



Clinical trial results: A Phase II Trial to Evaluate the Efficacy of AZD6094 (HMPL-504) in Patients with Papillary Renal Cell Carcinoma (PRCC)

Summary

| | |
|--------------------------|-----------------|
| EudraCT number | 2014-001858-41 |
| Trial protocol | GB ES |
| Global end of trial date | 29 January 2017 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 08 April 2021 |
| First version publication date | 08 April 2021 |

Trial information

Trial identification

| | |
|-----------------------|-------------|
| Sponsor protocol code | D5082C00002 |
|-----------------------|-------------|

Additional study identifiers

| | |
|------------------------------------|--|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02127710 |
| WHO universal trial number (UTN) | - |
| Other trial identifiers | Sarah Cannon Development Innovations: GU 111 |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | AstraZeneca |
| Sponsor organisation address | N/A, Södertälje, Sweden, S-151 85 |
| Public contact | Senior Medical Director, Savolitinib, AstraZeneca, ClinicalTrialTransparency@astrazeneca.com |
| Scientific contact | Senior Medical Director, Savolitinib, AstraZeneca, ClinicalTrialTransparency@astrazeneca.com |

Notes:

Paediatric regulatory details

| | |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

Results analysis stage

| | |
|--|-----------------|
| Analysis stage | Final |
| Date of interim/final analysis | 22 July 2016 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 29 January 2016 |
| Global end of trial reached? | Yes |
| Global end of trial date | 29 January 2017 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective of the trial was to assess the anti-tumor activity of AZD6094 in patients with Papillary Renal Cell Carcinoma (PRCC), and in the subgroup of MET-positive patients as measured by Investigator assessment of overall response rate (ORR) according to Response Evaluation Criteria in Solid Tumours (RECIST) version 1.1. MET-driven PRCC was defined as any of the following: chromosome 7 copy gain, focal MET or HGF gene amplification, or MET kinase domain mutations.

Protection of trial subjects:

The primary mechanism for protection of the subjects in the trial was the Steering Committee comprised of multidisciplinary members selected by AstraZeneca and Sarah Cannon Development Innovations. The committee had nine members who were experts able to provide clinical and methodological expertise as it related to the development of AZD6094 in renal cancer. Any outcome of review by the Steering Committee that affected patient safety or study design was communicated in a timely manner to all participating sites by Sarah Cannon Development Innovations.

Background therapy:

None

Evidence for comparator:

This was a single arm study - there was no comparator.

| | |
|---|---------------|
| Actual start date of recruitment | 30 April 2014 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | United States: 68 |
| Country: Number of subjects enrolled | United Kingdom: 20 |
| Country: Number of subjects enrolled | Canada: 16 |
| Country: Number of subjects enrolled | Spain: 5 |
| Worldwide total number of subjects | 109 |
| EEA total number of subjects | 5 |

Notes:

Subjects enrolled per age group

| | |
|---|---|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |

| | |
|--|----|
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 59 |
| From 65 to 84 years | 49 |
| 85 years and over | 1 |

Subject disposition

Recruitment

Recruitment details:

One hundred thirty-one (131) subjects gave informed consent to be screened; 111 patients were enrolled; 20 patients were screen failures; 109 patients received at least one dose of AZD6094. Two patients were withdrawn prior to receiving any study drug. The study was conducted at 23 international sites in the US, Canada, UK, and Spain.

Pre-assignment

Screening details:

All patients were required to provide an archived or fresh tumour sample at enrolment to confirm eligibility, and for performance of the c-MET biomarker analysis. C-MET biomarker results determined the subgroup placement for data analyses as follows: c-MET positive (n=44), c-MET negative (n=46) and c-MET unknown (n=19).

Period 1

| | |
|------------------------------|----------------|
| Period 1 title | Overall Study |
| Is this the baseline period? | Yes |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|----------------|
| Are arms mutually exclusive? | Yes |
| Arm title | c-MET positive |

Arm description: -

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| | |
|------------------|----------------|
| Arm title | c-MET negative |
|------------------|----------------|

Arm description: -

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| | |
|------------------|----------------------|
| Arm title | c-MET Status Unknown |
|------------------|----------------------|

Arm description: -

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| Number of subjects in period 1 | c-MET positive | c-MET negative | c-MET Status Unknown |
|--------------------------------|----------------|----------------|----------------------|
| Started | 46 | 47 | 16 |
| Completed | 46 | 47 | 16 |

Period 2

| | |
|------------------------------|----------------|
| Period 2 title | Full Study |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|---------------------|
| Are arms mutually exclusive? | No |
| Arm title | Safety Analysis Set |

Arm description:

All participants who received at least one dose of AZD6094 are included in the Safety Analysis Set

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| | |
|-----------|-----------------------|
| Arm title | Efficacy Analysis Set |
|-----------|-----------------------|

Arm description:

The efficacy analysis set consisted of 84 patients with central laboratory PRCC pathology confirmed and with measurable disease.

