# Phase I dose-escalation study of oral administration of S055746 in patients with Acute Myeloid Leukaemia or Myelodysplastic Syndrome

Submission date 01/08/2014	Recruitment status Stopped	<ul><li>[X] Prospectively registered</li><li>Protocol</li></ul>		
Registration date 04/09/2014	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	Individual participant data		
/3/115//1119	Cancer			

#### Plain English summary of protocol

Not provided at time of registration and not expected to be available in the future

# Contact information

# Type(s)

Scientific

#### Contact name

Prof Andrew Wei

#### Contact details

Department of Haematology The Alfred Hospital Commercial Road Melbourne Australia VIC 3004

# Additional identifiers

Clinical Trials Information System (CTIS)

2014-002559-24

ClinicalTrials.gov (NCT)

NCT02920541

#### Protocol serial number

CL1-055746-002

# Study information

#### Scientific Title

Phase I dose-escalation study of the orally administrered selective Bcl-2 inhibitor S055746 as monotherapy for the treatment of patients with Acute Myeloid Leukaemia (AML) or high or very high risk Myelodysplastic Syndrome (MDS)

#### **Study objectives**

To determine the safety profile and tolerability of S 055746 and establish the recommended Phase II dose.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Ethics approval was obtained before recruitment of the first participants

#### Study design

Phase I dose-escalation study

#### Primary study design

Interventional

#### Study type(s)

Treatment

#### Health condition(s) or problem(s) studied

Acute Myeloid Leukaemia (AML) and Myelodysplastic Syndrome (MDS)

#### **Interventions**

Current interventions as of 13/01/2017:

Film-¬coated tablets containing 50 mg or 100 mg of S055746. This trial is a dose escalation trial. The first daily dose tested will be 100 mg, and then a panel of daily doses from 50 to 2000 mg could be tested. Treatment duration for the participant is until evidence of progressive disease, the occurrence of unacceptable toxicity, death, exercise of investigator discretion, withdrawal of consent or if clinically indicated after discussion between investigator and the sponsor on a case by case basis.

#### Previous interventions:

Film-coated tablets containing 50 mg or 100mg of S055746. This trial is a dose escalation trial. A modified version of the Continual Reassessment Method (mCRM) will be used for dose allocation process. The first daily dose tested will be 100 mg, and then a panel of daily doses from 50 to 1000 mg could be tested according to the dose allocation process of the mCRM. Doses over 1000 mg and intermediate doses could be proposed depending on available results during the study. Treatment duration for the participant is until evidence of treatment failure, the occurrence of unacceptable toxicity, death, exercise of investigator discretion, withdrawal of consent or if clinically indicated after discussion between investigator and the sponsor on a case by case basis

#### Intervention Type

Drug

#### Phase

Phase I

#### Drug/device/biological/vaccine name(s)

S055746

#### Primary outcome(s)

Current primary outcome measures as of 13/01/2017:

- 1. Dose Limiting Toxicities in cycle 1
- 2. Maximum Tolerated Dose, defined as the highest drug dosage that is unlikely (<25% posterior probability) to cause DLT in more than 33% of the treated patients in the first cycle of S 055746 treatment
- 3. Safety profile at each visit, assessed by adverse events monitoring, laboratory tests, vital signs and performance status, clinical examination and ECG parameters

Previous primary outcome measures:

- 1. Dose Limiting Toxicities in cycle 1
- 2. Maximum Tolerated Dose defined as the highest dose administered in the study at which the incidence of DLT is 30%
- 3. Safety profile at each visit assessed by Adverse events monitoring, laboratory tests, vital signs and performance status, clinical examination and ECG parameters

#### Key secondary outcome(s))

Current Secondary Outcome measures as of 14/03/2018:

- 1. Pharmacokinetics parameters on blood sample during cycles 1 and 2
- 2. Preliminary anti-leukaemic activity of S055746 throughout the study (blood, BMA and biopsy if available)

Previous Secondary Outcome Measures:

- 1. Pharmacokinetics parameters on blood sample during cycles 1 and 2  $\,$
- 2. PD parameters on blood, BMA and biospy if available from cycle 1 to cycle 3 and in any time in case of suspicion of disease progression optional pharmacogenomics analysis on Cycle 1, D1 predose
- 3. Preliminary anti-leukaemic activity of S055746 throughout the study (blood, BMA and biopsy if available)

# Completion date

24/05/2018

# **Eligibility**

#### Key inclusion criteria

Current inclusion criteria as of 13/01/2017:

