms such as chest pain or pressure, pain in your arms, back, neck or jaw, shortness of breath, numbness or weakness on one side of your body, trouble talking, headache, or dizziness while on treatment with Sutent.
- If you have or have had damage to the smallest blood vessels known as Thrombotic Microangiopathy (TMA). Tell your doctor if you develop fever, fatigue, tiredness, bruising, bleeding, swelling, confusion, vision loss and seizures.
- **If you have thyroid glands problems.** Sutent can cause thyroid gland problems. Tell your doctor if you get tired more easily, generally feel colder than other people or your voice deepens whilst taking Sutent. Your thyroid function should be checked before you take Sutent and regularly while you are taking it. If your thyroid gland is not producing enough thyroid hormone, you may be treated with thyroid hormone replacement.
- **If you have or have had pancreatic or gallbladder disorders.** Tell your doctor if you develop any of the following signs and symptoms: pain in the area of the stomach (upper abdomen), nausea, vomiting, and fever. These may be caused by inflammation of the pancreas or gallbladder.
- **If you have or have had liver problems.** Tell your doctor if you develop any of the following signs and symptoms of liver problems during Sutent treatment: itching, yellow eyes or skin, dark urine, and pain or discomfort in the right upper stomach area. Your doctor should do blood tests to check your liver function before and during treatment with Sutent, and as clinically indicated.
- If you have or have had kidney problems. Your doctor will monitor your kidney function.
- If you are going to have surgery or if you had an operation recently. Sutent may affect the way your wounds heal. You will usually be taken off Sutent if you are having an operation. Your doctor will decide when to start Sutent again.

- You may be advised to have a dental check-up before you start treatment with Sutent
 - if you 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 tell your doctor and dentist immediately.
 - if you need to undergo an invasive dental treatment or dental surgery, tell your dentist that you are being treated with Sutent in particular when you are also receiving or have received intravenous bisphosphonates. Bisphosphonates are medicines used to prevent bone complications that may have been given for another medical condition.
- If you have or have had skin and subcutaneous tissue disorders. While you are on this medicine "pyoderma gangrenosum" (painful skin ulceration) or "necrotising fasciitis" (rapidly spreading infection of the skin/soft tissue that may be life-threatening) may occur. This event is generally reversible after sunitinib discontinuation. Severe skin rashes (Stevens-Johnson syndrome, toxic epidermal necrolysis, erythema multiforme) have been reported with the use of sunitinib, appearing initially 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 and may be life-threatening. If you develop a rash or these skin symptoms, seek immediate advice from a doctor.
- **If you have or have had seizures.** Notify your doctor as soon as possible if you have high blood pressure, headache, loss of sight.
- **If you have diabetes.** Blood sugar levels in diabetic patients should be checked regularly in order to assess if anti-diabetic medicine's dosage needs to be adjusted to minimize the risk of low blood sugar.

Children and adolescents

Sutent is not recommended for people aged under 18.

Other medicines and Sutent

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines, including medicines obtained without a prescription and even those not prescribed.

Some medicines can affect the levels of Sutent in your body. You should inform your doctor if you are taking medicines containing the following active substances:

- ketoconazole, itraconazole used to treat fungal infections
- erythromycin, clarithromycin, rifampicin –used to treat infections
- ritonavir –used to treat HIV
- dexamethasone a corticosteroid used for various conditions (such as allergic/breathing disorders or skin diseases)
- phenytoin, carbamazepine, phenobarbital used to treat epilepsy and other neurological conditions
- herbal preparations containing St. John's Wort (Hypericum perforatum) used to treat depression and anxiety

Sutent with food and drink

You should avoid drinking grapefruit juice while on treatment with Sutent.

Pregnancy and breast-feeding

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

If you might get pregnant, you should use a reliable method of contraception during treatment with Sutent.

If you are breast-feeding, tell your doctor. You should not breast-feed during treatment with Sutent.

Driving and using machines

If you experience dizziness or you feel unusually tired, take special care when driving or using machines.

3. How to take Sutent

Always take this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.

Your doctor will prescribe a dose that is right for you, depending on the type of cancer to be treated. If you are being treated for GIST or MRCC, the usual dose is 50 mg once daily taken for 28 days (4 weeks), followed by 14 days (2 weeks) of rest (no medicine), in 6-week cycles. If you are being treated for pNET, the usual dose is 37.5 mg once daily without a rest period.

Your doctor will determine the appropriate dose you need to take, as well as if and when you need to stop treatment with Sutent.

Sutent can be taken with or without food.

If you take more Sutent than you should

If you have accidentally taken too many capsules, talk to your doctor straight away. You may require medical attention.

