**REPUBLIC OF LEBANON** MINISTRY OF PUBLIC HEALTH Lebanon Clinical Trials Registry

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

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Main Information	
Primary registry identifying number	Protocol number
LBCTR2021034779	CKJX839C12302
MOH registration number	
Study registered at the country of origin	Study registered at the country of origin: Specify
Yes	
Type of registration	Type of registration: Justify
Prospective	N/A
Date of registration in national regulatory agency	
Primary sponsor	Primary sponsor: Country of origin
Novartis Pharma Services inc.	Novartis Pharmaceuticals
Date of registration in primary registry	Date of registration in national regulatory agency
30/12/2021	
Public title	Acronym
Study to Evaluate Efficacy and Safety of Inclisiran in Adolescents With Homozygous Familial Hypercholesterolemia	
Scientific title	Acronym
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	
ة متعددة المراكز ، عشوائيّة التوزيع من قسمين (إنكليسيران مزدوج التعمية مقابل الدواء الوهمي [السنة حائلي18 إلى أقل من 12]) لتقييم سلامة إنكليسيران وقدرة تحمّله وفعاليّته لدى المراهقين (من 2السنة ] (ORION-13) )31متماثل الزيجوت وبارتفاع الكوليسترول الضار (أوريون-	] يتبعه إنكليسيران مفتوح اللصاقة1دراس سنة) المصابين بفرط كوليسترول الدم ال

Health conditions/problem studied: Specify

Homozygous Familial Hypercholesterolemia

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REPUBLIC OF LEBANON Lebanon Clinical Trials Registry MINISTRY OF PUBLIC HEALTH 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 17 12

### 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	N/A
Study design: Allocation	Study design: Masking
Randomized controlled trial	Blinded (masking used)
Of the day laws Operators	Otada a basa
Study design: Control	Study phase
Placebo	3
Study design: Purpose	Study design: Specify purpose
Treatment	N/A
Study design: Assignment	Study design: Specify assignment
Parallel	N/A
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
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 (LDL-C)	y lipoprotein cholesterol
Therapeutic benefit	
Evaluate the effect of inclisiran compared to placebo on reducing LDL-C [per in adolescents (12 to less than 18 years) with homozygous familial hypercho LDL-cholesterol	
Study model	Study model: Explain 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 1	Actual enrollment target size
Date of first enrollment: Type	Date of first enrollment: Date
Anticipated	14/03/2022
Date of study closure: Type	Date of study closure: Date
Anticipated	20/12/2023
Recruitment status	Recruitment status: Specify
Recruiting	
Date of completion	
14/06/2022	
IPD sharing statement plan	IPD sharing statement description
Yes	······································

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# 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

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Centers/Hospitals Involved in the Study				
Center/Hospital nameName of principles investigatorPrinciples investigator specialityEthical 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	



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	