

Study registered at the country of origin: Specify

Date of registration in national regulatory agency

Prevalence of the disease is low in Switzerland and potential sites might not be able to enroll patients during the planned duration of

Protocol number

KOR-PED-201

the study

Switzerland

Acronym

Acronym

N/A

Type of registration: Justify

Primary sponsor: Country of origin

Single dose study to evaluate how intravenous administered difelikefalin is absorbed by and cleared from Adolescents on Haemodialysis

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Primary registry identifying number

LBCTR2022125201

MOH registration number

Study registered at the country of origin

Type of registration

Prospective

Date of registration in national regulatory agency

Primary sponsor

Vifor Fresenius Medical Care Renal Pharma Ltd.

Date of registration in primary registry

07/02/2023

Public title

Single dose study to evaluate how intravenous administered

difelikefalin is absorbed by and cleared from Adolescents on Haemodialysis

Scientific title

An Open-label, Single Arm Study to Evaluate the Pharmacokinetics of a Single Dose of Intravenous Difelikefalin in Adolescents Aged 12 to 17 Years on Haemodialysis

Brief summary of the study: English

This is an open-label study to evaluate the activity of a single dose of intravenous Difelikefalin in the body, including its absorption, distribution and excretion from the body, in adolescents aged 12 to 17 Years on haemodialysis.

Brief summary of the study: Arabic

عن طريق الوريد في الجسم ، بما في ذلك امتصاصه، توزيعه وإفرازه Difelikefalin هذه دراسة مفتوحة التسمية لتقييم نشاط جرعة واحدة من . عامًا يخضعون لغسيل الكلي17 و 12من الجسم ، لدى المراهقين الذين تتراوح أعمارهم بين

Health conditions/problem studied: Specify

Patients with chronic kidney disease undergoing hemodialysis

Interventions: Specify

Drug: Difelikefalin (CR845)

Key inclusion and exclusion criteria: Inclusion criteria

1. End-stage renal disease (ESRD) subjects who have been on HD for at least 3 months and are currently on HD at least 3 times per week.

Bir Hassan, Jnah, next to Ogero Beirut-Lebanon clinicaltrials@moph.gov.lb



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Subjects with or without associated pruritus may enroll.

- 2. Males or females 12 to 17 years of age, at the time of consent.
- 3. Has a prescription dry body weight ≥20 kg and ≤100 kg.

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

17

Key inclusion and exclusion criteria: Exclusion criteria

1. Known to be non-compliant with HD treatments and deemed unlikely to complete the study by the Investigator (i.e., has a history of missed HD

sessions due to non-adherence in the past 2 months).

- 2. Planned or anticipated to receive a kidney transplant during the study. Note: Being on a kidney transplant list is not an exclusion criterion.
- 3. Serum alanine aminotransferase (ALT), aspartate aminotransferase (AST) greater than 2.5 × the reference upper limit of normal (ULN), or bilirubin greater than 4 × the ULN at screening.
- 4. Subject has known hypersensitivity to the study drug or any components of the difelikefalin formulation.
- 5. Known history of allergic reaction to opiates such as hives. Note: Side effects related to the use of opioids such as constipation or nausea would not exclude the subjects from the study.
- 6. Previous participation in this study.
- 7. Known or suspected history of alcohol, narcotic, or other drug abuse or substance dependence within 12 months prior to screening.
- 8. Acute or unstable medical condition(s) which in the opinion of the Investigator would pose undue risk to the subject or would impede complete

collection of evaluable data.

Type of study

Interventional

Type of intervention Type of intervention: Specify type

Pharmaceutical N/A

Trial scope Trial scope: Specify scope

Other

Study design: AllocationStudy design: MaskingSingle Arm StudyOpen (masking not used)

Study design: Control Study phase

NI/A

Study design: Purpose Study design: Specify purpose

Treatment

Study design: Assignment Study design: Specify assignment

Single

IMP has market authorization IMP has market authorization: Specify

Yes, Worldwide USA, Germany, Austria, Netherlands

Name of IMP Year of authorization Month of authorization

N/A

KORSUVA (US), KAPRUVIA (EU) 2021

Type of IMP

Others

Pharmaceutical class

Selective Kappa-Opioid Receptor (KOR) full agonist

Therapeutic indication

moderate-to-severe pruritus associated with chronic kidney disease in patients on haemodialysis



