

Study registered at the country of origin: Specify

Protocol number ALN-TTRSC02-003

Type of registration: Justify

HELIOS-B

Helios-B: A Study to Evaluate Vutrisiran in Patients with Transthyretin Amyloidosis with Cardiomyopathy

02/08/2025 20:06:42

Main Information

Primary registry identifying number

LBCTR2020104517

MOH registration number

Study registered at the country of origin

Type of registration

N/A Prospective

Date of registration in national regulatory agency

29/05/2020

Primary sponsor Primary sponsor: Country of origin

Alnylam Pharmaceuticals, Inc. USA

Date of registration in primary registry Date of registration in national regulatory agency

23/05/2022 29/05/2020

Public title Acronym

Helios-B: A Study to Evaluate Vutrisiran in Patients with **HELIOS-B** Transthyretin Amyloidosis with Cardiomyopathy

Scientific title Acronym

Helios-B: A Phase 3, Randomized, Doubleblind, Placebo-controlled, Multicenter Study to Evaluate the Efficacy and Safety of Vutrisiran in Patients with Transthyretin Amyloidosis with Cardiomyopathy (ATTR Amyloidosis with Cardiomyopathy)

Brief summary of the study: English

This study will evaluate the efficacy and safety of vutrisiran 25 mg administered subcutaneously (SC) once every 3 months (q3M) compared to placebo in patients with ATTR amyloidosis with

cardiomyopathy.

Brief summary of the study: Arabic

اشهر مقارنة مع الدواء الوهمي في 3 مغم يعطى في شكل حقنة تحت الجلد مرة كل 25ستقوم هذه الدراسة بتقييم فعالية وسلامة فوتريز بران المرضى الذبن يعانون من الداء النشواني مع اعتلال عضلة القلب

Health conditions/problem studied: Specify

Transthyretin Amyloidosis (ATTR) With Cardiomyopathy

Interventions: Specify

Experimental: Vutrisiran 25 mg

Participants will receive vutrisiran 25 mg administered subcutaneously (SC) once every 3 months (q3M) during the double-blind period.

Assigned Intervention:

Drug: Vutrisiran

Vutrisiran 25 mg will be administered by SC injection q3M.

Other Name: ALN-TTRSC02





Placebo Comparator: Placebo

Participants will receive placebo during the double-blind period.

Assigned Intervention:

Drug: Sterile Normal Saline (0.9% NaCl)

Sterile normal saline (0.9% NaCl) will be administered by SC injection q3M.

Key inclusion and exclusion criteria: Inclusion criteria

Inclusion criteria:

1. Has a documented diagnosis of transthyretin (ATTR) amyloidosis with cardiomyopathy, classified as either hereditary ATTR (hATTR) Amyloidosis with cardiomyopathy or wild-type ATTR (wtATTR) amyloidosis with cardiomyopathy meeting pre-specified diagnostic criteria.

2. Has medical history of heart failure (HF) with at least 1 prior hospitalization for HF OR clinical evidence of HF.

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

85

Key inclusion and exclusion criteria: Exclusion criteria

Exclusion criteria:

1. Has known primary amyloidosis or leptomeningeal amyloidosis

- 2. Has New York Heart Association (NYHA) Class IV heart failure
- 3. Has NYHA Class III heart failure AND is at high risk based on pre-specified criteria
- 4. Has a polyneuropathy disability (PND) Score IIIa, IIIb, or IV at the Screening visit
- 5. Has estimated glomerular filtration rate (eGFR) <30 mL/min/1.73 m^2
- 6. Has received prior TTR-lowering treatment

7. Has other non-TTR cardiomyopathy, hypertensive cardiomyopathy, cardiomyopathy due to valvular heart disease, or cardiomyopathy due to ischemic heart disease

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: AllocationStudy design: MaskingRandomized controlled trialBlinded (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

No

Name of IMP Year of authorization Month of authorization

Type of IMP

Gene therapy

Pharmaceutical class

Vutrisiran (ALN-TTRSC02)

Synthetic RNA interference (RNAi) therapeutic molecule



Therapeutic indication

Transthyretin Amyloidosis (ATTR) With Cardiomyopathy

Therapeutic benefit

Vutrisiran utilizes RNAi to prevent the synthesis of both wt and mutant TTR in the liver, the primary source of circulating TTR.

TTR reduction with vutrisiran will beneficially impact disease progression in patients with ATTR amyloidosis with cardiomyopathy.

Study model Study model: Explain model

N/A N/A

Study model: Specify model

N/A

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

Samples with DNA**

Target sample size

600

Date of first enrollment: Type

Actual

Date of study closure: Type

Actual

Recruitment status

Complete

Date of completion

31/07/2021

IPD sharing statement plan

No

Biospecimen description

Biological specimens will be collected, may include DNA, RNA, or biochemical metabolite assessments as they relate to disease

progression, efficacy or safety.