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| Number of subjects in period 2 | Safety Analysis Set | Efficacy Analysis Set |
|--------------------------------|---------------------|-----------------------|
| Started | 109 | 85 |
| Completed | 109 | 85 |

Period 3

| | |
|------------------------------|------------------------------|
| Period 3 title | Pharmacokinetic Study Period |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|-----------|-----------------------------------|
| Arm title | Pharmacokinetic (PK) Analysis Set |
|-----------|-----------------------------------|

Arm description:

The PK analysis set included all patients who received at least one dose of AZD6094 and had at least one AZD6094 plasma concentration measurement.

| | |
|--|--------------|
| Arm type | Experimental |
| Investigational medicinal product name | AZD6094 |
| Investigational medicinal product code | |
| Other name | savolitinib |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

600 mg/day

| Number of subjects in period 3 | Pharmacokinetic (PK) Analysis Set |
|---|-----------------------------------|
| Started | 109 |
| Completed | 100 |
| Not completed | 9 |
| Samples for PK analysis were not collected. | 9 |

Baseline characteristics

Reporting groups

| | |
|--------------------------------|----------------------|
| Reporting group title | c-MET positive |
| Reporting group description: - | |
| Reporting group title | c-MET negative |
| Reporting group description: - | |
| Reporting group title | c-MET Status Unknown |
| Reporting group description: - | |

| Reporting group values | c-MET positive | c-MET negative | c-MET Status Unknown |
|--|----------------|----------------|----------------------|
| Number of subjects | 46 | 47 | 16 |
| Age Categorical Units: Subjects | | | |
| <=18 years | 0 | 0 | 0 |
| Between 18 and 65 years | 24 | 26 | 9 |
| >=65 years | 22 | 21 | 7 |
| Age Continuous Units: years | | | |
| arithmetic mean | 61.9 | 60.7 | 58.5 |
| standard deviation | ± 12.88 | ± 10.88 | ± 13.69 |
| Gender, Male/Female Units: Subjects | | | |
| Female | 13 | 11 | 7 |
| Male | 33 | 36 | 9 |
| Race/Ethnicity, Customized Units: Subjects | | | |
| White | 40 | 41 | 15 |
| Black or African American | 5 | 2 | 1 |
| Asian | 0 | 1 | 0 |
| Other | 1 | 3 | 0 |
| Ethnicity (NIH/OMB) Units: Subjects | | | |
| Hispanic or Latino | 6 | 6 | 2 |
| Not Hispanic or Latino | 40 | 41 | 14 |
| ECOG Performance Status | | | |
| ECOG Performance Status: (0) = Fully active; (1) = Restricted in physically strenuous activity; (2) = Ambulatory and capable of self-care; (3) = Capable of limited self-care; (4) = Completely disabled | | | |
| Units: Subjects | | | |
| PS = 0 | 19 | 25 | 7 |
| PS = 1 | 27 | 22 | 9 |
| PRCC Confirmation from Central Laboratory Units: Subjects | | | |
| PRCC Confirmed | 37 | 40 | 8 |
| PRCC Not Confirmed | 9 | 7 | 8 |
| Stage Classification Units: Subjects | | | |
| Low | 1 | 4 | 0 |

| | | | |
|---|-----------|-------------|---------------|
| Intermediate | 8 | 12 | 4 |
| High | 13 | 15 | 3 |
| Missing | 24 | 16 | 9 |
| Renal Cell Classification | | | |
| Units: Subjects | | | |
| Type I papillary RCC | 12 | 2 | 2 |
| Type II papillary RCC | 25 | 38 | 6 |
| Missing or Unknown | 9 | 7 | 8 |
| MSKCC risk group | | | |
| Risk categories for patients were obtained from the Memorial Sloan Kettering Cancer Center (MSKCC) risk category prognostic model in advanced renal cell cancer, as follows: Favourable risk = 0 risk factors; Intermediate risk = 1 or 2 risk factors; Poor risk = 3 or more risk factors. Risk factors include: Karnofsky performance status < 80%; time from diagnosis to salvage treatment < 1 year; haemoglobin < LLN; corrected serum calcium > ULN; and serum LDH > 1.5 x ULN. | | | |
| Units: Subjects | | | |
| Favourable risk | 3 | 10 | 2 |
| Intermediate risk | 28 | 14 | 7 |
| Poor risk | 3 | 5 | 2 |
| Missing | 12 | 18 | 5 |
| Age Continuous | | | |
| Units: years | | | |
| median | 64 | 64 | 61 |
| full range (min-max) | 23 to 87 | 29 to 75 | 37 to 80 |
| Weight | | | |
| Units: kilograms | | | |
| arithmetic mean | 78.42 | 85.38 | 84.90 |
| standard deviation | ± 20.74 | ± 23.84 | ± 12.55 |
| Weight | | | |
| Units: kilograms | | | |
| median | 76.5 | 83.5 | 87.65 |
| full range (min-max) | 42 to 134 | 47 to 160.6 | 59.3 to 101.6 |

