

Chorea in Huntington Disease

Fact Sheet



OVERVIEW

Huntington disease (HD) is a hereditary progressive neurodegenerative disorder, in which neurons within the brain break down, resulting in motor, cognitive and psychiatric symptoms.^{1,2}

HD usually causes movement, cognitive and psychiatric disorders with a wide spectrum of signs and symptoms.³ Symptoms generally appear between the ages of 30 to 50 and worsen over a 10- to 25-year period.⁴ HD is estimated to affect approximately 30,000 adults in the United States, with more than 200,000 at risk of inheriting the disease.²



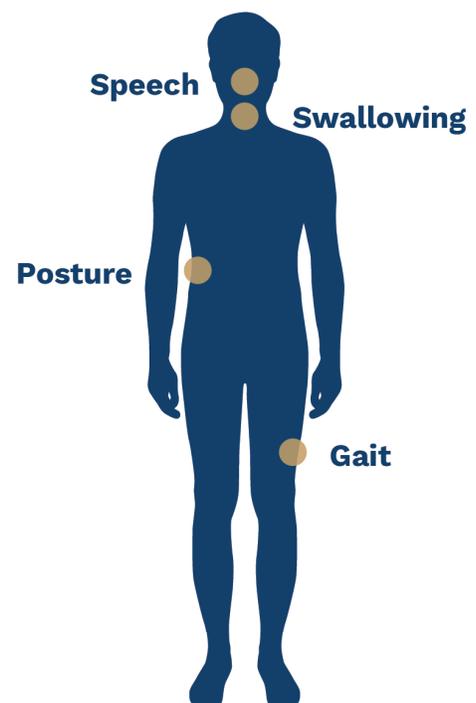
Huntington Disease FAST FACTS

- HD affects approximately **30,000** adults in the U.S.²
- **~90%** of the approximate 30,000 adults with HD in the U.S. also have chorea^{2,5}

Many people with HD experience chorea, a troublesome involuntary movement disorder.¹

Chorea in HD

- People with chorea develop abnormal, abrupt or irregular movements that can involve various parts of the body.¹
- Chorea can interfere with one's speech, swallowing, posture and gait.^{1,2} Chorea can make it difficult, and in some cases impossible, for a person to perform what may seem like the most mundane activities of daily life, such as speaking, eating or taking a shower.⁶
- Some people have reported facing a social stigma; both physical and psychological aspects of chorea symptoms may make them experience low confidence and restrict them from participating in social or leisure activities.⁷
- Current treatments available for chorea are associated with increased risk of depression and suicidality.²



VALBENZAZINE OVERVIEW

To address the unmet medical needs of people suffering from hyperkinetic movement disorders, Neurocrine Biosciences developed valbenzazine.*

Valbenzazine is an investigational treatment for chorea in patients with HD and not approved in the U.S. Valbenzazine is a selective, potent, orally active vesicular monoamine transporter 2 (VMAT2) inhibitor believed to cause reversible reduction of dopamine release by selectively inhibiting VMAT2, a transporter which plays a key role in dopamine signaling.

Neurocrine Biosciences has designed this novel compound to provide sustained plasma and brain concentrations of the active drug to allow for once-daily dosing.

* Valbenzazine has been approved by the U.S. Food and Drug Administration in April 2017 for the treatment of adults with tardive dyskinesia.

Neurocrine Biosciences is conducting a Phase III clinical study to investigate the use of valbenzazine for the treatment of chorea in people with HD.

KINECT-HD STUDY OVERVIEW

The KINECT-HD study, conducted in collaboration with the Huntington Study Group, is a multi-center randomized, double-blind, placebo-controlled Phase III study to evaluate the efficacy, safety and tolerability of valbenzazine for the treatment of chorea in people with HD.⁸ For more information on this Phase III study of valbenzazine for the treatment of chorea in HD, please visit HuntingtonStudyGroup.org or clinicaltrials.gov.



References:

1. Kumar H, Jog M. Missing Huntington's disease for tardive dyskinesia: a preventable error. *Can J Neurol Sci.* 2011;38:762-764 **2.** Frank S. Treatment of Huntington's disease. *Neurotherapeutics.* 2014;11(1):153-160. doi: 10.1007/s13311-013-0244-z **3.** Mayo Clinic. Huntington's disease. Accessed on January 7, 2021. <https://www.mayoclinic.org/diseases-conditions/huntingtons-disease/symptoms-causes/syc-20356117> **4.** Huntington's Disease Society of America. Overview of Huntington's disease. Accessed January 14, 2021. <https://hdsa.org/what-is-hd/overview-of-huntingtons-disease> **5.** Caron NS, Wright GEB, Hayden MR. Huntington disease. In: Adam MP, Ardinger HH, Pagon RA, et al, eds. *GeneReviews*®. University of Washington, Seattle; 1993-2020. Updated June 11, 2020. <https://www.ncbi.nlm.nih.gov/books/NBK1305> **6.** Cleveland Clinic. What is chorea? Accessed on March 22, 2021. <https://my.clevelandclinic.org/health/diseases/21192-chorea> **7.** Thorley EM, Iyer RG, Wicks P, et al. Understanding how chorea affects health-related quality of life in Huntington disease: an online survey of patients and caregivers in the United States. *Patient.* 2018;11(5):547-559. doi:10.1007/s40271-018-0312-x **8.** Clinicaltrials.gov. Efficacy, safety, and tolerability of valbenzazine for the treatment of chorea associated with Huntington disease (KINECT-HD). Accessed on January 7, 2021. <https://clinicaltrials.gov/ct2/show/NCT04102579>