

GLANZMANN THROMBASTHENIA NATURAL HISTORY STUDY+

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The main objective is to determine genetic phenotype and the prevalence of anti-HLA (human leucocyte antigen) and anti-HPA (human platelet antigen) antibodies in patients with Glanzmann thrombasthenia.

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

Summary

ID

NL-OMON56766

Source

ToetsingOnline

Brief title

Glanzmann-NHS+

Condition

- Platelet disorders

Synonym

Glanzmann thrombasthenia, Glanzmann's disease

Research involving

Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Utrecht

Source(s) of monetary or material Support: Farmaceutisch bedrijf,Hemab ApS

Intervention

Keyword: Antibody screening, Genetic mutations, Glanzmann thrombasthenia, Platelet disorder

Outcome measures

Primary outcome

To determine the genetic phenotype in patients with Glanzmann thrombasthenia.

Secondary outcome

To estimate the prevalence of Human Leukocyte antigens (HLA) and Human Platelet Antigens (HPA) antibodies in patients with Glanzmann thrombasthenia. These antibodies may develop as a consequence of treatment with the current golden standard: platelet transfusion or transfusion with other blood products including red blood cells and plasma.

Together with the data from the Glanzmann-NHS registry, results from the Glanzmann-NHS+ study will allow to investigate whether there are correlations between genotype and clinical phenotype (bleeding score).

Study description

Background summary

Glanzmann thrombasthenia is a rare autosomal recessive platelet disorder characterized by a lack of functional integrins $\alpha\text{IIb}\beta 3$ (glycoproteins IIb/IIIa). The clinical phenotype is dominated by an increased mucocutaneous bleeding tendency. In absence of a primary bleeding prophylaxis, the current treatment of Glanzmann thrombasthenia is mainly focused on prevention or management of bleeding. However, as potential new therapies emerge, clinicians require long-term safety and efficacy data for both current treatment and new therapies.

The Glanzmann-NHS+ study was designed to investigate genetic phenotype and the prevalence of antibodies against human leucocyte antigen (HLA) and human platelet antigen (HPA), the latter two being a potential consequence of the current golden standard treatment: platelet transfusion. The results of this study will be merged with a longitudinal registry with retrospective and prospective data collection of clinical phenotype, haemorrhagic burden and bleeding management. Analysis of the data from the Glanzmann-NHS+ study and the registry will help us to get a better understanding of the clinical variation among participants with Glanzmann thrombasthenia. The ultimate goal is to accelerate improvement in the care of patients with Glanzmann thrombasthenia.

Study objective

The main objective is to determine genetic phenotype and the prevalence of anti-HLA (human leucocyte antigen) and anti-HPA (human platelet antigen) antibodies in patients with Glanzmann thrombasthenia.

Study design

The Glanzmann-NHS+ study is an international, cross-sectional, multicentre study to determine genetic mutation analysis and the prevalence of anti-HLA and anti-HPA antibodies in patients with Glanzmann thrombasthenia.

Study burden and risks

Results of this study, combined with our longitudinal registry with retrospective and prospective data collection of clinical phenotype, haemorrhagic burden and bleeding management, will contribute to a better understanding of the Glanzmann thrombasthenia and to get more insight into the disease mechanisms. Together, this will help us to improve future therapy options and to improve care for this patient group. The study consists of a single venepuncture that will be combined with venepuncture during route outpatient follow-up. Risk imposed by participation are considered negligible.

Contacts

Public

Universitair Medisch Centrum Utrecht

Heidelberglaan 100 - Huispost C01.428 Heidelberglaan 100 - Huispost C01.428
Utrecht 3584CX
NL

Scientific

Universitair Medisch Centrum Utrecht

Heidelberglaan 100 - Huispost C01.428 Heidelberglaan 100 - Huispost C01.428
Utrecht 3584CX
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adolescents (16-17 years)

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

- o Adult patients (≥ 16 years);
- o Biochemically or genetically diagnosed Glanzmann thrombasthenia.
- o Willing and able to give written informed consent

Exclusion criteria

- Patients with acquired thrombasthenic states caused by auto-immune disorders or drugs.

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):	11-07-2024
Enrollment:	30
Type:	Actual

Ethics review

Approved WMO	
Date:	30-05-2024
Application type:	First submission
Review commission:	METC NedMec
Approved WMO	
Date:	03-09-2024
Application type:	Amendment
Review commission:	METC NedMec

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
ClinicalTrials.gov	NCT06204042
CCMO	NL85068.041.24