

## Study to Evaluate Efficacy and Safety of Inclisiran in Adolescents With Homozygous Familial Hypercholesterolemia

10/09/2025 16:19:44

### **Main Information**

Primary registry identifying number

LBCTR2021034779

MOH registration number

Study registered at the country of origin

Type of registration

Prospective

Date of registration in national regulatory agency

**Primary sponsor** 

Novartis Pharma Services inc.

Date of registration in primary registry

16/08/2023

**Public title** 

Study to Evaluate Efficacy and Safety of Inclisiran in Adolescents

With Homozygous Familial Hypercholesterolemia

Two Part (Double-blind Inclisiran Versus Placebo [Year 1] Followed by Open-label Inclisiran [Year 2]) Randomized Multicenter Study to Evaluate Safety, Tolerability, and Efficacy of Inclisiran in Adolescents (12 to Less Than 18 Years) With Homozygous Familial Hypercholesterolemia and Elevated LDL-cholesterol (ORION-13)

Brief summary of the study: English

This is a pivotal phase III study designed to evaluate safety, tolerability, and efficacy of inclisiran in adolescents with homozygous familial hypercholesterolemia (HoFH) and elevated low density lipoprotein cholesterol (LDL-C).

This is a two-part (1 year double-blind inclisiran versus placebo / 1 year open-label inclisiran) multicenter study designed to evaluate safety, tolerability, and efficacy of inclisiran in adolescents with homozygous familial hypercholesterolemia (HoFH) and elevated low density lipoprotein cholesterol (LDL-C) on stable standard of care background lipid-lowering therapy. The primary objective is to evaluate the effect of inclisiran compared to placebo in reducing LDL-C (percent change) at Day 330.

Brief summary of the study: Arabic

] يتبعه إنكليسيران مفتوح اللصاقة 1دراسة متعددة المراكز، عشوائية التوزيع من قسمين (إنكليسيران مزدوج التعمية مقابل الدواء الوهمي [السنة سنة) المصابين بفرط كوليسترول الدم العائلي18 إلى أقل من 12]) لتقبيم سلامة إنكليسيران وقدرة تحمّله وفعاليّته لدى المراهقين (من 2السنة ] (ORION-13) أ13 متماثل الزيجوت وبارتفاع الكوليسترول الضار (أوريون-

Health conditions/problem studied: Specify

Homozygous Familial Hypercholesterolemia

Protocol number

CKJX839C12302

Study registered at the country of origin: Specify

Type of registration: Justify

N/A

Primary sponsor: Country of origin

**Novartis Pharmaceuticals** 

Date of registration in national regulatory agency

Acronym

Acronym



Interventions: Specify

Drug: Inclisiran Drug: Placebo

Key inclusion and exclusion criteria: Inclusion criteria

Homozygous Familial Hypercholesterolemia (HoFH) diagnosed by genetic confirmation

Fasting LDL-C >130 mg/dL (3.4 mmol/L) at screening

On maximally tolerated dose of statin (investigator's discretion) with or without other lipid-lowering therapy; stable for ≥ 30 days before

screening

Estimated glomerular filtration rate (eGFR) >30 mL/min/1.73 m2 at screening

Key inclusion and exclusion criteria: Gender

Key inclusion and exclusion criteria: Specify gender

Both

Key inclusion and exclusion criteria: Age minimum

Key inclusion and exclusion criteria: Age maximum

Key inclusion and exclusion criteria: Exclusion criteria

Documented evidence of a null (negative) mutation in both LDLR alleles

Heterozygous familial hypercholesterolemia (HeFH)

Active liver disease

Secondary hypercholesterolemia, e.g. hypothyroidism or nephrotic syndrome

Major adverse cardiovascular events within 1 month prior to randomization

Previous treatment with monoclonal antibodies directed towards PCSK9 (within 90 days of screening)

Treatment with mipomersen or lomitapide (within 5 months of screening)

Recent and/or planned use of other investigational medicinal products or devices

Type of study

Interventional

Type of intervention Type of intervention: Specify type

Pharmaceutical N/A

Trial scope Trial scope: Specify scope

Therapy

Study design: Allocation Study design: Masking Randomized controlled trial Blinded (masking used)

Study design: Control Study phase

Placebo

Study design: Purpose Study design: Specify purpose

Treatment

Study design: Assignment Study design: Specify assignment

Parallel

IMP has market authorization IMP has market authorization: Specify

Yes, Worldwide European Union, United Arab Emirates, Great Britain

Name of IMP Year of authorization Month of authorization

N/A

inclisiran

Type of IMP

Others

Pharmaceutical class

cholesterol-lowering small interfering ribonucleic acid (siRNA) that inhibits the production of proprotein

convertase subtilisin/kexin type 9



### Therapeutic indication

heterozygous familial hypercholesterolemia (HeFH) and elevated low density lipoprotein cholesterol (LDL-C)