- 1. Women or men aged >= 18 years
- 2. Patients with cytologically confirmed and documented de novo, secondary or therapy¬related AML excluding acute promyelocytic leukaemia:
- 2.1. With relapsed or refractory disease without established alternative therapy or
- 2.2. > or = 65 years not previously treated for AML, who are not candidates for intensive chemotherapy or not candidates for standard chemotherapy

- 3. Patients with cytollogically confirmed and documented MDS or non-proliferative Chronic Myelomonocytic Leukaemia (CMML) patients, in relapse or refractory after previous treatment line including at least one hypomethylating agent (5-azacytidine or decitabine):
- 3.1. With high or very high risk MDS and without established alternative therapy
- 3.2. Transformed to AML and without established alternative therapy
- 4. Ability to swallow oral tablet(s)
- 5. WHO performance status 0-2
- 6. Circulating white blood cells < or = 30 x 10^9 /L and < or = 13 x 10^9/L for non-proliferative CMML
- 7. Adequate renal and hepatic functions
- 8. Negative serum pregnancy test within 7 days prior to the first day of study drug administration
- 9. Patients must use effective contraception
- 10. Written informed consent

#### Previous inclusion criteria:

- 1. Women or men aged >= 18 years
- 2. Patients with cytologically confirmed and documented de novo, secondary or therapy-related AML excluding APL, with relapsed or refractory disease or > or = 65 years not previously treated, who are not candidates for intensive chemotherapy or not candidates for standard chemotherapy
- 3. Patients with cytollogically confirmed and documented high or very high risk myelodysplastic syndrome who have failed prior hypomethylating therapy
- 4. WHO performance status 0-2
- 5. Circulating white blood cells < or  $= 30 \times 10^9 / L$
- 6. For MDS patients:
- 6.1. Platelets count > 25 10^9/L
- 6.2. Neutrophils > 0.5 10^9/L
- 7. Acceptable coagulation parameters according to local laboratory
- 8. Adequate renal and hepatic functions
- 9. Negative serum pregnancy test within 7 days prior to the first day of study drug administration
- 10. Patients must use effective contraception

#### Participant type(s)

**Patient** 

### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Sex

All

#### Key exclusion criteria

Current exclusion criteria as of 14/03/2018:

- 1. Foreseeable poor compliance to the study procedures
- 2. Legally incapacitated person under quardianship or trusteeship

- 3. Pregnant or breastfeeding women
- 4. Participation in therapeutic interventional study involving investigational drug intake at the same time or within 2 weeks or at least 5 half-lives or patient already enrolled
- 5. Previous treatment with a BH3 mimetic
- 6. Patients who have not recovered to baseline or CTCAE< or = Grade 1 from toxicity due to all prior therapies received for the studied disease
- 7. Any previous anti¬leukaemic treatment (AML, high or very high risk MDS) within at least 5 half-lives or 2 weeks prior to the study entry except for hydroxyurea
- 8. Any radiotherapy within 4 weeks before first intake
- 9. Major surgery within 3 weeks before first intake of S 055746
- 10. Allogenic stem cell transplant within 6 months before the first intake of S 055746 and for patients who still need immunosuppressive treatment
- 11. Leukaemic leptomeningeal or leukaemic central nervous system involvement
- 12. Concomitant uncontrolled infection, organ dysfunction or medical disease likelty to interfere with evaluation of S 055746 safety or study outcome
- 13. Human immunodeficiency virus (HIV), hepatitis B or active hepatitis C infection
- 14. Within 6 months prior to the first intake of S 055746, history of myocardial infarction, acute coronary syndromes (including unstable angina), coronary angioplasty, and/or stenting, ischemic /haemorragic stroke, atrial fibrillation, digestive haemorrhagic risk, deep venous/arterial thromboembolic complication or bleeding diathesis
- 15. Decreased Left Ventricular Ejection Fraction (LVEF)
- 16. QTcF prolongation
- 17. Patients who are receiving QT prolonging drug
- 18. Coagulopathies with increased risk of bleeding complications
- 19. Other malignancy within 2 years prior to the first intake
- 20. Strong or moderate CYP3A4 inhibitors or inducers (treatment, food or drink products) within 7 days prior to the first intake
- 21. Treatment highly metabolised by the CYP3A4 or CYP2D6 and/or with a narrow therapeutic index, multi-enzymes and/or OATP and/or P-gp substrates or herbal products within 7 days prior to the first intake.
- 22. Patients receiving proton pump inhibitor
- 23.Patients having received anticoagulant oral drugs, aspirin > 325 mg/day and antiplatelets within 7 days prior to first S 055746 intake

