

# Visual function in retinal degeneration

<b>Submission date</b> 17/08/2022	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 18/08/2022	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 16/06/2025	<b>Condition category</b> Eye Diseases	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

The study uses some of the most up-to-date techniques to assess different aspects of vision in patients with retinal degeneration. Visual function tests allow measurement of the level of vision such as reading letters on a letter chart. Whereas visual field assessments involve measuring the size of a seen area or the eyes' sensitivity to a particular light level in an area. Ocular imaging involves using a number of devices to capture images of the retina, the light-sensitive part of the eye. This study will enable us to use the latest tests and assessment methods to determine the suitability and usefulness of these visual assessments in patients with inherited retinal disease.

### Who can participate?

Health volunteers can participate as well as patients with a genetically confirmed inherited retinal disease.

### What does the study involve?

The study involves completing a series of letter chart tests and central visual field tests. Tests are completed on each eye and then repeated on the right eye. For patient participants, the study involves the completion of questionnaires about their vision. Some patient participants will also be invited to take part in a recorded interview to understand how they found the different tests.

### What are the possible benefits and risks of participating?

There is no direct participant benefit from taking part in the research aside from contributing to knowledge to improve future patient care.

The extra tests may be slightly tiring, participants will be able to take breaks when needed.

There is a risk that an unknown eye condition in control participants could be detected, if this occurs the participant will be advised to go to their optometrist for an eye test.

### Where is the study run from?

Oxford Eye Hospital, Oxford, England (UK)

### When is the study starting and how long is it expected to run for?

May 2020 to January 2024

Who is funding the study?

This project is funded by the National Institute for Health and Care Research (NIHR) (UK) under its Research for Patient Benefit (RfPB) Programme (Grant Reference Number NIHR202821).

Who is the main contact?

Laura Taylor, trials@eye.ox.ac.uk

## Contact information

### Type(s)

Principal investigator

### Contact name

Mrs Laura Taylor

### ORCID ID

<https://orcid.org/0000-0001-7072-0853>

### Contact details

Oxford Eye Hospital, LG 1 West Wing, John Radcliffe Hospital, Headington

Oxford

United Kingdom

OX3 9DU

01865 231122

trials@eye.ox.ac.uk

## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Integrated Research Application System (IRAS)

286579

### ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

IRAS 286579, CPMS 47247, NIHR202821

## Study information

### Scientific Title

A cross-sectional study to assess the clinical utility of modern visual function assessments in patients with inherited retinal disease

### Acronym

VFIRD

## **Study objectives**

To investigate the clinical utility of degeneration targeting tests of visual function and compare them to the standard measures currently used in patients with retinitis pigmentosa.

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

Approved 17/01/2022, West Midlands - Black Country Research Ethics Committee (The Old Chapel, Royal Standard Place, Nottingham, NG1 6FS, UK; +44 207 104 8141; blackcountry.rec@hra.nhs.uk), ref 20/WM/0283

## **Study design**

Single-centre prospective cross-sectional observational study

## **Primary study design**

Observational

## **Study type(s)**

Other

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

Visual function in patients with inherited retinal disease

## **Interventions**

There will be two arms to the study. The first arm will include control participants. The second arm will include patient participants with confirmed inherited retinal disease. All participants will undergo the same visual field and visual acuity tests. Patient participants will also complete questionnaires. The assessments will take place during a single visit lasting no longer than 120 minutes with breaks included if required, this is in addition to the routine clinical care appointment which typically lasts around 120 minutes including waiting time.

## **Intervention Type**

Other

## **Primary outcome(s)**

Visual function measured at a single time point:

1. Visual acuity
2. Low luminance visual acuity
3. Mesopic microperimetry

## **Key secondary outcome(s)**

Visual function measures and visual field tests measured at a single time point:

1. Moorfields Acuity Chart Test
2. Scotopic Microperimetry
3. Low Luminance Questionnaire

4. Obtain qualitative data via semistructured interviews of patient participants in the day following completion of the study tests. The interviews will explore how the tests made the participants feel and whether any changes or improvements can be made to make the tests more acceptable and accessible.

**Completion date**

01/01/2024

## Eligibility

**Key inclusion criteria**

Patient participants:

1. Participant is willing & able to give informed consent for participation in the study.
2. Male or female, aged 16 years or above, there is no upper age limit.
3. An inherited retinal degeneration diagnosis
4. A minimum of 6/60 standard VA in each eye.
5. Able to participate in visual function testing.

Control participants:

1. Participant is willing & able to give informed consent for participation in the study.
2. Male or female, aged 16 years or above, there is no upper age limit.
3. A minimum standard VA of 6/7.5 in each eye – this will only become apparent once the participant starts the study, if it is clear they do not meet this criterion, they will be excluded from the study and no further testing undertaken.
4. Able to participate in visual function testing.

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

16 years

**Sex**

All

**Total final enrolment**

81

**Key exclusion criteria**

Patient participants:

1. Pre-existing amblyopia or squint would exclude that eye, but other eye still eligible
2. History of other eye problems except those relevant to the study, or glasses or contact lenses, if eye problem in just one eye, the other eye is still eligible
3. Been involved in an interventional research trial where they have received a treatment for their eye condition.

Control participants:

1. Pre-existing amblyopia or squint, fellow eye still eligible
2. History of eye problems, eye treatment or eye surgery other than glasses or contact lenses, if in one eye, fellow eye still eligible.

**Date of first enrolment**

13/08/2021

**Date of final enrolment**

01/01/2024

## **Locations**

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Oxford Eye Hospital**

Lower Ground 1

West Wing

John Radcliffe Hospital

Headington

Oxford

United Kingdom

OX3 9DU

## **Sponsor information**

**Organisation**

University of Oxford

**ROR**

<https://ror.org/052gg0110>

## **Funder(s)**

**Funder type**

Government

**Funder Name**

National Institute for Health and Care Research

**Alternative Name(s)**

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

**Funding Body Type**

Government organisation

**Funding Body Subtype**

National government

**Location**

United Kingdom

**Funder Name**

Research for Patient Benefit Programme

**Alternative Name(s)**

NIHR Research for Patient Benefit Programme, Research for Patient Benefit (RfPB), The NIHR Research for Patient Benefit (RfPB), RfPB

**Funding Body Type**

Government organisation

**Funding Body Subtype**

National government

**Location**

United Kingdom

## Results and Publications

**Individual participant data (IPD) sharing plan**

A data management plan has been created. Results will be made available by the publicly available University of Oxford data repository upon completion of the study and publication of study results.

**IPD sharing plan summary**

Stored in publicly available repository

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		01/07/2025	16/06/2025	Yes	No
<a href="#">Protocol article</a>		24/05/2023	25/05/2023	Yes	No

<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Participant information sheet</a>	Control version 3.0	21/01/2022	17/08/2022	No	Yes
<a href="#">Participant information sheet</a>	Patient version 4.0	11/04/2022	17/08/2022	No	Yes