A registry study to observe clinical practices, safety and effectiveness of routine use of Cerebrolysin in the treatment of patients with moderate to severe neurological deficits after acute ischaemic stroke

Submission date	Recruitment status No longer recruiting	Prospectively registered		
06/04/2021		[X] Protocol		
Registration date	Overall study status	[X] Statistical analysis plan		
27/04/2021 Last Edited	Completed Condition category	Results		
		Individual participant data		
12/09/2024	Circulatory System	[X] Record updated in last yea		

Plain English summary of protocol

Background and study aims

Stroke is a devastating disease and one of the primary causes for death and long-term morbidity imposing a heavy burden on patients, relatives and the health care system. Except for fibrinolytic therapy, which is only possible in a minor fraction of patients, there is no widely approved medication for the treatment of acute stroke.

Cerebrolysin has been approved for the treatment of stroke in over 45 countries worldwide. Since the approval of Cerebrolysin, stroke therapy has evolved, namely, with improved overall care, stroke units, more targeted rehabilitation, and the increasing availability of fibrinolytic therapy (rtPA, Actilyse) in specialized centers throughout the world. More recently, interventional therapies with various thrombus retrievers have emerged. In addition, the Cerebrolysin treatment in stroke has evolved with different time windows,

dosages and lengths of therapy being given in a pragmatic way by physicians within the specification of Product Characteristics for Cerebrolysin (SPC).

The main aim of this study is to systematically record Cerebrolysin treatment modalities and concomitant medication, according to local standards, in patients with moderate to severe neurological deficits after acute ischemic stroke and to assess the impact of these parameters on therapy outcome during early rehabilitation (day 21) and on day 90.

Besides this, the effectiveness and safety of Cerebrolysin therapy are monitored against the background of the now established and evolving stroke therapies (rtPA, thrombectomy). Furthermore, the effectiveness and safety of Cerebrolysin will be evaluated according to pre-existing diseases, concomitant medication and to applied rehabilitative actions. In the concomitant control group, these therapies alone or in combination will be compared to the addition of Cerebrolysin in these patients. Of interest is also the treatment in stroke units, with rtPA and systematic rehabilitation until day 21 and day 90.

An open observational treatment design has been chosen to collect data to capture the therapies as applied in real clinical practice. The pre-specified strategy follows the recommendations of the Principles for Good Research on Comparative Effectiveness (GRACE). A two-stage procedure is planned (Stage I: about 670 patients, Stage II: about 1400 patients).

Who can participate?

Patients aged 18 years or older, with clinical diagnosis of acute ischemic stroke, confirmed by imaging, no prior stroke, no prior disability.

What does the study involve?

All patients receive acute stroke care according to local treatment standards, which will not be amended or influenced by the study in any way. To evaluate the safety and effectiveness of Cerebrolysin in routine practice the outcome of Cerebrolysin-treated patients are compared with control group patients, who do not receive Cerebrolysin.

What are the possible benefits and risks of participating?

As this is a non-interventional study there are no additional treatments or evaluations. All patients receive acute stroke care according to local treatment standards, which will not be amended or influenced by the study. Patients are invited for two follow-up visits (day 21 and day 90) to evaluate and discuss the current status or their well-being. It is possible that a patient will receive Cerebrolysin according to treating physician's choice. Cerebrolysin might help to limit neurological deficits after stroke and enhance recovery.

The information obtained from this study will be helpful for the optimization and further research in the treatment of patients suffering from stroke.

There is no potential risk by participation in the study, the routine treatment will not be changed in any way.

Where is the study run from? EVER Neuro Pharma (Austria)

When is the study starting and how long is it expected to run for? February 2017 to May 2024

Who is funding the study? EVER Neuro Pharma (Austria)

Who is the main contact?

Dr Marion Jech, marion.jech@everpharma.com

Contact information

Type(s)

Public

Contact name

Dr Marion Jech

Contact details

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

NCT03480698

Secondary identifying numbers

EVER-AT-0717

Study information

Scientific Title

Cerebrolysin REGistry Study in Stroke- a High-quality Observational Study of Comparative Effectiveness

Acronym

C-REGS2

Study objectives

This study investigates the clinical practices, safety and effectiveness of Cerebrolysin in routine treatment of patients with moderate to severe neurological deficits after acute ischemic stroke. The study takes place because real-world data for the use of Cerebrolysin is needed.

Ethics approval required

Ethics approval required

Ethics approval(s)

Approved 23/01/2018, Ethikkommission des Landes Oberösterreich (Ethics Committee of Upper Austria, Wagner Jauregg Weg15, Linz, 4021, Austria; +42 (0)5 768087 Ext: 28631; ethikkommission.ooe@kepleruniklinikum.at), ref: 1026/2017

Study design

Prospective non-interventional registry study

Primary study design

Observational

Secondary study design

Registry study

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

No participant information sheet available

Health condition(s) or problem(s) studied

Acute stroke

Interventions

Standard stroke care is compared to standard stroke care and Cerebrolysin as add-on.

