Imaging of Disorders Leading to Dementia

WCN 2

OF NEUROLOGY

MONTREA

VI WORLD CONGRESS

Joseph C. Masdeu, MD, PhD

Director, Nantz National Alzheimer Center Professor of Neurology, Weill Cornell Medicine





Disclosures



Agency or Company Name	Royalties	Honoraria/ Expenses	Consulting/ Advisory Board	Funded Research
Elsevier	Х			
Wolters Kluwer Health	Х			
Green Valley				Х
Alector				Х
Alzheimer's Association				Х
Biogen		Х	Х	Х
Eisai				Х
Eli Lilly		Х		Х
NIH (NIA)				Х
Novartis				Х



- 1. To list what imaging modalities are most helpful for imaging disorders leading to dementia.
- 2. To describe the imaging findings characteristic of disorders leading to dementia.
- 3. To indicate why longitudinal imaging is important in disorders leading to dementia.

Presentation Overview



- Imaging modalities used in dementia diagnosis
 - MRI, SPECT and PET
- Anatomic patterns that help diagnose:
 - Alzheimer's disease
 - Diffuse Lewy-body disease
 - Frontotemporal dementia
 - Vascular dementia
- Importance of longitudinal imaging patterns for therapy

Bibliography



- Chouliaras L, O'Brien JT. The use of neuroimaging techniques in the early and differential diagnosis of dementia. *Mol Psychiatry*. 2023 Aug 22. doi: 10.1038/s41380-023-02215-8.
- Haller S, et al. Neuroimaging in dementia: More than typical Alzheimer disease. *Radiology*. 2023;308:e230173. doi: 10.1148/radiol.230173.
- Masdeu JC, Pascual B. Genetic and degenerative disorders primarily causing dementia. *Handb Clin Neurol*. 2016;135:525-564.
- Wang YT, Rosa-Neto P, Gauthier S. Advanced brain imaging for the diagnosis of Alzheimer disease. Curr Opin Neurol. 2023;36:481-490.