The biospecimen repository will also include residual material from routine samples (safety laboratory samples, PK samples,

etc.) that are obtained during the study.

Actual enrollment target size

Date of first enrollment: Date

28/05/2021

Date of study closure: Date

22/09/2021

Recruitment status: Specify

IPD sharing statement description



	Not Applicable
Additional data URL	
Admin comments	
Trial status	
Approved	

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
Food and Drug Administration	NCT04153149	
Eudract Number	2019-003153-28	

Sources of Monetary or Material Support
Name
Alnylam Pharmaceuticals, Inc

Secondary Sponsors
Name
NA NA



Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
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Scientific	Alnylam Clinical Trial Information Line Central Contact Backup	Not applicable	United States of America	1-877-256- 9526	Not Applicable	Alnylam Pharmace uticals, Inc
Scientific	Jean El Cheikh	American University of Beirut Medical Center	Lebanon	+961 71 407 447	je46@aub.edu.lb	Principal Investigato r

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
American University of Beirut Medical Center	Jean El Cheikh	Hematology/Oncology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
American University of Beirut Medical Center	12/10/2020	Jean El Cheikh	je46@aub.edu.lb	+96171407447

Countries of Recruitment
Name
Lebanon
France
United States of America
Argentina
Australia
Austria
Belgium
Brazil



Canada
Colombia
Bulgaria
Denmark
Germany
Ireland
Italy
Czech Republic
Mexico
Norway
Japan
Peru
Republic of Moldova
Poland
Netherlands
Portugal
Spain
Sweden
United Kingdom
Malaysia
Taiwan
Romania
Croatia
Estonia
Finland
Costa Rica
Greece



ungary	
atvia	
thuania	
audi Arabia	
lovakia	
lovenia	
ordan	

Health Conditions or Problems Studied		
Condition	Code	Keyword
Transthyretin Amyloidosis with Cardiomyopathy	Heart failure (I50)	Cardiomyopathy

Interventions		
Intervention	Description	Keyword
Experimental: Vutrisiran 25 mg	Participants will receive vutrisiran 25 mg administered subcutaneously (SC) once every 3 months (q3M) during the double-blind period	Vutrisiran, SC, q3M
Placebo Comparator: Placebo	Participants will receive placebo during the double-blind period.	Placebo

Primary Outcomes		
Name	Time Points	Measure
Composite Endpoint of All-Cause Mortality and Recurrent Cardiovascular (CV) Events (CV Hospitalizations and Urgent Heart Failure [HF] Visits)	[Time Frame: 30-36 months]	All-cause mortality and recurrent CV events (CV hospitalizations and urgent HF visits) will be compared between treatment groups using an Andersen-Gill model.



Key Secondary Outcomes		
Name	Time Points	Measure
Change from Baseline in 6-Minute Walk Test (6-MWT) at Month 30	[Time Frame: Baseline, Month 30]	Change from baseline in 6-minute walk test (6-MWT)
Change from Baseline in the Kansas City Cardiomyopathy Questionnaire Overall Summary (KCCQ-OS) at Month 30	[Time Frame: Baseline, Month 30]	Change from baseline in the Kansas City Cardiomyopathy Questionnaire Overall Summary (KCCQ-OS)
Change from Baseline in Mean Left Ventricular (LV) Wall Thickness by Echocardiographic Assessment at month 30	[Time Frame: Baseline, Month 30]	Change from Baseline in Mean Left Ventricular (LV) Wall Thickness by Echocardiographic Assessment
Change from Baseline in Global Longitudinal Strain by Echocardiographic Assessment at month 30	[Time Frame: Baseline, Month 30]	Change from Baseline in Global Longitudinal Strain by Echocardiographic Assessment
Composite Endpoint of All-Cause Mortality and Recurrent Allcause Hospitalizations and Urgent HF Visits	[Time Frame: 30-36 months]	Composite Endpoint of All-Cause Mortality and Recurrent All-cause Hospitalizations and Urgent HF Visits using an Andersen-Gill model.
All-cause Mortality	[Time Frame: 30-36 months]	All-cause mortality
Rate of Recurrent CV Events (CV Hospitalizations and Urgent HF Visits)	[Time Frame: 30-36 months]	Recurrent CV hospitalizations
Change from Baseline in N-terminal prohormone B-type Natriuretic Peptide (NTproBNP) at month 30	[Time Frame: Baseline, Month 30]	Change from Baseline in N-terminal prohormone Btype Natriuretic Peptide (NTproBNP)

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	