| | | | |
|-------------------------------|-------|--|--|
| Reporting group values | Total | | |
| Number of subjects | 109 | | |
| Age Categorical | | | |
| Units: Subjects | | | |
| <=18 years | 0 | | |
| Between 18 and 65 years | 59 | | |
| >=65 years | 50 | | |
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender, Male/Female | | | |
| Units: Subjects | | | |
| Female | 31 | | |
| Male | 78 | | |
| Race/Ethnicity, Customized | | | |
| Units: Subjects | | | |
| White | 96 | | |
| Black or African American | 8 | | |
| Asian | 1 | | |

| | | | |
|---|----|--|--|
| Other | 4 | | |
| Ethnicity (NIH/OMB) | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 14 | | |
| Not Hispanic or Latino | 95 | | |
| ECOG Performance Status | | | |
| ECOG Performance Status: (0) = Fully active; (1) = Restricted in physically strenuous activity; (2) = Ambulatory and capable of self-care; (3) = Capable of limited self-care; (4) = Completely disabled | | | |
| Units: Subjects | | | |
| PS = 0 | 51 | | |
| PS = 1 | 58 | | |
| PRCC Confirmation from Central Laboratory | | | |
| Units: Subjects | | | |
| PRCC Confirmed | 85 | | |
| PRCC Not Confirmed | 24 | | |
| Stage Classification | | | |
| Units: Subjects | | | |
| Low | 5 | | |
| Intermediate | 24 | | |
| High | 31 | | |
| Missing | 49 | | |
| Renal Cell Classification | | | |
| Units: Subjects | | | |
| Type I papillary RCC | 16 | | |
| Type II papillary RCC | 69 | | |
| Missing or Unknown | 24 | | |
| MSKCC risk group | | | |
| Risk categories for patients were obtained from the Memorial Sloan Kettering Cancer Center (MSKCC) risk category prognostic model in advanced renal cell cancer, as follows: Favourable risk = 0 risk factors; Intermediate risk = 1 or 2 risk factors; Poor risk = 3 or more risk factors. Risk factors include: Karnofsky performance status < 80%; time from diagnosis to salvage treatment < 1 year; haemoglobin < LLN; corrected serum calcium > ULN; and serum LDH > 1.5 x ULN. | | | |
| Units: Subjects | | | |
| Favourable risk | 15 | | |
| Intermediate risk | 49 | | |
| Poor risk | 10 | | |
| Missing | 35 | | |
| Age Continuous | | | |
| Units: years | | | |
| median | | | |
| full range (min-max) | - | | |
| Weight | | | |
| Units: kilograms | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Weight | | | |
| Units: kilograms | | | |
| median | | | |
| full range (min-max) | - | | |

End points

End points reporting groups

| | |
|--|-----------------------------------|
| Reporting group title | c-MET positive |
| Reporting group description: - | |
| Reporting group title | c-MET negative |
| Reporting group description: - | |
| Reporting group title | c-MET Status Unknown |
| Reporting group description: - | |
| Reporting group title | Safety Analysis Set |
| Reporting group description: All participants who received at least one dose of AZD6094 are included in the Safety Analysis Set | |
| Reporting group title | Efficacy Analysis Set |
| Reporting group description: The efficacy analysis set consisted of 84 patients with central laboratory PRCC pathology confirmed and with measurable disease. | |
| Reporting group title | Pharmacokinetic (PK) Analysis Set |
| Reporting group description: The PK analysis set included all patients who received at least one dose of AZD6094 and had at least one AZD6094 plasma concentration measurement. | |

Primary: Objective Response Rate (RECIST Version 1.1) Stratified by c-MET Status in Efficacy Analysis Set (n=85)

| | |
|--|--|
| End point title | Objective Response Rate (RECIST Version 1.1) Stratified by c-MET Status in Efficacy Analysis Set (n=85) ^[1] |
| End point description: Assess the anti-tumour activity of AZD6094 in patients with PRCC, and in the subgroup of MET-positive patients, as measured by Investigator-assessment of overall response rate (ORR) according to Response Evaluation Criteria in Solid Tumours (RECIST) Version 1.1. | |
| End point type | Primary |
| End point timeframe: Up to 12 months | |