### Therapeutic benefit

Evaluate the effect of inclisiran compared to placebo on reducing LDL-C [percent change] at Day 330 in adolescents (12 to less than 18 years) with homozygous familial hypercholesterolemia and elevated

Study model: Explain model Study model

N/A N/A

Study model: Specify model

N/A

Time perspective Time perspective: Explain time perspective

N/A N/A

Time perspective: Specify perspective

N/A

Target follow-up duration Target follow-up duration: Unit

Number of groups/cohorts

Biospecimen retention Biospecimen description

Samples with DNA\*\* Blood samples collected will be analyzed at Medpace

Laboratories, central lab

Target sample size Actual enrollment target size

Date of first enrollment: Date Date of first enrollment: Type

10/11/2022 Actual

Date of study closure: Type Date of study closure: Date

Actual 20/05/2025

Recruitment status **Recruitment status: Specify** 

Recruiting

Date of completion

31/12/2022

IPD sharing statement plan

Yes

IPD sharing statement description





## Lebanon Clinical Trials Registry

Novartis is committed to sharing with qualified external researchers, access to patient-level data and supporting clinical documents from eligible studies. These requests are reviewed and approved by an independent review panel on the basis of scientific merit. All data provided is anonymized to respect the privacy of patients who have participated in the trial in line with applicable laws and regulations.

This trial data availability is according to the criteria and process described on www.clinicalstudydatarequest.com

### Additional data URL

https://clinicaltrials.gov/ct2/show/record/NCT04659863?cond=homozygous+familial+hypercholesterolemia&draw=2&rank=1

**Admin comments** 

Trial status

Approved

Secondary Identifying Numbers	
Full name of issuing authority	Secondary identifying number
Clinical trials.gov	NCT04659863

## **Sources of Monetary or Material Support**

Name

Novartis Pharma services inc.

### **Secondary Sponsors**

Name

NA

Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Selim Jambart	Ashrafieh	Lebanon	009613406 001	sjambart@dm.ne t.lb	Hotel Dieu De France
Scientific	Hind Khairallah	Sinelfil	Lebanon	01512002# 271	Hind.khairallah@ fattal.com.lb	Khalil Fattal et Fils s.a.l.
Public	Hala Tfayli	Beirut	Lebanon	+961 71729759	HT31@AUB.ED U.LB	American University of Beirut Medical Center



# Lebanon Clinical Trials Registry

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator Principles investigator speciality Ethical approval		Ethical approval
Hotel Dieu De France	Selim Jambart	Endocrinology	Approved
American University of Beirut Medical Center	Hala Tfayli	Pediatric Endocrinology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Hotel Dieu de France	21/12/2020	Sami Richa	cue@usj.edu.lb	961421229
American University of Beirut Medical Center	18/06/2021	Fuad Ziyadeh	irb@aub.edu.lb	00961 -1-350000 or 1 374374, ext: 5445

Countries of Recruitment
Name
Lebanon
France
Greece
Republic of Serbia
United States of America
Switzerland
Turkey

Health Conditions or Problems Studied			
Condition	Code	Keyword	
heterozygous familial hypercholesterolemia	Hyperlipidaemia, unspecified (E78.5)	heterozygous familial hypercholesterolemia	

Interventions		
Intervention	Description	Keyword
ICF, Lab tests, physical exam, IMP	ICF, Lab tests, physical exam, IMP	ICF, Lab tests, physical exam, IMP



# Lebanon Clinical Trials Registry

Primary Outcomes		
Name	Time Points	Measure
Percentage (%) change in low-density lipoprotein cholesterol (LDL-C)	Baseline and Day 330	Baseline and Day 330

Key Secondary Outcomes			
Name	Time Points	Measure	
Time-adjusted percent change in LDL-C	Baseline, after Day 90 up to Day 330	Baseline, after Day 90 up to Day 330	
% change and absolute change in LDL-C	Baseline, up to Day 720	Baseline, up to Day 720	
% change and absolute change in other lipoprotein and lipid parameters	Baselne, up to Day 720	Baselne, up to Day 720	
% change and absolute change in proprotein convertase subtilisin/kexin type 9 (PCSK9)	Baseline, up to Day 720	Baseline, up to Day 720	

Trial Results	
Summary results	
Study results globally	
Date of posting of results summaries	Date of first journal publication of results
Results URL link	
Baseline characteristics	
Participant flow	
Adverse events	
Outcome measures	
URL to protocol files	