

Teaching Video NeuroImages: Cautious walking gait in siblings with hereditary hyperekplexia

Chao Zhang, MM,* Shi-Ge Wang, MM,* Yan Wang, MM, Xiao-Li Liu, MM, and Li Cao, MD, PhD

Neurology® 2019;92:e2068-e2069. doi:10.1212/WNL.0000000000007375

Correspondence

Dr. Cao
caoli2000@yeah.net
or Dr. Liu
liuxl@rjlab.cn

MORE ONLINE

◉ Videos

→Teaching slides

links.lww.com/WNL/A894

A 48-year-old man and his 41-year-old sister complained of pathogenic startles since birth. They carried a homozygous deletion mutation in *GLRA1*: c.754delC (p. L252X). They felt stiff in 4 limbs with expressionless face when they were alarmed by unexpected touch and sound stimulation, startled, and fell down with stiffed limbs since walking independently. Therefore they adopted a cautious walking gait as a subconscious self-protection (videos 1 and 2).

With clonazepam treatment, pathologic cautious walking gait can be dramatically improved. Cautious walking gait is an interesting and easily observable manifestation of hereditary hyperekplexia.^{1,2}

Disclosure

C. Zhang, S. Wang, and Y. Wang report no disclosures relevant to the manuscript. X. Liu is in charge of Shanghai Municipal Commission of Health and Family Planning (20184Y0056). L. Cao is in charge of National Natural Science Foundation of China (81571086 and 81870889), Shanghai Municipal Education Commission-Gaofeng Clinical Medicine Grant (20161401), and Interdisciplinary Project of Shanghai Jiao Tong University (YG2016MS64). Go to [Neurology.org/N](https://www.neurology.org/N) for full disclosures.

Study funding

This project is supported by National Natural Science Foundation of China (81571086 and 81870889), Shanghai Municipal Education Commission-Gaofeng Clinical Medicine Grant Support (20161401), Shanghai Municipal Commission of Health and Family Planning (20184Y0056), and Interdisciplinary Project of Shanghai Jiao Tong University (YG2016MS64).

*These authors contributed equally to this work.

From the Department of Neurology (C.Z., S.-G.W., Y.W., X.-L.L., L.C.), Rui Jin Hospital & Rui Jin Hospital North, Shanghai Jiao Tong University School of Medicine; and Department of Neurology (X.-L.L.), Shanghai Fengxian District Central Hospital, Shanghai Jiao Tong University Affiliated Sixth People's Hospital South Campus, Shanghai, China.

Appendix Authors

Name	Location	Role	Contribution
Chao Zhang, MM	Department of Neurology, Rui Jin Hospital and Rui Jin Hospital North, Shanghai Jiao Tong University School of Medicine	Author	Data collection and evaluation, video shooting, drafting the manuscript
Shi-Ge Wang, MM	Department of Neurology, Rui Jin Hospital and Rui Jin Hospital North, Shanghai Jiao Tong University School of Medicine	Author	Image editing, manuscript drafting and revision
Yan Wang, MM	Department of Neurology, Rui Jin Hospital and Rui Jin Hospital North, Shanghai Jiao Tong University School of Medicine	Author	Data evaluation
Xiao-Li Liu, MM	Department of Neurology, Shanghai Fengxian District Central Hospital, Shanghai Jiao Tong University Affiliated Sixth People's Hospital South Campus	Corresponding author	Data evaluation, manuscript revision
Li Cao, MD, PhD	Department of Neurology, Rui Jin Hospital and Rui Jin Hospital North, Shanghai Jiao Tong University School of Medicine	Corresponding author	Funding, data collection and evaluation, study design and supervision, manuscript revision, final approval

References

1. Huang Z, Lian Y, Xu H, Zhang H. Weird laughing in hyperekplexia: a new phenotype associated with a novel mutation in the *GLRA1* gene? *Seizure* 2018;58:6–8.
2. Bode A, Lynch JW. The impact of human hyperekplexia mutations on glycine receptor structure and function. *Mol Brain* 2014;7:2.

Neurology®

Teaching Video NeuroImages: Cautious walking gait in siblings with hereditary hyperekplexia

Chao Zhang, Shi-Ge Wang, Yan Wang, et al.

Neurology 2019;92:e2068-e2069

DOI 10.1212/WNL.0000000000007375

This information is current as of April 22, 2019

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/92/17/e2068.full
References	This article cites 2 articles, 0 of which you can access for free at: http://n.neurology.org/content/92/17/e2068.full#ref-list-1
Subspecialty Collections	This article, along with others on similar topics, appears in the following collection(s): All Clinical Neurology http://n.neurology.org/cgi/collection/all_clinical_neurology All Genetics http://n.neurology.org/cgi/collection/all_genetics All Movement Disorders http://n.neurology.org/cgi/collection/all_movement_disorders
Permissions & Licensing	Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: http://www.neurology.org/about/about_the_journal#permissions
Reprints	Information about ordering reprints can be found online: http://n.neurology.org/subscribers/advertise

Neurology® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright © 2019 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