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: As per SAP (Appendix 12.1.9), ORR is defined as the percentage of patients with a confirmed programmatically calculated response of CR or PR. This is presented in this table. No statistical testing undertaken

| End point values | c-MET positive | c-MET negative | Efficacy Analysis Set | c-MET Status Unknown |
|-----------------------------|-----------------|-----------------|-----------------------|----------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 37 | 40 | 85 | 8 |
| Units: Percentage | | | | |
| number (not applicable) | | | | |
| Complete Response | 0 | 0 | 0 | 0 |
| Partial Response | 8.1 | 0 | 3.5 | 0 |

Statistical analyses

No statistical analyses for this end point

Primary: Objective Response Rate (RECIST Version 1.1) Stratified by c-MET Status in Safety Analysis (n=109)

| | |
|-----------------|---|
| End point title | Objective Response Rate (RECIST Version 1.1) Stratified by c-MET Status in Safety Analysis (n=109) ^[2] |
|-----------------|---|

End point description:

Assess the anti-tumour activity of AZD6094 in patients with PRCC, and in the subgroup of MET-positive patients, as measured by Investigator-assessment of overall response rate (ORR) according to Response Evaluation Criteria in Solid Tumours (RECIST) Version 1.1.

| | |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Up to 12 months

Notes:

[2] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: As per CSP dated 4th August 2017, this objective is to characterise the PK of AZD6094 regardless c-MET status

| End point values | c-MET positive | Safety Analysis Set | c-MET negative | c-MET Status Unknown |
|-----------------------------|-----------------|---------------------|-----------------|----------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 109 | 47 | 16 |
| Units: Percentage | | | | |
| number (not applicable) | | | | |
| Complete Response | 0 | 0 | 0 | 0 |
| Partial Response | 17.4 | 7.3 | 0 | 0 |

Statistical analyses

No statistical analyses for this end point

Secondary: Progression Free Survival (PFS) Stratified by c-MET Status in the Efficacy Analysis Set (n = 85)

| | |
|-----------------|--|
| End point title | Progression Free Survival (PFS) Stratified by c-MET Status in the Efficacy Analysis Set (n = 85) |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 12 months

| End point values | c-MET positive | c-MET negative | Efficacy Analysis Set | c-MET Status Unknown |
|----------------------------------|---------------------|-------------------|-----------------------|-----------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 37 | 40 | 85 | 8 |
| Units: weeks | | | | |
| median (confidence interval 95%) | 18.3 (12.3 to 35.4) | 9.7 (6.1 to 12.4) | 12.3 (6.7 to 17.6) | 6.1 (5.1 to 999999.9) |

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival (OS) Stratified by c-MET Status in the Efficacy Analysis Set (n = 85)

| | |
|-----------------|--|
| End point title | Overall Survival (OS) Stratified by c-MET Status in the Efficacy Analysis Set (n = 85) |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 12 months

| End point values | c-MET positive | c-MET negative | c-MET Status Unknown | |
|----------------------------------|-----------------------------|-------------------------|------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 37 | 40 | 8 | |
| Units: weeks | | | | |
| median (confidence interval 95%) | 999999.9 (34.6 to 999999.9) | 61.1 (29.4 to 999999.9) | 51.5 (8.1 to 999999.9) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Progression Free Survival (PFS) Stratified by c-MET Status in the Safety Analysis Set (n = 109)

| | |
|-----------------|---|
| End point title | Progression Free Survival (PFS) Stratified by c-MET Status in the Safety Analysis Set (n = 109) |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 12 months

| End point values | c-MET positive | c-MET negative | c-MET Status Unknown | |
|----------------------------------|---------------------|-------------------|----------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 46 | 47 | 16 | |
| Units: weeks | | | | |
| median (confidence interval 95%) | 24.7 (17.7 to 35.4) | 6.6 (6.1 to 11.9) | 12.1 (6.1 to 41.9) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival (OS) Stratified by c-MET Status in the Safety Analysis Set (n = 109)

| | |
|-----------------|---|
| End point title | Overall Survival (OS) Stratified by c-MET Status in the Safety Analysis Set (n = 109) |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 12 months

| End point values | c-MET positive | c-MET negative | c-MET Status Unknown | |
|----------------------------------|-----------------------------|----------------------|-------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 46 | 47 | 16 | |
| Units: weeks | | | | |
| median (confidence interval 95%) | 999999.9 (42.9 to 999999.9) | 61.1 (40.6 to 106.7) | 54.9 (18.4 to 999999.9) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Target Lesion Tumour Size at 12 Weeks in Efficacy Analysis Set (n=85)