If you forget to take Sutent

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

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

You must <u>immediately contact</u> your doctor if you experience any of those serious side effects (see also **What you need to know before you take Sutent**):

Heart problems. Tell your doctor if you feel very tired, are short of breath, or have swollen feet and ankles. These may be symptoms of heart problems that may include heart failure and heart muscle problems (cardiomyopathy).

Lung or breathing problems. Tell your doctor if you develop cough, chest pain, sudden onset of shortness of breath or coughing up blood. These may be symptoms of a condition called pulmonary embolism that occurs when blood clots travel to your lungs.

Kidney disorders. Tell your doctor if you experience altered frequency or absence of urination which may be symptoms of kidney failure.

Bleeding. Tell your doctor if you have any of these symptoms or a serious bleeding problem during treatment with Sutent: painful, swollen stomach (abdomen), vomiting blood, black, sticky stools,

bloody urine, headache or change in your mental status, coughing up of blood or bloody sputum from the lungs or airway.

Tumour destruction leading to hole in the intestine. Tell your doctor if you have severe abdominal pain, fever, nausea, vomiting, blood in your stool, or changes in bowel habits.

Other side effects with Sutent may include:

Very common: may affect more than 1 in 10 people

- Reduction in the number of platelets, red blood cells and/or white blood cells (e.g. neutrophils).
- Shortness of breath.
- High blood pressure.
- Extreme tiredness, loss of strength.
- Swelling caused by fluid under the skin and around the eye, deep allergic rash.
- Mouth pain/irritation, mouth sores/inflammation/dryness, taste disturbances, upset stomach, nausea, vomiting, diarrhoea, constipation, abdominal pain/swelling, loss/decrease of appetite.
- Decreased activity of thyroid gland (hypothyroidism).
- Dizziness.
- Headache.
- Nose bleeding.
- Back pain, joint pain.
- Pain in arms and legs.
- Yellow skin/skin discoloration, excess pigmentation of the skin, hair colour change, rash on the palms of the hands and soles of the feet, rash, dryness of the skin.
- Cough.
- Fever.
- Difficulty in falling asleep.

Common: may affect up to 1 in 10 people

- Blood clots in the blood vessels.
- Deficiency of blood supply to the heart muscle, due to obstruction or constriction of the coronary arteries.
- Chest pain.
- Decreased in the amount of blood pumped by the heart.
- Fluid retention including around the lungs.
- Infections.
- Decreased blood sugar level. If you experience any signs and symptoms of low blood sugar: Notify your doctor as soon as possible if you experience fatigue, palpitations, sweating, hunger and loss of consciousness.
- Loss of protein in the urine sometime resulting in swelling.
- Influenza-like syndrome.
- Abnormal blood tests including pancreatic and liver enzymes.
- High level of uric acid in the blood.
- Haemorrhoids, pain in the rectum, gingival bleeding, difficulty in swallowing or inability to swallow.
- Burning or painful sensation in the tongue, inflammation of the digestive tract lining, excessive gas in the stomach or intestine.
- Weight loss.
- Musculoskeletal pain (pain in muscles and bones), muscular weakness, muscular fatigue, muscle pain, muscle spasms.
- Nasal dryness, congested nose.
- Excessive tear flow.
- Abnormal sensation of the skin, dry skin, itching, flaking and inflammation of the skin, blisters, acne, nail discolouration, hair loss.
- Abnormal sensations in extremities.

- Abnormally decreased/increased sensitivity, particularly to touch.
- Acid heartburn.
- Dehydration.
- Hot flushes.
- Abnormally coloured urine.
- Depression.
- Chills.

Uncommon: may affect up to 1 in 100 people

- Life-threatening infection of the soft tissue including the ano-genital region. Contact your doctor immediately if symptoms of infection occur around a skin injury, including fever, pain, redness, swelling, or drainage of pus or blood.
- Stroke
- Heart attack caused by an interrupted or decreased blood supply to the heart.
- Changes in the electrical activity or abnormal rhythm of the heart.
- Fluid around the heart (pericardial effusion).
- Liver failure.
- Pain in the stomach (abdomen) caused by inflammation of the pancreas.
- Tumour destruction leading to hole in the intestine (perforation).
- Inflammation (swelling and redness) of the gallbladder with or without associated gallstones.
- Abnormal tube like passage from one normal body cavity to another body cavity or the skin.
- 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. These could be signs and symptoms of bone damage in the jaw (osteonecrosis). Tell your doctor and dentist immediately if you experience any of them.
- Overproduction of thyroid hormones which increases the amount of energy the body uses at rest.
- Problems with wound healing after surgery.
- Increased blood level of enzyme (creatine phosphokinase) from muscle.
- Inappropriate and excessive reaction to an allergen.