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Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Cerebrolysin

Primary outcome measure

Neurologic disability measured using the modified Rankin Scale (mRS) at 3 months after stroke onset

Secondary outcome measures

- 1. Stroke severity measured using NIH Stroke Scale (NIHSS) at 21 days and 3 months after stroke onset
- 2. Neurologic disability measured using modified Rankin Scale (mRS) at 21 days after stroke onset
- 3. Cognitive impairment measured using Montreal Cognitive Assessment (MoCA) at 3 months after stroke

Overall study start date

01/02/2017

Completion date

15/05/2024

Eligibility

Key inclusion criteria

- 1. Signed informed consent
- 2. Clinical diagnosis of acute ischemic stroke confirmed by imaging

- 3. Moderate to severe neurological deficits with NIH Stroke Scale (NIHSS) 8 to 15, both inclusive
- 4. No prior stroke
- 5. No prior disability
- 6. Patient's independence prior to stroke onset (pre-morbid mRS of 0 or 1)
- 7. Reasonable expectation of successful follow-up (max. 100 days)

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

2,000

Total final enrolment

1851

Key exclusion criteria

Does not meet inclusion criteria

Date of first enrolment

25/04/2018

Date of final enrolment

31/12/2023

Locations

Countries of recruitment

Austria

Korea, South

Mexico

Philippines

Poland

Romania

Russian Federation

Ukraine

Viet Nam

Study participating centre Kepler University Hospital Linz (KUK)

Klinik für Neurologie 2, Med Campus III, Kepler Universitätsklinikum Krankenhausstraße 9 Linz Austria 4020

Study participating centre University Hospital Tulln

Abteilung für Neurologie Alter Ziegelweg 10 Tulln Austria 3430

Study participating centre Hospital Amstetten

Abteilung für Neurologie Krankenhausstraße 21 Amstetten Austria 3300

Study participating centre University Hospital Innsbruck

Universitätsklinik für Neurologie Anichstraße 35 Innsbruck Austria 6020

Study participating centre University Hospital Salzburg

Christian-Doppler-Klinik Ignaz-Harrer-Straße 79 Salzburg Austria 5020

Study participating centre Chungnam National University Sejong Hospital

20 Bodeum 7-ro Sejong Korea, South 30099

Study participating centre Daegu Catholic University Medical Center 33, Duryugongwon-ro 17-gil, Nam-gu

Daegu Korea, South 42472

Study participating centre Southern Medical Hospital

Calle de Puente de Piedra No. 150 Toriello Guerra Tlalpan Ciudad de Mexico Mexico 14140

Study participating centre Spitalul Clinic Judetean de Urgenta "Pius Brînzeu" Timisoara

Bulevardul Liviu Rebreanu 156 Timișoara Romania 300723

Study participating centre Central District Hospital of Mozhaisk

Mozhaisk Russian Federation 143200

Study participating centre Region Clinical Hospital of Stavropol

Stavropol Russian Federation 355029

Study participating centre Kyiv Regional Clinical Hospital Stroke Unit

Kyiv Ukraine 04107

Study participating centre Vinnytsia Regional Psycho-Neurological Hospital

Vinnytsia Ukraine 21037

Study participating centre Thái Nguyên National Hospital

479 Lương Ngc Quyn, Phan Đình Phùng, Thành ph Thái Nguyên

Viet Nam unkn.

Study participating centre

107 Szpital Wojskowy z Przychodnią Samodzielny Publiczny Zakład Opieki Zdrowotnej

ul. Kołobrzeska 44 Wałcz Poland

78-600

Study participating centre Instytut Psychiatrii i Neurologii w Warszawie

ul. Jana Sobieskiego 9 Warszawa Poland 02-957

Study participating centre

Perpetual Succour Hospital, Cebu City

Rm 412 Perpetual Succor Hospital SPC Medical Specialty Center, Gorodo Avenue

Cebu City Philippines 6000

Study participating centre
St. Luke's Medical Center - Quezon City
279 E. Rodriguez Sr. Blvd.
Quezon City
Philippines
1112

Sponsor information

Organisation

EVER Neuro Pharma (Austria)

Sponsor details

Oberburgau 3 Unterach Austria 4866 +43 (0)7665205550 office@everpharma.com

Sponsor type

Industry

Website

http://www.everpharma.com/

ROR

https://ror.org/032900178

Funder(s)

Funder type

Industry

Funder Name

EVER Neuro Pharma

Alternative Name(s)

EVER Pharma, EVER Neuro Pharma GmbH

Funding Body Type

Private sector organisation

Funding Body Subtype

For-profit companies (industry)

Location

Austria

Results and Publications

Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal.

Intention to publish date

30/06/2025

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request.

Name and email: Marion Jech marion.jech@everpharma.com

Type of data: hardlocked patient level analysis data

When and how long available: at time of publication, for 5 years

Access: password protected link

Shared with whom: academic or governmental institutions

For what type of analyses: re-analysis based on preplanned SAP methodology

Consent of participants obtained: Any patient identifiers as well as country- and site-specific

information will be removed for full data anonymisation

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<u>Protocol file</u>	version v3.3	01/03/2021	04/05/2021	No	No
Statistical Analysis Plan	version v1	24/10/2017	04/05/2021	No	No
Statistical Analysis Plan	version 1.1	22/07/2024	12/09/2024	No	No