| | |
|-----------------|---|
| End point title | Change from Baseline in Target Lesion Tumour Size at 12 Weeks in Efficacy Analysis Set (n=85) |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
12 Weeks (at 12 weeks timepoint)

| End point values | c-MET positive | c-MET negative | c-MET Status Unknown | |
|--------------------------------------|---------------------|--------------------|----------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 22 | 14 | 1 | |
| Units: percentage | | | | |
| arithmetic mean (standard deviation) | -6.3 (\pm 21.56) | 3.4 (\pm 20.05) | 7.1 (\pm 0) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Target Lesion Tumour Size at 12 Weeks in Safety Analysis Set (n=109)

| | |
|-----------------|--|
| End point title | Change from Baseline in Target Lesion Tumour Size at 12 Weeks in Safety Analysis Set (n=109) |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

12 Weeks (at 12 weeks timepoint)

| End point values | c-MET positive | c-MET negative | c-MET Status Unknown | |
|--------------------------------------|----------------------|--------------------|----------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 16 | 6 | |
| Units: percentage | | | | |
| arithmetic mean (standard deviation) | -10.9 (\pm 21.39) | 4.3 (\pm 18.96) | 5.1 (\pm 17.41) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Peak Plasma Concentration (Cmax) of AZD6094 Following Single Dose

| | |
|-----------------|---|
| End point title | Peak Plasma Concentration (Cmax) of AZD6094 Following Single Dose |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

24 Hours

| | | | | |
|---|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 53 | | | |
| Units: ng/mL | | | | |
| geometric mean (geometric coefficient of variation) | | | | |
| AZD6094 peak plasma concentration | 3038.8984 (\pm 44.4184) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Time to Peak Plasma Concentration (tmax) of AZD6094 After Single Dose

| | |
|-----------------|---|
| End point title | Time to Peak Plasma Concentration (tmax) of AZD6094 After Single Dose |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

24 Hours

| | | | | |
|-------------------------------|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 53 | | | |
| Units: Hours | | | | |
| median (full range (min-max)) | 2.0 (0.5 to 8.0) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Apparent Volume of Distribution of AZD6094 Following Single Dose

| | |
|-----------------|--|
| End point title | Apparent Volume of Distribution of AZD6094 Following Single Dose |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

24 Hours

| | | | | |
|--------------------------------------|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 19 | | | |
| Units: Liters | | | | |
| arithmetic mean (standard deviation) | 137.4237 (\pm 36.5971) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under Plasma Concentration Time Curve for AZD6094 After Single Dose

| | |
|-----------------|--|
| End point title | Area Under Plasma Concentration Time Curve for AZD6094 After Single Dose |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

24 Hours

| | | | | |
|---|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 19 | | | |
| Units: h*ng/mL | | | | |
| geometric mean (geometric coefficient of variation) | 13144.7381 (\pm 36.4328) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under Plasma Concentration Time Curve for AZD6094 After Single

Dose (time zero to last measurement)

| | |
|-----------------|--|
| End point title | Area Under Plasma Concentration Time Curve for AZD6094 After Single Dose (time zero to last measurement) |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
24 Hours

| | | | | |
|---|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 53 | | | |
| Units: h*ng/mL | | | | |
| geometric mean (geometric coefficient of variation) | 13214.2441 (\pm 46.4616) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Apparent Total Clearance of AZD6094 from Plasma After Single Dose

| | |
|-----------------|---|
| End point title | Apparent Total Clearance of AZD6094 from Plasma After Single Dose |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
24 Hours

| | | | | |
|--------------------------------------|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 19 | | | |
| Units: L/hour | | | | |
| arithmetic mean (standard deviation) | 48.4938 (\pm 17.3386) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Mean Residence Time of AZD6094 After Single Dose

End point title Mean Residence Time of AZD6094 After Single Dose

End point description:

End point type Secondary

End point timeframe:

24 Hours

| | | | | |
|--------------------------------------|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 19 | | | |
| Units: Hours | | | | |
| arithmetic mean (standard deviation) | 3.9837 (\pm 0.4813) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Elimination Half-Life of AZD6094 After Single Dose

End point title Elimination Half-Life of AZD6094 After Single Dose

End point description:

End point type Secondary

End point timeframe:

24 Hours

| | | | | |
|--------------------------------------|-----------------------------------|--|--|--|
| End point values | Pharmacokinetic (PK) Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 19 | | | |
| Units: Hours | | | | |
| arithmetic mean (standard deviation) | 2.0499 (\pm 0.3820) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Duration of Response

| | |
|-----------------|----------------------|
| End point title | Duration of Response |
|-----------------|----------------------|

End point description:

Duration of Response is the time from the first documentation of CR/PR until the date of progression, or death in the absence of progression. There were 8 responders: one of whom subsequently progressed or died and seven of whom were still classified as responders at the time of data cut-off and were therefore censored. It was not possible to determine a median or 75th percentile.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

Up to 12 months

| | | | | |
|---------------------------------------|-----------------------------|--|--|--|
| End point values | Safety Analysis Set | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 8 ^[3] | | | |
| Units: weeks | | | | |
| median (inter-quartile range (Q1-Q3)) | 999999.9 (18.1 to 999999.9) | | | |

Notes:

[3] - The median was not calculable because at data cut-off some participants were still responding.