Rare: may affect up to 1 in 1,000 people

- Severe reaction of the skin and/or mucous membranes (Stevens-Johnson syndrome, toxic epidermal necrolysis, erythema multiforme).
- Tumour lysis syndrome (TLS) TLS consists of a group of metabolic complications that can occur during treatment of cancer. These complications are caused by the break-down products of dying cancer cells and may include the following: nausea, shortness of breath, irregular heartbeat, muscular cramps, seizure, clouding of urine and tiredness associated with abnormal laboratory test results (high potassium, uric acid and phosphorous levels and low calcium levels in the blood) that can lead to changes in kidney function and acute renal failure.
- Abnormal muscle breakdown which can lead to kidney problems (rhabdomyolysis).
- Abnormal changes in the brain that can cause a collection of symptoms including headache, confusion, seizures, and vision loss (reversible posterior leukoencephalopathy syndrome).
- Painful skin ulceration (pyoderma gangrenosum).
- Inflammation of the liver (hepatitis).
- Inflammation of the thyroid gland.
- Damage to the smallest blood vessels known as thrombotic microangiopathy (TMA).

Reporting of side effects

If you get any side effects, talk to your doctor. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Sutent

- Keep this medicine out of the sight and reach of children.
- Do not use this medicine after the expiry date which is stated on carton, bottle and blister foil after "EXP". The expiry date refers to the last day of that month.
- This medicine does not require any special storage conditions.
- Do not use this medicine if you notice that the pack is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Sutent contains

Sutent 12.5 mg hard capsules

The active substance is sunitinib. Each capsule contains sunitinib malate equivalent to 12.5 mg sunitinib. The other ingredients are:

- Capsule content: mannitol (E421), croscarmellose sodium, povidone (K-25) and magnesium stearate.
- Capsule shell: gelatin, red iron oxide (E172) and titanium dioxide (E171).
- *Printing ink:* shellac, propylene glycol, sodium hydroxide, povidone and titanium dioxide (E171).

Sutent 25 mg hard capsules

The active substance is sunitinib. Each capsule contains sunitinib malate equivalent to 25 mg. The other ingredients are:

- Capsule content: mannitol, croscarmellose sodium, povidone (K-25) and magnesium stearate.
- Capsule shell: gelatin, titanium dioxide (E171), yellow iron oxide (E172), red iron oxide (E172), black iron oxide (E172).
- *Printing ink:* shellac, propylene glycol, sodium hydroxide, povidone and titanium dioxide (E171).

Sutent 37.5 mg hard capsules

The active substance is sunitinib. Each capsule contains sunitinib malate equivalent to 37.5 mg. The other ingredients are:

- Capsule content: mannitol, croscarmellose sodium, povidone (K-25) and magnesium stearate.
- Capsule shell: gelatin, titanium dioxide (E171), yellow iron oxide (E172).
- Printing ink: shellac, propylene glycol, potassium hydroxide, black iron oxide (E172).

Sutent 50 mg hard capsules

The active substance is sunitinib. Each capsule contains sunitinib malate equivalent to 50 mg. The other ingredients are:

- Capsule content: mannitol, croscarmellose sodium, povidone (K-25) and magnesium stearate.
- Capsule shell: gelatin, titanium dioxide (E171), yellow iron oxide (E172), red iron oxide (E172) and black iron oxide (E172).
- *Printing ink:* shellac, propylene glycol, sodium hydroxide, povidone and titanium dioxide (E171).

What Sutent looks like and contents of the pack

Sutent 12.5 mg is supplied as hard gelatin capsules with orange cap and orange body, printed with white ink "Pfizer" on the cap, "STN 12.5 mg" on the body, containing yellow to orange granules.

Sutent 25 mg is supplied as hard gelatin capsules with caramel cap and orange body, printed with white ink "Pfizer" on the cap, "STN 25 mg" on the body, containing yellow to orange granules.

Sutent 37.5 mg is supplied as hard gelatin capsules with yellow cap and yellow body, printed with black ink "Pfizer" on the cap, "STN 37.5 mg" on the body, containing yellow to orange granules.

Sutent 50 mg is supplied as hard gelatin capsules with caramel cap and caramel body, printed with white ink "Pfizer" on the cap, "STN 50 mg" on the body, containing yellow to orange granules.

It is available in plastic bottles of 30 capsules and in perforated unit dose blisters containing 28 x 1 capsules.

Not all pack sizes may be marketed.

Marketing Authorisation Holder

Pfizer Limited Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom

Manufacturer

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Detailed information on this medicine is available on the European Medicine Agency website: http://www.ema.europa.eu.