#### Current exclusion criteria as of 13/01/2017:

- 1. Foreseeable poor compliance to the study procedures
- 2. Legally incapacitated person under quardianship or trusteeship
- 3. Pregnant or breastfeeding women
- 4. Participation in therapeutic interventional study involving investigational drug intake at the same time or within 2 weeks or at least 5 half-lives or patient already enrolled
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- 8. Any radiotherapy within 4 weeks before first intake
- 9. Major surgery within 3 weeks before first intake of S 055746
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- 12. Concomitant uncontrolled infection, organ dysfunction or medical disease likelty to interfere with evaluation of S 055746 safety or study outcome

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- 15. Decreased Left Ventricular Ejection Fraction (LVEF)
- 16. QTcF prolongation
- 17. Patients who are receiving QT prolonging drug
- 18. Coagulopathies with increased risk of bleeding complications
- 19. Other malignancy within 2 years prior to the first intake
- 20. Strong or moderate CYP3A4 inhibitors or inducers (treatment, food or drink products) within 7 days prior to the first intake
- 21. Treatment highly metabolised by the CYP3A4 and with a narrow therapeutic index within 7 days prior to the first intake.
- 22. Patients receiving proton pump inhibitor

#### Previous exclusion criteria:

- 1. Pregnant or breastfeeding women
- 2. Involvement in therapeutic interventional study at the same time or within 2 weeks prior to first S 055746 intake or patient already enrolled in the study
- 3. Previous treatment with a BH3 mimetic
- 4. Patients who have not recovered to baseline or CTCAE< or = Grade 1 from toxicity due to all prior therapies
- 5. Any previous anti-leukaemic treatment (AML, high or very high risk MDS) within at least 5 half lives or 2 weeks prior to the study entry except for hydroxyurea
- 6. Any radiotherapy within 4 weeks before first intake
- 7. Major surgery within 3 weeks before first intake of S 055746
- 8. Allogenic stem cell transplant within 6 months before the first intake of S 055746 and for patients who still need immunosuppressive treatment
- 9. Leukaemic leptomeningeal or leukaemic central nervous system involvement
- 10. Concomitant uncontrolled infection, organ dysfunction or medical disease likelty to interfere with evaluation of S 055746 safety or study outcome
- 11. Human immunodeficiency virus (HIV)
- 12. Within 6 months prior to the first intake of S 055746, history of myocardial infarction, acute coronary syndromes (including unstable angina), coronary angioplasty, and/or stenting, ischemic /haemorragic stroke, atrial fibrillation, digestive haemorrhagic risk, deep venous/arterial thromboembolic complication or bleeding diathesis
- 13. QTc prolongation
- 14. LVEF assessed by echocardiography or Multi-Gated Acquisition scan (MUGA scan)
- 15. Treatment, food or drink products known to inhibit or induce CYP3A4 within 7 days prior to the first intake
- 16. Treatment highly metabolised by the CYP3A4 and with a narrow therapeutic index within 7 days prior to the first intake.

#### Date of first enrolment

01/01/2015

#### Date of final enrolment

26/12/2017

# Locations

#### Countries of recruitment

Australia

France

# Study participating centre Department of Haematology

Melbourne Australia VIC 3004

## Study participating centre Royal Melbourne Hospital

300 Grattan St Parkville Melbourne Australia VIC 3050

# Study participating centre Institut Paoli Calmettes

232, boulevard Sainte Marguerite Marseille France 13009

# Study participating centre Hôpital Lyon-Sud

165 Chemin du Grand Revoyet Pierre-Bénite France 69310

# Study participating centre Hôpital Saint-Louis

1 Avenue Claude Vellefaux Paris France 75010

# Sponsor information

#### Organisation

Institut de Recherches Internationales Servier (France)

#### **ROR**

https://ror.org/034e7c066

# Funder(s)

#### Funder type

Industry

#### Funder Name

**ADIR** 

# **Results and Publications**

#### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from https://clinicaltrials.servier.com/ after the marketing authorisation has been granted.

Previous publication and dissemination plan:

The trialists will comply with regulatory requirements. Summary results and a lay summary will be published on https://clinicaltrials.servier.com within 12 months after the end of the study. IPD sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from https://clinicaltrials.servier.com after Marketing Authorisation has been granted.

# IPD sharing plan summary

Available on request

# Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Basic results			23/05/2019	No	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Plain English results			23/05/2019	No	Yes