

# Imperial cardiac conditions registry

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<b>Registration date</b> 01/10/2025	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 01/10/2025	<b>Condition category</b> Circulatory System	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

This study is part of a larger research programme called AIMM (Artificial Intelligence for Multimorbidity). The specific part we're talking about is called the Imperial Cardiac Conditions Registry (ICC Registry). It focuses on people with inherited or structural heart conditions. The goal is to use artificial intelligence (AI) to study heart test results—like ECGs, pacemaker data, and heart scans—to better understand how these conditions develop and change over time. This could help doctors diagnose these conditions earlier and provide more personalised care.

### Who can participate?

The study includes NHS patients who:

- Are over 18 years old
- Have had heart tests as part of their NHS care
- Have a known or suspected inherited heart condition

### What does the study involve?

This is a retrospective study, which means it uses information that has already been collected during routine NHS care. There are no new tests or appointments, and patients will not be contacted.

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

There are no direct benefits or risks to participants, as the study only uses existing data. However, the findings could help improve care for people with inherited heart conditions in the future.

### Where is the study run from?

Imperial College London (UK)

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

The study is already underway and is expected to continue as part of the ongoing AIMM research programme. There is no fixed end date yet.

### Who is funding the study?

British Heart Foundation (UK)

Who is the main contact?

Dr Amanda Varnava, amanda.varnava@nhs.net

Dr Joseph Barker, joseph.barker@imperial.ac.uk

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## Contact information

### Type(s)

Public

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Scientific

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## **Additional identifiers**

### **Clinical Trials Information System (CTIS)**

Nil known

### **Integrated Research Application System (IRAS)**

338595

### **Protocol serial number**

Nil known

## **Study information**

### **Scientific Title**

Imperial Inherited Cardiac Conditions Registry

### **Acronym**

ICC Registry

### **Study objectives**

A subregistry of patients with inherited and structural cardiac phenotypes curated from the "Artificial Intelligence for Multimorbidity (AIMM)" database for deep phenotyping and AI-enabled cardiac disease discovery.

### **Ethics approval required**

Ethics approval required

### **Ethics approval(s)**

approved 06/07/2025, Health Research Authority (2 Redman Place, Stratford, London, E20 1JQ, United Kingdom; +44 207 104 8000; contact@hra.nhs.uk), ref: 24/HRA/2562

### **Study design**

Retrospective observational cohort study

### **Primary study design**

Observational

### **Study type(s)**

Other

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

Inherited cardiac conditions

### **Interventions**

Participants enrolled in this study will receive standard medical care through a tertiary inherited cardiac conditions clinic. Following referral, patients undergo routine assessment and management as per clinical guidelines, including clinical evaluation, genetic counselling, diagnostic testing, and ongoing follow-up. Observation begins at the point of referral and continues until death, representing a lifelong follow-up period.

### **Intervention Type**

Other

### **Primary outcome(s)**

Incident disease diagnoses will be recorded using International Classification of Diseases (ICD-10) codes, as compiled by the Imperial College Healthcare Trust Coding Department through systematic review of electronic health records and clinical documentation. Procedure data will be obtained using OPCS codes, collected through the same methodology.

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

There are no secondary outcome measures

### **Completion date**

01/07/2033

## **Eligibility**

### **Key inclusion criteria**

>18 years attending tertiary care for suspected inherited cardiac conditions

### **Participant type(s)**

Patient

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Lower age limit**

18 years

### **Upper age limit**

120 years

### **Sex**

All

### **Total final enrolment**

10000

### **Key exclusion criteria**

<18 years

**Date of first enrolment**

01/01/2000

**Date of final enrolment**

01/01/2025

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Imperial College Healthcare NHS Trust**

Hammersmith Hospital

Hammersmith Campus

Du Cane Rd

London

United Kingdom

W12 0HS

## Sponsor information

**Organisation**

Imperial College London

**ROR**

<https://ror.org/041kmwe10>

## Funder(s)

**Funder type**

Charity

**Funder Name**

British Heart Foundation

**Alternative Name(s)**

The British Heart Foundation, the\_bhf, BHF

**Funding Body Type**

Private sector organisation

### Funding Body Subtype

Trusts, charities, foundations (both public and private)

### Location

United Kingdom

## Results and Publications

### Individual participant data (IPD) sharing plan

Individual participant data cannot be shared owing to ethical restrictions without enrollment to the AIMM study

### IPD sharing plan summary

Not expected to be made available

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes