

Sweet food preference in amyotrophic lateral sclerosis

Martin R Turner, Kevin Talbot

Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford, UK

Correspondence to

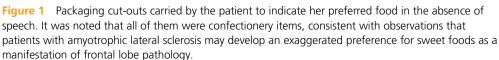
Professor Martin R Turner, Clinical Neurosciences, West Wing Level 6, John Radcliffe Hospital, Oxford OX3 9DU, UK; martin.turner@ ndcn.ox.ac.uk

Accepted 18 December 2016 Published Online First 17 March 2017 An elderly female developed anarthria with prominent emotionality over an 18month period before specialist neurologassessment. Although electromyography was normal, her corticobulbar signs were consistent with amyotrophic lateral sclerosis (ALS), a pattern that, in the absence of functional impairment outside of speech and swalis appropriately lowing, progressive bulbar palsy. Such patients, often elderly females, may remain ambulant and independent for many months, sometimes years, despite typically rapid anarthria. Electromyography may be insensitive to denervation, even when genioglossus is sampled, and this can contribute to diagnostic delay in patients with corticobulbar presentations of ALS who are frequently referred to 'TIA' or ENT clinics.² When asked about her nutritional state, she revealed a collection of pictures of her favourite foods carried in her handbag to facilitate communication (figure 1).

ALS has pathological overlap with frondementia through totemporal common feature of cytoplasmic inclusions containing TDP-43. A hexanucleotide expansion in C9orf72 is associated with both 'pure' and mixed cases of ALS and frontotemporal dementia which may occur within the same pedigree.³ Overt dementia is not common in ALS (up to 15% in population-based studies), and is typically an early feature coincident with motor signs when it occurs. However, up to 50% of patients with ALS show a spectrum of more subtle cognitive and behavioural change, though most of these will not go on to develop dementia during the course of their disease. There have been criteria developed to reflect this broader phenotypic range of extramotor involvement in ALS.4

An acquired preference for sweet foods, often with a narrowed repertoire, is included in the criteria for frontotemporal dementia. In ALS cases, it is a clue to frontotemporal involvement, and part







To cite: Turner MR, Talbot K. *Pract Neurol* 2017;**17**:128–129.

of an emerging array of metabolic disturbances common to both disorders.⁵ It should prompt more detailed neuropsychological assessment if there are wider concerns about behaviour or capacity.

Contributors MRT saw the patient, conceived and drafted the manuscript. KT saw the patient and edited the manuscript.

Competing interests None declared.

Provenance and peer review Not commissioned; externally peer reviewed. This paper was reviewed by Jonathan Rohrer, London, UK.

Open Access This is an Open Access article distributed in accordance with the terms of the Creative Commons Attribution (CC BY 4.0) license, which permits others to distribute, remix, adapt and build upon this work, for commercial use, provided the original work is properly cited. See: http://creativecommons.org/licenses/by/4.0/

© Article author(s) (or their employer(s) unless otherwise stated in the text of the article) 2017. All rights reserved. No commercial use is permitted unless otherwise expressly granted.

REFERENCES

- 1 Burrell JR, Vucic S, Kiernan MC. Isolated bulbar phenotype of amyotrophic lateral sclerosis. *Amyotroph Lateral Scler* 2011:12:283–9.
- 2 Turner MR, Scaber J, Goodfellow JA, *et al*. The diagnostic pathway and prognosis in bulbar-onset amyotrophic lateral sclerosis. *J Neurol Sci* 2010;294:81–5.
- 3 Majounie E, Renton AE, Mok K, *et al.* Frequency of the C9orf72 hexanucleotide repeat expansion in patients with amyotrophic lateral sclerosis and frontotemporal dementia: a cross-sectional study. *Lancet Neurol* 2012;11:323–30.
- 4 Strong MJ, Abrahams S, Goldstein LH, *et al.* Amyotrophic lateral sclerosis frontotemporal spectrum disorder (ALS-FTSD): Revised diagnostic criteria. *Amyotroph Lat Scl Fr* 2016.
- 5 Ahmed RM, Irish M, Piguet O, *et al*. Amyotrophic lateral sclerosis and frontotemporal dementia: distinct and overlapping changes in eating behaviour and metabolism. *Lancet Neurol* 2016;15:332–42.