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Evaluate the Pharmacokinetics and Safety of Etavopivat in Pediatric Patients with Sickle Cell Disease

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Aain Information	
Primary registry identifying number	Protocol number
LBCTR2022095118	4202-HEM-202
MOH registration number	
Study registered at the country of origin	Study registered at the country of origin: Specify
No	Poor pool of patients with Sickle Cell Disease
Type of registration	Type of registration: Justify
Prospective	N/A
Date of registration in national regulatory agency 26/09/2022	
Primary sponsor	Primary sponsor: Country of origin
Forma Therapeutics, Inc.	United States of America
Date of registration in primary registry	Date of registration in national regulatory agency
23/08/2023	26/09/2022
Public title	Acronym
Evaluate the Pharmacokinetics and Safety of Etavopivat in Pediatric Patients with Sickle Cell Disease	
Scientific title	Acronym
A Single Arm, Open Label, Phase 1/2 Study to Evaluate the Pharmacokinetics and Safety of Etavopivat in Pediatric Patients with Sickle Cell Disease	
Brief summary of the study: English	
This clinical trial is a Phase 1/2 study that will evaluate the Pharmacokinetics and Safety of Etavopivat (FT-4202) in Pediatric Patients from 12 to 18 years with Sickle Cell Disease to improve the amount of hemoglobin in the blood and to reduce the number of vaso-occlusive crises (times when the blood vessels become blocked and cause pain).	
Brief summary of the study: Arabic	
Etavopivat (F التي ستقيم الحرانك الدوانية وسلامة1/2هذه النجربة السريرية هي دراسة المرحلة جلية لتحسين كمية الهيموجلوبين في الدم وتقليل العدد من أزمات انسداد18 و 12تتراوح أعمار هم بين . الأوعية الدموية (الأوقات التي يتم فيها انسداد الأوعية الدموية وتسبب الألم)	في مرضى الأطفال الذين (4202-T عامًا المصابين بمرض الخلايا الم
Health conditions/problem studied: Specify	
Sickle Cell Disease	
Interventions: Specify	
Drug: Etavopivat (FT-4202)	
Key inclusion and exclusion criteria: Inclusion criteria	
Type of Participant and Disease Characteristics	

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• Documentation of SCD genotype (HbSS, HbS β 0-thalassemia or other sickle cell syndrome variants) based on prior history of laboratory testing. Molecular genotyping is not required. SCD genotype may be determined from the results of Hb electrophoresis, high-performance liquid chromatography (HPLC), or similar testing. Note that Hb electrophoresis is performed by the local laboratory at Screening. 2. Hemoglobin \geq 5.5 and < 10.5 g/dL

3. Adolescent patients with severe SCD, as defined by at least 1 of the following:

• Two or more VOCs in the past 12 months, defined as a previously documented episode of acute chest syndrome (ACS) or acute painful crisis (for which there was no explanation other than VOC) which required prescription or healthcare professional-instructed use of analgesics for moderate to severe pain

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Hospitalization for any SCD-related complication in the last 12 months

• Proteinuria, defined as an albumin:creatinine ratio (ACR) > 100 mg/g on 2 measures (separated by ≥ 1 month) as an indicator of early renal disease

• History of a conditional TCD in the last 12 months, but not currently being treated with chronic transfusion therapy. Conditional TCD is defined as a TAMMV of 170-199 cm/s by TCD or 155-184 cm/s by imaging TCD (TCDi).

4. For participants taking HU, the dose of HU (mg/kg) must be stable (no more than a 20% change in dosing) for at least 90 days prior to start of study treatment with no anticipated need for dose adjustments during the study, in the opinion of the Investigator

5. Patients on crizanlizumab or L-glutamine treatment at the time of consent may be eligible if they:

• Have been on a stable dose for ≥ 12 months at the time of consent (ie, no changes to the dose except for changes to weight or for safety reasons)

• For patients on crizanlizumab, have been ≥ 80% compliant

Key inclusion and exclusion criteria: GenderKey inclusion and exclusion criteria: Specify genderBothKey inclusion and exclusion criteria: Age minimumKey inclusion and exclusion criteria: Age maximum1218

Key inclusion and exclusion criteria: Exclusion criteria

Medical Conditions

1. More than 10 VOCs within the past 12 months that required a hospital, emergency room (ER), or clinic visit

2. Hospitalized for sickle cell crisis or other vaso-occlusive event within 14 days of Screening

3. Abnormal TCD in the prior 12 months

Prior/Concomitant Therapy

4. Patients receiving regularly scheduled blood (RBC) transfusion therapy (also termed chronic, prophylactic, or preventive transfusion)

5. Received any blood products within 30 days of starting study treatment

6. Receiving or use of concomitant medications that are strong inducers of cytochrome P450 (CYP) 3A4/5 within 2 weeks of starting study treatment

7. Use of voxelotor within 28 days prior to starting study treatment or anticipated need for this agent during the study

8. Receipt of erythropoietin or other hematopoietic growth factor treatment within 28 days of starting study treatment or anticipated need for such agents during the study

