Circulating CD4posCD28neg T cells in patients with chronic kidney disease;the relation with CMV latency and atherosclerotic disease.

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1. Demonstration of the relation between stage of CKD, CMV seropositivity and the presence of CD4+CD28- T cells2. Presence and cytotoxic potential of CD4+CD28- T cells in the peripheral blood of patients with endstage CKD and the relation with...

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Ancillary infectious topics
Study type	Observational invasive

Summary

ID

NL-OMON31067

Source
ToetsingOnline

Brief title
Circulating CD4posCD28neg T cells in patients with chronic kidney disease

Condition

- Ancillary infectious topics
- Nephropathies
- Arteriosclerosis, stenosis, vascular insufficiency and necrosis

Synonym
atherosclerosis

Research involving
Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: atherosclerosis, cytomegalovirus, kidney disease, T cells

Outcome measures

Primary outcome

1. presence of CD4+CD28- T cells in relation to stage of CKD and CMV

seropositivity

2. cytotoxische quality of CD4+CD28- T cells in relation to to stage of CKD

3. presence of CD4+CD28- T cells and presence of atherosclerotic disease

Secondary outcome

not applicable

Study description

Background summary

Chronic kidney disease (CKD) is an independent risk factor for atherosclerosis. Presence and function of so-called CD4+CD28- T cells could play a part in the hugely increased risk for atherosclerotic disease events in these patients. CKD may increase these type of cells in which previous infection with cytomegalovirus may be important.

Study objective

1. Demonstration of the relation between stage of CKD, CMV seropositivity and the presence of CD4+CD28- T cells
2. Presence and cytotoxic potential of CD4+CD28- T cells in the peripheral blood of patients with endstage CKD and the relation with atherosclerotic disease.

Study design

1. Analysis of numbers and functional quality of CD4+CD28- T cells in the peripheral blood of patients with CKD at different stages in relation to CMV seropositivity.
2. Analysis of numbers and functional quality of CD4+CD28- T cells in the peripheral blood of patients with endstage CKD and the relation with the presence of atherosclerotic disease.

Study burden and risks

donation of 20 ml of blood by vena puncture. Minimal risk involved with this procedure.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

age >18 years
Chronic kidney disease

Exclusion criteria

patients suffering from:
active infection
malignancy
auto-immune disease

Study design

Design

Study type: Observational invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-11-2007
Enrollment:	280
Type:	Actual

Ethics review

Approved WMO

Date:	03-10-2007
Application type:	First submission
Review commission:	METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL18392.078.07