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Teaching Neuro *Images*: Nonfluent variant primary progressive aphasia

A distinctive clinico-anatomical syndrome

OPEN

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Correspondence to Dr. Marshall: charles.marshall@ucl.ac.uk A 66-year-old woman presented with 4 years of progressive speech difficulty. She had nonfluent speech with phonemic errors but intact single-word comprehension and object knowledge. Her grammar was impaired in both speech and writing, and she exhibited orofacial apraxia. A clinico-radiologic (see figure) diagnosis of nonfluent variant primary progressive aphasia was made.

Nonfluent variant primary progressive aphasia is a neurodegenerative disease within the spectrum of frontotemporal dementia, characterized by the typical language and brain atrophy patterns seen here.¹ It is most frequently due to tau pathology, and clinicians should be alert to the potential development of progressive supranuclear palsy or corticobasal syndrome.²

AUTHOR CONTRIBUTIONS

C.R.M.: image selection and drafting of the manuscript. C.J.D.H., M.N.R., J.D.W.: critical revisions of the manuscript.

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DISCLOSURE

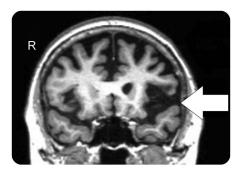
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Figure

Magnetic resonance image



Coronal volumetric T1-weighted MRI showing asymmetric atrophy of left insula and opercular inferior frontal gyrus (arrow), a pattern typical of nonfluent variant primary progressive aphasia.

Download teaching slides: Neurology.org

From the Dementia Research Centre, University College London, UK.

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