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**PROPRIETARY DRUG NAME® / GENERIC DRUG NAME:** Sutent® / Sunitinib Malate

**PROTOCOL NO.:** A6181036

**PROTOCOL TITLE:** A Treatment Protocol for Patients With Gastrointestinal Stromal Tumor who Are Ineligible for Participation in Other SU011248 Protocols and Are Refractory to or Intolerant of Imatinib Mesylate

**Study Centers:** A total of 104 centers took part in the study and randomized subjects, 22 centers in the United States, 8 centers in Italy, 7 centers in Australia, 6 centers each in Canada and Spain, 4 centers each in Germany, Taiwan, and in the United Kingdom, 3 centers each in France, India and Turkey, 2 centers each in Austria, Belgium, Czech Republic, Denmark, Hong Kong, Israel, the Republic of Korea, Mexico, Netherlands, Singapore, and Thailand, 1 center each in Argentina, Chile, Colombia, Finland, Greece, Hungary, Norway, Poland, Slovakia, Sweden, Switzerland, and Venezuela.

**Study Initiation and Final Completion Dates:** 13 September 2004 to 31 August 2011

**Phase of Development:** Not applicable

**Study Objectives:** The primary objective was to provide access to sunitinib treatment for subjects with gastrointestinal stromal tumor (GIST) given the following conditions:

- Subjects had received treatment with imatinib mesylate and had developed resistance or intolerance.
- Subjects had, in the judgment of the Investigator, the potential to derive clinical benefit from treatment with sunitinib.
- Subjects were ineligible for participation in ongoing sunitinib clinical studies (if any Phase 1, 2, or 3 sunitinib protocols for subjects having GIST were open to enrollment at the institution).

**METHODS**

**Study Design:** This study was an open-label “treatment use” protocol for subjects with imatinib refractory or intolerant GIST with the disease status and treatment background described in the study objectives. The primary objective, to provide access to sunitinib, was done without formal hypothesis testing. Disease assessments for tumor response and progression was performed as per local standard of care of GIST. Minimal disease evaluation data (best response and date of progression) was collected.

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Subjects continued to access sunitinib malate on this study as long as there was evidence of disease control in the judgment of the Investigator. Survival beyond participation in the study was monitored for up to 2 years from the date of the last dose of sunitinib malate.

Assessments and procedures were performed as outlined in [Table 1](#).

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**Table 1. Schedule of Events**

| Parameters  | Screen           | Cycle 1 Treatment |                              |  | Cycle 2        |  | Cycles ≥3             | End of Treatment/<br>Withdrawal | Post-Treatment <sup>a</sup> | Survival Follow-Up |
|---|------------------|-------------------|------------------------------|--|----------------|--|-----------------------|---------------------------------|-----------------------------|--------------------|
|   | Days<br>-45 to 1 | Day 1<br>-1/+0    | Day 14 <sup>b</sup><br>-3/+3 | Day 28<br>or End<br>of Dosing<br>-3/+3 | Day 1<br>-1/+0 | Day 28 or<br>End of<br>Dosing<br>-3/+3 | Day 1<br>-1/+0        |                                 |                             |                    |
| Informed consent                                    | X                |                   |                              |  |                |  |                       |                                 |                             |                    |
| Eligibility <sup>c</sup>                            | X                |                   |                              |  |                |  |                       |                                 |                             |                    |
| Medical history                                     | X                |                   |                              |  |                |  |                       |                                 |                             |                    |
| Physical examination <sup>d</sup>                   | X                | (X) <sup>d</sup>  |                              |  | X              |  | X                     | X                               | (X) <sup>d</sup>            |                    |
| Laboratory studies                                  |                  |                   |                              |  |                |  |                       |                                 |                             |                    |
| Pregnancy test <sup>e</sup>                         | X                |                   |                              |  |                |  |                       |                                 |                             |                    |
| Hematology <sup>d</sup>                             | X                | (X) <sup>d</sup>  | (X) <sup>b</sup>             | X                                      | X              | X                                      | X                     | X                               | (X) <sup>d</sup>            |                    |
| Biochemistry <sup>d</sup>                           | X                | (X) <sup>d</sup>  | (X) <sup>b</sup>             | X                                      | X              | X through<br>Cycle 3                   | X                     | X                               | (X) <sup>d</sup>            |                    |
| Urinalysis <sup>d</sup>                             | X                | (X) <sup>d</sup>  |                              |  |                |  | (X)                   | X                               | (X) <sup>d</sup>            |                    |
| Registration <sup>f</sup>                           | X                |                   |                              |  |                |  |                       |                                 |                             |                    |
| Other assessments                                   |                  |                   |                              |  |                |  |                       |                                 |                             |                    |
| 12-lead ECG <sup>g</sup>                            | X <sup>g</sup>   | (X) <sup>g</sup>  |                              | X <sup>g</sup>                         |                |  |                       | X <sup>g</sup>                  | (X) <sup>g</sup>            |                    |
| Disease assessment                                  | X                |                   |                              |  |                | X Standard<br>of care                  | X Standard<br>of care |                                 |                             |                    |
| Adverse events <sup>h</sup>                         | X                | X                 | X                            | X                                      | X              | X                                      | X                     | X                               | X                           |                    |
| Concomitant medications/<br>treatments <sup>i</sup> | X                | X                 | X                            | X                                      | X              | X                                      | X                     | X                               | X                           |                    |
| Study treatment                                     |                  | X→                | →                            | →X                                     | X→             | →X                                     | →X                    |                                 |                             |                    |
| Study drug compliance                               |                  |                   |                              | X                                      |                | X                                      | X                     | X                               |                             |                    |
| Post study survival status <sup>j</sup>             |                  |                   |                              |  |                |  |                       |                                 |                             | X                  |

(X) - if applicable; X→ - start and continue treatment → - continue treatment →X - stop treatment.

ECG = Electrocardiogram GIST = Gastrointestinal stromal tumor; IEC = independent ethics committee; IRB = institutional review board; QTc = Corrected QT (interval); screen = screening.

**Table 1. Schedule of Events**

|    |  |
|----|--|
| a. | Approximately 28 days post the last dose of study treatment.   |
| b. | This visit could be handled by telephone contact unless otherwise required on a country basis (eg, France). If a site visit was performed, hematology and biochemistry were performed.   |
| c. | Including ineligibility for other sunitinib Protocols: If any Phase 1, 2 or 3 sunitinib protocols for subjects having GIST were open to enrollment at the institution, subjects had to be declared ineligible before being considered for participation in this study.   |
| d. | Physical examination at Day 1, Cycle 1 was not required if done within the 45-day screening period.<br>Hematology/biochemistry/urinalysis was not required at Day 1, Cycle 1 if this was done within 7 days of Day 1. Both were to be performed at the post-treatment assessment if withdrawal was due to toxicity. Dipstick for, protein, glucose, ketones, blood and leukocyte at Screening, then as clinically indicated thereafter. Dipstick protein urinalysis at Screening, Day 1 of Cycle 2, as clinically indicated and at the end of treatment. If the results of the dipstick test indicated a $\geq 2+$ proteinuria, then follow-up was to be performed with a quantitative urine protein analysis according to local standard practices. |
| e. | Performed within 21 days prior to the first dose of sunitinib for women of reproductive potential. Pregnancy tests may also have been repeated as per request of IEC/IRBs or if required by local regulations, eg, Austria.  |
| f. | Subject number and registration approval were obtained by faxing a completed eligibility-screening checklist to the Sponsor or designee. Subjects were to be registered within 7 days of Day 1, Cycle 1.   |
| g. | Three (3) 12-lead ECGs were performed 2 minutes apart to determine the mean QTc interval. The ECGs were performed at the same time of the day (eg, – morning) and time matched ( $\pm 1$ hour). If the mean QTc was prolonged ( $>500$ msec), then the ECGs were read by a Cardiologist at the clinical site for confirmation. ECGs had to be completed at the time of discontinuation of study treatment. Additional ECGs were performed as clinically indicated, including 2 weeks following intrasubject sunitinib dose adjustments.  |
| h. | Subjects were followed for adverse events during the study until at least 28 days after the last dose of sunitinib or until all serious or study drug-related toxicities resolved or were determined to be “chronic” or “stable”, whichever was later. Serious adverse events were monitored and reported from the time that the subject provided informed consent. The assessment scheduled for the middle of the first cycle could have been accomplished through telephone contact unless otherwise required on a country basis (eg, France).   |
| i. | Concomitant medications and treatments were recorded from 28 days before the start of study treatment, during the study, and up to 28 days after the last dose of study treatment.   |
| j. | Follow-up survival information was collected by clinic visit or telephone contact every 2 months for up to 2 years from the date of last dose of sunitinib.  |

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**Number of Subjects (Planned and Analyzed):** Due to the nature of the study the number of subjects to be enrolled was not predetermined; up to 1500 subjects could have been enrolled. A total of 1131 subjects were actually enrolled in the study; of these subjects, 1124 (99.4%) received at least 1 dose of sunitinib and qualified for the intent to treat (ITT) population.

**Diagnosis and Main Criteria for Inclusion:** Male or female subjects 18 years of age with histopathologically proven malignant GIST that was not amenable to standard therapy with curative intent, had undergone screening, and were found to be ineligible for participation in ongoing sunitinib clinical studies. Subjects judged to have potential to derive clinical benefit from sunitinib treatment by the treating Physician; or failed prior treatment with imatinib mesylate, defined as either progression of disease or significant toxicity during treatment with imatinib mesylate that precluded further treatment; with resolution of all acute toxicities of prior therapies and with adequate organ function as defined for the study.

Exclusion Criteria: Subjects with symptomatic congestive heart failure, myocardial infarction, or coronary artery bypass graft in the last 6 months, ongoing severe or unstable angina or any unstable arrhythmia requiring medication. Subjects with symptomatic central nervous system metastases; serious acute or chronic illness; current treatment on another clinical trial; pregnant or breastfeeding.

**Study Treatment:** Sunitinib was provided in hard gelatin capsules in 12.5, 25, and 50 mg dose strengths. Bottles containing 30 capsules with the correct capsule strength were dispensed to the subject at the start of each treatment cycle.