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Up to 12 months

| | |
|-----------------|----------------|
| Assessment type | Non-systematic |
|-----------------|----------------|

Dictionary used

| | |
|-----------------|--------|
| Dictionary name | MedDRA |
|-----------------|--------|

| | |
|--------------------|------|
| Dictionary version | 18.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|-------------------------------|
| Reporting group title | AZD6094 600 mg per day orally |
|-----------------------|-------------------------------|

Reporting group description: -

| Serious adverse events | AZD6094 600 mg per day orally | | |
|---|-------------------------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 27 / 109 (24.77%) | | |
| number of deaths (all causes) | 59 | | |
| number of deaths resulting from adverse events | 1 | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Rectal cancer | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |
| Pain | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Oedema | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Dyspnoea | | | |

| | | | |
|---|---|--|--|
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pleural effusion | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonitis | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Psychiatric disorders | | | |
| Confused memory and fantasy | Additional description: Reporting PT: Confusional State | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Investigations | | | |
| Transaminases increased | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiac disorders | | | |
| Pericarditis | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Myocardial infarction | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|-----------------|--|--|
| Nervous system disorders | | | |
| Hepatic encephalopathy | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 1 / 1 | | |
| Consciousness loss | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 3 / 109 (2.75%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Abdominal incarcerated hernia | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Abdominal pain | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ascites | | | |
| subjects affected / exposed | 2 / 109 (1.83%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Constipation | | | |
| subjects affected / exposed | 2 / 109 (1.83%) | | |
| occurrences causally related to treatment / all | 1 / 4 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nausea | | | |

| | | | |
|---|---|--|--|
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vomiting | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Small intestine carcinoma | Additional description: Reporting PT Term: Small Intestinal Obstruction | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Drug-induced liver injury | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 4 / 109 (3.67%) | | |
| occurrences causally related to treatment / all | 0 / 4 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endocrine disorders | | | |
| Adrenal insufficiency | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Musculoskeletal and connective tissue disorders | | | |
| Flank pain | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infections and infestations | | | |
| Cellulitis | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lung Infection | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Wound infection | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hyperkalemia | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hyponatraemia | | | |
| subjects affected / exposed | 1 / 109 (0.92%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

Frequency threshold for reporting non-serious adverse events: 5 %

| | | | |
|---|-------------------------------|--|--|
| Non-serious adverse events | AZD6094 600 mg per day orally | | |
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 107 / 109 (98.17%) | | |
| Investigations | | | |
| Blood creatinine increased | | | |
| subjects affected / exposed | 18 / 109 (16.51%) | | |
| occurrences (all) | 30 | | |
| Aspartate aminotransferase increased | | | |
| subjects affected / exposed | 15 / 109 (13.76%) | | |
| occurrences (all) | 29 | | |
| Weight decreased | | | |
| subjects affected / exposed | 14 / 109 (12.84%) | | |
| occurrences (all) | 18 | | |
| Alanine aminotransferase increased | | | |
| subjects affected / exposed | 12 / 109 (11.01%) | | |
| occurrences (all) | 29 | | |
| Weight increased | | | |
| subjects affected / exposed | 8 / 109 (7.34%) | | |
| occurrences (all) | 14 | | |
| Blood alkaline phosphatase increased | | | |
| subjects affected / exposed | 7 / 109 (6.42%) | | |
| occurrences (all) | 8 | | |
| Nervous system disorders | | | |

| | | | |
|---|-------------------------|--|--|
| Dizziness subjects affected / exposed occurrences (all) | 11 / 109 (10.09%) 11 | | |
| Dysgeusia subjects affected / exposed occurrences (all) | 9 / 109 (8.26%) 10 | | |
| Headache subjects affected / exposed occurrences (all) | 8 / 109 (7.34%) 9 | | |
| Blood and lymphatic system disorders Anaemia subjects affected / exposed occurrences (all) | 17 / 109 (15.60%) 31 | | |
| General disorders and administration site conditions Fatigue subjects affected / exposed occurrences (all) | 49 / 109 (44.95%) 63 | | |
| Peripheral oedema subjects affected / exposed occurrences (all) | 35 / 109 (32.11%) 69 | | |
| Asthenia subjects affected / exposed occurrences (all) | 8 / 109 (7.34%) 17 | | |
| Oedema subjects affected / exposed occurrences (all) | 8 / 109 (7.34%) 9 | | |
| Chest pain subjects affected / exposed occurrences (all) | 7 / 109 (6.42%) 7 | | |
| Mucosal inflammation subjects affected / exposed occurrences (all) | 6 / 109 (5.50%) 6 | | |
| Pain subjects affected / exposed occurrences (all) | 5 / 109 (4.59%) 8 | | |
| Chills | | | |

