# Autologous Stem cell Transplantation International Scleroderma (ASTIS) trial

Submission date	Recruitment status  No longer recruiting	<ul><li>Prospectively registered</li></ul>	
21/09/2005		[X] Protocol	
Registration date	Overall study status	Statistical analysis plan	
19/10/2005	Completed	[X] Results	
<b>Last Edited</b> 25/07/2014	Condition category  Musculoskeletal Diseases	[] Individual participant data	
23/01/2017	Mascaloskeletal Discases		

# Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

# Protocol serial number

**NTR338** 

# Study information

## Scientific Title

High dose immunoablation and autologous haematopoietic stem cell transplantation versus monthly intravenous pulse therapy

## **Acronym**

**ASTIS** 

## **Study objectives**

It is postulated that high dose immunoablation and autologous stem cell transplantation has superior clinical benefit in comparison to intravenous pulse therapy cyclophosphamide, with respect to survival and prevention of major organ failure (referred to as event-free survival which is considered the primary endpoint) and has a greater impact on skin thickening, visceral involvement, functional status and quality of life.

On 17/04/2012 the following changes were made to the trial record:

- 1. Australia has been removed from the countries of recruitment and Belgium added.
- 2. The target number of participants has been changed from 200 to 156.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethics approval received from the local medical ethics committee

## Study design

Multicentre randomised active-controlled parallel-group trial

## Primary study design

Interventional

# Study type(s)

Treatment

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

Systemic sclerosis

#### **Interventions**

This multicentre prospective randomised controlled phase III study compares efficacy and safety of high dose immunoablation and autologous haematopoietic stem cell transplantation (HSCT) (considered the investigational treatment), versus monthly intravenous pulse-therapy cyclophosphamide (considered the control treatment). The investigational treatment arm comprises the following consecutive steps:

- 1. Mobilisation of haematopoietic stem cells with intravenous (IV) cyclophosphamide (2 x 2 g /m^2) and filgrastim (10 mg/kg/day)
- 2. Leukapheresis and selection of CD34+ stem cells
- 3. Conditioning with IV cyclophosphamide (200 mg/kg) and rbATG (7.5 mg/kg)
- 4. HSCT

The procedures are normally completed within three to four months after randomisation.

The control treatment arm consists of 12 consecutive monthly IV pulses cyclophosphamide (750 mg/m^2).

As of 17/04/2012, the sponsor name has been amended from European Group Bone Marrow + Transplantation (EBMT)/European League Against Rheumatism (EULAR) Working Party Autoimmune Diseases to European Group for Bone Marrow Transplantation.

#### Intervention Type

Drug

#### Phase

Phase III

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

Cyclophosphamide, filgrastim, rabbit Anti-Thymocyte Globulin (rbATG)

## Primary outcome(s)

Current primary outcome measure(s) as of 29/05/2012

The primary endpoint is event-free survival defined as the time in days from the day of randomisation until the occurrence of death or the development of persistent major organ failure (heart, lung, kidney).

Previous primary outcome measure(s)

The primary endpoint is event-free survival defined as the time in days from the day of randomisation until the occurrence of death or the development of persistent major organ failure (heart, lung, kidney) during the study period of two years.

## Key secondary outcome(s))

Key secondary outcomes include:

- 1. Treatment related mortality
- 2. Treatment toxicity
- 3. Progression-free survival

# Completion date

01/01/2008

# **Eligibility**

## Key inclusion criteria

Patients with diffuse systemic sclerosis, aged 16 to 65 years, and:

- 1. Disease duration four years or less, plus evidence of heart, lung or kidney involvement, plus skin score of 15 or more, or
- 2. Disease duration two years or less, plus evidence of an acute phase reaction in blood, plus skin score 20 or more

# Participant type(s)

Patient

# Healthy volunteers allowed

No

# Age group

Adult

#### Sex

Αll

# Key exclusion criteria

Patients with concomitant severe disease, extensive pretreatment according to predefined criteria with cyclophosphamide are excluded.

# Date of first enrolment

22/03/2001

# Date of final enrolment

01/01/2008

# Locations

# Countries of recruitment **United Kingdom**

England

Austria

Belgium

Canada

France

Germany

Greece

Italy

Netherlands

**Switzerland** 

Study participating centre Institute of Cellular Medicine, Newcastle upon Tyne United Kingdom NE2 4HH

# Sponsor information

# Organisation

European Group for Bone Marrow Transplantation

# Funder(s)

# Funder type

Industry

#### Funder Name

European League Against Rheumatism (EULAR)

#### **Funder Name**

Amgen Europe

#### Funder Name

Sangstat B.V. (The Netherlands)

#### **Funder Name**

Horton Foundation (Switzerland)

#### **Funder Name**

AP-HP

#### Alternative Name(s)

Assistance Publique Hôpitaux de Paris, Assistance Publique-Hôpitaux de Paris, AP-HP

#### **Funding Body Type**

Private sector organisation

#### Funding Body Subtype

Trusts, charities, foundations (both public and private)

#### Location

France

#### **Funder Name**

European Group for Blood and Marrow Transplantation (EBMT)

# **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?
Results article	results	25/06/2014	Yes	No
<u>Protocol article</u>	protocol	01/10/2005	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2025	No	Yes