Sunitinib was self-administered orally on Schedule 4/2 (4 weeks of daily dosing followed by 2 weeks off-treatment in repeated 6 week cycles). The starting dose was to be 50 mg daily. However, if there was evidence of tumor growth or if the subject's clinical condition worsened during the 2 weeks off sunitinib, the Investigator could change the subject's dosing regimen schedule to continuous daily dosing (CDD). Cycles changed from 6 to 4 weeks in duration on the CDD regimen. For subjects on the CDD regimen, the typical starting dose was 37.5 mg once daily. The initial starting dose could be modified within a pre-specified range based on the subject's prior experience on Schedule 4/2. The sunitinib dose was titrated on an individual basis depending on tolerability. Subjects experiencing only Grade  $\leq 1$  non-hematologic or Grade  $\leq 2$  hematologic toxicity attributed to sunitinib within the first 8 weeks of treatment at 37.5 mg daily dose could escalate to 50 mg daily.

### **Efficacy Endpoints:**

The primary objective was to provide access to sunitinib treatment for subjects with GIST without formal hypothesis testing. In addition, the following clinical endpoints were evaluated:

- Safety profile of sunitinib.
- Overall Survival (OS).

- Time to tumor progression (TTP).
- Objective response rate (ORR).

**Safety Evaluations:** Safety evaluations included adverse events (AEs) (from the first day of treatment to 28 days after the last dose of study drug); clinical laboratory tests (hematology and serum chemistry); electrocardiogram; vital signs; and eastern cooperative oncology group performance status. Also, a serum or urine pregnancy test, for females of child-bearing potential, was performed at Screening and thereafter as required by local national guidelines or institutional review board/independent ethics committee request.

**Statistical Methods:** Due to the nature of this study, no inferential analyses were planned, and no hypotheses were tested. However, objective response (per Investigator assessment), TTP, and OS were assessed. The study population for all analyses was defined as all subjects enrolled in the study who received at least 1 dose of study medication (ITT population). The data set for safety analysis was the safety population, which also included all subjects who enrolled in the study and received at least 1 dose of study medication. The ITT and safety populations were identical.

The ORR was defined as the number and percent of subjects with a confirmed response (complete or partial response) according to Response Evaluation Criteria in Solid Tumors and was provided along with the corresponding exact 95% 2-sided confidence interval (CI) using standard methods based on the binomial distribution.

Estimates of TTP and OS from the Kaplan-Meier product limit algorithm were presented. This algorithm was applied to derive the median event time and a CI for the median. The CI was 2-sided, had a stated coverage probability of 95%, and was calculated using normal approximation methods for fixed sample, single-stage design. If the number of events was small, thereby limiting use of the Kaplan-Meier method to provide reliable information, then descriptive statistics or listings were planned. Summaries of TTP and OS were presented in months overall.

## RESULTS

**Subject Disposition and Demography:** A total of 1131 subjects were enrolled in the study; of these subjects, 1124 (99.4%) received at least 1 dose of sunitinib and qualified for the ITT population.

All 1124 ITT subjects discontinued treatment; 719 subjects (64.0%) discontinued because of lack of efficacy (disease progression), 186 (16.5%) withdrew consent, 169 subjects (15.0%) discontinued because of AEs (based on the end-of-study report form), 23 subjects (2.0%) discontinued at the Sponsor's discretion, 12 subjects (1.1%) completed treatment as allowed by the protocol, 8 subjects (0.7%) discontinued because of protocol deviations, and 7 subjects (0.6%) were lost to follow-up.

Most subjects in the ITT population were White (858 subjects, 76.3%) and 452 subjects (40.2%) were female. Eight (8) subjects were <18 years old (ages 16 [4 subjects] and 10, 11, 14, and 17 [each 1 subject] years). Demography is presented in [Table 2](#).

**Table 2. Summary of Demographic and Baseline Characteristics (ITT Population)**

| Variable            | Sunitinib<br>(N=1124) |
|---------------------|-----------------------|
| Age (years)         |                       |
| Mean (Std)          | 57.9 (13.79)          |
| Median              | 59                    |
| (Min,Max)           | (10, 92)              |
| Age (years) [n (%)] |                       |
| <59 years           | 553 (49.2)            |
| ≥59 years           | 571 (50.8)            |
| Sex [n (%)]         |                       |
| Male                | 672 (59.8)            |
| Female              | 452 (40.2)            |
| ECOG [n (%)]        |                       |
| 0                   | 420 (37.4)            |
| 1                   | 521 (46.4)            |
| 2                   | 135 (12.0)            |
| 3                   | 33 (2.9)              |
| 4                   | 5 (0.4)               |
| Missing             | 10 (0.9)              |

% = (n/N)\*100.

ECOG = eastern cooperative oncology group; ITT = intent-to-treat; Max = maximum; Min = minimum;  
N = number of subjects; n = number of subjects with pre-specified criteria; Std = standard.

### **Efficacy Results:**

**Objective Response Rate:** In the analysis of ORR, 88 subjects had a confirmed tumor response (complete response [CR] or partial response [PR]); the overall ORR was 7.8%, with a 95% CI of 6.3% to 9.6%. Six hundred thirty-nine (639) subjects (56.9% overall) had a best response of stable disease (SD). Overall, 509 subjects (45.3%) remained on study with SD or better for more than 6 months. ORR is presented in [Table 3](#).

**Table 3. Summary of Best Overall Tumor Response (ITT Population<sup>a</sup>)**

| Variable   | Sunitinib<br>(N=1124) |
|--|-----------------------|
| Best overall tumor response (n [%]) <sup>a</sup>                     |                       |
| Complete response  | 10 (0.9)              |
| Partial response   | 78 (6.9)              |
| Stable disease   | 639 (56.9)            |
| Progressive disease  | 237 (21.1)            |
| Not evaluable  | 2 (0.2)               |
| Missing  | 158 (14.1)            |
| Overall confirmed objective response (CR + PR) (n [%])               | 88 (7.8)              |
| 95% Exact CI (%) <sup>b</sup>  | (6.3, 9.6)            |
| Duration of clinical benefit response rate (CR, PR, SD) <sup>c</sup> |                       |
| ≤6 Months  | 218 (19.4)            |
| >6 Months  | 509 (45.3)            |

% = (n/N)\*100.

CI = confidence interval; CR = complete response; ITT = intent-to-treat; PR = partial response; n = number of subjects with specified criteria; N = total number of subjects; SD = stable disease.

- Only tumor assessment data on or before the last dose of study drug + 28 days were included in the analysis of best overall tumor response.
- Using exact method based on binomial distribution.
- For subjects whose best overall tumor response was CR, PR or SD.

#### Time to Tumor Progression and Overall Survival:

Results for TTP and OS are summarized in [Table 4](#).

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**Table 4. Summary of Primary Time-to-Event Analyses (Months; ITT Population)**

| Variable                           | Total<br>(N=1124) |
|------------------------------------|-------------------|
| Time to tumor progression          |                   |
| Subject progression status [n (%)] |                   |
| Progression <sup>a</sup>           | 420 (37.4)        |
| No progression <sup>a</sup>        | 704 (62.6)        |
| Time to tumor progression (months) |                   |
| Percentile (95% CI) <sup>b</sup>   |                   |
| 25%                                | 3.6 (2.8, 4.4)    |
| 50% (Median)                       | 8.3 (8.0, 9.4)    |
| 75%                                | 18.9 (16.4, 20.4) |
| Overall survival                   |                   |
| Subject survival status [n (%)]    |                   |
| Alive                              | 404 (35.9)        |
| Dead                               | 720 (64.1)        |
| Survival time (Months)             |                   |
| Percentile (95% CI) <sup>b</sup>   |                   |
| 25%                                | 7.2 (6.4, 8.1)    |
| 50% (Median)                       | 16.6 (14.9, 18.0) |
| 75%                                | 36.3 (32.1, 46.8) |

% = (n/N)\*100, Month was calculated as days/30.4375.

CI = confidence interval; ITT = intent-to-treat; N = number of subject; n = number of subjects with prespecified criteria.

- a. Subjects who were not known to have progressive disease within 28 days of their last dose of sunitinib were censored on the date they were last known to be without disease progression.
- b. Kaplan-Meier estimates.

**Safety Results:** Table 5 is an overall summary of non-serious AEs experienced by ≥5% subjects.

**Table 5. Summary of Non-Serious Adverse Events Experienced by  $\geq 5\%$  of Subjects by MedDRA System Organ Class and Preferred Term (ITT Population)**

| System Organ Class<br>Preferred Term                 | Sunitinib<br>(N=1124)  |                  |
|--|------------------------|------------------|
|  | Number (%) of Subjects | Number of Events |
| Any non-serious AEs $\geq 5\%$                       | 1073 (95.5)            | 22165            |
| Blood and lymphatic system disorders                 | 479 (42.6)             | 2853             |
| Anaemia  | 259 (23.0)             | 715              |
| Leukopenia   | 145 (12.9)             | 512              |
| Neutropenia  | 209 (18.6)             | 870              |
| Thrombocytopenia                                     | 219 (19.5)             | 756              |
| Endocrine disorders                                  | 158 (14.1)             | 200              |
| Hypothyroidism                                       | 158 (14.1)             | 200              |
| Gastrointestinal disorders                           | 911 (81.0)             | 6809             |
| Abdominal distension                                 | 130 (11.6)             | 207              |
| Abdominal pain                                       | 396 (35.2)             | 706              |
| Abdominal pain upper                                 | 158 (14.1)             | 303              |
| Constipation   | 253 (22.5)             | 428              |
| Diarrhoea  | 532 (47.3)             | 1721             |
| Dry mouth  | 95 (8.5)               | 157              |
| Dyspepsia  | 204 (18.1)             | 345              |
| Flatulence   | 81 (7.2)               | 127              |
| Gastrooesophageal reflux disease                     | 81 (7.2)               | 140              |
| Nausea   | 402 (35.8)             | 931              |
| Oral pain  | 101 (9.0)              | 227              |
| Stomatitis   | 264 (23.5)             | 757              |
| Vomiting   | 348 (31.0)             | 760              |
| General disorders and administration site conditions | 850 (75.6)             | 3508             |
| Asthenia   | 182 (16.2)             | 460              |
| Chest pain   | 57 (5.1)               | 80               |
| Fatigue  | 549 (48.8)             | 1493             |
| Mucosal inflammation                                 | 263 (23.4)             | 608              |
| Oedema   | 61 (5.4)               | 75               |
| Oedema peripheral                                    | 232 (20.6)             | 386              |
| Pain   | 79 (7.0)               | 108              |
| Pyrexia  | 203 (18.1)             | 298              |
| Infections and infestations                          | 127 (11.3)             | 178              |
| Nasopharyngitis                                      | 65 (5.8)               | 94               |
| Urinary tract infection                              | 65 (5.8)               | 84               |
| Investigations                                       | 90 (8.0)               | 107              |
| Weight decreased                                     | 90 (8.0)               | 107              |
| Metabolism and nutrition disorders                   | 435 (38.7)             | 932              |
| Decreased appetite                                   | 397 (35.3)             | 851              |
| Hypokalaemia   | 62 (5.5)               | 81               |
| Musculoskeletal and connective tissue disorders      | 427 (38.0)             | 1283             |
| Arthralgia   | 118 (10.5)             | 226              |
| Back pain  | 157 (14.0)             | 273              |
| Muscle spasms  | 73 (6.5)               | 113              |
| Musculoskeletal pain                                 | 75 (6.7)               | 94               |
| Myalgia  | 94 (8.4)               | 183              |
| Pain in extremity                                    | 186 (16.5)             | 394              |
| Nervous system disorders                             | 407 (36.2)             | 1051             |
| Dizziness  | 119 (10.6)             | 195              |