Therapeutic benefit

Opioid receptors are involved in the modulation of pruritus and pain signals and consist mainly of 3 subtypes, classified as mu, kappa, and delta. These receptor subtypes are found in the CNS (ie, brain and spinal cord), on sensory ganglionic neurons and their nerve fibers innervating peripheral tissues such as skin, and on certain cell types of the immune system. Most clinically used opioid analgesics act primarily via

activation of mu-opioid receptors located in the CNS and peripheral nervous system. As such, there are associated with a wide array of side effects, such as sedation, respiratory depression, abuse liability, cardiovascular collapse, and death.

To avoid these undesirable effects, difelikefalin was designed to only activate KORs, which are known to modulate visceral and inflammatory pain, pruritus, and inflammatory signals in animals and humans.

Study model Study model: Explain model

N/A N/A

Study model: Specify model

N/A

Time perspective Time perspective: Explain time perspective

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

None retained N/A

Target sample size Actual enrollment target size

Date of first enrollment: Type Date of first enrollment: Date

02/01/2023 Anticipated

Date of study closure: Type Date of study closure: Date

Anticipated 30/06/2023

Recruitment status **Recruitment status: Specify**

Pending

Date of completion

IPD sharing statement plan IPD sharing statement description

No



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Admin comments

Trial status

Approved

| Secondary Identifying Numbers | |
|--------------------------------|--------------------------------|
| Full name of issuing authority | Secondary identifying number |
| EU Clinical Trials Register | EudraCT Number: 2021-000894-94 |

Sources of Monetary or Material Support

Name

Vifor Fresenius Medical Care Renal Pharma Ltd.

Secondary Sponsors

Name

NA

| Contac | Contact for Public/Scientific Queries | | | | | |
|-----------------|---------------------------------------|---|-------------|-------------------|----------------------------------|--|
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| Public | Diana Salameh | Beirut | Lebanon | +961 3 902 515 | diana.salame@w orldwide.com | Worldwide Clinical Trials |
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Lebanon Clinical Trials Registry

| Centers/Hospitals Involved in the Study | | | | |
|---|---------------------------------|------------------------------------|------------------|--|
| Center/Hospital name | Name of principles investigator | Principles investigator speciality | Ethical approval | |
| Hotel Dieu de France hospital | Dr. Chebl Mourani | Pediatric Nephrology | Approved | |
| Saint Georges University Medical Center | Dr. Pauline Abou Jaoude | Pediatric Nephrology | Pending | |

| Ethics Review | | | | | |
|--------------------------|---------------|----------------|---------------|---------------|--|
| Ethics approval obtained | Approval date | Contact name | Contact email | Contact phone | |
| Hotel Dieu de France | 02/11/2022 | Pr. Sami Richa | - | +9611604000 | |

| Countries of Recruitment |
|--------------------------|
| Name |
| Lebanon |
| Italy |
| United Kingdom |

| Health Conditions or Problems Studied | | | | |
|--|-----------------------------|-------------------------------------|--|--|
| Condition | Code | Keyword | | |
| Chronic kidney disease associated pruritus in haemodialysis patients | Pruritus (L29) | pruritus, kidney disease, pediatric | | |
| Chronic kidney disease associated pruritus in hemodialysis patients | Chronic renal failure (N18) | CKD, associated pruritus | | |

| Interventions | | |
|---------------|-----------------------|-------------|
| Intervention | Description | Keyword |
| Drug | Difelikefalin (CR845) | KOR agonist |

| Primary Outcomes | | | |
|---|----------------|-------------|--|
| Name | Time Points | Measure | |
| PK profile of difelikefalin after a single dose post-HD | Day 1, 2 and 3 | PK sampling | |



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| Key Secondary Outcomes | | | | |
|---|---------------------|---|--|--|
| Name | Time Points | Measure | | |
| Incidence of adverse events (AEs) and serious adverse events (SAEs) | From Day 1 to Day 7 | Documentation of all AEs occurred during conduct of study | | |
| Incidence of adverse events (AEs) and serious adverse events (SAEs) | From Day 1 to Day 7 | Measurement of vital signs, ECG measurements, blood tests | | |

| 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 | |
| | |