

# Switzerland - Genetic Cascade Screening for Familial Hypercholesterolemia

**David Nanchen**

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## Identification

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SURVEY ID NUMBER  
10.16909-dataset-63

TITLE  
Genetic Cascade Screening for Familial Hypercholesterolemia

SUBTITLE  
A Randomized Clinical Trial

ABBREVIATION OR ACRONYM  
CATCH Study

COUNTRY

Name	Country code
Switzerland	CHE

ABSTRACT

Question: How can the uptake of genetic cascade screening for familial hypercholesterolemia be improved when healthcare providers cannot directly contact relatives?

Findings: In this randomized, open-label, multicenter implementation trial including 87 families with genetically confirmed familial hypercholesterolemia, 30% of relatives in the intervention arm underwent genetic testing when given access to web-based communication technologies compared with 17% in the usual-care arm, representing a significant difference.

Meaning: Leveraging communication technologies may enhance effectiveness of genetic cascade screening programs for familial hypercholesterolemia.

KIND OF DATA  
Clinical data [cli]

UNIT OF ANALYSIS  
individuals

## Version

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VERSION DATE  
2025-01-01

## Scope

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NOTES  
Children and adults

## Coverage

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GEOGRAPHIC COVERAGE  
National coverage

## Producers and sponsors

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PRIMARY INVESTIGATORS

Name	Affiliation
David Nanchen	Unisanté, Center for Primary Care and Public Health & University of Lausanne, Lausanne, Switzerland

## PRODUCERS

Name	Affiliation	Role
Thomas von Känel	Central Institute of the Hospitals, Hôpital du Valais, Sion, Switzerland	Head of genetic laboratory
Georg Ehret	Division of Cardiology, Geneva University Hospitals, University of Geneva, Geneva, Switzerland	Local PI of Geneva site
Nathalie Brun	Children Clinic, Geneva University Hospitals, University of Geneva, Geneva, Switzerland	Local PI of Geneva pediatric site
Isabella Sudano	Department of Cardiology, University Heart Center, Zurich University Hospital, University of Zurich, Zurich, Switzerland	Local PI of Zurich site
Hans Rickli	Department of Cardiology, Kantonsspital St Gallen, St Gallen, Switzerland	Local PI of St Gallen site
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Jürg H. Beer	Department of Molecular Cardiology, Zurich University Hospital, University of Zurich, Zurich, Switzerland	co-PI
Augusto Gallino	Cardiovascular Research Unit, Dipartimento Medicina Interna, ORBV, Ente Ospedaliero Cantonale, Università della Svizzera Italiana, Switzerland	co-PI and Local PI of Bellinzona site

## FUNDING AGENCY/SPONSOR

Name	Abbreviation
Swiss Heart Foundation	SHF

## Sampling

## SAMPLING PROCEDURE

The trial protocol was first submitted to the ethics committee on May 15, 2020, with amendments on August 3, 2020, and August 10, 2022. The final version is provided V1.3, dated 10.08.2022. The only significant change between the initial version of the protocol (V1.1, dated 15.05.2020) and the final version (V1.3, dated 10.08.2022) concerned the number of participants to be included in the study. Recruitment began in November 2020 with the aim of enrolling 56 families with genetically confirmed familial hypercholesterolemia (FH), as estimated in the initial sample size calculation. In August 2022, due to lower-than-expected relative participation in the CATCH study, we revised the sample size calculation. The new target was 82 families with genetic FH, to ensure that a sufficient number of relatives would be included to detect differences in participation rates between study groups.

## Data collection

## DATES OF DATA COLLECTION

Start	End
2020/11/01	2023/11/01

## DATA COLLECTION MODE

Face-to-face [f2f]

## Access policy

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### ACCESS CONDITIONS

This dataset is submitted to the Federal Act on Research involving Human Beings (HRA). Therefore, an ethical approval will be required to use this dataset.

The Data transfer agreement must be signed before releasing the dataset

### ACCESS AUTHORITY

Name	Affiliation	Email	URL
Documentation and data unit (UDD)	Unisanté, University Center for Primary Care and Public Health, Lausanne, Switzerland	udd.data@unisante.ch	<a href="#">Link</a>

### LOCATION OF DATA COLLECTION

Unisanté Data repository

## Disclaimer and copyrights

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