| | | | |
|---|-------------------|--|--|
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 7 | | |
| Pyrexia | | | |
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 6 | | |
| Gastrointestinal disorders | | | |
| Nausea | | | |
| subjects affected / exposed | 56 / 109 (51.38%) | | |
| occurrences (all) | 81 | | |
| Vomiting | | | |
| subjects affected / exposed | 34 / 109 (31.19%) | | |
| occurrences (all) | 51 | | |
| Constipation | | | |
| subjects affected / exposed | 29 / 109 (26.61%) | | |
| occurrences (all) | 31 | | |
| Diarrhoea | | | |
| subjects affected / exposed | 18 / 109 (16.51%) | | |
| occurrences (all) | 21 | | |
| Abdominal pain | | | |
| subjects affected / exposed | 9 / 109 (8.26%) | | |
| occurrences (all) | 20 | | |
| Abdominal distension | | | |
| subjects affected / exposed | 6 / 109 (5.50%) | | |
| occurrences (all) | 11 | | |
| Stomatitis | | | |
| subjects affected / exposed | 6 / 109 (5.50%) | | |
| occurrences (all) | 7 | | |
| Ascites drainage | | | |
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 6 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 16 / 109 (14.68%) | | |
| occurrences (all) | 18 | | |
| Dyspnoea | | | |

| | | | |
|---|-------------------|--|--|
| subjects affected / exposed | 16 / 109 (14.68%) | | |
| occurrences (all) | 27 | | |
| Dyspnoea exertional | | | |
| subjects affected / exposed | 11 / 109 (10.09%) | | |
| occurrences (all) | 12 | | |
| Pleural effusion | | | |
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 6 | | |
| Renal and urinary disorders | | | |
| Proteinuria | | | |
| subjects affected / exposed | 11 / 109 (10.09%) | | |
| occurrences (all) | 21 | | |
| Psychiatric disorders | | | |
| Insomnia | | | |
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 5 | | |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| subjects affected / exposed | 16 / 109 (14.68%) | | |
| occurrences (all) | 20 | | |
| Arthralgia | | | |
| subjects affected / exposed | 13 / 109 (11.93%) | | |
| occurrences (all) | 24 | | |
| Musculoskeletal chest pain | | | |
| subjects affected / exposed | 9 / 109 (8.26%) | | |
| occurrences (all) | 10 | | |
| Pain in extremity | | | |
| subjects affected / exposed | 11 / 109 (10.09%) | | |
| occurrences (all) | 21 | | |
| Flank pain | | | |
| subjects affected / exposed | 9 / 109 (8.26%) | | |
| occurrences (all) | 14 | | |
| Musculoskeletal pain | | | |
| subjects affected / exposed | 10 / 109 (9.17%) | | |
| occurrences (all) | 11 | | |
| Muscle spasm | | | |