9. Receipt of prior cellular based therapy (eg, hematopoietic cell transplant, gene modification therapy)

Type of study

Interventional

Type of intervention	Type of intervention: Specify type
Pharmaceutical	N/A
Trial scope Other	Trial scope: Specify scope
Study design: Allocation	Study design: Masking
Single Arm Study	Open (masking not used)
Study design: Control	Study phase
Active	1 to 2
Study design: Purpose	Study design: Specify purpose
Treatment	N/A
Study design: Assignment Single	Study design: Specify assignment N/A
IMP has market authorization No	IMP has market authorization: Specify

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Name of IMP	Year of authorization	Month of authorization
-		
Type of IMP Others		
Pharmaceutical class		
Antianaemics- Pyruvate kinase red blood cell isozyme (PKR) agonist		
Therapeutic indication Sickle Cell Disease		
Therapeutic benefit		
Etavopivat is an investigational, oral, small molecule activator of erythrocyte development for the treatment of sickle cell disease (SCD) and other hemog activation is proposed to ameliorate the sickling of SCD red blood cells (RBC mechanisms, including reduction of 2,3-diphosphoglycerate (2,3-DPG), which hemoglobin (Hb)-oxygen affinity; increased binding of oxygen reduces sickle polymerization and sickling. In addition, PKR activation increases adenosine produced via glycolytic flux, which helps preserve membrane integrity and R	lobinopathies. PKR Cs) through multiple h consequently increases hemoglobin triphosphate (ATP)	
Study model	Study model: Explain model	
N/A	N/A	
Study model: Specify model N/A		
Time perspective N/A	Time perspective: Explain time N/A	perspective
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	PK and PD samples	
Target sample size 8	Actual enrollment target size	
Date of first enrollment: Type	Date of first enrollment: Date	
Anticipated	15/11/2022	
Date of study closure: Type	Date of study closure: Date	

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Anticipated	12/09/2026
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	

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
N/A	N/A	

Sources of Monetary or Material Support
Name
Forma Therapeutics, Inc. USA
Forma Therapeutics, Inc. USA

Secondary Sponsors	
Name	
N/A	



Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Mohamed Salloum	Saint Therese street, Beirut	Lebanon	+961 81967 578	mohamed.sallou m@iqvia.com	IQVIA
Scientific	Cameron Trenor	300 North Beacon Street, Suite 501 Watertown, MA 02472	United States of America	+1-857- 209-2374	4202- 202Clinical@for marx.com	Forma Therapeuti cs, Inc.

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
Nini Hospital s.a.l.	Dr. Adlette Inati	Hematology	Approved
American University of Beirut Medical Center	Dr. Miguel Abboud	Hematology	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Nini Hospital	26/08/2022	Dr. Elias Bitar	-	+9616431400
American University of Beirut Medical Center	26/01/2023	Dr. Nathalie Zgheib	irb@aub.edu.lb	+961 1 35 00 00 – Ext 5445

Countries of Recruitment
Name
Lebanon
Canada

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

Interventions			
Intervention	Description	Keyword	
Drug	Etavopivat (FT-4202)	-	



Primary Outcomes				
Name	Time Points	Measure		
To assess the PK of etavopivat in patients with SCD	-	Single-dose: maximum concentration (Cmax), area under the concentration time curve (AUC)0-t, AUC0-inf		
To assess the PK of etavopivat in patients with SCD	-	Steady-state etavopivat plasma exposure (Cmax,ss, AUCtau,ss, Cavg,ss, Cmin,ss)		
To assess the PK of etavopivat in patients with SCD	-	Estimated using population PK		
To assess the safety and tolerability of etavopivat	During the 24-week primary treatment period	Incidence of adverse events (AEs), serious adverse events (SAEs), and AEs related to etavopivat		
To assess the safety and tolerability of etavopivat	During the 24-week primary treatment period	Number of premature discontinuations, dose interruptions, and dose reductions		

Key Secondary Outcomes				
Name	Time Points	Measure		
To assess the safety and tolerability of etavopivat	during the 72-week treatment extension period	Incidence of AEs, SAEs, and AEs related to etavopivat		
To assess the safety and tolerability of etavopivat	during the 72-week treatment extension period	Number of premature discontinuations, dose interruptions, and dose reductions		
To assess the effects of etavopivat on hemoglobin (Hb) response	Weeks 12 and 24	Hb response rate (increase of > 1 g/dL from baseline)		
To assess the effects of etavopivat on hemoglobin (Hb) response	Weeks 12 and 24	Change in Hb from baseline		
To describe occurrence of vaso-occlusive crisis (VOCs) in enrolled patients	-	Change from baseline in incidence of VOCs during the treatment period of: Number of VOCs + Annualized Rate of VOC		
To assess changes in fatigue of patients with SCD taking etavopivat	Weeks 12 and 24	Change from baseline in Patient-Reported Outcomes Measurement Information System (PROMIS) Fatigue Scale		
To assess changes in cerebral blood flow in patients with SCD taking etavopivat	-	Change from baseline in time-averaged mean of the maximum velocity (TAMMV) by transcranial Doppler ultrasonography (TCD)		



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