

Study to Evaluate Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of LCZ696 Followed by a 52-week Study of LCZ696 Compared With Enalapril in Pediatric Patients With Heart Failure-PANORAMA

07/08/2025 23:15:39

## **Main Information**

Primary registry identifying number

LBCTR2019040224

MOH registration number

22659/2018

Study registered at the country of origin

Type of registration

Retrospective

Date of registration in national regulatory agency

29/05/2018

**Primary sponsor** 

Novartis Pharma Services Inc.

Date of registration in primary registry

14/08/2019

**Public title** 

Study to Evaluate Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of LCZ696 Followed by a 52-week Study of LCZ696 Compared With Enalapril in Pediatric Patients With Heart

Failure- PANORAMA

Multicenter, Open-label Study to Evaluate Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of LCZ696 Followed by a 52-week Randomized, Double-blind, Parallel Group, Activecontrolled Study to Evaluate the Efficacy and Safety of LCZ696 Compared With Enalapril in Pediatric Patients From 1 Month to < 18 Years of Age With Heart Failure Due to Systemic Left Ventricle

Systolic Dysfunction

Brief summary of the study: English

This study consist of two parts (Part 1 and Part 2). The purpose of Part 1 is to evaluate the way the body absorbs, distributes and removes the drug LCZ696. This will help determine the proper dose of LCZ696 for Part 2 of the study.

The purpose for Part 2 is to compare the effectiveness and safety of LCZ696 with enalapril in pediatric heart failure patients over 52 weeks of treatment.

Brief summary of the study: Arabic

Protocol number

CLCZ696B2319

Study registered at the country of origin: Specify

Type of registration: Justify

LCTR was recently initiated, original file was previously submitted

by Paper

Primary sponsor: Country of origin

**Novartis Pharmaceuticals** 

Date of registration in national regulatory agency

29/05/2018

Acronym

**PANORAMA** 

Acronym

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52تليها دراسة لمدة LCZ696 دراسة متعددة المراكز، مفتوحة العنوان؛ لتقييم الأمان والتحمل والحركيات الدُوانية والديناميكيات الدُّوانية لعقار انقباض البطين الأيسر

### Health conditions/problem studied: Specify

Cardiovascular / Pediatric Heart Failure

Interventions: Specify

Drug: LCZ696

LCZ696: 3.125 mg granules (packaged in capsules containing 4 or 10 granules), 50 mg, 100 mg, 200 mg dosage strengths

Drug: Enalapril

Enalapril will be open label in Part 1 and double blind in Part 2

Drug: Placebo of LCZ696 Drug: Placebo of Enalapril

### Key inclusion and exclusion criteria: Inclusion criteria

Chronic heart failure resulting from left ventricular systolic dysfunction, and receiving chronic HF therapy (if not newly diagnosed) NYHA classification II-IV (older children: 6 to <18 years old) or Ross CHF classification II-IV (younger children: < 6 years old) Systemic left ventricular ejection fraction ≤ 40% or fractional shortening ≤20%

For Part 1 study: Patients must be treated with an ACEI or ARB prior to screening. Patients in Group 1 and 2 must be currently treated with the dose equivalent of at least enalapril 0.2 mg/kg prior to the LCZ696 3.1 mg/kg administration. Group 3 patients will participate in LCZ696 0.8 mg/kg and not LCZ696 3.1 mg/kg.

Biventricular physiology with systemic left ventricle

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

Patient with single ventricle or systemic right ventricle

Patients listed for heart transplantation (as United Network for Organ Sharing status 1A) or hospitalized waiting for transplant (while on inotropes or with ventricular assist device)

Sustained or symptomatic dysrhythmias uncontrolled with drug or device therapy

Patients that have had cardiovascular surgery or percutaneous intervention to palliate or correct congenital cardiovascular malformations within 3 months of the screening visit. Patients anticipated to undergo corrective heart surgery during the 12 months after entry into Part 2 Patients with unoperated obstructive or severe regurgitant valvular (aortic, pulmonary, or tricuspid) disease, or significant systemic ventricular outflow obstruction or aortic arch obstruction

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N/A

Patients with restrictive or hypertrophic cardiomyopathy

Active myocarditis

Renal vascular hypertension (including renal artery stenosis)

