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[18F]FDG-PET in a case of right temporal lobe variant of frontotemporal dementia

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[18F] FDG-PET EM UM CASO DE VARIANTE DO LOBO TEMPORAL DIREITO DE DEMÊNCIA FRONTOTEMPORAL

Key words: positron-emission tomography, fluorodeoxyglucose F18, frontotemporal dementia. Palavras-chave: tomografia por emissão de pósitrons, fluordeoxiglicose F18, demência frontotemporal.

61-year-old woman presented with a **A**4-year history of slowly progressive amnestic and topographical disorientation symptoms, followed by an early onset of apathy, hyperorality, ritualistic behaviors, prosopagnosia, and phonagnosia. Due to diagnostic uncertainty between Frontotemporal Dementia (FTD) and Alzheimer's Disease (AD) pathology, CSF biomarker analysis and brain [18F]FDG-PET were ordered. The first proved negative for AD profile, and the latter demonstrated marked hypometabolism in the right temporal and frontal lobes, areas that also had asymmetric atrophy on brain MRI. These findings, together with the clinical picture, were compatible with the hypothesis of a right temporal lobe variant of FTD.1,2

Author contributions. All authors contributed significantly and approved, the content of this manuscript.

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This study was conducted at Hospital das Clínicas, University of Sao Paulo School of Medicine, São Paulo, SP, Brazil.

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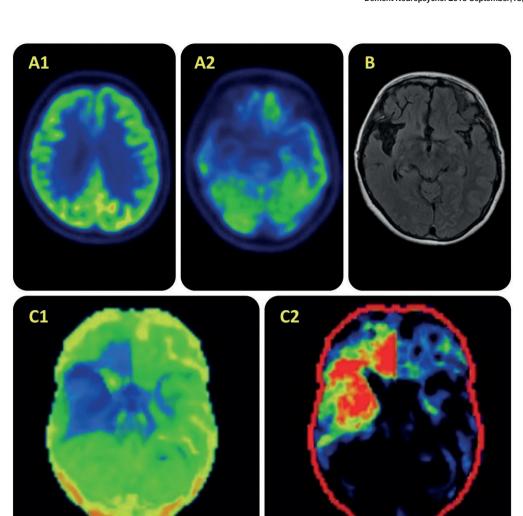


Figure. Upper row - A1, A2: [18F]FDG-PET transaxial images showing prominent hypometabolism in the right temporal lobe and, to a lesser degree, in the right frontal and parietal lobes, particularly orbitofrontal areas. B - transaxial T2 FLAIR MRI $image\ showing\ selective\ right\ temporal\ atrophy.\ Lower\ row-C1: a\ 3D-SSP\ reconstruction\ (inferior\ view)\ showing\ prominent$ hypometabolism in the right temporal lobe and right orbitofrontal cortex. C2 - 3D-SSP projection of comparison with a group of healthy age-matched individuals. Red areas indicate areas of lower metabolism than expected 423x423mm (72 x 72 DPI).