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**Table 5. Summary of Non-Serious Adverse Events Experienced by ≥5% of Subjects by MedDRA System Organ Class and Preferred Term (ITT Population)**

| System Organ Class<br>Preferred Term            | Sunitinib<br>(N=1124)  |                  |
|---|------------------------|------------------|
|   | Number (%) of Subjects | Number of Events |
| Dysgeusia                                       | 186 (16.5)             | 379              |
| Headache  | 231 (20.6)             | 477              |
| Psychiatric disorders                           | 120 (10.7)             | 177              |
| Insomnia  | 120 (10.7)             | 177              |
| Respiratory, thoracic and mediastinal disorders | 361 (32.1)             | 706              |
| Cough   | 155 (13.8)             | 229              |
| Dyspnoea  | 148 (13.2)             | 195              |
| Epistaxis                                       | 111 (9.9)              | 174              |
| Oropharyngeal pain                              | 71 (6.3)               | 108              |
| Skin and subcutaneous tissue disorders          | 689 (61.3)             | 3767             |
| Alopecia  | 88 (7.8)               | 103              |
| Dry skin  | 95 (8.5)               | 130              |
| Erythema  | 63 (5.6)               | 138              |
| Hair colour changes                             | 111 (9.9)              | 152              |
| Palmar-plantar erythrodysesthesia syndrome      | 362 (32.2)             | 1955             |
| Pruritus  | 68 (6.0)               | 96               |
| Rash  | 196 (17.4)             | 554              |
| Skin discolouration                             | 176 (15.7)             | 314              |
| Skin exfoliation                                | 61 (5.4)               | 92               |
| Yellow skin                                     | 127 (11.3)             | 233              |
| Vascular disorders                              | 321 (28.6)             | 594              |
| Hypertension                                    | 321 (28.6)             | 594              |

AEs are coded using MedDRA version 14.1.

% = (n/N)\*100.

AE = adverse events; MedDRA = medical dictionary for regulatory activities; N = total number of subjects;  
n = number of subjects with specified event.

Treatment-related AEs experienced by ≥5% subjects are summarized in [Table 6](#).

**Table 6. Treatment-Emergent Treatment-Related Adverse Events Experienced by ≥5% Subjects (ITT Population)**

| MedDRA Preferred Term                      | Sunitinib<br>(N=1124) |
|--|-----------------------|
| Any treatment-related AEs                  | 1030 (91.6)           |
| Fatigue                                    | 477 (42.4)            |
| Diarrhoea                                  | 454 (40.4)            |
| Palmar-plantar erythrodysesthesia syndrome | 363 (32.3)            |
| Nausea                                     | 327 (29.1)            |
| Decreased appetite                         | 302 (26.9)            |
| Hypertension                               | 288 (25.6)            |
| Stomatitis                                 | 258 (23.0)            |
| Mucosal inflammation                       | 258 (23.0)            |
| Vomiting                                   | 247 (22.0)            |
| Thrombocytopenia                           | 223 (19.8)            |
| Neutropenia                                | 212 (18.9)            |
| Anaemia                                    | 181 (16.1)            |
| Dysgeusia                                  | 180 (16.0)            |
| Rash                                       | 175 (15.6)            |
| Skin discoloration                         | 173 (15.4)            |
| Dyspepsia                                  | 145 (12.9)            |
| Hypothyroidism                             | 143 (12.7)            |
| Leukopenia                                 | 138 (12.3)            |
| Oedema peripheral                          | 135 (12.0)            |
| Asthenia                                   | 131 (11.7)            |
| Yellow skin                                | 125 (11.1)            |
| Headache                                   | 123 (10.9)            |
| Pain in extremity                          | 121 (10.8)            |
| Hair color changes                         | 109 (9.7)             |
| Abdominal pain                             | 107 (9.5)             |
| Constipation                               | 104 (9.3)             |
| Oral pain                                  | 96 (8.5)              |
| Dry skin                                   | 82 (7.3)              |
| Alopecia                                   | 81 (7.2)              |
| Epistaxis                                  | 80 (7.1)              |
| Dry mouth                                  | 78 (6.9)              |
| Abdominal pain upper                       | 67 (6.0)              |
| Myalgia                                    | 65 (5.8)              |
| Arthralgia                                 | 63 (5.6)              |
| Skin exfoliation                           | 58 (5.2)              |

AEs were coded using MedDRA version 14.1.

Non SAE/SAE results are not separated out.

AE = adverse events; MedDRA = medical dictionary for regulatory activities; N = total number of subjects;

SAE = serious adverse event.

All serious adverse events (SAEs) are summarized in [Table 7](#). Six hundred one (601) subjects (53.5%) experienced SAEs.

