

Study of CHR-3996 in combination with tosedostat in subjects with multiple myeloma

Submission date 19/04/2011	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 22/06/2011	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 10/05/2016	Condition category Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

<http://www.cancerresearchuk.org/cancer-help/trials/a-trial-looking-chr-3996-tosedostat-myeloma>

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

HM11/9825

Study information

Scientific Title

A phase I/IIa dose escalation study of CHR-3996 in combination with tosedostat in subjects with relapsed refractory multiple myeloma

Acronym

MUK three

Study objectives

In vitro and in vivo data suggest histone deacetylases (HDAC) inhibitors have an anti-myeloma effect, however it seems unlikely that this class of drugs will be used in the clinics as monotherapy. Phase I studies demonstrate that both CHR-3996 and tosedostat are safe and tolerable when dosed as monotherapy. In addition, there is a strong preclinical rationale supporting the combination of a HDAC inhibitor and aminopeptidase inhibitor in myeloma.

The purpose of this study is therefore to determine the safety and preliminary activity of CHR-3996 administered in combination with tosedostat in subjects with relapsed, refractory multiple myeloma.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Open label multi-centre phase I/IIa trial

Primary study design

Interventional

Secondary study design

Non randomised study

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Multiple myeloma

Interventions

Dose escalation of CHR-3996 and tosedostat

Intervention Type

Drug

Phase

Phase I/II

Drug/device/biological/vaccine name(s)

Tosedostat

Primary outcome measure

1. Dose escalation phase:

1.1. To determine the maximum tolerated dose (MTD) of CHR-3996 and tosedostat, administered in combination, in subjects with relapsed or refractory multiple myeloma.

1.2. We define the MTD to be the dose where at least 2/3 or at least 2/6 patients have a DLT. Therefore the dose taken to the expansion phase will be the MTD-1, or dose level 5 if this highest dose level is reached in the dose escalation phase and no MTD is found. This dose, taken forward to the expansion phase, will be called the recommended dose (RD).

2. Dose expansion phase:

To estimate the response rate (stable disease or better) after four cycles of CHR-3996 and tosedostat at the RD identified in the dose escalation phase

Secondary outcome measures

1. To estimate the safety profile of CHR-3996 and tosedostat administered in combination in subjects with relapsed or refractory multiple myeloma

2. To estimate maximum response within six cycles of therapy

3. To estimate maximum response to therapy overall

4. To estimate time to maximum response from therapy

5. To estimate progression-free survival

6. To estimate overall survival

7. To determine the number of patients with CHR-3996 or tosedostat dose reductions

8. To assess compliance to therapy until toxicity, intolerance or progression

9. To assess the pharmacokinetic and pharmacodynamic profile of CHR-3996 when administered in combination with tosedostat

Overall study start date

01/07/2011

Completion date

01/07/2012

Eligibility

Key inclusion criteria

1. Able to give informed consent and willing to follow study protocol

2. Aged 18 years or over

3. Subjects with multiple myeloma diagnosed according to standard criteria, who have been treated with at least one prior therapy, including bone marrow transplantation (if suitable), and currently requiring further treatment due to relapse or non-response

4. ECOG Performance Status less than or equal to 2

5. Required laboratory values within 14 days prior to registration:

5.1. Absolute neutrophil count $>1.0 \times 10^9/L$, growth factor support is permitted

5.2. Platelet count $>25 \times 10^9/L$, platelet support is permitted

- 5.3. Haemoglobin >8.0g/dL, blood support is permitted
- 5.4. Bilirubin <2 x upper limit of normal (ULN), excluding cases where elevated bilirubin can be attributed to Gilberts syndrome
- 5.5. Aspartate aminotransferase (AST) and/or alanine aminotransferase (ALT) <2.5 x ULN; except in subjects with known hepatic involvement, where AST and/or ALT <5.0 x ULN
- 5.6. Serum creatinine <2.0 x ULN
- 5.7. Corrected calcium <2.8 mmol/L.
- 6. Anticipated survival of at least 4 months
- 7. Evaluable disease per modified International Working Group (IWG) criteria, utilising the following assessments as appropriate:
 - 7.1. Measurement of serum monoclonal protein
 - 7.2. Measurement of serum free light chains
 - 7.3. Measurement of urine M protein (Bence Jones protein) (differential creatinine)
 - 7.4. Detection of plasma cells in bone marrow biopsy or aspirate sample
- 8. Female subjects of child-bearing potential must have a negative pregnancy test within 24 hours prior to starting therapy and agree to use dual methods of contraception for the duration of the study
- 9. Male subjects must agree to use a barrier method of contraception for the duration of the study if sexually active with a female of child-bearing potential

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

60

Key exclusion criteria

- 1. Pregnant (positive pregnancy test) or breastfeeding women
- 2. Patients with high urinary light chain levels (> 1g/24 hours)
- 3. Previous anti-tumour therapies, including prior experimental agents or approved anti-tumour small molecules and biologics within 28 days before the start of protocol treatment (or a longer period depending on the defined characteristics of the agents)
- 4. Steroid therapy to stop rapid relapse during this period is permitted, but must be stopped 7 days prior to study drug administration
- 5. Bisphosphonates for bone disease and radiotherapy for palliative intent are also permitted
- 6. Concurrent or previous malignancies (<12 months post end of treatment) at other sites with the exception of appropriately treated localised epithelial skin or cervical cancer
- 7. Patients with histories (\geq 12 months) of other tumours may be entered
- 8. Poorly controlled or serious medical or psychiatric illness that, in the Investigators opinion, is likely to interfere with participation and/or compliance in this clinical study
- 9. Patients with significant cardiovascular disease (e.g. history of congestive heart failure requiring therapy, presence of severe valvular heart disease, presence of an atrial or ventricular

arrhythmia requiring treatment, uncontrolled hypertension, a history of QTc abnormalities or with QTcF intervals >450 msec)

10. Active symptomatic fungal, bacterial, and/or viral infection including active human immunodeficiency virus (HIV) or viral (A, B, or C) hepatitis

11. Gastrointestinal disorders that may interfere with absorption of the study drug

12. Abnormal plasma potassium, calcium or magnesium levels (CTCAE v4 Grade 3 or greater) despite therapy

Date of first enrolment

01/07/2011

Date of final enrolment

01/07/2012

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

Clinical Trials Research Unit

Leeds

United Kingdom

LS2 9JT

Sponsor information

Organisation

University of Leeds (UK)

Sponsor details

Research & Development

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Leeds Teaching Hospital Trust

Leeds

England

United Kingdom

LS2 9LN

Sponsor type

University/education

ROR

<https://ror.org/024mrxd33>

Funder(s)

Funder type

Charity

Funder Name

Myeloma UK (UK)

Funder Name

Chroma Therapeutics Ltd (UK)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration