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Phase 2 Placebo-Controlled, Double-Blind, Multicenter Study to Evaluate the Efficacy, Safety, and Tolerability of DCR-PHXC Solution for Injection (subcutaneous use) in Patients with Primary Hyperoxaluria

09/08/2025 08:00:03 Main Information Primary registry identifying number Protocol number LBCTR2020043435 DCR-PHXC-201 MOH registration number Study registered at the country of origin Study registered at the country of origin: Specify No Study registered in clinicaltrials.gov Type of registration Type of registration: Justify Prospective N/A Date of registration in national regulatory agency 15/02/2019 **Primary sponsor** Primary sponsor: Country of origin Dicerna Pharmaceuticals, Inc US Date of registration in primary registry Date of registration in national regulatory agency 27/04/2020 15/02/2019 Public title Acronym Phase 2 Placebo-Controlled, Double-Blind, Multicenter Study to Evaluate the Efficacy, Safety, and Tolerability of DCR-PHXC Solution for Injection (subcutaneous use) in Patients with Primary Hyperoxaluria Scientific title Acronym PHYOX2 Phase 2 Placebo-Controlled, Double-Blind, Multicenter Study to Evaluate the Efficacy, Safety, and Tolerability of DCR-PHXC Solution for Injection (subcutaneous use) in Patients with Primary Hyperoxaluria Brief summary of the study: English This is a 6-month randomized, placebo-controlled, double-blind study of DCR-PHXC in patients with primary hyperoxaluria (PH1 and PH2). Potential participants are screened over an up-to- 6week period prior to randomization to DCR-PHXC or placebo. The proposed study is designed to evaluate the efficacy, safety, tolerability, and PK of DCR-PHXC versus placebo in patients with PH1 and PH2. Brief summary of the study: Arabic

DCR- أشهر ، في المرحلة الثانية، متعددة المراكز ومزدوجة التعمية، محكومة بدواء وهمي لتقييم فعالية و سلامة محلول الحقن6دراسة مدتها (تحت الجلد) ودرجة تحمله لدى المرضى الذين يعانون من فرط أوكسالات البول الأولى PHXC

Health conditions/problem studied: Specify

DCR-PHXC is designed to selectively reduce LDHA messenger ribonucleic acid (mRNA) and lactate dehydrogenase (LDH) activity in the liver, and subsequently decrease liver oxalate production. DCR-PHXC is being developed as a treatment for PH, an ultra-rare autosomal recessive

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disease characterized by excessive production of oxalate in the liver.

Interventions: Specify

DCR-PHXC is a synthetic RNAi drug that consists of a double-stranded oligonucleotide conjugated to GalNAc ligands. DCR-PHXC is a sterile formulation of drug substance (DCR-L1360) in WFI, intended for SC administration. DCR-PHXC is not commercially available in any country. The placebo comparator is 0.9% normal saline for injection.

Key inclusion and exclusion criteria: Inclusion criteria

• 24-hour Uox excretion ≥ 0.7 mmol (adjusted per 1.73 m2 body surface area [BSA] in participants < 18 years of age) in both collections performed in the screening period. Of the first 24 participants enrolled, at least 12 (50%) must have at least one 24-hour Uox excretion ≥ 1.6 mmol (adjusted per 1.73 m2 BSA in participants aged < 18 years).

• Less than 20% variation between the two 24-hour urinary creatinine excretion values [mmol/24 hr/kg] derived from the two 24-hour urine collections in the screening period.

• Estimated glomerular filtration rate (eGFR) at screening ≥ 30 mL/min normalized to 1.73 m2 BSA calculated using Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) formula in participants aged ≥ 18 years (Levey & Stevens, 2010), or the formula by Schwartz in participants aged 6 to 17 years, (Schwartz et al., 2009; National Kidney Foundation, 2002). In Japan, the formula by Uemura et al. will be used for

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participants aged 6 to 17 years.

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

• Renal or hepatic transplantation (prior or planned within the study period)

· Current dialysis or anticipated requirement for dialysis during the study period

Plasma oxalate > 30 µmol/L

• Documented evidence of clinical manifestations of systemic oxalosis (including preexisting retinal, heart, or skin calcifications, or history of severe bone pain, pathological fractures, or bone deformations)

• Liver function test (LFT) abnormalities: Alanine aminotransferase (ALT) and/or aspartate aminotransferase (AST) >1.5 times upper limit of normal (ULN) for age and gender.

Type of study

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Interventional

Type of intervention Pharmaceutical	Type of intervention: Specify type N/A	
Trial scope Other	Trial scope: Specify scope	
Study design: Allocation Randomized controlled trial	Study design: Masking Blinded (masking used)	
Study design: Control Placebo	Study phase 2	
Study design: Purpose Treatment	Study design: Specify purpose N/A	
Study design: Assignment Parallel	Study design: Specify assignment N/A	
IMP has market authorization No	IMP has market authorization: Specify	
Name of IMP DCR-PHXC	Year of authorizationMonth of authoriza20201	tion
Type of IMP		



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Study model: Explain model

Others

Pharmaceutical class

Synthetic double-stranded (hybridized duplex) RNA oligonucleotide conjugated to GalNAc .