**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term  | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|--|--|--|
| Any SAEs                                     | 601 (53.5)                                   | 1669                                   |
| Blood and lymphatic system disorders         | 85 (7.6)                                     | 121                                    |
| Anaemia                                      | 49 (4.4)                                     | 66                                     |
| Thrombocytopenia                             | 22 (2.0)                                     | 27                                     |
| Neutropenia                                  | 11 (1.0)                                     | 13                                     |
| Febrile neutropenia                          | 3 (0.3)                                      | 3                                      |
| Pancytopenia                                 | 3 (0.3)                                      | 3                                      |
| Disseminated intravascular coagulation       | 2 (0.2)                                      | 2                                      |
| Leukopenia                                   | 2 (0.2)                                      | 2                                      |
| Bone marrow failure                          | 1 (0.1)                                      | 1                                      |
| Coagulopathy                                 | 1 (0.1)                                      | 1                                      |
| Haemolysis                                   | 1 (0.1)                                      | 1                                      |
| Haemolytic anaemia                           | 1 (0.1)                                      | 1                                      |
| Lymphopenia                                  | 1 (0.1)                                      | 1                                      |
| Cardiac disorders                            | 41 (3.6)                                     | 49                                     |
| Myocardial infarction                        | 9 (0.8)                                      | 9                                      |
| Cardiac failure                              | 6 (0.5)                                      | 8                                      |
| Cardiac failure congestive                   | 6 (0.5)                                      | 6                                      |
| Cardio—respiratory arrest                    | 4 (0.4)                                      | 4                                      |
| Cardiac arrest                               | 3 (0.3)                                      | 3                                      |
| Acute coronary syndrome                      | 2 (0.2)                                      | 2                                      |
| Atrial fibrillation                          | 2 (0.2)                                      | 2                                      |
| Myocardial ischaemia                         | 2 (0.2)                                      | 2                                      |
| Ventricular tachycardia                      | 2 (0.2)                                      | 2                                      |
| Arrhythmia                                   | 1 (0.1)                                      | 1                                      |
| Arrhythmia supraventricular                  | 1 (0.1)                                      | 1                                      |
| Atrial flutter                               | 1 (0.1)                                      | 1                                      |
| Atrioventricular block                       | 1 (0.1)                                      | 1                                      |
| Atrioventricular block complete              | 1 (0.1)                                      | 1                                      |
| Cardiac failure acute                        | 1 (0.1)                                      | 1                                      |
| Cardiogenic shock                            | 1 (0.1)                                      | 1                                      |
| Congestive cardiomyopathy                    | 1 (0.1)                                      | 1                                      |
| Intracardiac thrombus                        | 1 (0.1)                                      | 1                                      |
| Left ventricular dysfunction                 | 1 (0.1)                                      | 1                                      |
| Ventricular arrhythmia                       | 1 (0.1)                                      | 1                                      |
| Ear and labyrinth disorders                  | 3 (0.3)                                      | 3                                      |
| Vertigo                                      | 3 (0.3)                                      | 3                                      |
| Endocrine disorders                          | 8 (0.7)                                      | 9                                      |
| Hypothyroidism                               | 6 (0.5)                                      | 7                                      |
| Inappropriate antidiuretic hormone secretion | 1 (0.1)                                      | 1                                      |
| Myxoedema                                    | 1 (0.1)                                      | 1                                      |
| Eye disorders                                | 1 (0.1)                                      | 2                                      |
| Eye haemorrhage                              | 1 (0.1)                                      | 1                                      |
| Eye pain                                     | 1 (0.1)                                      | 1                                      |
| Gastrointestinal disorders                   | 262 (23.3)                                   | 442                                    |
| Abdominal pain                               | 67 (6.0)                                     | 80                                     |
| Vomiting                                     | 49 (4.4)                                     | 53                                     |
| Nausea                                       | 32 (2.8)                                     | 35                                     |
| Gastrointestinal haemorrhage                 | 24 (2.1)                                     | 28                                     |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|---|--|--|
| Intestinal obstruction                      | 23 (2.0)                                     | 24                                     |
| Ascites                                     | 22 (2.0)                                     | 35                                     |
| Diarrhoea                                   | 21 (1.9)                                     | 22                                     |
| Constipation                                | 13 (1.2)                                     | 14                                     |
| Abdominal distension                        | 11 (1.0)                                     | 12                                     |
| Abdominal pain upper                        | 10 (0.9)                                     | 11                                     |
| Rectal haemorrhage                          | 9 (0.8)                                      | 10                                     |
| Haematemesis                                | 8 (0.7)                                      | 8                                      |
| Small intestinal obstruction                | 8 (0.7)                                      | 8                                      |
| Melaena                                     | 7 (0.6)                                      | 8                                      |
| Ileus                                       | 5 (0.4)                                      | 6                                      |
| Upper gastrointestinal haemorrhage          | 5 (0.4)                                      | 6                                      |
| Dysphagia                                   | 4 (0.4)                                      | 4                                      |
| Gastritis                                   | 4 (0.4)                                      | 4                                      |
| Haematochezia                               | 4 (0.4)                                      | 4                                      |
| Peritoneal haemorrhage                      | 4 (0.4)                                      | 4                                      |
| Subileus                                    | 4 (0.4)                                      | 4                                      |
| Enterocutaneous fistula                     | 3 (0.3)                                      | 5                                      |
| Gastric haemorrhage                         | 3 (0.3)                                      | 3                                      |
| Gastric ulcer                               | 3 (0.3)                                      | 3                                      |
| Gastroesophageal reflux disease             | 3 (0.3)                                      | 3                                      |
| Lower gastrointestinal haemorrhage          | 3 (0.3)                                      | 3                                      |
| Obstruction gastric                         | 3 (0.3)                                      | 3                                      |
| Pancreatitis acute                          | 3 (0.3)                                      | 4                                      |
| Stomatitis                                  | 3 (0.3)                                      | 3                                      |
| Anal fissure                                | 2 (0.2)                                      | 2                                      |
| Duodenal ulcer                              | 2 (0.2)                                      | 2                                      |
| Gastric ulcer haemorrhage                   | 2 (0.2)                                      | 2                                      |
| Gastrointestinal fistula                    | 2 (0.2)                                      | 2                                      |
| Intestinal perforation                      | 2 (0.2)                                      | 3                                      |
| Oesophagitis                                | 2 (0.2)                                      | 2                                      |
| Pancreatitis                                | 2 (0.2)                                      | 2                                      |
| Small intestinal perforation                | 2 (0.2)                                      | 2                                      |
| Abdominal pain lower                        | 1 (0.1)                                      | 1                                      |
| Anal fistula                                | 1 (0.1)                                      | 1                                      |
| Duodenal perforation                        | 1 (0.1)                                      | 1                                      |
| Duodenal ulcer perforation                  | 1 (0.1)                                      | 1                                      |
| Enteritis                                   | 1 (0.1)                                      | 1                                      |
| Faecaloma                                   | 1 (0.1)                                      | 1                                      |
| Faeces discoloured                          | 1 (0.1)                                      | 1                                      |
| Haemorrhagic ascites                        | 1 (0.1)                                      | 1                                      |
| Haemorrhoidal haemorrhage                   | 1 (0.1)                                      | 1                                      |
| Ileal fistula                               | 1 (0.1)                                      | 1                                      |
| Impaired gastric emptying                   | 1 (0.1)                                      | 1                                      |
| Intestinal fistula                          | 1 (0.1)                                      | 3                                      |
| Intestinal ischaemia                        | 1 (0.1)                                      | 1                                      |
| Large intestine perforation                 | 1 (0.1)                                      | 1                                      |
| Malabsorption                               | 1 (0.1)                                      | 1                                      |
| Oesophageal ulcer                           | 1 (0.1)                                      | 1                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term          | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|--|--|--|
| General disorders and administration site conditions | 254 (22.6)                                   | 299                                    |
| Disease progression                                  | 158 (14.1)                                   | 158                                    |
| Pyrexia  | 40 (3.6)                                     | 48                                     |
| Asthenia   | 17 (1.5)                                     | 20                                     |
| General physical health deterioration                | 14 (1.2)                                     | 16                                     |
| Fatigue  | 13 (1.2)                                     | 13                                     |
| Chest pain   | 11 (1.0)                                     | 11                                     |
| Oedema peripheral                                    | 8 (0.7)                                      | 8                                      |
| Generalised oedema                                   | 3 (0.3)                                      | 3                                      |
| Pain   | 3 (0.3)                                      | 3                                      |
| Mucosal inflammation                                 | 2 (0.2)                                      | 2                                      |
| Multi-organ failure                                  | 2 (0.2)                                      | 3                                      |
| Performance status decreased                         | 2 (0.2)                                      | 2                                      |
| Adverse event  | 1 (0.1)                                      | 1                                      |
| Chills   | 1 (0.1)                                      | 1                                      |
| Condition aggravated                                 | 1 (0.1)                                      | 1                                      |
| Death  | 1 (0.1)                                      | 1                                      |
| Device dislocation                                   | 1 (0.1)                                      | 1                                      |
| Face oedema  | 1 (0.1)                                      | 1                                      |
| Impaired healing                                     | 1 (0.1)                                      | 2                                      |
| Localised oedema                                     | 1 (0.1)                                      | 1                                      |
| Obstruction  | 1 (0.1)                                      | 1                                      |
| Sudden death   | 1 (0.1)                                      | 1                                      |
| Ulcer haemorrhage                                    | 1 (0.1)                                      | 1                                      |
| Hepatobiliary disorders                              | 29 (2.6)                                     | 32                                     |
| Hyperbilirubinaemia                                  | 5 (0.4)                                      | 5                                      |
| Jaundice   | 4 (0.4)                                      | 4                                      |
| Cholangitis  | 3 (0.3)                                      | 4                                      |
| Hepatic failure                                      | 3 (0.3)                                      | 3                                      |
| Cholecystitis  | 2 (0.2)                                      | 2                                      |
| Cholecystitis acute                                  | 2 (0.2)                                      | 2                                      |
| Cholelithiasis                                       | 2 (0.2)                                      | 2                                      |
| Hepatotoxicity                                       | 2 (0.2)                                      | 2                                      |
| Biliary fistula                                      | 1 (0.1)                                      | 1                                      |
| Cholangitis acute                                    | 1 (0.1)                                      | 1                                      |
| Hepatic function abnormal                            | 1 (0.1)                                      | 1                                      |
| Hepatitis  | 1 (0.1)                                      | 1                                      |
| Hepatorenal failure                                  | 1 (0.1)                                      | 1                                      |
| Ischaemic hepatitis                                  | 1 (0.1)                                      | 1                                      |
| Liver disorder                                       | 1 (0.1)                                      | 1                                      |
| Perihepatic discomfort                               | 1 (0.1)                                      | 1                                      |
| Immune system disorders                              | 1 (0.1)                                      | 1                                      |
| Hypersensitivity                                     | 1 (0.1)                                      | 1                                      |
| Infections and infestations                          | 124 (11.0)                                   | 166                                    |
| Pneumonia  | 21 (1.9)                                     | 22                                     |
| Sepsis   | 18 (1.6)                                     | 20                                     |
| Urinary tract infection                              | 10 (0.9)                                     | 13                                     |
| Abdominal abscess                                    | 7 (0.6)                                      | 7                                      |
| Septic shock   | 7 (0.6)                                      | 7                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|---|--|--|
| Infection                                   | 6 (0.5)                                      | 6                                      |
| Anal abscess                                | 5 (0.4)                                      | 5                                      |
| Bacteraemia                                 | 5 (0.4)                                      | 5                                      |
| Urosepsis                                   | 5 (0.4)                                      | 5                                      |
| Cellulitis                                  | 4 (0.4)                                      | 4                                      |
| Liver abscess                               | 4 (0.4)                                      | 5                                      |
| Abdominal wall abscess                      | 3 (0.3)                                      | 3                                      |
| Bacterial sepsis                            | 3 (0.3)                                      | 3                                      |
| Device related infection                    | 3 (0.3)                                      | 4                                      |
| Gastroenteritis                             | 3 (0.3)                                      | 3                                      |
| Infectious peritonitis                      | 3 (0.3)                                      | 3                                      |
| Respiratory tract infection                 | 3 (0.3)                                      | 4                                      |
| Biliary sepsis                              | 2 (0.2)                                      | 2                                      |
| Bronchopneumonia                            | 2 (0.2)                                      | 2                                      |
| Clostridium difficile colitis               | 2 (0.2)                                      | 2                                      |
| Staphylococcal infection                    | 2 (0.2)                                      | 2                                      |
| Abscess                                     | 1 (0.1)                                      | 2                                      |
| Abscess limb                                | 1 (0.1)                                      | 1                                      |
| Acarodermatitis                             | 1 (0.1)                                      | 1                                      |
| Acute tonsillitis                           | 1 (0.1)                                      | 1                                      |
| Blister infected                            | 1 (0.1)                                      | 1                                      |
| Bronchitis                                  | 1 (0.1)                                      | 1                                      |
| Bronchopulmonary aspergillosis              | 1 (0.1)                                      | 1                                      |
| Device related sepsis                       | 1 (0.1)                                      | 1                                      |
| Diabetic gangrene                           | 1 (0.1)                                      | 1                                      |
| Diarrhoea infectious                        | 1 (0.1)                                      | 1                                      |
| Ear infection                               | 1 (0.1)                                      | 1                                      |
| Endocarditis                                | 1 (0.1)                                      | 1                                      |
| Enterococcal infection                      | 1 (0.1)                                      | 1                                      |
| Erysipelas                                  | 1 (0.1)                                      | 1                                      |
| Escherichia bacteraemia                     | 1 (0.1)                                      | 1                                      |
| Escherichia sepsis                          | 1 (0.1)                                      | 1                                      |
| Haematoma infection                         | 1 (0.1)                                      | 1                                      |
| Hepatitis B                                 | 1 (0.1)                                      | 2                                      |
| Influenza                                   | 1 (0.1)                                      | 1                                      |
| Lobar pneumonia                             | 1 (0.1)                                      | 1                                      |
| Lower respiratory tract infection           | 1 (0.1)                                      | 1                                      |
| Lower respiratory tract infection bacterial | 1 (0.1)                                      | 1                                      |
| Lung abscess                                | 1 (0.1)                                      | 1                                      |
| Meningitis                                  | 1 (0.1)                                      | 1                                      |
| Meningitis listeria                         | 1 (0.1)                                      | 1                                      |
| Necrotising fasciitis                       | 1 (0.1)                                      | 2                                      |
| Neutropenic sepsis                          | 1 (0.1)                                      | 1                                      |
| Osteomyelitis                               | 1 (0.1)                                      | 1                                      |
| Peridiverticular abscess                    | 1 (0.1)                                      | 1                                      |
| Purulent discharge                          | 1 (0.1)                                      | 1                                      |
| Pyelonephritis                              | 1 (0.1)                                      | 1                                      |
| Pyonephrosis                                | 1 (0.1)                                      | 2                                      |
| Rectal abscess                              | 1 (0.1)                                      | 1                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term    | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|--|--|--|
| Sinobronchitis                                 | 1 (0.1)                                      | 1                                      |
| Subdiaphragmatic abscess                       | 1 (0.1)                                      | 1                                      |
| Injury, poisoning and procedural complications | 19 (1.7)                                     | 24                                     |
| Fall   | 6 (0.5)                                      | 6                                      |
| Cervical vertebral fracture                    | 2 (0.2)                                      | 2                                      |
| Post procedural haemorrhage                    | 2 (0.2)                                      | 2                                      |
| Transfusion reaction                           | 2 (0.2)                                      | 2                                      |
| Abdominal injury                               | 1 (0.1)                                      | 1                                      |
| Accidental overdose                            | 1 (0.1)                                      | 1                                      |
| Femur fracture                                 | 1 (0.1)                                      | 1                                      |
| Gastrointestinal stoma complication            | 1 (0.1)                                      | 2                                      |
| Incisional hernia                              | 1 (0.1)                                      | 1                                      |
| Lower limb fracture                            | 1 (0.1)                                      | 1                                      |
| Pelvic fracture                                | 1 (0.1)                                      | 1                                      |
| Post procedural discharge                      | 1 (0.1)                                      | 1                                      |
| Road traffic accident                          | 1 (0.1)                                      | 1                                      |
| Spinal compression fracture                    | 1 (0.1)                                      | 1                                      |
| Toxicity to various agents                     | 1 (0.1)                                      | 1                                      |
| Investigations                                 | 30 (2.7)                                     | 45                                     |
| Blood creatinine increased                     | 5 (0.4)                                      | 6                                      |
| Haemoglobin decreased                          | 5 (0.4)                                      | 6                                      |
| Ammonia increased                              | 3 (0.3)                                      | 3                                      |
| Aspartate aminotransferase increased           | 3 (0.3)                                      | 5                                      |
| Alanine aminotransferase increased             | 2 (0.2)                                      | 3                                      |
| General physical condition abnormal            | 2 (0.2)                                      | 2                                      |
| Transaminases increased                        | 2 (0.2)                                      | 3                                      |
| Aspiration bronchial                           | 1 (0.1)                                      | 1                                      |
| Blood bilirubin increased                      | 1 (0.1)                                      | 3                                      |
| Blood potassium increased                      | 1 (0.1)                                      | 1                                      |
| Blood urine present                            | 1 (0.1)                                      | 1                                      |
| C-reactive protein increased                   | 1 (0.1)                                      | 1                                      |
| Ejection fraction                              | 1 (0.1)                                      | 1                                      |
| Ejection fraction decreased                    | 1 (0.1)                                      | 1                                      |
| Electrocardiogram QT prolonged                 | 1 (0.1)                                      | 1                                      |
| Electrocardiogram ST-T segment abnormal        | 1 (0.1)                                      | 1                                      |
| Haemoglobin                                    | 1 (0.1)                                      | 1                                      |
| Heart rate irregular                           | 1 (0.1)                                      | 1                                      |
| International normalised ratio                 | 1 (0.1)                                      | 1                                      |
| Neutrophil count                               | 1 (0.1)                                      | 1                                      |
| Weight decreased                               | 1 (0.1)                                      | 1                                      |
| White blood cell count decreased               | 1 (0.1)                                      | 1                                      |
| Metabolism and nutrition disorders             | 64 (5.7)                                     | 79                                     |
| Dehydration                                    | 42 (3.7)                                     | 44                                     |
| Decreased appetite                             | 9 (0.8)                                      | 10                                     |
| Hypoglycaemia                                  | 4 (0.4)                                      | 5                                      |
| Hyperkalaemia                                  | 3 (0.3)                                      | 3                                      |
| Malnutrition                                   | 3 (0.3)                                      | 3                                      |
| Acidosis                                       | 2 (0.2)                                      | 2                                      |
| Hypercalcaemia                                 | 2 (0.2)                                      | 2                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term                    | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|--|--|--|
| Hyponatraemia  | 2 (0.2)                                      | 2                                      |
| Cachexia   | 1 (0.1)                                      | 1                                      |
| Electrolyte imbalance  | 1 (0.1)                                      | 1                                      |
| Enzyme abnormality   | 1 (0.1)                                      | 1                                      |
| Failure to thrive  | 1 (0.1)                                      | 1                                      |
| Hypokalaemia   | 1 (0.1)                                      | 1                                      |
| Hypophagia   | 1 (0.1)                                      | 1                                      |
| Ketoacidosis   | 1 (0.1)                                      | 2                                      |
| Musculoskeletal and connective tissue disorders                | 15 (1.3)                                     | 17                                     |
| Fistula  | 5 (0.4)                                      | 6                                      |
| Myalgia  | 2 (0.2)                                      | 2                                      |
| Neck pain  | 2 (0.2)                                      | 2                                      |
| Pain in extremity  | 2 (0.2)                                      | 2                                      |
| Back pain  | 1 (0.1)                                      | 1                                      |
| Hypercreatinemia   | 1 (0.1)                                      | 2                                      |
| Muscular weakness  | 1 (0.1)                                      | 1                                      |
| Rhabdomyolysis   | 1 (0.1)                                      | 1                                      |
| Neoplasms benign, malignant and unspecified (cysts and polyps) | 43 (3.8)                                     | 49                                     |
| Tumour haemorrhage   | 15 (1.3)                                     | 18                                     |
| Gastrointestinal stromal tumour                                | 12 (1.1)                                     | 12                                     |
| Infected neoplasm  | 2 (0.2)                                      | 2                                      |
| Tumour pain  | 2 (0.2)                                      | 4                                      |
| Cholesteatoma  | 1 (0.1)                                      | 1                                      |
| Gastrointestinal neoplasm                                      | 1 (0.1)                                      | 1                                      |
| Haemorrhagic tumour necrosis                                   | 1 (0.1)                                      | 1                                      |
| Hepatic neoplasm malignant                                     | 1 (0.1)                                      | 2                                      |
| Malignant ascites  | 1 (0.1)                                      | 1                                      |
| Malignant melanoma   | 1 (0.1)                                      | 1                                      |
| Metastases to liver  | 1 (0.1)                                      | 1                                      |
| Myelodysplastic syndrome                                       | 1 (0.1)                                      | 1                                      |
| Oncologic complication   | 1 (0.1)                                      | 1                                      |
| Pituitary tumour benign  | 1 (0.1)                                      | 1                                      |
| Tumour flare   | 1 (0.1)                                      | 1                                      |
| Tumour perforation   | 1 (0.1)                                      | 1                                      |
| Nervous system disorders                                       | 64 (5.7)                                     | 82                                     |
| Convulsion   | 8 (0.7)                                      | 10                                     |
| Headache   | 7 (0.6)                                      | 7                                      |
| Cerebrovascular accident                                       | 6 (0.5)                                      | 6                                      |
| Somnolence   | 5 (0.4)                                      | 5                                      |
| Syncope  | 5 (0.4)                                      | 6                                      |
| Coma   | 3 (0.3)                                      | 3                                      |
| Dizziness  | 3 (0.3)                                      | 3                                      |
| Encephalopathy   | 3 (0.3)                                      | 3                                      |
| Hemiparesis  | 3 (0.3)                                      | 3                                      |
| Hepatic encephalopathy   | 3 (0.3)                                      | 4                                      |
| Transient ischaemic attack                                     | 3 (0.3)                                      | 3                                      |
| Coma hepatic   | 2 (0.2)                                      | 2                                      |
| Epilepsy   | 2 (0.2)                                      | 2                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term  | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|--|--|--|
| Lethargy                                     | 2 (0.2)                                      | 2                                      |
| Posterior reversible encephalopathy syndrome | 2 (0.2)                                      | 3                                      |
| Spinal cord compression                      | 2 (0.2)                                      | 2                                      |
| Tremor                                       | 2 (0.2)                                      | 2                                      |
| Cerebral haemorrhage                         | 1 (0.1)                                      | 1                                      |
| Cerebral infarction                          | 1 (0.1)                                      | 1                                      |
| Dementia                                     | 1 (0.1)                                      | 1                                      |
| Depressed level of consciousness             | 1 (0.1)                                      | 1                                      |
| Disturbance in attention                     | 1 (0.1)                                      | 1                                      |
| Dyskinesia                                   | 1 (0.1)                                      | 1                                      |
| Embolic stroke                               | 1 (0.1)                                      | 1                                      |
| Grand mal convulsion                         | 1 (0.1)                                      | 1                                      |
| Guillain-Barre syndrome                      | 1 (0.1)                                      | 1                                      |
| Haemorrhage intracranial                     | 1 (0.1)                                      | 2                                      |
| Hypoaesthesia                                | 1 (0.1)                                      | 1                                      |
| Migraine                                     | 1 (0.1)                                      | 1                                      |
| Neurological symptom                         | 1 (0.1)                                      | 1                                      |
| Peripheral sensory neuropathy                | 1 (0.1)                                      | 1                                      |
| Subarachnoid haemorrhage                     | 1 (0.1)                                      | 1                                      |
| Psychiatric disorders                        | 22 (2.0)                                     | 28                                     |
| Confusional state                            | 8 (0.7)                                      | 10                                     |
| Mental status changes                        | 5 (0.4)                                      | 7                                      |
| Depression                                   | 3 (0.3)                                      | 3                                      |
| Abnormal behaviour                           | 1 (0.1)                                      | 1                                      |
| Alcohol abuse                                | 1 (0.1)                                      | 1                                      |
| Alcoholic psychosis                          | 1 (0.1)                                      | 1                                      |
| Delirium                                     | 1 (0.1)                                      | 1                                      |
| Disorientation                               | 1 (0.1)                                      | 1                                      |
| Hallucination                                | 1 (0.1)                                      | 1                                      |
| Mental disorder                              | 1 (0.1)                                      | 1                                      |
| Personality change                           | 1 (0.1)                                      | 1                                      |
| Renal and urinary disorders                  | 43 (3.8)                                     | 51                                     |
| Renal failure                                | 15 (1.3)                                     | 16                                     |
| Renal failure acute                          | 7 (0.6)                                      | 7                                      |
| Urinary retention                            | 6 (0.5)                                      | 6                                      |
| Azotaemia                                    | 4 (0.4)                                      | 4                                      |
| Haematuria                                   | 3 (0.3)                                      | 4                                      |
| Hydronephrosis                               | 3 (0.3)                                      | 4                                      |
| Nephrolithiasis                              | 2 (0.2)                                      | 3                                      |
| Calculus ureteric                            | 1 (0.1)                                      | 1                                      |
| Dysuria                                      | 1 (0.1)                                      | 1                                      |
| Renal impairment                             | 1 (0.1)                                      | 1                                      |
| Ureteric obstruction                         | 1 (0.1)                                      | 2                                      |
| Urinary bladder haemorrhage                  | 1 (0.1)                                      | 1                                      |
| Vesical fistula                              | 1 (0.1)                                      | 1                                      |
| Reproductive system and breast disorders     | 3 (0.3)                                      | 3                                      |
| Benign prostatic hyperplasia                 | 1 (0.1)                                      | 1                                      |
| Prostatic haemorrhage                        | 1 (0.1)                                      | 1                                      |
| Vaginal haemorrhage                          | 1 (0.1)                                      | 1                                      |

