### LONG-TERM DATA FOR CERLIPONASE ALFA▼ (BRINEURA) IN CHILDREN WITH CLN2 DISEASE: A CLINICAL TRIAL UPDATE

The publication of this infographic was sponsored and funded by **BioMarin Pharmaceutical Inc.** This content is intended for healthcare professionals only. Prescribing information, details of adverse event reporting, and indications can be found at the bottom of this page.

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Graphs presented are referring to data deriving from clinical trials only and are not representative of patient population.

### Safety profile and efficacy of cerliponase alfa in children with CLN2 disease: an OLE study with

Study Design: Primary Phase I/II Study and open-label extension (OLE)

more than 5 years of follow-up1,2 Primary outcome measure: Clinical Rating Scale (CRS) Motor and Language Domains

# Primary Phase I/II study<sup>1</sup> 48-week stable-dose period (ICV 300 mg cerliponase alfa every Open-label extension<sup>2</sup>

comply with study procedures, and was excluded from efficacy analyses

Up to 240 weeks

Outcomes and control group:1,2

**CLN2 CRS** 

\*\*Four due to relocation or switch to commercial therapy; two due to meeting study stopping criteria, having a score of 0 in the combined motor and language domains assessed at consecutive study visits 'An unreversed 2-point decline was defined as a decline that had not returned to within 1 point of baseline score by the last assessment

\*One participant withdrew from the primary study at the parents' request after receiving one dose of the study drug due to an inability to

Primary analysis: CLN2 motor-language domains (combined score 0-6)

### **Motor** Score Language Score

Grossly normal gait, no prominent ataxia, no pathologic falls	3	Apparently normal, intelligible, and grossly age appropriate, no decline noted	3
Independent gait, <sup>‡</sup> will have obvious instability, and may have intermittent falls	2	Abnormal; some intelligible words, may form short sentences to convey concepts, requests, or needs  Hardly understandable, few intelligible words	2
External assistance to walk, or can crawl only	1		1
Can no longer walk or crawl	0	No intelligible words or vocalisations	0
<sup>1</sup> Defined by ability to walk without support for 10 steps			

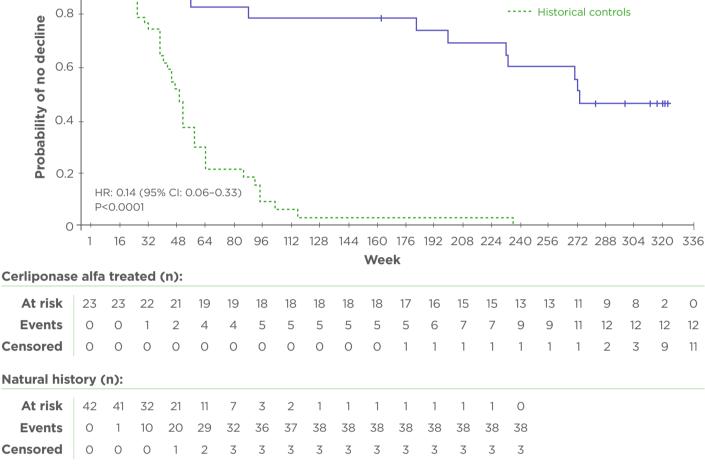
1.0

### to experience a significant decline in motor-language function\*

Cumulative Results: Primary Phase I/II Study and OLE<sup>3</sup>

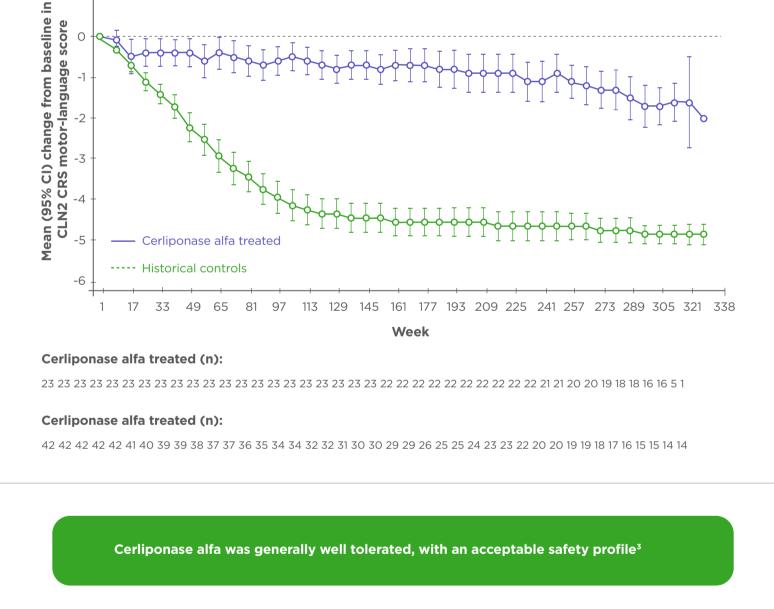
Cerliponase alfa treated

Cerliponase alfa reduced the probability of decline in motor-language function Compared to historical untreated controls, treated patients were 86% less likely (P<0.0001)



\*Defined as the composite of an unreversed 2-point decline or score of 0 in the combined motor-language domains of the CLN2 CRS

Combined motor-language score declined at a slower rate in the treated group when compared with the historical controls



### AE considered related to study drug; these were most commonly: Hypersensitivity

21 participants (88%) experienced a serious AE, of whom eight (33%) experienced a serious

Nine participants experienced ICV device-related infections; six participants required

All participants experienced at least one AE, most of which were mild-to-moderate in severity.

These were the most common drug-related adverse events experienced:

Pyrexia

Seizure Vomiting **Epilepsy** 

Hypersensitivity

device replacement.

Pleocytosis

Infusion-related reaction

Please refer to the cerliponase alfa SmPC for full details of adverse events

Over a period of >5 years, cerliponase alfa slowed the decline in motor and language function in children with CLN2 disease, with an acceptable safety profile.

Conclusion: Primary Phase I/II Study and OLE

References:

Schulz A et al. Safety and efficacy of cerliponase alfa in children with neuronal ceroid lipofuscinosis type 2 (CLN2 disease): an open-label extension study. Lancet Neurol. 2024;23(1):60-70. BioMarin Pharmaceutical. A safety, tolerability, and efficacy study of intracerebroventricular BMN 190 in pediatric patients < 18 years of age with CLN2 disease. NCT02678689. https://clinicaltrials.gov/study/NCT02678689

Schulz A et al. Study of intraventricular cerliponase alfa for CLN2 disease. N Engl J Med. 2018;378(20):1898-907.

**Abbreviations** AE: adverse event; CI: confidence interval; CLN2: neuronal ceroid lipofuscinosis Type 2; CRS: Clinical Rating Scale; HR: hazard ratio; ICV: intracerebroventricular; OLE: open-label extension.

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Please refer to full prescribing information before using BRINEURA.

Healthcare professionals are asked to report any suspected adverse reactions.

Prescribing information and a full list of adverse events can be accessed here. Please access your local authorities prescribing information.

Brineura is indicated for the treatment of neuronal ceroid lipofuscinosis type 2 (CLN2) disease, also known as tripeptidyl peptidase 1 (TPP1) deficiency.

of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse

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Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring reactions via the national reporting system listed in Appendix V. Healthcare professionals in the UK, can report via the Yellow Card Scheme linked here or search for MHRA Yellow Card in the Google Play or Apple App Store.