Teaching Video NeuroImages: Optic Ataxia as the Presenting Sign of the Heidenhain Variant of Creutzfeldt-Jakob Disease

Shi-Lin Yang, MD; Xiang Han, MD; Qiang Dong, MD

Equal Author Contributions: Xiang Han and Qiang Dong are co-corresponding authors of the manuscript. They contributed equally to this work.

Corresponding Author:
Xiang Han
hansletter@fudan.edu.cn

Affiliation Information for All Authors: 1. Department of Neurology, Huashan Hospital, Fudan University

Neurology® Published Ahead of Print articles have been peer reviewed and accepted for publication. This manuscript will be published in its final form after copyediting, page composition, and review of proofs. Errors that could affect the content may be corrected during these processes.
A 59-year-old woman presented with subacute onset of hand clumsiness followed by memory loss. She reported difficulty reaching for objects, though she could see them. Examination (video) showed optic ataxia, visual acuities of 20/30 OU, intact visual field and near-normal finger-to-nose test. Hyperintense signals in the left temporo-parieto-occipital cortex in diffusion-weighted MRI, periodic triphasic complexes in electroencephalogram (Figure) and elevated T-tau in CSF suggested the Heidenhain variant of Creutzfeldt-Jakob disease\(^1\). She received supportive care and progressed to akinetic mutism. Optic ataxia, inaccuracy of visually guided arm movements, is a visuomotor disorder associated with lesions involving the posterior parietal cortex \(^2\).

Appendix 1: Authors

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shi-Lin Yang</td>
<td>Department of Neurology, Huashan Hospital, Fudan University</td>
<td>collection and interpretation of data, manuscript drafting</td>
</tr>
<tr>
<td>Xiang Han</td>
<td>Department of Neurology, Huashan Hospital, Fudan University</td>
<td>supervision, critical revision of manuscript</td>
</tr>
<tr>
<td>Qiang Dong</td>
<td>Department of Neurology, Huashan Hospital, Fudan University</td>
<td>supervision, critical revision of manuscript</td>
</tr>
</tbody>
</table>
References:


Video legend

**Video.** Examination of the patient.

Examination showed optic ataxia. The patient failed to point to the fingertip of the examiner, though she had seen it (Part 1). She could not reach for the items on the table accurately (Part 2). She exhibited near-normal finger-to-nose test (Part 3).

Figure legend

**Figure.** Diffusion-weighted MRI and electroencephalogram.

Diffusion-weighted MRI showed hyperintense signals (arrows) in the left temporo-parieto-occipital cortex (A). Electroencephalogram showed periodic triphasic complexes at 1/second (B).
Teaching Video NeuroImages: Optic Ataxia as the Presenting Sign of the Heidenhain Variant of Creutzfeldt-Jakob Disease
Shi-Lin Yang, Xiang Han and Qiang Dong
Neurology published online April 26, 2021
DOI 10.1212/WNL.0000000000012057

This information is current as of April 26, 2021

Updated Information & Services
including high resolution figures, can be found at:
http://n.neurology.org/content/early/2021/04/26/WNL.0000000000012057.citation.full

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):
All Neuro-ophthalmology
http://n.neurology.org/cgi/collection/all_neuroophthalmology
Clinical neurology examination
http://n.neurology.org/cgi/collection/clinical_neurology_examination
Prion disease; see Infections/prion
http://n.neurology.org/cgi/collection/prion_disease

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