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term     | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|---|--|--|
| Respiratory, thoracic and mediastinal disorders | 71 (6.3)                                     | 87                                     |
| Dyspnoea  | 28 (2.5)                                     | 30                                     |
| Pleural effusion                                | 15 (1.3)                                     | 17                                     |
| Pulmonary embolism                              | 11 (1.0)                                     | 11                                     |
| Pneumothorax                                    | 7 (0.6)                                      | 8                                      |
| Respiratory failure                             | 7 (0.6)                                      | 7                                      |
| Pulmonary oedema                                | 3 (0.3)                                      | 3                                      |
| Epistaxis                                       | 2 (0.2)                                      | 2                                      |
| Acute respiratory failure                       | 1 (0.1)                                      | 1                                      |
| Cough   | 1 (0.1)                                      | 1                                      |
| Haemoptysis                                     | 1 (0.1)                                      | 1                                      |
| Haemothorax                                     | 1 (0.1)                                      | 1                                      |
| Hyperventilation                                | 1 (0.1)                                      | 1                                      |
| Laryngeal oedema                                | 1 (0.1)                                      | 1                                      |
| Lung disorder                                   | 1 (0.1)                                      | 1                                      |
| Non-cardiogenic pulmonary oedema                | 1 (0.1)                                      | 1                                      |
| Sputum discoloured                              | 1 (0.1)                                      | 1                                      |
| Skin and subcutaneous tissue disorders          | 12 (1.1)                                     | 17                                     |
| Palmar-plantar erythrodysesthesia syndrome      | 4 (0.4)                                      | 6                                      |
| Rash  | 4 (0.4)                                      | 4                                      |
| Skin ulcer                                      | 3 (0.3)                                      | 5                                      |
| Stevens—Johnson syndrome                        | 1 (0.1)                                      | 1                                      |
| Subcutaneous emphysema                          | 1 (0.1)                                      | 1                                      |
| Surgical and medical procedures                 | 4 (0.4)                                      | 4                                      |
| Abdominal operation                             | 1 (0.1)                                      | 1                                      |
| Elective surgery                                | 1 (0.1)                                      | 1                                      |
| Gastrectomy                                     | 1 (0.1)                                      | 1                                      |
| Gastrointestinal tube removal                   | 1 (0.1)                                      | 1                                      |
| Vascular disorders                              | 54 (4.8)                                     | 59                                     |
| Hypertension                                    | 17 (1.5)                                     | 19                                     |
| Deep vein thrombosis                            | 10 (0.9)                                     | 11                                     |
| Hypotension                                     | 7 (0.6)                                      | 7                                      |
| Haemorrhage                                     | 6 (0.5)                                      | 6                                      |
| Circulatory collapse                            | 3 (0.3)                                      | 3                                      |
| Embolism  | 2 (0.2)                                      | 2                                      |
| Hypertensive crisis                             | 1 (0.1)                                      | 1                                      |
| Lymphoedema                                     | 1 (0.1)                                      | 1                                      |
| Orthostatic hypotension                         | 1 (0.1)                                      | 1                                      |
| Peripheral arterial occlusive disease           | 1 (0.1)                                      | 1                                      |
| Peripheral ischaemia                            | 1 (0.1)                                      | 1                                      |
| Shock haemorrhagic                              | 1 (0.1)                                      | 1                                      |
| Thrombosis                                      | 1 (0.1)                                      | 1                                      |
| Varicose ulceration                             | 1 (0.1)                                      | 1                                      |
| Vascular compression                            | 1 (0.1)                                      | 1                                      |
| Vena cava thrombosis                            | 1 (0.1)                                      | 1                                      |
| Venous thrombosis limb                          | 1 (0.1)                                      | 1                                      |

