The Aqueous Humor Ferritin Level in Hereditary Hyperferritinaemia-Cataract Syndrome

Published: 22-10-2009
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To determine the normal ferritin level in the anterior chamber, and to compare this with the ferritin level in HHCS patients.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Congenital and hereditary disorders NEC
Study type	Observational invasive

Summary

ID

NL-OMON33021

Source
ToetsingOnline

Brief title
Aqueous Ferritin & HHCS

Condition

- Congenital and hereditary disorders NEC
- Anterior eye structural change, deposit and degeneration

Synonym
hereditary hyperferritinaemia-cataract syndrome

Research involving
Human

Sponsors and support

Primary sponsor: Sint Franciscus Gasthuis
Source(s) of monetary or material Support: Stichting Wetenschappelijk Onderzoek Oogziekenhuis.

Intervention

Keyword: aqueous humor, ferritin, HHCS

Outcome measures

Primary outcome

Aqueous and serum ferritin level.

Secondary outcome

NA

Study description

Background summary

In hereditary hyperferritinaemia-cataract syndrome (HHCS), ferritin production is upgraded, with serum levels increasing to a tenfold of normal values, without apparent disruption of the iron metabolism. The only relevant clinical symptom is early-onset bilateral cataract due to crystalline ferritin accumulating in the lens. It is unknown how this uptake occurs, and whether this involves any active transport mechanism from, for instance, the anterior chamber or not.

Study objective

To determine the normal ferritin level in the anterior chamber, and to compare this with the ferritin level in HHCS patients.

Study design

Non-interventional, prospective, single-center study.

Study burden and risks

Participants do not benefit from this study. Risks are negligible.

Contacts

Public
Sint Franciscus Gasthuis

Schiedamse Vest 180
3011 BH Rotterdam
Nederland
Scientific
Sint Franciscus Gasthuis

Schiedamse Vest 180
3011 BH Rotterdam
Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

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

Inclusion criteria

Age > 18 years.
Informed consent.
Scheduled for cataract surgery.

Exclusion criteria

HHCS.
Compromised iron metabolism (i.e. haemochromatosis).

Study design

Design

Study type:	Observational invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)

Primary purpose: Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	11-02-2010
Enrollment:	20
Type:	Actual

Medical products/devices used

Registration:	No

Ethics review

Approved WMO

Date:	22-10-2009
Application type:	First submission
Review commission:	TWOR: Toetsingscommissie Wetenschappelijk Onderzoek Rotterdam e.o. (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	NL28673.101.09