

Cyclophosphamide and dexamethasone in combination with ixazomib, in relapsed or refractory multiple myeloma (RRMM) patients who have relapsed after treatment with thalidomide, lenolidomide and bortezomib

Submission date 26/08/2015	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 26/08/2015	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 07/08/2025	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

<https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-trial-of-cyclophosphamide-dexamethasone-and-ixazomib-for-myeloma-muk-8>

Contact information

Type(s)

Scientific

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Additional identifiers

ClinicalTrials.gov (NCT)

NCT02461888

Clinical Trials Information System (CTIS)

2014-004511-36

Integrated Research Application System (IRAS)

167060

Central Portfolio Management System (CPMS)

19412

Study information

Scientific Title

A randomised Phase II trial of cyclophosphamide and dexamethasone in combination with Ixazomib, in relapsed or refractory multiple myeloma (RRMM) patients who have relapsed after treatment with thalidomide, lenalidomide and bortezomib.

Acronym

MUK Eight

Study objectives

The aim of this study is to run a phase II trial of cyclophosphamide and dexamethasone in combination with Ixazomib (MLN9708), in relapsed or refractory multiple myeloma (RRMM) patients who have relapsed after treatment with thalidomide, lenalidomide and bortezomib.

Ethics approval required

Old ethics approval format

Ethics approval(s)

North West-Liverpool East, 12/06/2015, ref: 15/NW/0416

Study design

Randomized; Interventional; Design type: Treatment

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Myeloma

Interventions

Participants will be randomised to receive either ICD (ixazomib, cyclophosphamide and dexamethasone) or CD (cyclophosphamide and dexamethasone). All cycles of treatment consist of 28 days and treatment will continue until disease progression death, unacceptable toxicity or withdrawal of consent, whichever is sooner.

Intervention Type

Other

Phase

Phase II

Primary outcome(s)

To evaluate whether ICD has improved clinical activity compared to CD in patients with RRMM

Key secondary outcome(s)

1. To further evaluate the clinical activity of ICD with regard to additional secondary endpoints
2. To determine the safety and toxicity profile of ICD
3. To determine the cost-effectiveness of ICD compared to CD
4. To determine quality of life with ICD
5. To assess the impact of baseline Charlson index score on
6. Outcomes and deliverability of treatment

Completion date

19/01/2025

Eligibility

Key inclusion criteria

1. Able to give informed consent and willing to follow study protocol assessments
2. Aged 18 years or over
3. Participants with confirmed MM based on IMWG criteria, 2009
4. Measurable disease with at least one of the following:
 - 4.1. Paraprotein >5g/L or 0.5 g/l for IgD subtype;
 - 4.2. Serum-free light chains >100mg/L with abnormal ratio for light chain only myeloma;
 - 4.3. Bence Jones protein >200mg/L
5. Participants with relapsed or relapsed refractory myeloma and now require further treatment following exposure to thalidomide, lenalidomide and bortezomib regardless of response to these
6. ECOG Performance Status = 2
7. Required laboratory values within 14 days prior to Randomisation:
 - 7.1. -Platelet count =50x10⁹/L. Platelet count of 30-50 is acceptable if bone marrow aspirate shows tumour replacement of >50%. Platelet support is permitted within 14 days prior to randomisation although platelet transfusions to help patients meet eligibility criteria are not allowed within 72 hours prior to the blood sample to confirm protocol eligibility
 - 7.2. -Absolute neutrophil count =1.0 x 10⁹/L. Growth factor support is not permitted within 14 days prior to randomisation
 - 7.3. Haemoglobin > 9 g/dL. Blood support is permitted
 - 7.4. ALT and / or AST =3 x upper limit of normal
 - 7.5. -Creatinine clearance = 30 ml/min (using Cockcroft Gault formula)
 - 7.6. -Bilirubin =1.5 x upper limit of normal
8. Female participants should avoid becoming pregnant and male participants should avoid impregnating a female partner. Both non-sterilised and sterilised females and males of reproductive age should use effective methods of contraception during the entire trial treatment (including treatment breaks) and up to 90 days after the last dose of trial treatment
9. Post-allograft patients may be included if >12 months from transplant

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

112

Key exclusion criteria

1. Those with non-measurable disease, a solitary bone or solitary extramedullary plasmacytoma, Plasma cell leukaemia
2. Prior malignancy other than those treated with surgery.
3. Participants with a known or underlying uncontrolled concurrent illness that, in the investigators opinion, would make the administration of the study drug hazardous or circumstances that could limit compliance with the study, including, but not limited to the following: acute or chronic graft versus host disease, uncontrolled hypertension, symptomatic congestive heart failure, unstable angina pectoris, myocardial infarction within past 6 months, uncontrolled cardiac arrhythmia, renal failure, psychiatric or social conditions that may interfere with participant compliance, or any other condition (including laboratory abnormalities) that in the opinion of the Investigator places the participant at unacceptable risk for adverse outcome if he/she were to participate in the study.
4. Patients who have previously received Ixazomib or MLN9708 in a trial. Previous experimental agents or approved anti-tumour treatment within 30 days before the date of randomisation.
5. A maximum of 160mg of dexamethasone (in 40mg blocks) may be given between screening and the beginning of treatment if medically required but should be stopped before trial treatment starts. Bisphosphonates for bone disease and radiotherapy for palliative intent are also permitted.
6. Participants with a history of a refractory nausea, diarrhoea, vomiting, malabsorption, gastrointestinal surgery or other procedures that might, in the opinion of the Investigator, interfere with the absorption or swallowing of the study drug(s)
7. Peripheral neuropathy of = grade 2 (or grade 1 with pain) severity (as per NCI-CTCAEv4.0)
8. Gastrointestinal disorders that may interfere with absorption of the study drug
9. Active symptomatic fungal, bacterial, and/or viral infection including known active HIV or known viral (A, B or C) hepatitis
10. Female patients who are lactating or have a positive pregnancy test during the screening period
11. Known allergy to any of the study medications, their analogues, or excipients in the various formulations of any agent
12. Systemic treatment, within 14 days before the first dose of Ixazomib, with strong inhibitors of CYP1A2 (fluvoxamine, enoxacin, ciprofloxacin), strong inhibitors of CYP3A (clarithromycin, telithromycin, itraconazole, voriconazole, ketoconazole, nefazodone, posaconazole) or strong CYP3A inducers (rifampin, rifapentine, rifabutin, carbamazepine, phenytoin, phenobarbital), or

