# The retro-orbital fibrobast: a key player in Graves\* opthalmopathy and a target for therapy.

Published: 12-06-2007 Last updated: 11-05-2024

Development, optimization and implementation of retro-orbital fibroblast cultures in our laboratory.

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Thyroid gland disorders
Study type	Observational invasive

# Summary

### ID

NL-OMON35634

**Source** ToetsingOnline

**Brief title** Graves' and the retro-orbital fibroblast.

### Condition

- Thyroid gland disorders
- Ocular infections, irritations and inflammations
- Autoimmune disorders

**Synonym** Graves' disease

**Research involving** Human

### **Sponsors and support**

**Primary sponsor:** Oogziekenhuis Rotterdam **Source(s) of monetary or material Support:** Stichting Wetenschappelijk Onderzoek

Oogziekenhuis - Prof Dr H J Flieringa

### Intervention

Keyword: Auto-immune reaction, Cell culture, Graves' ophthalmopathy, Thyroid

### **Outcome measures**

#### **Primary outcome**

Production of IL-16 by orbital fibroblast in culture after stimulation with

patient IgG.

#### Secondary outcome

Production of RANTES, hyaluronan and the proliferation level of orbital

fibroblasts in culture after stimulation with patient IgG.

# **Study description**

#### **Background summary**

In the present model of immune pathogenesis of Graves\* ophtalmopathy, a concerted action of various immune cells and antibodies is conjectured to cause this thyroid eye disease. In vitro studies may help to understand these processes more thoroughly.

#### **Study objective**

Development, optimization and implementation of retro-orbital fibroblast cultures in our laboratory.

#### Study design

Laboratory study of immunological processes involving the retro-orbital fibroblast.

#### Study burden and risks

Participants of this study do not benefit from the results of this study. Risks are negligible.

# 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**

General inclusion criteria:

- age >= 18 years
- written informed consent;Graves\* patients:
- hyperthyroid
- raised free thyroxin (fT4) level
- decreased TSH level
- diffuse non-nodular appearance of thyroid on palpation, scan or ultrasonography
- positivity for TSH-receptor antibodies (Brahms Diagnostics, Berlin, Germany);Contrast AT patients:
- clinically hypothyroid
- lowered serum fT4 level
- raised TSH level

- positive for TPO antibodies

- negative for TSH-receptor antibodies (Brahms Diagnostics, Berlin, Germany);Healthy individuals:

- self-proclaimed good health

- free of any obvious medical illness for at least two weeks prior to the blood withdrawal, including acute infections and allergic reactions

- no medication (apart from anti-conceptive hormonal therapy)

# **Exclusion criteria**

The exclusion criteria for all subjects in the study are: any immune disorder other than thyroid autoimmunity, serious other medical illness, recent infections (last 2 weeks), fever, pregnancy/postpartum for 6 months, obvious vascular complications.

# Study design

### Design

Study type:	Observational invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Basic science

### Recruitment

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NL	
Recruitment status:	Recruiting
Start date (anticipated):	01-10-2007
Enrollment:	98
Туре:	Actual

# **Ethics review**

Approved WMO Date: 12-06-2007

Application type:	First submission
Review commission:	METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)
Approved WMO	
Date:	16-02-2010
Application type:	Amendment
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 CCMO **ID** NL16991.078.07