“Bright tongue sign” in ALS

Sagittal T1 MRI of the brain shows abnormal diffuse T1 hyperintensity of the tongue musculature (left). A normal tongue is shown on the right.

A 62-year-old woman presented with 1 year of slowly progressive dysarthria, difficulty chewing food, sialorrhea, dysphagia, and unintentional 20-pound weight loss. Neurologic examination demonstrated moderate dysarthria, marked tongue weakness with atrophy and fasciculations, multifocal muscular atrophy, and diffuse hyperreflexia, including a jaw jerk. EMG showed diffuse fibrillation potentials and positive sharp waves. The history, examination, and EMG results fulfilled diagnostic criteria for amyotrophic lateral sclerosis. Brain MRI showed pronounced T1 hyperintensity of the tongue, consistent with chronic denervation of the tongue musculature with fatty replacement (figure).1,2

Michael D. Fox, MD, PhD, Adam B. Cohen, MD, Boston, MA

The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

Correspondence & reprint requests to Dr. Fox: foxmdphd@gmail.com


"Bright tongue sign" in ALS
Michael D. Fox and Adam B. Cohen
Neurology 2012;79;1520
DOI 10.1212/WNL.0b013e31826d5ffc

This information is current as of October 1, 2012

Updated Information & Services
including high resolution figures, can be found at:
http://www.neurology.org/content/79/14/1520.full.html

References
This article cites 2 articles, 0 of which you can access for free at:
http://www.neurology.org/content/79/14/1520.full.html#ref-list-1

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):
Amyotrophic lateral sclerosis
http://www.neurology.org/cgi/collection/amyotrophic_lateral_sclerosis
EMG
http://www.neurology.org/cgi/collection/emg
MRI
http://www.neurology.org/cgi/collection/mri

Permissions & Licensing
Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:
http://www.neurology.org/misc/about.xhtml#permissions

Reprints
Information about ordering reprints can be found online:
http://www.neurology.org/misc/addir.xhtml#reprintsus