

# Real World Evidence of Safety and Dosing of Mircera in Children with Chronic Kidney Disease

**First published:** 26/02/2019

**Last updated:** 14/03/2024

Study

Finalised

## Administrative details

### EU PAS number

EUPAS28490

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### Study ID

44502

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### DARWIN EU® study

No

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### Study countries

☐ Germany

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## Study description

The study aims to further characterize safety, dosing and related hemoglobin concentrations and to validate the dose simulation models of Mircera in pediatric patients with anemia due to CKD in a real-world setting.

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## Study status

Finalised

# Research institutions and networks

## Networks

### International Pediatric Dialysis Network (IPDN)

☐ European Union

**First published:** 28/12/2020

**Last updated:** 20/08/2024

Network

## Contact details

### Study institution contact

Milena Studer [milena.studer@roche.com](mailto:milena.studer@roche.com)

Study contact

[milena.studer@roche.com](mailto:milena.studer@roche.com)

### Primary lead investigator

Franz Schaefer

Primary lead investigator

## Study timelines

### **Date when funding contract was signed**

Planned: 22/08/2018

Actual: 22/08/2018

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### **Study start date**

Planned: 01/03/2019

Actual: 21/01/2019

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### **Date of interim report, if expected**

Planned: 29/11/2019

Actual: 24/10/2019

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### **Date of final study report**

Planned: 31/12/2021

Actual: 29/12/2021

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Hoffmann La Roche

# Study protocol

[Prot MH40258 MIRCERA v1, Published Output-1\\_21 Jan 2019\\_Redacted.26.2.19\\_Redacted Encepp.pdf\(3.78 MB\)](#)

[Prot MH40258 Methoxy Polyethylene Glycol - Epoetin Beta v2, Published Output-1\\_Redacted.pdf\(1.29 MB\)](#)

## Regulatory

**Was the study required by a regulatory body?**

Yes

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**Is the study required by a Risk Management Plan (RMP)?**

Not applicable

## Other study registration identification numbers and links

MH40258

## Methodological aspects

### Study type

### Study type list

**Study topic:**

Disease /health condition

Human medicinal product

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**Study type:**

Non-interventional study

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**Scope of the study:**

Assessment of risk minimisation measure implementation or effectiveness

Safety study (incl. comparative)

**Data collection methods:**

Secondary use of data

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**Main study objective:**

The objectives for the study are to describe the safety profile of Mircera by aggregate assessment of safety data (number and causes of deaths and hospitalizations) and to assess the relationship between Mircera dosing and Hb concentrations using patient level data.

## Study Design

**Non-interventional study design**

Cohort

Other

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**Non-interventional study design, other**

Non-interventional study secondary data use (NIS SDU) and voluntary post-authorization safety study (PASS) of pediatric patients from the International Pediatric Peritoneal Network (IPPN) and International Pediatric Hemodialysis

## Study drug and medical condition

### **Name of medicine**

MIRCERA

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### **Medical condition to be studied**

Chronic kidney disease

## Population studied

### **Short description of the study population**

Pediatric patients aged from 0 months to less than 18 years old on chronic peritoneal dialysis (PD) or HD, with at least one observation while treated with Mircera, who are included in two international, prospective, multicenter registries (IPPN and IPHN).

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### **Age groups**

Term newborn infants (0 - 27 days)

Infants and toddlers (28 days - 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

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### **Special population of interest**

Renal impaired

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### **Estimated number of subjects**

148

## Study design details

## Outcomes

Descriptive analyses of aggregate safety data for the cumulative number and leading cause of hospitalizations and deaths, over the period of observation (patients on Mircera treatment in the registry) and until 6 months after the last observation. Descriptive analysis of the relationship between Mircera dose and Hb concentrations using patient level data at the first and subsequent observations. An external validation of the Modeling and Simulation Framework will be performed and compared to observed data from the present study. The dose conversions from previous ESA treatment to Mircera will be evaluated.

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## Data analysis plan

The primary objectives will be addressed by conducting descriptive analyses for aggregate safety data, including cumulative number and cause of hospitalizations and deaths over the observation period and until 6 months after the last observation on Mircera and for patient level data on Mircera dose and Hb concentration at the first and subsequent observation(s) under Mircera treatment. Patient characteristics to be evaluated include demographics, clinical characteristics, specific treatments, and laboratory measures within each registry (IPPN and IPHN) for each age group. The secondary objectives will be addressed by conducting an external validation of the Modeling and Simulation Framework for Mircera that has been developed on Phase II and III adult data and the first pediatric study DOLPHIN (NH19707, Fischbach et al. 2018). In addition, the dose conversions from previous ESA treatment to Mircera that were determined/tested in studies NH19707 (IV) and NH19708 (SC) will be evaluated.

## Documents

### Study results

[1113174-csr-mh40258-CSR\\_synopsis\\_Redacted.pdf](#)(183.84 KB)

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## Data management

The use of the ENCePP Seal has been discontinued since February 2025. The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

## Data sources

### Data sources (types)

[Other](#)

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### Data sources (types), other

IPDN (entertains two registries): The IPPN registry for children on chronic peritoneal dialysis, and the IPHN registry for children on hemodialysis  
<http://pedpd.org/>

## Use of a Common Data Model (CDM)

### CDM mapping

No

## Data quality specifications

### Check conformance

Unknown

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### Check completeness

Unknown

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### **Check stability**

Unknown

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### **Check logical consistency**

Unknown

## Data characterisation

### **Data characterisation conducted**

No