# CytoMegaloVirus: Alternate donor Study of Pre-Emptive Cellular Therapy

Recruitment status	[X] Prospectively registered
02/04/2009 No longer recruiting	☐ Protocol
Overall study status	Statistical analysis plan
23/04/2009 Completed	☐ Results
Condition category	Individual participant data
13/03/2019 Infections and Infestations	<ul><li>Record updated in last year</li></ul>
	No longer recruiting  Overall study status  Completed  Condition category

# Plain English summary of protocol

http://www.cancerhelp.org.uk/trials/a-trial-looking-treatment-cytomegalovirus-after-stem-cell-bone-marrow-transplant-cmv-impact

# Contact information

# Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

ClinicalTrials.gov (NCT)

NCT01220895

Protocol serial number

CM-2009-01

# Study information

#### Scientific Title

A prospective phase I/II study to investigate the efficacy and safety of pre-emptive cytomegalovirus adoptive cellular therapy in patients receiving allogeneic haematopoietic stem cell transplant from an unrelated donor

#### Acronym

**CMV: ASPECT** 

## Study objectives

The study will test the hypothesis that adoptive cellular therapy (ACT) can augment the impaired cytomegalovirus (CMV) immune function post-transplant and reduce the requirement for CMV antiviral drug therapy without causing an increase in graft-versus-host disease (GvHD).

# Ethics approval required

Old ethics approval format

# Ethics approval(s)

Submitted to University College London Hospitals Research Ethics Committee (UCLH REC) Alpha for review on 07/05/2009 (ref: 09/H0715/47) – approval pending

## Study design

Open-label randomised study

## Primary study design

Interventional

# Study type(s)

Treatment

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

Cytomegalovirus

#### **Interventions**

Patients will be randomised to receive pre-emptive infusion of gamma-captured CMV-specific T-cells administered upon first CMV PCR+ result, along with standard monitoring and pre-emptive CMV anti-viral drug therapy as required (treatment arm A) or standard CMV anti-viral drug therapy alone (treatment arm B) in the ratio of 2:1.

The patient will be assessed for CMV viraemia on a weekly basis up to 100 days following HSCT. On presentation of CMV viraemia the patient will receive the ACT infusion within 72 hours. They will then be assessed on a weekly basis up to 70 days post-infusion and monthly thereafter up to six months. Patients in the control arm will be followed up on a weekly and monthly basis as before but will not receive the ACT infusion.

## **Intervention Type**

Biological/Vaccine

#### Phase

Phase I/II

# Primary outcome(s)

The percentage of patients with a peak number of circulating CMV-reactive T-cells above 10 x 10^6/l within the first two months post single positive PCR result (or ACT infusion), measured in the first two months following ACT infusion.

# Key secondary outcome(s))

- 1. Incidence and severity of GvHD
- 2. The earliest detection of CMV-reactive T cells in the peripheral blood
- 3. Duration of CMV antiviral drug therapy (total days), number of in-patient days and number of reactivation episodes

All measured on a weekly basis for the first 100 days following infusion and then monthly up to 6 months thereafter.

## Completion date

01/02/2014

# Eligibility

#### Key inclusion criteria

- 1. Aged 16 years or older, either sex
- 2. Allogeneic T-cell depleted (alemtuzumab-containing conditioning regimen) haematopoietic stem cell transplant (HSCT) recipient with CMV seropositive unrelated donor
- 3. Informed consent:
- 3.1. Prepared to undergo additional study procedures as per study schedule
- 3.2. Patient has undergone counselling about risk

To be assessed prior to CMV-specific T cell infusion (for confirmation prior to product release):

- 4. Donor engraftment (neutrophils greater than  $0.5 \times 10^9/l$ )
- 5. Single positive CMV polymerase chain reaction (PCR) result

# Participant type(s)

Patient

# Healthy volunteers allowed

No

# Age group

Adult

#### Sex

All

# Key exclusion criteria

- 1. Pregnant or lactating women
- 2. Co-existing medical problems that would place the patient at significant risk of death due to GvHD or its sequelae
- 3. Human immunodeficiency virus (HIV) infection

To be assessed prior to CMV-specific T cell infusion (for confirmation prior to product release):

- 4. Active acute GvHD greater than Grade I
- 5. Concurrent use of systemic corticosteroids

- 6. Organ dysfunction as measured by:
- 6.1. Creatinine greater than 200 uM/l
- 6.2. Bilirubin greater than 50 uM/l
- 6.3. Alanine aminotransferase (ALT) greater than 3 x upper limit of normal

### Date of first enrolment

01/06/2009

#### Date of final enrolment

01/07/2013

# Locations

#### Countries of recruitment

United Kingdom

England

# Study participating centre UCL Cancer Institute

London United Kingdom WC1E 6BT

# Sponsor information

### Organisation

Cell Medica Ltd (UK)

#### **ROR**

https://ror.org/027q99w81

# Funder(s)

# Funder type

Industry

#### **Funder Name**

Cell Medica Ltd (UK) - provide indemnity, prepare the ACT product and subsidise the performance of immune reconstitution assays

#### Funder Name

Miltenyi Biotec (Germany) - subsidising some materials and reagents used

#### **Funder Name**

Royal Free and University College London (UK) - Haematology Department will pick up additional costs associated with participation

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type Details Date created Date added Peer reviewed? Patient-facing?

Participant information sheet Participant information sheet 11/11/2025 11/11/2025 No Yes