% = (n/N)\*100.

Adverse events are coded using MedDRA version 14.1.

ITT = intent-to-treat; MedDRA = medical dictionary for regulatory activities; N = total number of subjects;

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**Table 7. Summary of Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term | Sunitinib (N=1124)<br>Number (%) of Subjects | Sunitinib (N=1124)<br>Number of Events |
|---|--|--|
|---|--|--|

n = number of subjects with specified event; SAE = serious adverse events.

Treatment-related SAEs are summarized in [Table 8](#). A total of 247 (22.0%) subjects experienced SAEs considered related to the study drug. The most common treatment-related SAEs were anemia and vomiting (each 24 subjects, 2.1%), thrombocytopenia (19 subjects, 1.7%), nausea (16 subjects, 1.4%), hypertension (15 subjects, 1.3%), abdominal pain, diarrhea, and dehydration (each 13 subjects, 1.2%), and asthenia (11 subjects, 1.0%).

**Table 8. Summary of Treatment-Related Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term | Sunitinib<br>(N=1124)  |                  |
|---|------------------------|------------------|
|   | Number (%) of Subjects | Number of Events |
| Any treatment-related SAEs                  | 247 (22.0)             | 491              |
| Blood and lymphatic system disorders        | 56 (5.0)               | 79               |
| Anemia                                      | 24 (2.1)               | 32               |
| Thrombocytopenia                            | 19 (1.7)               | 23               |
| Neutropenia                                 | 10 (0.9)               | 12               |
| Febrile neutropenia                         | 3 (0.3)                | 3                |
| Pancytopenia                                | 3 (0.3)                | 3                |
| Bone marrow failure                         | 1 (0.1)                | 1                |
| Coagulopathy                                | 1 (0.1)                | 1                |
| Disseminated intravascular coagulation      | 1 (0.1)                | 1                |
| Haemolysis                                  | 1 (0.1)                | 1                |
| Leukopenia                                  | 1 (0.1)                | 1                |
| Lymphopenia                                 | 1 (0.1)                | 1                |
| Cardiac disorders                           | 24 (2.1)               | 28               |
| Cardiac failure                             | 6 (0.5)                | 8                |
| Cardiac failure congestive                  | 6 (0.5)                | 6                |
| Myocardial infarction                       | 4 (0.4)                | 4                |
| Myocardial ischaemia                        | 2 (0.2)                | 2                |
| Atrial flutter                              | 1 (0.1)                | 1                |
| Cardiac arrest                              | 1 (0.1)                | 1                |
| Cardiac failure acute                       | 1 (0.1)                | 1                |
| Congestive cardiomyopathy                   | 1 (0.1)                | 1                |
| Intracardiac thrombus                       | 1 (0.1)                | 1                |
| Left ventricular dysfunction                | 1 (0.1)                | 1                |
| Ventricular arrhythmia                      | 1 (0.1)                | 1                |
| Ventricular tachycardia                     | 1 (0.1)                | 1                |
| Ear and labyrinth disorders                 | 2 (0.2)                | 2                |
| Vertigo                                     | 2 (0.2)                | 2                |
| Endocrine disorders                         | 7 (0.6)                | 8                |
| Hypothyroidism                              | 6 (0.5)                | 7                |
| Myxoedema                                   | 1 (0.1)                | 1                |
| Gastrointestinal disorders                  | 84 (7.5)               | 133              |
| Vomiting                                    | 24 (2.1)               | 27               |
| Nausea                                      | 16 (1.4)               | 18               |
| Abdominal pain                              | 13 (1.2)               | 13               |
| Diarrhoea                                   | 13 (1.2)               | 14               |
| Gastrointestinal haemorrhage                | 7 (0.6)                | 8                |
| Haematemesis                                | 5 (0.4)                | 5                |
| Ascites                                     | 4 (0.4)                | 6                |
| Melaena                                     | 4 (0.4)                | 5                |
| Rectal haemorrhage                          | 4 (0.4)                | 4                |
| Stomatitis                                  | 3 (0.3)                | 3                |
| Upper gastrointestinal haemorrhage          | 3 (0.3)                | 3                |
| Abdominal distension                        | 2 (0.2)                | 3                |
| Haematochezia                               | 2 (0.2)                | 2                |
| Intestinal obstruction                      | 2 (0.2)                | 2                |
| Pancreatitis acute                          | 2 (0.2)                | 3                |
| Peritoneal haemorrhage                      | 2 (0.2)                | 2                |
| Anal fissure                                | 1 (0.1)                | 1                |

