

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

13/08/2025 20:42:26

Main Information		
Primary registry identifying number	Protocol number	
LBCTR2020094586	SEG101A2203	
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 Pharmaceuticals	Novartis Pharmaceuticals	
Date of registration in primary registry	Date of registration in national regulatory agency	
09/01/2023		
Public title	Acronym	
SEG101A2203 Study Exploring the Effect of Crizanlizumab on Kidney Function in Patients With Chronic Kidney Disease Caused by Sickle Cell Disease	SEG101A2203 STEADFAST	
Scientific title	Acronym	
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		
دراسة مرحلة ثانية، متعددة المراكز، عشوانيّة التوزيع، مفتوحة اللصاقة، من مجموعتين لمقارنة تأثير كريز انليزوماب + الرعاية المعتمدة سنة المصابين بمرض كلويّ مزمن ناتج عن اعتلال16بالرعاية المعتمدة لوحدها، على الوطيفة الكلويّة لدى مرضى داء الكريات المنجليّة ك (STEADFAST) الكلية المنجلي		
Health conditions/problem studied: Specify		
Sickle Cell Disease (SCD)		
Interventions: Specify		
Drug: Crizanlizumab (SEG101)		

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Key inclusion and exclusion criteria: Inclusion criteria

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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 exclusio	n criteria: Specify gender		
Both	·			
Key inclusion and exclusion criteria: Age minimum	Key inclusion and exclusio	n criteria: Age maximum		
16	99			
Key inclusion and exclusion criteria: Exclusion criteria				
<ul> <li>History of stem cell transplant</li> <li>Patients with evidence of AKI within 3 months of study entry</li> <li>Blood pressure &gt; 140/90 mmHg despite treatment</li> <li>Patients undergoing hemodialysis</li> <li>Received blood products within 30 days of Week 1 Day 1</li> <li>Participating in a chronic transfusion program</li> <li>History of kidney transplant</li> <li>Patients with hypoalbuminemia</li> </ul>				
Type of study				
Interventional				
Type of intervention	Type of intervention: Speci	fy type		
Pharmaceutical	N/A			
Trial scope	Trial scope: Specify scope			
Therapy	N/A			
Study design: Allocation	Study design: Masking			
Randomized controlled trial	Open (masking not used)			
Study design: Control	Study phase			
N/A	2			
Study design: Purpose	Study design: Specify purp	ose		
Treatment	N/A			
Church designs Assignment	Chudu daainmu Cuasifu aasi			
Study design: Assignment	Study design: Specify assign	gnment		
Parallel	N/A			
IMP has market authorization	IMP has market authorization	on: Specify		
Yes, Worldwide	US, albania, bahrain, brazil, i	ndia , 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. Supp	aliad in aingle upo 10 mL viale at a			

concentration of 10 mg/mL. One vial contains 100 mg of crizanlizumab Other Name: SEG101

Therapeutic indication

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Patients with: Sickle cell diseas		
Therapeutic benefit		
rcentage of patients with ≥ 30% decrease in albuminuria (ACR) [ Time Frame: Baseline to 12 nths ] evaluate the effect of crizanlizumab + standard of care compared to standard of care alone on uminuria (ACR) decrease		
tudy 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 without DNA	Samples will be sent to Covance central lab	
<b>Target sample size</b> 5	Actual enrollment target size	
Date of first enrollment: Type Actual	Date of first enrollment: Date 01/12/2021	
Date of study closure: Type Actual	Date of study closure: Date 29/03/2023	
Recruitment status Complete	Recruitment status: Specify	
Date of completion 15/12/2021		
IPD sharing statement plan Yes	IPD sharing statement description	

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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 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	

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 $\pm$ 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 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