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

# Pediatric Open-Label Extension of Voxelotor

20/08/2025 12:58:01

Main Information	
Primary registry identifying number	Protocol number
LBCTR2020063513	GBT440-038
MOH registration number	
Monregistration 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
Global Blood Therapeutics Inc.	United States of America
Date of registration in primary registry	Date of registration in national regulatory agency
14/08/2020	
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Public title Pediatric Open-Label Extension of Voxelotor	Acronym
Scientific title	Acronym
An Open-Label Extension Study of Voxelotor Administered Orally to Pediatric Participants With Sickle Cell Disease Who Have Participated in Voxelotor Clinical Trials	
Brief summary of the study: English	
Open-label extension study of voxelotor for pediatric participants	
ages 4 to 18 years old with Sickle Cell Disease who have participated in voxelotor clinical trials.	
Open-label extension (OLE) study of voxelotor for pediatric participants with Sickle Cell Disease who have participated in	
voxelotor clinical trials. Approximately 50 participants with sickle cell	
disease (SCD), aged ≥ 4 to ≤ 18 years will be enrolled at approximately 19 global clinical sites. All participants will receive	
voxelotor once daily, administered orally as tablets, dispersible	
tablets, or powder for oral suspension formulation. The objective of this OLE is to assess the safety of, and SCD-related complications	
of, long-term treatment with voxelotor, in pediatric participants who	
have completed treatment in a Global Blood Therapeutics (GBT)- sponsored voxelotor pediatric clinical study.	
Brief summary of the study: Arabic	
ِ الذين شاركو 18 و 4للمشاركين الأطفال الذين تتراوح أعمار هم بين voxelotor دراسة تكميلية على في التجارب السريرية السابقة على مستحضر	عامًا المصابين بمرض الخلايا المنجلية و
Health conditions/problem studied: Specify	
Sickle Cell Disease	
Interventions: Specify	

Drug: Voxelotor (GBT440)

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All participants will receive voxelotor once daily (QD), administered orally as tablets, dispersible tablets, or a powder for oral suspension formulation

# Key inclusion and exclusion criteria: Inclusion criteria

1. Male or female participant with SCD, aged ≥ 4 to ≤ 18 years, who participated and received study drug in a GBT-sponsored voxelotor pediatric clinical study

Note: Participants who discontinued study drug due to an AE, but who remained on study, may be eligible for treatment in this study provided the AE

does not pose a risk for treatment with voxelotor.

2. Female participants of childbearing potential are required to have a negative urine pregnancy test before dosing on Day 1.

Note: Female participants who become childbearing during the study must be willing to have a negative urine pregnancy test to remain in the study.

3. If sexually active, female participants of childbearing potential must use highly effective methods of contraception until 30 days after the last dose of study drug. If sexually active, male participants must use barrier methods of contraception until 30 days after the last dose of study drug.

4. Participant has provided written assent (both the consent of the participant's legal representative or legal guardian and the participant's assent

[where applicable] must be obtained)

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
4	18

# Key inclusion and exclusion criteria: Exclusion criteria

1. Female participant who is breastfeeding or pregnant

2. Participant withdrew consent from a GBT-sponsored voxelotor pediatric clinical study

3. Participant was lost to follow-up from a GBT-sponsored voxelotor pediatric clinical study

4. Participant has any medical, psychological, safety, or behavioral conditions that, in the opinion of the investigator, may confound safety interpretation,

interfere with compliance, or preclude informed consent

# Type of study

Interventional

Others

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		
N/A	Open (masking not used)		
Study design: Control	Study phase		
Active	3		
Study design: Purpose	Study design: Specify purpos	5e	
Treatment	N/A		
Study design: Assignment	Study design: Specify assign	ment	
Single	N/A		
IMP has market authorization	IMP has market authorization: Specify		
Yes, Worldwide	United States of America		
Name of IMP	Year of authorization	Month of authorization	
Voxelotor (Oxbryta)	2019	11	
Type of IMP			



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### Pharmaceutical class

Allosteric modulator of hemoglobin oxygen affinity

## Therapeutic indication

Sickle Cell Disease

# Therapeutic benefit

Voxelotor is an orally bioavailable HbS polymerization inhibitor that binds specifically to HbS with a 1:1 stoichiometry, and exhibits preferential partitioning to RBCs. By increasing Hb's affinity for oxygen, voxelotor inhibits HbS polymerization in a dose dependent manner that may improve deformability, decrease the viscosity of SCD blood, and ultimately increase blood flow in the microcirculation, thus improving net O2 delivery. Therefore, chronically modifying 20% to 30% of HbS with voxelotor in subjects with SCD is expected to deliver the clinical benefits of reducing HbS polymerization while improving O2 delivery to peripheral tissues.

Study model	Study model: Explain model
N/A	N/A
Study model: Specify model N/A	
Time perspective N/A Time perspective: Specify perspective N/A	Time perspective: Explain time perspective N/A
Target follow-up duration	Target follow-up duration: Unit
Number of groups/cohorts	
Biospecimen retention None retained	Biospecimen description N/A
Target sample size 24	Actual enrollment target size
Date of first enrollment: Type Anticipated	Date of first enrollment: Date 11/08/2020
Date of study closure: Type Anticipated	Date of study closure: Date 30/06/2026
Recruitment status Pending	Recruitment status: Specify
Date of completion	



IPD sharing statement plan No	IPD sharing statement description N/A
Additional data URL	
Admin comments	
Trial status	

Approved

Secondary Identifying Numbers	
Full name of issuing authority	Secondary identifying number
Clinicaltrials.gov	NCT04188509
WHO International Clinical Trials Registry Platform	EUCTR2019-003144-76-GB

Sources of Monetary or Material Support
Name
Global Blood Therapeutics Inc. USA

Secondary Sponsors	
Name	
N/A	



Contac	Contact for Public/Scientific Queries					
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Dr. Miguel Abboud	Beirut	Lebanon	961135000 0	ma56@aub.edu.l b	American University of Beirut Medical Center
Scientific	Margaret Tonda	181 Oyster Point Blvd. South San Francisco, CA 94080	United States of America	650 741 7761	mtonda@gbt.co m	Global Blood Therapeuti cs Inc.
Public	Dr. Adlette Inati	Tripoli	Lebanon	961322803 3	adlette.inati@lau. edu.lb	Nini Hospital

Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval	
American University of Beirut Medical Center	Dr. Miguel Abboud	Hematology	Not approved	
Nini Hospital	Dr. Adlette Inati	Hematology	Approved	

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Nini Hospital	15/06/2020	Dr. Nabil Kabbara	N/A	9616431400

Countries of Recruitment	
Name	
United States of America	
United Kingdom	
Lebanon	

Health Conditions or Problems Studied			
Condition	Code	Keyword	
Sickle-Cell Disorder	Sickle-cell disorders (D57)	Hematology, Sickle Cell, Disorder	





Interventions			
Intervention	Description	Keyword	
Drug	Voxelotor	GBT440	

Primary Outcomes				
Name	Time Points	Measure		
Treatment Emergent Adverse Events and Serious Adverse Events	Throughout entire study	N/A		
Sickle Cell Disease-Related Complications	Throughout entire study	Frequency of SCD-related complications		

Key Secondary Outcomes				
Name	Time Points	Measure		
N/A	N/A	N/A		





# 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