

SEG101A2203 Study Exploring the Effect of Crizanlizumab on Kidney Function in Patients With Chronic Kidney Disease Caused by Sickle Cell Disease

17/08/2025 23:56:46

Main Information

Primary registry identifying number

LBCTR2020094586

MOH registration number

Study registered at the country of origin

Type of registration

Prospective

Date of registration in national regulatory agency

Primary sponsor

Novartis Pharmaceuticals

Date of registration in primary registry

25/07/2023

Public title

SEG101A2203 Study Exploring the Effect of Crizanlizumab on Kidney Function in Patients With Chronic Kidney Disease Caused by Sickle Cell Disease

Scientific title

A Phase II, Multicenter, Randomized, Open Label Two Arm Study Comparing the Effect of Crizanlizumab + Standard of Care to Standard of Care Alone on Renal Function in Sickle Cell Disease Patients ≥ 16 Years With Chronic Kidney Disease Due to Sickle Cell Nephropathy

Brief summary of the study: English

The goal of the study is to compare the efficacy and safety of crizanlizumab + standard of care to standard of care alone on renal function in sickle cell disease patients ≥ 16 years with chronic kidney disease due to sickle cell nephropathy.

Brief summary of the study: Arabic

در اسة مرحلة ثانية، متعددة المراكز، عشوائيّة التوزيع، مفتوحة اللصاقة، من مجموعتين لمقارنة تأثير كريز انليز وماب + الرعاية المعتمدة سنة المصابين بمرض كلوي مزمن ناتج عن اعتلال16بالرعاية المعتمدة لوحدها، على الوظيفة الكلويّة لدى مرضى داء الكريات المنجليّة ≥ (STEADFAST) الكلية المنجلي

Health conditions/problem studied: Specify

Sickle Cell Disease (SCD)

Interventions: Specify

Drug: Crizanlizumab (SEG101)

Protocol number

SEG101A2203

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

Acronvm

SEG101A2203 STEADFAST

Acronym

1



Key inclusion and exclusion criteria: Inclusion criteria

Confirmed diagnosis of SCD (HbSS and HbSβ0-thal SCD genotypes are eligible)

- Patients with eGFR ≥ 45 to ≤ 120 mL/min/1.73 m2 based on CKD EPI formula
- Patients with ACR of ≥ 100 to < 2000 mg/g
- Receiving standard of care drug(s) for SCD and/or CKD for at least 6 months prior to study entry
- Hb ≥ 4.0 g/dL, absolute neutrophil count (ANC) ≥ 1.0 x 109/L, and platelet count ≥ 75 x 109/L
- -Written informed consent (or assent/ parental consent for minor subjects) prior to any screening procedures

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

History of stem cell transplant - Patients with evidence of AKI within 3 months of study entry

- Blood pressure > 140/90 mmHg despite treatment
- Patients undergoing hemodialysis
- Received blood products within 30 days of Week 1 Day 1
- Participating in a chronic transfusion program
- History of kidney transplant
- Patients with hypoalbuminemia

Type of study

Interventional

Type of intervention Type of intervention: Specify type

N/A

N/A

2

N/A

Pharmaceutical

Trial scope Trial scope: Specify scope

Therapy

Study design: Allocation Study design: Masking Randomized controlled trial Open (masking not used)

Study design: Control Study phase

N/A

Study design: Purpose Study design: Specify purpose

Treatment

Study design: Assignment Study design: Specify assignment

IMP has market authorization IMP has market authorization: Specify

Yes, Worldwide US, albania, bahrain, brazil, india, UAE

Name of IMP Year of authorization Month of authorization

Crizanlizumab Type of IMP

Immunological

Pharmaceutical class

Crizanlizumab is a concentrate for solution for infusion, i.v. use. Supplied in single use 10 mL vials at a concentration of 10 mg/mL. One vial contains 100 mg of crizanlizumab

Other Name: SEG101

Therapeutic indication





Patients with: Sickle cell diseas

Therapeutic benefit

Percentage of patients with ≥ 30% decrease in albuminuria (ACR) [Time Frame: Baseline to 12

To evaluate the effect of crizanlizumab + standard of care compared to standard of care alone on albuminuria (ACR) decrease

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

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

Number of groups/cohorts

Biospecimen retention Biospecimen description

Samples without DNA Samples will be sent to Covance central lab

Target sample size Actual enrollment target size

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

01/12/2021 Actual

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

29/03/2023 Actual

Recruitment status Recruitment status: Specify

Complete

Date of completion

15/12/2021

IPD sharing statement plan IPD sharing statement description

Yes



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 expert 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 is currently available according to the process described on www.clinicalstudydatarequest.com.

Additional data URL

https://clinicaltrials.gov/ct2/show/record/NCT04053764?term=CSEG101A2203&draw=2&rank=1

Admin comments

Trial status

Approved

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
clinical trials.gov	NCT04053764	

Sources of Monetary or Material Support

Name

Novartis Pharmaceuticals

Secondary Sponsors

Name

NA

Contac	Contact for Public/Scientific Queries					
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Adlette Inati	Tripoli	Lebanon	961322803 3	adlette.inati@lau. edu.lb	Nini Hospital
Scientific	Hind Khairallah	Beirut	Lebanon	961151200 2	Hind.Khairallah@ fattal.com.lb	Khalil Fattal et Fils



Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
Nini Hospital	Adlette Inati	Hematology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Nini Hospital	17/08/2020	Nabil Kabbara	Nabil.kabbara@hopitalnini.com	961 (0) 6 431 400 ext 1062

Countries of Recruitment
Name
Lebanon
Brazil
France
Greece
Netherlands
Spain
Turkey

Health Conditions or Problems Studied		
Condition	Code	Keyword
Sickle cell	Sickle-cell disorders (D57)	SCD

Interventions		
Intervention	Description	Keyword
ICF-Labs-IMP administration-Questionnaires	ICF-Labs-IMP administration-Questionnaires	ICF-Labs-IMP administration-Questionnaires



Primary Outcomes		
Name	Time Points	Measure
To evaluate the effect of crizanlizumab + standard of care compared to standard of care alone on albuminuria (ACR) decrease	12 months	12 Months

Key Secondary Outcomes			
Name	Time Points	Measure	
Mean change in albuminuria (ACR)	3,6,9,12 months	3,6,9,12 months	
Percentage of patients with ≥ 30% decrease in albuminuria (ACR)	Baseline to 6 months	Baseline to 6 months	
Percentage of patients with ≥ 20% improvement of protein to creatinine ratio (PCR)	Baseline to 12 months	Baseline to 12 months	
Percentage of patients with a stable (within ± 20% change) protein to creatinine ratio (PCR)	Baseline to 12 months	Baseline to 12 months	
Percentage change in estimated glomerular filtration rate (eGFR)	Baseline to 3, 6, 9 and 12 months	Baseline to 3, 6, 9 and 12 months	
Slope of albumin to creatinine ratio (ACR) decline	Baseline, 3, 6, 9, and 12 months	Baseline, 3, 6, 9, and 12 months	
Slope of estimated glomerular filtration rate (eGFR) decline	Baseline to 3, 6, 9 and 12 months	Baseline to 3, 6, 9 and 12 months	
Percentage of patients with progression of chronic kidney disease (CKD)	Baseline to 12 months	Baseline to 12 months	
Immunogenicity: measurement of anti-drug antibodies (ADA) to crizanlizumab	Baseline to follow-up period	Baseline to follow-up period	
Annualized rate of visits to emergency room and hospitalizations	Baseline to follow-up period	Baseline to follow-up period	



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	