| | | | |
|------------------------------------|-------------------|--|--|
| subjects affected / exposed | 7 / 109 (6.42%) | | |
| occurrences (all) | 7 | | |
| Myalgia | | | |
| subjects affected / exposed | 6 / 109 (5.50%) | | |
| occurrences (all) | 6 | | |
| Metabolism and nutrition disorders | | | |
| Hypoalbuminaemia | | | |
| subjects affected / exposed | 13 / 109 (11.93%) | | |
| occurrences (all) | 20 | | |
| Decreased appetite | | | |
| subjects affected / exposed | 25 / 109 (22.94%) | | |
| occurrences (all) | 37 | | |
| Hyperglycaemia | | | |
| subjects affected / exposed | 8 / 109 (7.34%) | | |
| occurrences (all) | 14 | | |
| Hyponatraemia | | | |
| subjects affected / exposed | 8 / 109 (7.34%) | | |
| occurrences (all) | 12 | | |
| Hyperkalemia | | | |
| subjects affected / exposed | 7 / 109 (6.42%) | | |
| occurrences (all) | 16 | | |
| Hypomagnesaemia | | | |
| subjects affected / exposed | 6 / 109 (5.50%) | | |
| occurrences (all) | 9 | | |
| Fluid balance positive | | | |
| subjects affected / exposed | 5 / 109 (4.59%) | | |
| occurrences (all) | 8 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|---|
| 03 March 2014 | Amendment 1 revised the protocol as follows: 1) Exclude any patient receiving strong CYP1A2 inhibitor within 2 weeks prior to entry and instructions for investigators to advise patients to avoid concomitant use of strong CYP1A2 because CYP1A2 is active in the formation of metabolite M2; 2) Amended dose modification criteria to discontinue AZD6094 for patients who develop \geq Grade 3 toxicity that does not resolve to \leq Grade 1 within 2 weeks; 3) An echocardiogram or MUGA scan to assess LVEF will be conducted at Screening – Baseline and 12 weeks after study start; 4) Thyroid Stimulating Hormone (TSH), Free Thyroxine (Free T4) and Lactate Dehydrogenase (LDH) were added to the standard laboratory safety assessment panel; 5) An assessment of risk criteria in accordance with the Memorial Sloan Kettering Cancer Centre (MSKCC) risk category prognostic model in advanced renal cell cancer was added. |
| 18 December 2014 | Amendment 2 revised the protocol as follows: 1) The section regarding risk minimization activities was revised to add hepatic encephalopathy and to include information regarding a fatal event of hepatic encephalopathy; 2) Inclusion criteria regarding patients with known tumour thrombus or deep vein thrombosis (DVT) are eligible if stable on low molecular weight heparin (LMWH) for \geq 2 weeks; 3) Revised exclusion criteria to allow patients with limited prior or current treatment with a c-MET inhibitor to enter the study if discussed with the Medical Monitor; 4) The section regarding restrictions during the study was revised to specify that acetaminophen (paracetamol) daily dose was limited to 3 grams/day or the maximum dose approved locally (if less than 3 grams/day) during the study; 5) The section regarding restrictions during the study was revised to specify that patients should abstain from eating large amounts of grapefruit or Seville oranges (and other products containing these fruits [e.g., juice or marmalade] during the study; 6) Advise Investigators to review the patient's concomitant medications, and evaluate the need for the patient to continue on hepatic metabolism modifying agents, such as statins; 7) The study plan was revised to include additional liver function monitoring; 8) To specify that patients should be in a fasted state at Cycle 1 Day 8 at 2-3 hours post-dose for the collection of a biopsy sample and blood for a PK sample. |
| 05 June 2015 | Amendment 3 revised the protocol as follows: 1) Information regarding safety, efficacy, and potential benefit in humans was updated to align with the Investigator's Brochure; 2) Include information on the potential for drug-drug interactions; 3) The primary and secondary objectives of the study were revised to include tumour assessment in the subgroup of MET-positive patients.; 4) The futility threshold for continuation of the study to Stage 2 was revised slightly; 5) The protocol was clarified to provide further detail on the non-binding futility analysis to be conducted after 20 evaluable patients were enrolled, marking the completion of Stage 1; 6) Formal hypothesis testing was added - if the study passes the futility analysis at the end of Stage 1, then the end-of-study analysis will be performed on the total data from the patients in both stages 1 and 2 combined; 7) At the end of the study the primary end-point (ORR) will be tested against the null hypothesis H_0 ; $ORR \leq 25\%$ at the one-sided significance level of $\alpha = 0.025$ in two populations as co-primary objectives; the total population of confirmed PRCC patients and the subgroup of MET positive PRCC patients; 8) The sample size was expanded to a total of 75 evaluable patients provided the futility analysis of Stage 1 was satisfied. |
| 18 April 2016 | Amendment 4 revised the protocol as follows: 1) Extended follow-up and response assessments for patients without disease progression at the time of discontinuing study treatment was added; 2) The collection of urine for PK analysis was clarified. |

| | |
|------------------|--|
| 27 May 2016 | Amendment 5 revised the protocol as follows: New information on drug-drug interactions was included (metformin, digoxin, quinidine, loperamide, saquinavir and ritonavir). AZD6094 is a weak inhibitor of OATP1B1, OATP1B3 and BCRP in vitro, and the use of statins should be avoided as far as possible; AZD6094 is also an inhibitor of MATE1 and MATE2K, thus metformin should be used with caution in case of increased metformin exposure. |
| 05 December 2016 | Amendment 6 revised the protocol as follows: 1) New information and guidance regarding Stevens-Johnson syndrome was added; 2) Guidance for hepatotoxicity and dose modifications was updated and revised; 3) Investigator guidance for end of study access to the investigational drug was added and post database lock procedures for patients continuing to receive study drug. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

The secondary endpoint overall survival in both the Safety Analysis Set and the Efficacy Analysis could not be calculated as a finite number. Due to limitations of the EudraCT it was entered 999999.9 as system doesn't recognise values like N/A.

Notes:

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/28644771>