

PubMed

Methanol intoxication-induced nigrostriatal



Display Settings: Abstract



Neurotoxicology. 2008 Jul;29(4):671-4. Epub 2008 Apr 11.

Methanol intoxication-induced nigrostriatal dysfunction detected using 6-[18F]fluoro-L-dopa PET.

[Airas L](#), [Paavilainen T](#), [Marttila RJ](#), [Rinne J](#).

Department of Neurology, University of Turku, Turku, Finland. laura.airas@utu.fi

Abstract

Ingestion of windshield washer liquid resulted with an acute severe **methanol** intoxication in a 49-year old man. He developed optic atrophy with blindness, and an extrapyramidal syndrome. Putaminal injury and hyperintensity in the subcortical white matter was seen in a brain MRI. PET scanning with 6-[18F]fluoro-L-dopa confirmed symmetrical impaired presynaptic dopaminergic activity in the striatum, indicative of functional impairment of dopaminergic **nigrostriatal** neurons. The striatal uptake was more markedly impaired in the putamina (40% of controls) than in the caudate nuclei (60% of controls). To our knowledge, this is the first report of an 18F-dopa PET scanning result in a case of an acute **methanol** poisoning.

PMID: 18482768 [PubMed - indexed for MEDLINE]

Publication Types, MeSH Terms, Substances

LinkOut - more resources