Therapeutic indication

DCR-PHXC is designed to selectively reduce LDHA messenger ribonucleic acid (mRNA) and lactate dehydrogenase (LDH) activity in the liver, and subsequently decrease liver oxalate production. DCR-PHXC is being developed as a treatment for PH, an ultra-rare autosomal recessive disease characterized by excessive production of oxalate in the liver.

Therapeutic benefit

Study model

Patients with PH are predisposed to the development of multiple and recurrent urinary tract (urolithiasis) and kidney (nephrolithiasis) stones. This deposition of calcium oxalate in the renal parenchyma produces tubular toxicity and renal damage. At present, no therapies are approved by regulatory authorities for the treatment of patients with PH. A number of supportive therapies are used in an attempt to mitigate some of the effects of the disease. DCR-PHXC treatment has the potential benefit to reduce or eliminate the excess oxalate production in

the liver and thus avoid the need for a combined liver and kidney transplantation in patients not already on renal replacement therapy.

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	Biospecimen description
Samples with DNA**	Samples may be stored for a maximum of 5years (or according to local regulations) following the last participant's last visit for the study at a facility selected by the sponsor to enable further analysis of immune responses to DCR-PHXC.
Target sample size 36	Actual enrollment target size
Date of first enrollment: Type Actual	Date of first enrollment: Date 28/10/2019
Date of study closure: Type Actual	Date of study closure: Date 30/01/2021

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Recruitment status	Recruitment status: Specify
Recruiting	
Date of completion	
IPD sharing statement plan	IPD sharing statement description
No	Participants will be assigned a unique identifier by the Sponsor. Any participant records or data sets that are transferred to the Sponsor will contain the identifier only; participant names or any information which would make the participant identifiable will not be transferred
Additional data URL	

Admin comments

Trial status

Approved

Secondary Identifying Numbers			
Full name of issuing authority	Secondary identifying number		
1.US NCT	NCT03847909		
2.WHO Universal	U1111-1224-6881		

Sources of Monetary or Material Support

Name

Dicerna pharmaceuticals inc. 87 Cambridgepark Drive Cambridge, MA 02140 US

Secondary Sponsors	
Name	
N/A	

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Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Chadi Safa	Beirut	Lebanon	009617125 1819	chadi.safa@clina rt.net	Clinart Mena
Scientific	Chebl Mourani	Beirut	Lebanon	009611290 090	cheblmourani@g mail.com	Hotel Dieu de France

Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval	
Hotel Dieu De France	Chebl Mourani	Pediatric Nephrology	Approved	
Saint George University Hospital	Pauline Abou Jaoude	Pediatric Nephrology	Approved	

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Hotel Dieu de France	01/10/2019	Nancy Alam	nancy.alam@usj.edu.lb	01421000
Saint George Hospital University Medical Center	29/11/2019	Sandra Berberi	smberbari@stgeorgehospital.org	01 1 44 16 30





Countries of Recruitment
Name
Australia
Canada
France
Germany
Italy
Japan
Netherlands
New Zealand
Poland
Romania
Spain
United Kingdom
United States of America
Lebanon

Health Conditions or Problems Studied			
Condition Code Keyword			
Primary Hyperoxaluria	Nephrotic syndrome, other (N04.8)	РНҮОХ	

Interventions			
Intervention	Description	Keyword	
DCR-PHXC	DCR-PHXC is a synthetic RNAi drug that consists of a double-stranded oligonucleotide conjugated to GalNAc ligands. DCR-PHXC is a sterile formulation of drug substance (DCR- L1360) in WFI, intended for SC administration. DCR-PHXC is not commercially available in any country.	DCR-PHXC	
Placebo	The placebo comparator is 0.9% normal saline for injection.	Placebo	





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Primary Outcomes			
Name	Time Points	Measure	
To assess the efficacy of DCR-PHXC in reducing urinary oxalate burden in patients with PH (types 1 and 2)	The proportion of participants with a reduction from baseline in 24-hour Uox of at least 70%, based on a TWS AUC and/or reaching normalization or near- normalization of 24-hour Uox on at least 2 consecutive visits, starting from Day 90. Normalization of Uox is defined as < 0.46 mmol/24 hours; near- normalization is defined as ≥ 0.46 to < 0.60 mmol/24 hours (values adjusted per 1.73 m2 BSA in participants aged < 18 years).	24-hour Uox	

Key Secondary Outcomes			
Name	Time Points	Measure	
To evaluate the effect of DCR-PHXC on stone burden in patients with PH	Percent change in the summed surface area and number of kidney stones identified via kidney ultrasound from Baseline to Day 180	Number of Kidney stone	
To evaluate the effect of DCR-PHXC on plasma oxalate in patients with PH	Percent change in plasma oxalate from Baseline to Day 180 (for adults only)	Plasma Oxalate	
To evaluate the effect of DCR-PHXC on eGFR	Rate of change in eGFR from Baseline to Day 180	eGFR	
To assess the safety of DCR-PHXC in patients with PH	AE and SAE; change from Baseline in 12-lead ECG, physical examination findings, vital signs, and clinical laboratory tests	12 Lead ECG, Physical Examination test, Vital signs, Clinical Laboratory test.	
To characterize the PK of DCR-PHXC in patients with PH	Population and individual PK parameters for DCR- PHXC	РК	





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