Moderate-to severe obstructive pulmonary disease

Serum potassium > 5.3 mmol/L

History of angioedema

Allergy or hypersensitivity to ACEI / ARB

### Type of study

Interventional

Type of intervention Type of intervention: Specify type

Pharmaceutical

Trial scope Trial scope: Specify scope

Therapy

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

Study design: Control Study phase

Active

Study design: Purpose Study design: Specify purpose

Treatment N/A



Study design: Assignment

Parallel

IMP has market authorization

Yes, Lebanon and Worldwide

Name of IMP

LCZ696 Entresto

Type of IMP

Others

Pharmaceutical class

angiotensin receptor neprilysin inhibitor

Therapeutic indication

Chronic Heart Failure

Therapeutic benefit

Global Rank endpoint through 52 weeks of Treatment

Study model

N/A

Study model: Specify model

N/A

Time perspective

N/A

Time perspective: Specify perspective

N/A

Target follow-up duration

Number of groups/cohorts

Biospecimen retention

Samples without DNA

Target sample size

8

Date of first enrollment: Type

Actual

Study design: Specify assignment

N/A

IMP has market authorization: Specify

Approved for Adults use only: France, Germany, Belgium, UK,

USA, KSA, UAE, Turkey

Year of authorization Month of authorization

2016 3

Study model: Explain model

N/A

Time perspective: Explain time perspective

N/A

Target follow-up duration: Unit

Biospecimen description

Biological samples : Urine, Hematology, Chemistry will be sent to Clinical Reference Laboratory, Europe Ltd.

7310 Cambridge Research Park Beach Drive, Waterbeach Cambridge, CB25 9TN United Kingdom

Actual enrollment target size

4

Date of first enrollment: Date

17/08/2018





Date of	study closure:	Гуре	Date of st	tudy closure:	Date

Actual 29/10/2021

Recruitment status **Recruitment status: Specify** 

Recruiting

Date of completion

30/04/2020

IPD sharing statement plan IPD sharing statement description

No Not provided

## Additional data URL

https://clinicaltrials.gov/ct2/show/record/NCT02678312?term=pediatric&cond=Cardiovascular+Diseases&cntry=LB&rank=1

**Admin comments** 

Trial status

Approved

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
Clinicaltrials.gov	NCT02678312	

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

Name

Novartis Pharma Services Inc.

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Name

NA



Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Ghassan Chehab	Beirut	Lebanon	009613388 581	ghassanchehab @yahoo.com	Rafik Hariri University Hospital
Scientific	Hind Khairallah	Sin El Fil	Lebanon	+961 1 512002 Ext. 271	Hind.Khairallah@ fattal.com.lb	Khalil Fattal et Fils s.a.l.
Public	Linda Daou	Beirut	Lebanon	009613524 424	drlindadaou@gm ail.com	Hotel Dieu De France

Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval	
Hotel Dieu De France	Dr Linda Daou	Pediatric Cardiologist	Approved	
Rafik Hariri University Hospital	Dr Ghassan Chehab	Pediatric Cardiologist	Approved	

Ethics Review					
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone	
Hotel Dieu de France	27/02/2018	Nancy Alam	nancy.alam@usj.edu.lb	+961 (0) 1 421000 ext 2335	
Rafic Hariri University Hospital	09/01/2018	Rawan Yamout	rawan.yamout@crurhuh.com	018300000 ext 2036	



Countries of Recruitment				
Name				
Lebanon				
Argentina				
Bulgaria				
Canada				
China				
Croatia				
Finland				
France				
Hungary				
Japan				
Jordan				
Turkey				
United States of America				

Health Conditions or Problems Studied			
Condition	Code	Keyword	
Heart Failure	Heart failure, unspecified (I50.9)	HF	

Interventions				
Intervention	Description	Keyword		
Physical Exam, Vital signs, ECG, Echocardiography, Urinalysis, Serum/ urine pregnancy test, lab test, completion of QoL questionnaires	Physical Exam, Vital signs, ECG, Echocardiography, Urinalysis, Serum/ urine pregnancy test, lab test, completion of QoL questionnaires	ICF, Lab, IMP, radiology		



Primary Outcomes				
Name	Time Points	Measure		
Percentage of patients falling into each category based on global ranking	52 weeks	52 weeks		
The global ranking is based on clinical events such as death, listing for urgent heart transplant, mechanical life support requirement at end of study, worsening heart failure (HF), New York Heart Association (NYHA)/Ross, Patient Global Impression of Severity (PGIS), Pediatric Quality of Life Inventory (PedsQL) physical functioning domain. The primary endpoint will be derived based on 5 categories ranking worst to best outcome	52 weeks	52 weeks		

Key Secondary Outcomes				
Name	Time Points	Measure		
Time to first occurrence of Category 1 or Category 2 event	52 weeks	52 weeks		
Change from baseline in NYHA/Ross functional class	52 weeks	52 weeks		



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	