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**Table 8. Summary of Treatment-Related Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term          | Sunitinib<br>(N=1124)  |                  |
|--|------------------------|------------------|
|  | Number (%) of Subjects | Number of Events |
| Anal fistula   | 1 (0.1)                | 1                |
| Constipation   | 1 (0.1)                | 1                |
| Duodenal ulcer                                       | 1 (0.1)                | 1                |
| Dysphagia  | 1 (0.1)                | 1                |
| Faeces discoloured                                   | 1 (0.1)                | 1                |
| Gastric haemorrhage                                  | 1 (0.1)                | 1                |
| Gastric ulcer  | 1 (0.1)                | 1                |
| Gastric ulcer haemorrhage                            | 1 (0.1)                | 1                |
| Gastritis  | 1 (0.1)                | 1                |
| Gastroesophageal reflux disease                      | 1 (0.1)                | 1                |
| Haemorrhagic ascites                                 | 1 (0.1)                | 1                |
| Intestinal perforation                               | 1 (0.1)                | 2                |
| Lower gastrointestinal haemorrhage                   | 1 (0.1)                | 1                |
| General disorders and administration site conditions | 39 (3.5)               | 44               |
| Asthenia   | 11 (1.0)               | 11               |
| Fatigue  | 10 (0.9)               | 10               |
| Pyrexia  | 5 (0.4)                | 6                |
| Chest pain   | 2 (0.2)                | 2                |
| Disease progression                                  | 2 (0.2)                | 2                |
| Mucosal inflammation                                 | 2 (0.2)                | 2                |
| Death  | 1 (0.1)                | 1                |
| Face oedema  | 1 (0.1)                | 1                |
| General physical health deterioration                | 1 (0.1)                | 1                |
| Generalised oedema                                   | 1 (0.1)                | 1                |
| Impaired healing                                     | 1 (0.1)                | 2                |
| Localised oedema                                     | 1 (0.1)                | 1                |
| Multi-organ failure                                  | 1 (0.1)                | 1                |
| Oedema peripheral                                    | 1 (0.1)                | 1                |
| Performance status decreased                         | 1 (0.1)                | 1                |
| Ulcer haemorrhage                                    | 1 (0.1)                | 1                |
| Hepatobiliary disorders                              | 8 (0.7)                | 8                |
| Hepatic failure                                      | 2 (0.2)                | 2                |
| Hepatotoxicity                                       | 2 (0.2)                | 2                |
| Hyperbilirubinaemia                                  | 2 (0.2)                | 2                |
| Jaundice   | 1 (0.1)                | 1                |
| Liver disorder                                       | 1 (0.1)                | 1                |
| Immune system disorders                              | 1 (0.1)                | 1                |
| Hypersensitivity                                     | 1 (0.1)                | 1                |
| Infections and infestations                          | 18 (1.6)               | 21               |
| Abdominal wall abscess                               | 2 (0.2)                | 2                |
| Cellulitis   | 2 (0.2)                | 2                |
| Infection  | 2 (0.2)                | 2                |
| Pneumonia  | 2 (0.2)                | 3                |
| Abdominal abscess                                    | 1 (0.1)                | 1                |
| Abscess  | 1 (0.1)                | 1                |
| Anal abscess   | 1 (0.1)                | 1                |
| Hepatitis B  | 1 (0.1)                | 2                |
| Liver abscess  | 1 (0.1)                | 1                |
| Neutropenic sepsis                                   | 1 (0.1)                | 1                |

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**Table 8. Summary of Treatment-Related Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term                         | Sunitinib<br>(N=1124)  |                  |
|---|------------------------|------------------|
|   | Number (%) of Subjects | Number of Events |
| Peridiverticular abscess  | 1 (0.1)                | 1                |
| Respiratory tract infection   | 1 (0.1)                | 1                |
| Sepsis  | 1 (0.1)                | 1                |
| Urinary tract infection   | 1 (0.1)                | 1                |
| Urosepsis   | 1 (0.1)                | 1                |
| Injury, poisoning and procedural complications                      | 1 (0.1)                | 1                |
| Fall  | 1 (0.1)                | 1                |
| Investigations  | 9 (0.8)                | 12               |
| Aspartate aminotransferase increased                                | 2 (0.2)                | 2                |
| Alanine aminotransferase increased                                  | 1 (0.1)                | 1                |
| Ammonia increased   | 1 (0.1)                | 1                |
| Blood potassium increased   | 1 (0.1)                | 1                |
| Ejection fraction   | 1 (0.1)                | 1                |
| Electrocardiogram QT prolonged                                      | 1 (0.1)                | 1                |
| Haemoglobin decreased   | 1 (0.1)                | 1                |
| Heart rate irregular  | 1 (0.1)                | 1                |
| International normalised ratio                                      | 1 (0.1)                | 1                |
| Neutrophil count  | 1 (0.1)                | 1                |
| White blood cell count decreased                                    | 1 (0.1)                | 1                |
| Metabolism and nutrition disorders                                  | 21 (1.9)               | 25               |
| Dehydration   | 13 (1.2)               | 13               |
| Decreased appetite  | 5 (0.4)                | 6                |
| Hyperkalaemia   | 2 (0.2)                | 2                |
| Hypoglycaemia   | 2 (0.2)                | 2                |
| Enzyme abnormality  | 1 (0.1)                | 1                |
| Hypophagia  | 1 (0.1)                | 1                |
| Musculoskeletal and connective tissue disorders                     | 4 (0.4)                | 5                |
| Hypercreatininaemia   | 1 (0.1)                | 2                |
| Myalgia   | 1 (0.1)                | 1                |
| Pain in extremity   | 1 (0.1)                | 1                |
| Rhabdomyolysis  | 1 (0.1)                | 1                |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | 7 (0.6)                | 8                |
| Tumour haemorrhage  | 5 (0.4)                | 6                |
| Haemorrhagic tumour necrosis  | 1 (0.1)                | 1                |
| Myelodysplastic syndrome  | 1 (0.1)                | 1                |
| Nervous system disorders  | 28 (2.5)               | 37               |
| Headache  | 6 (0.5)                | 6                |
| Convulsion  | 5 (0.4)                | 6                |
| Syncope   | 3 (0.3)                | 3                |
| Cerebrovascular accident  | 2 (0.2)                | 2                |
| Hemiparesis   | 2 (0.2)                | 2                |
| Cerebral infarction   | 1 (0.1)                | 1                |
| Depressed level of consciousness                                    | 1 (0.1)                | 1                |
| Dizziness   | 1 (0.1)                | 1                |
| Embolic stroke  | 1 (0.1)                | 1                |
| Encephalopathy  | 1 (0.1)                | 1                |
| Epilepsy  | 1 (0.1)                | 1                |
| Guillain—Barre syndrome   | 1 (0.1)                | 1                |

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**Table 8. Summary of Treatment-Related Serious Adverse Events by MedDRA System Organ Class and Preferred Term (ITT Population)**

| MedDRA System Organ Class<br>Preferred Term     | Sunitinib<br>(N=1124)  |                  |
|---|------------------------|------------------|
|   | Number (%) of Subjects | Number of Events |
| Hemorrhage intracranial                         | 1 (0.1)                | 2                |
| Hepatic encephalopathy                          | 1 (0.1)                | 1                |
| Hypoesthesia                                    | 1 (0.1)                | 1                |
| Lethargy  | 1 (0.1)                | 1                |
| Neurological symptom                            | 1 (0.1)                | 1                |
| Posterior reversible encephalopathy syndrome    | 1 (0.1)                | 2                |
| Somnolence                                      | 1 (0.1)                | 1                |
| Subarachnoid haemorrhage                        | 1 (0.1)                | 1                |
| Transient ischaemic attack                      | 1 (0.1)                | 1                |
| Psychiatric disorders                           | 9 (0.8)                | 10               |
| Confusional state                               | 5 (0.4)                | 5                |
| Mental status changes                           | 2 (0.2)                | 2                |
| Abnormal behaviour                              | 1 (0.1)                | 1                |
| Depression                                      | 1 (0.1)                | 1                |
| Disorientation                                  | 1 (0.1)                | 1                |
| Renal and urinary disorders                     | 7 (0.6)                | 8                |
| Azotemia  | 3 (0.3)                | 3                |
| Renal failure                                   | 2 (0.2)                | 2                |
| Renal failure acute                             | 1 (0.1)                | 1                |
| Renal impairment                                | 1 (0.1)                | 1                |
| Urinary bladder hemorrhage                      | 1 (0.1)                | 1                |
| Reproductive system and breast disorders        | 1 (0.1)                | 1                |
| Vaginal hemorrhage                              | 1 (0.1)                | 1                |
| Respiratory, thoracic and mediastinal disorders | 19 (1.7)               | 21               |
| Dyspnoea  | 9 (0.8)                | 9                |
| Pleural effusion                                | 6 (0.5)                | 6                |
| Pulmonary embolism                              | 3 (0.3)                | 3                |
| Cough   | 1 (0.1)                | 1                |
| Haemothorax                                     | 1 (0.1)                | 1                |
| Pulmonary oedema                                | 1 (0.1)                | 1                |
| Skin and subcutaneous tissue disorders          | 10 (0.9)               | 13               |
| Palmar-plantar erythrodysesthesia syndrome      | 4 (0.4)                | 6                |
| Rash  | 4 (0.4)                | 4                |
| Skin ulcer                                      | 2 (0.2)                | 2                |
| Stevens-Johnson syndrome                        | 1 (0.1)                | 1                |
| Vascular disorders                              | 25 (2.2)               | 26               |
| Hypertension                                    | 15 (1.3)               | 16               |
| Hemorrhage                                      | 3 (0.3)                | 3                |
| Deep vein thrombosis                            | 2 (0.2)                | 2                |
| Circulatory collapse                            | 1 (0.1)                | 1                |
| Embolism  | 1 (0.1)                | 1                |
| Hypertensive crisis                             | 1 (0.1)                | 1                |
| Peripheral arterial occlusive disease           | 1 (0.1)                | 1                |
| Peripheral ischemia                             | 1 (0.1)                | 1                |

% = (n/N)\*100.

Adverse events are coded using MedDRA version 14.1.

ITT = intent-to-treat; MedDRA = medical dictionary for regulatory activities; N = total number of subjects;  
n = number of subjects with specified event; SAE = serious adverse event.

