# Prevention of vascular damage in scleroderma with angiotensin-converting enzyme inhibition

Submission date Recruitment status [ ] Prospectively registered 05/02/2002 No longer recruiting [X] Protocol [ ] Statistical analysis plan Registration date Overall study status 05/02/2002 Completed [X] Results [ ] Individual participant data **Last Edited** Condition category 25/11/2010 Musculoskeletal Diseases

## Plain English summary of protocol

Not provided at time of registration

# **Contact information**

## Type(s)

Scientific

#### Contact name

Dr Peter Maddison

#### Contact details

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# Additional identifiers

Protocol serial number M0616

# Study information

Scientific Title

**Acronym** 

#### **QUINS**

#### **Study objectives**

The objective is to assess the efficacy and tolerability of the Angiotensin-Converting Enzyme (ACE) inhibitor, quinapril, in the management of peripheral vascular manifestations and in preventing progression of visceral organ involvement in patients who fall into the limited cutaneous subset of Systemic Sclerosis (SSc).

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Not provided at time of registration

#### Study design

Randomised controlled trial

#### Primary study design

Interventional

## Study type(s)

Treatment

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

Scleroderma

#### **Interventions**

Patients will be randomised to quinapril (20 mg/day) or placebo. The dose will be increased by 20 mg every 2 weeks to a maximum dose of 80 mg/day. Treatment will be for 3 years.

#### Intervention Type

Drug

#### **Phase**

**Not Specified** 

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

Quinapril

## Primary outcome(s)

The rate of occurrence of new ischaemic digital ulcers.

# Key secondary outcome(s))

- 1. Frequency and severity of Raynaud's phenomenon
- 2. Introduction of vasodilators
- 3. Use of measures such as IV Iloprost to treat ischaemic digital lesions
- 4. Progression of scleroderma skin score
- 5. Progression of pulmonary and renal disease
- 6. Occurrence of death, significant macrovascular complications such as stroke and myocardial

infarction, and pulmonary hypertension

7. Laboratory measures of endothelial/microvascular injury including von Willebrand factor antigen level, urinary levels of N-Acetyl-Glucosaminidase (NAG) and microalbuminuria

#### Completion date

30/11/2006

# **Eligibility**

#### Key inclusion criteria

- 1. Patients aged 18 years or over, and
- 1.1. Limited cutaneous Systemic Sclerosis (lcSSc) and Raynaud's phenomenon in which scleroderma is limited to the hands, forearms, face, lower legs and feet, or
- 1.2. Raynaud's phenomenon and a SSc-specific autoantibody such as anticentromere antibodies, anti-topoisomerase 1, anti-RNApolymerase antibodies, anti-ThRNP antibodies and anti-U3RNP antibodies

#### Participant type(s)

Patient

#### Healthy volunteers allowed

No

#### Age group

**Not Specified** 

#### Lower age limit

18 years

#### Sex

**Not Specified** 

#### Key exclusion criteria

- 1. Known allergy to or intolerance of ACE inhibitors
- 2. Women of childbearing age not using reliable contraception [for example, abstinence, oral or implanted contraception, sexual partner had non-reversed vasectomy, or intra-uterine device (IUD)]
- 3. History of angioneurotic oedema
- 4. Significant impairment of renal or hepatic function
- 5. Severe obstructive valvular heart disease
- 6. Any other condition that would prevent compliance with treatment or adequate assessment

#### Date of first enrolment

01/12/2000

#### Date of final enrolment

30/11/2006

# Locations

#### Countries of recruitment

**United Kingdom** 

Wales

Study participating centre Gwynedd Rheumatology Service Bangor United Kingdom LL57 2PW

# Sponsor information

#### Organisation

Arthritis Research Campaign (ARC) (UK)

#### **ROR**

https://ror.org/02jkpm469

# Funder(s)

## Funder type

Charity

#### **Funder Name**

Arthritis Research Campaign (UK)

# **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	01/11/2007		Yes	No
Protocol article	protocol	01/09/2002		Yes	No