A BROAD ANALYSIS OF SAFTEY DATA with A VERY PRECISE STATISTICAL RELEVANCE & EXPLANATORY POWER SHOWS THAT A CEREBROLYSIN® TREATMENT in Stroke Patients:



IMPROVES CLINICAL SAFETY



HAS A CLEAR CLINICAL TREATMENT BENEFIT



LOWERS THE MORTALITY

Cerebrolysin® dosage for stroke patients

Daily dosage	Initiation of treatment	Treatment Duration		
20 - 50ml	as soon as posible	10 - 21 days		



Title: Safety of Cerebrolysin for Neurorecovery after Acute Ischemic Stroke: A Systematic Review and

Meta-Analysis of Twelve Randomized-Controlled Trials

Author: S. Strilciuc, et al.

ournal: Pharmaceuticals

URL: https://pubmed.ncbi.nlm.nih.gov/34959697/

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ABBREVIATED PRESCRIBING INFORMATION – Cerebrolysin. Name of the medicinal product: Cerebrolysin - Solution for injection. Qualitative and quantitative composition: One ml contains 215.2 mg of Cerebrolysin concentrate in aqueous solution. List of excipients: Sodium hydroxide and water for injection. Therapeutic indications: For treatment of cerebrovascular disorders. Especially in the following indications: Senile dementia of Alzheimer's type. Vascular dementia. Stroke. Craniocerebral trauma (commotio and contusio). Contraindications: Hypersensitivity to one of the components of the drug, epilepsy, severe renal impairment. Marketing Authorization Holder: EVER Neuro Pharma GmbH, A-4866 Unterach Only available on prescription and in pharmacies.

More information about pharmaceutical form, posology and method of administration, special warnings and precautions for use, interaction with other medicinal products and other forms of interaction, fertility, pregnancy and lactation, effects on ability to drive and use machines, undesirable effects, overdose, pharmacodynamics properties, pharmacokinetic properties, preclinical safety data, incompatibilities, shelf life, special precautions for storage, nature and contents of the container and special precautions for disposal is available in the summary of product characteristics. (Reference SPC-CCDS Version 2.0/03.06.2016)

EVER Pharma Gmbh Oberburgau 3 4866 Unterach Austria

www.everpharma.com www.cerebrolysin.com







Cerebrolysin® improves treatment safety

Confirmed by multiple trials



Quality from Austria. Cerebrolysin

Reconnecting Neurons.

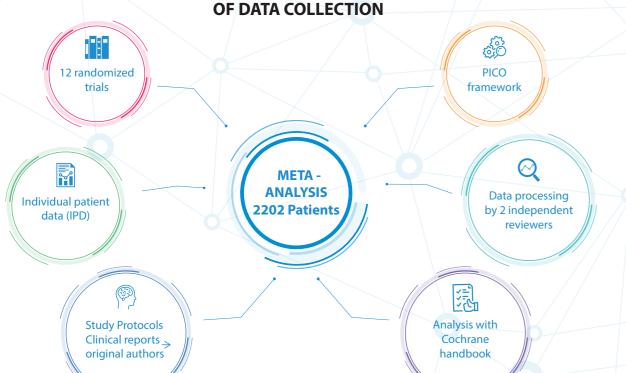


CLEAR IMPULSE TO IMPROVE THE CLINICAL SAFETY

Safety of Cerebrolysin® for Neurorecovery

A new Systematic Review by Strilciuc et al., 2021

MOST COMPREHENSIVE SAFETY META-ANALYSIS PERFORMED FOR CEREBROLYSIN® - A BROAD APPROACH





NEW BROAD ANALYSIS OF SAFTEY DATA FOR CEREBROLYSIN®

12					
randomized					
placebo					
controlled trials					

2202 patients

Inclusion of the largest number of studies on **Cerebrolysin®** after stroke

Maximum of safety-related data Following-up with primary source references

Requesting additional material from original authors



COCHRANE METHODOLOGY USED

Data collection and analysis according to the Cochrane Handbook for **Systematic Reviews of Interventions**



VERY PRECISE STATISTICAL RELEVANCE AND EXPLANATORY POWER

Accurate selection criterias and statisticals methods

PICO framework used

Robustness of the safety results

All-cause Deaths - Comparison of **Cerebrolysin® versus Placebo**

	Cerebrolysin®		Plac	Placebo		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Random, 95%
								1
Ladurner 2005	6	78	6	68	12.8%	0.87 [0.29, 2.58]		
Skvortsova 2004	2	20	3	20	5.3%	0.67 [0.12, 3.57]		
Shamalov 2010	1	24	2	23	2.8%	0.48 [0.05, 4.93]		
Gharagozli 2017	1	50	2	50	2.7%	0.50 [0.05, 5.34]		
Heiss 2012	28	529	32	540	61.9%	0.89 [0.55, 1.46]		-
Lang 2013	4	60	4	59	8.4%	0.98 [0.26, 3.75]		
Amiri-Nikpour 2014	1	23	2	23	2.8%	0.50 [0.05, 5.14]		
Muresanu 2016	0	104	4	104	1.8%	0.11 [0.01, 2.04]	-	-
Guekht 2015	2	120	0	120	1.6%	5.00 [0.24, 103.06]		
Chang 2016	0	35	0	35		Not estimable		
Xue 2016	0	28	0	29		Not estimable		
Stan 2017	0	30	0	30		Not estimable		
Total (95% CI)		1101		1101	100.0%	0.83 [0.57, 1.23]		•
Total events	45		55					
Heterogeneity: Tau ² =	= 0.00; Chi	²= 3.99, df	= 8 (p= 0.86);	I ² = 0%			0.01	0.1 1

Test for overall effect: Z = 0.92 (p = 0.36)

Safety Population, Random Effects, M-H, Risk Ratio (RR)

Cerebrolysin® shows a tendency for overall reduction in all-cause deaths



CEREBROLYSIN® LOWERS MORTALITY

Cerebrolysin® shows a tendency for overall reduction in all-cause deaths

Deaths evaluated by means of risk ratio (RR)



50ML CEREBROLYSIN® IMPROVES TREATMENT SAFETY

compliance with **EMA** defiinitions

No safety