use of Ginkgo biloba or St. John's wort

13. Major surgery within 14 days prior to the date of randomisation

14. Radiotherapy within 7 days for palliative pain control or therapeutic radiotherapy within 14 days prior to randomisation

15. Myeloma involving the Central Nervous System

Date of first enrolment

01/10/2015

Date of final enrolment

01/09/2017

Locations

Countries of recruitment

United Kingdom

England

Wales

Study participating centre

St James Hospital (lead centre)

Leeds

United Kingdom

LS9 7TF

Study participating centre

St Bartholomew's Hospital

London

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EC1M 6BQ

Study participating centre

Bristol Haematology and Oncology Centre

Horfield Rd

Avon

Bristol

United Kingdom

BS2 8ED

Study participating centre

The Christie NHS Foundation Trust

550 Wilmslow Rd
Manchester
United Kingdom
M20 4BX

Study participating centre

Guys & St Thomas' NHS Foundation Trust

London
United Kingdom
SE1 9RT

Study participating centre

Birmingham Heartlands Hospital

Bordesley Green East
Bordesley Green
Birmingham
United Kingdom
B9 5SS

Study participating centre

Imperial College Healthcare

London
United Kingdom
SW7 9RT

Study participating centre

Nottingham University Hospital

Derby Rd
Nottingham
United Kingdom
NG7 2UH

Study participating centre

Churchill Hospital

Oxford
United Kingdom
OX3 7LE

Study participating centre
Queen Elizabeth Hospital
Queen Elizabeth Medical Centre
Birmingham
United Kingdom
B15 2TH

Study participating centre
Royal Liverpool University Hospital
Prescot Street
Liverpool
United Kingdom
L7 8XP

Study participating centre
The Royal Marsden NHS Foundation Trust
Downs Rd
Sutton
United Kingdom
SM2 5PT

Study participating centre
Royal Hallamshire Hospital
Glossop Rd
Sheffield
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S10 2SJ

Study participating centre
Southampton General Hospital
Tremona Rd
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SO16 6YD

Study participating centre
Singleton Hospital
Sketty Ln
Sketty

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SA2 8QA

Study participating centre
University College London
250 Euston Road
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Study participating centre
New Cross Hospital
Wednesfield Rd
Wolverhampton
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WV10 0QP

Sponsor information

Organisation
University of Leeds

ROR
<https://ror.org/024mrx33>

Funder(s)

Funder type
Charity

Funder Name
Myeloma UK

Alternative Name(s)

Funding Body Type
Private sector organisation

Funding Body Subtype

Other non-profit organizations

Location

United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

De-identified individual participant data datasets generated and/or analysed during the current study will be available upon request from the Clinical Trials Research Unit, University of Leeds (contact CTRU-DataAccess@leeds.ac.uk in the first instance). Data will be made available at the end of the trial, i.e. usually when all primary and secondary endpoints have been met and all key analyses are complete. Data will remain available from then on for as long as CTRU retains the data.

CTRU makes data available by a 'controlled access' approach. Data will only be released for legitimate secondary research purposes, where the Chief Investigator, Sponsor and CTRU agree that the proposed use has scientific value and will be carried out to a high standard (in terms of scientific rigour and information governance and security), and that there are resources available to satisfy the request. Data will only be released in line with participants' consent, all applicable laws relating to data protection and confidentiality, and any contractual obligations to which the CTRU is subject. No individual participant data will be released before an appropriate agreement is in place setting out the conditions of release. The agreement will govern data retention, usually stipulating that data recipients must delete their copy of the released data at the end of the planned project.

The CTRU encourages a collaborative approach to data sharing, and believe it is best practice for researchers who generated datasets to be involved in subsequent uses of those datasets. Recipients of trial data for secondary research will also receive data dictionaries, copies of key trial documents and any other information required to understand and reuse the released datasets.

The conditions of release for aggregate data may differ from those applying to individual participant data. Requests for aggregate data should also be sent to the above email address to discuss and agree suitable requirements for release.

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		01/04/2022	04/04/2022	Yes	No
Results article		01/04/2022	07/08/2025	Yes	No
Protocol article		02/10/2020	07/10/2020	Yes	No
Abstract results	P11	17/04/2022	12/09/2023	No	No
HRA research summary			28/06/2023	No	No
Plain English results			12/02/2025	No	Yes
Poster results		17/04/2022	12/09/2023	No	No