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Discontinuations Due to AEs: Eighty-three (83) subjects (7.4%) discontinued because of AEs considered by the Investigator to be possibly related to treatment. Treatment-related AEs leading to treatment discontinuation included asthenia, cardiac failure, and diarrhea (each 4 subjects); cardiac failure congestive, palmar-plantar erythrodysesthesia syndrome, and thrombocytopenia (each 3 subjects); cerebrovascular accident, dyspnea, fatigue, hepatotoxicity, and tumor hemorrhage (each 2 subjects); and abdominal pain, anemia, anal abscess, blood creatinine increased, cardiac arrest, cardiac failure acute, cerebral infarction, cerebrovascular accident, cognitive disorder, constipation, convulsion, deep vein thrombosis, dehydration, depressed level of consciousness, disease progression, ejection fraction, embolism, gastrointestinal hemorrhage, general physical health deterioration, Guillain-Barre syndrome, hemolysis, hemorrhagic ascites, hepatic failure, hyperbilirubinemia, hypertension, hyperuricemia, hypothyroidism, impaired healing, leukopenia, mucosal inflammation, multiorgan failure, myocardial infarction, nausea, nephropathy toxic, esophagitis, pain, pancytopenia, performance status decreased, peridiverticular abscess, peripheral arterial occlusive disease, peritoneal hemorrhage, pleural effusion, posterior reversible encephalopathy, pulmonary embolism, rectal hemorrhage, renal impairment, sepsis, skin toxicity, skin ulcer, transient ischaemic attack, ventricular tachycardia, vertigo, and vomiting (each 1 subject).

Deaths: A summary of deaths is provided in [Table 9](#). Two hundred thirty-five (235) subjects (20.9%) died on study. Of the deaths, 197 deaths (17.5% subjects) were considered to be due to disease progression or to events secondary to disease progression. Seventeen (17) subjects (1.5%) died because of AEs considered to be possibly related to study treatment, including 7 subjects who died because of AEs related both to disease progression and possibly study drug. Possibly treatment-related deaths included embolic/hemorrhagic events (6 subjects; embolism, gastrointestinal bleeding, hemorrhage from ruptured liver tumor, intraperitoneal bleeding, rectal hemorrhage, and pulmonary embolism), cardiotoxicity (3 subjects; heart failure [2 subjects] and myocardial infarction), hepatic toxicities (2 subjects; hepatic failure and hepatic toxicity), disease progression (2 subjects; disease progression and disease progression/performance status decreased [these events were listed on the report form as related to the study drug and related to both the study drug and study disease]), and hemolysis, multi-organ failure, sepsis, and death (each 1 subject). Twenty-four (24) subjects (2.1%) died because of AEs related to neither the study drug nor the study disease, including 4 who died from unknown causes.

**Table 9. Summary of Deaths (ITT Population)**

| <b>Variable</b>                                   | <b>Sunitinib<br/>(N=1124)<br/>n (%)</b> |
|---|---|
| Subjects who died                                 | 722 (64.2)                              |
| On-study deaths <sup>a</sup>                      | 235 (20.9)                              |
| Abdominal pain                                    | 1 (0.1)                                 |
| Accidental fall                                   | 1 (0.1)                                 |
| Bacteremia  | 1 (0.1)                                 |
| Bronchoaspiration                                 | 1 (0.1)                                 |
| Car accident                                      | 1 (0.1)                                 |
| Cardiac arrest                                    | 1 (0.1)                                 |
| Cardio-pulmonary arrest                           | 1 (0.1)                                 |
| Cardiorespiratory arrest                          | 1 (0.1)                                 |
| Clinical progression of disease                   | 1 (0.1)                                 |
| Colon perforation                                 | 1 (0.1)                                 |
| Coma  | 2 (0.2)                                 |
| Coma for liver dysfunction                        | 1 (0.1)                                 |
| Death due to disease progression                  | 5 (0.4)                                 |
| Death due to progression of disease               | 1 (0.1)                                 |
| Death of unknown cause                            | 1 (0.1)                                 |
| Deterioration of GIST                             | 2 (0.2)                                 |
| Deterioration of study disease                    | 1 (0.1)                                 |
| Deterioration of the general condition            | 1 (0.1)                                 |
| Deterioration of the general status               | 1 (0.1)                                 |
| Disease progression                               | 83 (7.4)                                |
| Disease progression resulting in death            | 1 (0.1)                                 |
| Disease progression, performance status decreased | 1 (0.1)                                 |
| Disease progression-worsened                      | 1 (0.1)                                 |
| Dyspnea   | 1 (0.1)                                 |
| Electrolytic imbalance                            | 1 (0.1)                                 |
| Embolism  | 1 (0.1)                                 |
| Fatal disease progression                         | 1 (0.1)                                 |
| Fever   | 1 (0.1)                                 |
| Gastrointestinal bleeding                         | 2 (0.2)                                 |
| General deterioration                             | 2 (0.2)                                 |
| General health deterioration                      | 1 (0.1)                                 |
| General physical health deterioration             | 2 (0.2)                                 |
| General status impairment                         | 1 (0.1)                                 |
| GIST progression                                  | 2 (0.2)                                 |
| Heart attack                                      | 1 (0.1)                                 |
| Heart failure                                     | 1 (0.1)                                 |
| Hemolysis   | 1 (0.1)                                 |
| Hemorrhage from ruptured liver tumor              | 1 (0.1)                                 |
| Hepatic failure                                   | 1 (0.1)                                 |
| Hepatic toxicity                                  | 1 (0.1)                                 |
| Ileus   | 1 (0.1)                                 |
| Intraperitoneal bleeding                          | 1 (0.1)                                 |
| Listeria meningitis                               | 1 (0.1)                                 |
| Liver and kidney failure                          | 1 (0.1)                                 |
| Massive GI bleed                                  | 1 (0.1)                                 |
| Multit organic failure                            | 1 (0.1)                                 |
| Multiorganic failure                              | 1 (0.1)                                 |
| Multiple organ failure                            | 1 (0.1)                                 |

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**Table 9. Summary of Deaths (ITT Population)**

| Variable  | Sunitinib<br>(N=1124)<br>n (%) |
|---|--------------------------------|
| Myocardial infarction   | 1 (0.1)                        |
| Pneumonia   | 2 (0.2)                        |
| Possible cerebral vascular accident   | 1 (0.1)                        |
| Progress disease  | 1 (0.1)                        |
| Progression disease   | 4 (0.4)                        |
| Progression of disease  | 6 (0.5)                        |
| Progression of disease under study  | 1 (0.1)                        |
| Progression of GIST   | 5 (0.4)                        |
| Progression of underlying malignancy (GIST)                                   | 1 (0.1)                        |
| Progressive disease   | 45 (4.0)                       |
| Pulmonary embolism  | 2 (0.2)                        |
| Pulmonary oedema  | 1 (0.1)                        |
| Pylorus ulcer   | 1 (0.1)                        |
| Respiratory failure   | 3 (0.3)                        |
| Sepsis  | 4 (0.4)                        |
| Septic shock  | 3 (0.3)                        |
| Septicaemia   | 2 (0.2)                        |
| Sudden death  | 1 (0.1)                        |
| Suspected cerebral bleeding   | 1 (0.1)                        |
| Tumor bleeding  | 2 (0.2)                        |
| UNK acute event   | 1 (0.1)                        |
| Unknown   | 1 (0.1)                        |
| Upper GI bleeding   | 1 (0.1)                        |
| Urosepsis   | 2 (0.2)                        |
| Worsening of disease under study  | 1 (0.1)                        |
| Worsening of gastrointestinal tumour  | 1 (0.1)                        |
| Worsening of GIST   | 1 (0.1)                        |
| Follow-up deaths <sup>b</sup>   | 487 (43.3)                     |
| Abdominal membrane bleeding (peritoneum)                                      | 1 (0.1)                        |
| Advanced parkinson's disease issues   | 1 (0.1)                        |
| Bowel obstruction   | 1 (0.1)                        |
| Bronchial-Ca  | 1 (0.1)                        |
| Cardiac arrest  | 1 (0.1)                        |
| Chronic renal failure   | 1 (0.1)                        |
| Death due to disease progression  | 1 (0.1)                        |
| Diabetic gangrene and cardiopulmonary failure                                 | 1 (0.1)                        |
| Disease progression   | 7 (0.6)                        |
| Hepatic encephalopathy  | 1 (0.1)                        |
| Hypothyroidism  | 1 (0.1)                        |
| Intracerebral bleeding  | 1 (0.1)                        |
| Intracranial bleed  | 1 (0.1)                        |
| lung abscess  | 1 (0.1)                        |
| Lung cancer   | 1 (0.1)                        |
| Multiorgan failure  | 1 (0.1)                        |
| Multiple organ failure  | 1 (0.1)                        |
| Pneumonia   | 1 (0.1)                        |
| Pneumonia secondary to lung metsfrom GIST. contributing factor:<br>bacteremia | 1 (0.1)                        |
| Post-operative complications  | 1 (0.1)                        |
| Progression of disease  | 1 (0.1)                        |
| Progressive disease   | 430 (38.3)                     |

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**Table 9. Summary of Deaths (ITT Population)**

| Variable                         | Sunitinib<br>(N=1124)<br>n (%) |
|----------------------------------|--------------------------------|
| Rectal bleeding                  | 1 (0.1)                        |
| Relapse of cardiac insufficiency | 1 (0.1)                        |
| Renal failure                    | 2 (0.2)                        |
| Respiratory tract infection      | 1 (0.1)                        |
| Sepsis                           | 2 (0.2)                        |
| Septic shock                     | 2 (0.2)                        |
| Unknown                          | 7 (0.6)                        |
| Unknown cause                    | 1 (0.1)                        |
| Unknown reason                   | 1 (0.1)                        |
| Yellow pigmentation of skin      | 1 (0.1)                        |
| Cause of death missing           | 11 (1.0)                       |

% = (n/N)\*100.

Ca = carcinoma; GI = gastrointestinal bleeding; GIST = gastrointestinal stromal tumor; ITT = intent-to-treat; N = total number of subjects; n = number of subjects with specified event; UNK = unknown.

- a. On-study deaths are those that occurred after the first dose of study drug and within 28 days of the last dose of study drug.
- b. Follow-up deaths are those that occurred more than 28 days after the last dose of study drug. Survival beyond participation in the study was monitored for up to 2 years from the date of the last dose of sunitinib.

## CONCLUSIONS:

Access to sunitinib was provided to a substantial number of subjects with imatinib refractory/intolerant metastatic GIST who did not qualify for other sunitinib studies; 1124 subjects had received sunitinib through this protocol, with treatment periods extending up to more than 6 years. The safety profile was generally acceptable, clinically manageable, and similar to what has been previously reported for sunitinib in the prescribing information for Sutent®. Though results should be interpreted with caution, evidence of antitumor efficacy was observed in this treatment use protocol, with an ORR of 7.8%, median TTP of 8.3 months, and median OS of 16.6 months in this highly varied population of subjects with imatinib refractory or intolerant GIST.