REPUBLIC OF LEBANON Lebanon Clinical Trials Registry

A Randomized, Placebo-controlled, Phase 2 Study to Evaluate the Safety and Pharmacodynamics of Once-daily Oral IW-1701 in Patients with Stable Sickle Cell Disease

18/08/2025 17:55:38

	10/00/2025 17:55:30
Main Information	
Primary registry identifying number LBCTR2019091283	Protocol number C1701-202
MOH registration number	
Study registered at the country of origin Yes	Study registered at the country of origin: Specify
Type of registration	Type of registration: Justify
Prospective	N/A
Date of registration in national regulatory agency	
Primary sponsor	Primary sponsor: Country of origin
Cyclerion Therapeutics, Inc.	United States of America
Date of registration in primary registry	Date of registration in national regulatory agency
23/10/2019	
Public title	Acronym
A Randomized, Placebo-controlled, Phase 2 Study to Evaluate the Safety and Pharmacodynamics of Once-daily Oral IW-1701 in Patients with Stable Sickle Cell Disease	STRONG SCD
Scientific title	Acronym
A Randomized, Placebo-controlled, Phase 2 Study to Evaluate the Safety and Pharmacodynamics of Once-daily Oral IW-1701 in Patients with Stable Sickle Cell Disease	STRONG SCD
Brief summary of the study: English	
The primary objective of the C1701-202 STRONG SCD study is to evaluate the safety and tolerability of different dose levels of IW- 1701 compared with placebo when administered daily for approximately 12 weeks to patients with stable sickle cell disease (SCD). Exploratory objectives include evaluation of pharmacokinetic (PK) as well as evaluation of the effect of IW-1701 on symptoms of SCD, health-related quality of life, and biomarkers of pharmacodynamic (PD) activity.	
Brief summary of the study: Arabic	
الهدف الأساسي من دراسة الهدف الأساسي من دراسة المستقر. تشمل الأهداف الاستكشافية تقييم ٢ مقارنة مع الدواء الارضائي عند تناوله يومياً لمدة الحرائك الدوائية المنجلية المستقر ونوعية الحياة المتعلقة بالصحة والمؤشرات الحيوية للنشاط الديناميكي الدوائي (PC).	

Health conditions/problem studied: Specify

Stable sickle cell disease

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Interventions: Specify

Eligible patients will be stratified by hydroxyurea (HU) use (yes or no) and randomly assigned in a 3:1 ratio to receive IW-1701 once daily or placebo.

Arm 1: IW-1701 (Olinciguat) -uptitration possible for patients who meet the conditions to begin taking the applicable higher dose. Arm 2: placebo.

Key inclusion and exclusion criteria: Inclusion criteria

1. Patient is ambulatory male or female 16 to 70 years of age at the Screening Visit.

2. Patient has SCD, including HbSS, HbSC, HbSβ0-thalassemia, or HbSβ+-thalassemia, documented in their medical history

3. If patient is on medication(s) for SCD, such as hydroxyurea (HU), are on a stable regimen.

4. Per medical history and/or patient recall, patient has had at least 1 and no more than 10 sickle cell-related pain crises in the 12 months before the Screening Visit and none occurring in the 4 weeks before the Randomization Visit.

5. Women of childbearing potential must have a negative pregnancy test prior to randomization and must agree to use protocol-specified contraception from the Screening Visit through 90 days after the final dose of study drug.

6. Male patients must be surgically sterile by vasectomy (conducted ≥60 days before the Screening Visit or confirmed via sperm analysis) or must

agree to use protocol-specified contraception and agree to refrain from sperm donation from the Screening Visit through 90 days after the final dose of study drug.

7. Patient completes daily eDiary entries for at least 10 days during the last 14 days of the Run in Period as assessed at the Randomization Visit.

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

1. Patient requires a program of prescheduled, regularly administered chronic blood transfusion therapy.

2. Patient has been hospitalized for an SCD-related complication in the 4 weeks before the Randomization Visit.

3. Patient has taken opioid(s) >200 morphine mg equivalent/day within the 4 weeks before the Randomization Visit.

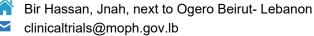
4. Patient is taking aspirin ≥325 mg daily, P2Y12 inhibitors, any anticoagulant medication, specific inhibitors of phosphodiesterase 5 (PDE5), nonspecific inhibitors of PDE5, moderate or strong cytochrome P450 3A (CYP3A) inhibitors, any supplements for the treatment of erectile dysfunction, riociguat, or nitrates or nitric oxide donors in any form.

5. Patient has major concurrent illness or medical condition that in the opinion of the Investigator would preclude participation in a clinical study.

Type of study

Interventional

Type of intervention	Type of intervention: Specify type
Pharmaceutical	N/A
Trial scope	Trial scope: Specify scope
Safety	N/A
Study design: Allocation	Study design: Masking
Randomized controlled trial	Blinded (masking used)
Study design: Control	Study phase
Placebo	2
Study design: Purpose	Study design: Specify purpose



Study design: Assignment Study design: Specify assignment Parallal N/A MP has market authorization MP has market authorization: Specify so MP has market authorization: Specify so Ver of authorization Month of authorization Month of authorization W1701/olincipuat. Ver of authorization Vippe of IMP Impact of the second of the s	MINISTRY OF PUBLIC HEALTH	Lebanon Clinical Trials Registry
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	Target sample size	Actual enrollment target size

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Date of first enrollment: Type Anticipated	Date of first enrollment: Date 18/11/2019
Date of study closure: Type Anticipated	Date of study closure: Date 31/07/2020
Recruitment status Pending	Recruitment status: Specify
Date of completion	
IPD sharing statement plan No	IPD sharing statement description Not applicable
Additional data URL https://www.clinicaltrials.gov/ct2/show/NCT03285178 Admin comments	
Trial status Approved	

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
ClinicalTrials.gov	NCT03285178	

Sources of Monetary or Material Support	
Name	
Cyclerion Therapeutics, Inc.	

Secondary Sponsors

Name

None



Contact for Public/Scientific Queries						
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Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval	
Hammoud Hospital University Medical Center	Dr. Wissam Houhou	Hematology and Oncology	Approved	

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Hammoud Hospital University Medical Center	16/09/2019	Ghada Aoun	medical@hammoudhospital.org	+961 7 723 111 Ext 1956

Countries of Recruitment
Name
Lebanon
United Kingdom
United States of America

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



Interventions			
Intervention	Description	Keyword	
Arm 1	Placebo	Placebo	
Arm 2	IW-1701	olinciguat	

Primary Outcomes		
Name	Time Points	Measure
Safety and tolerability	12 weeks	Incidence, frequency, and severity of TEAEs and study drug-related TEAEs

Key Secondary Outcomes			
Name	Time Points	Measure	
Hemodynamic Parameters	12 weeks	blood pressure and pulse	
Pain Crisis Paramaters	12 weeks	Time to first pain crisis, proportion and frequency of pain crisis	
Biomarkers	12 weeks	Biomarker concentration changes	
Pharmacokinetic	12 weeks	Plasma concentrations	
Patient-reported Outcomes	12 weeks	Patient Questionnaires	



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