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19–20 September 2017 IAEA Scientific Forum

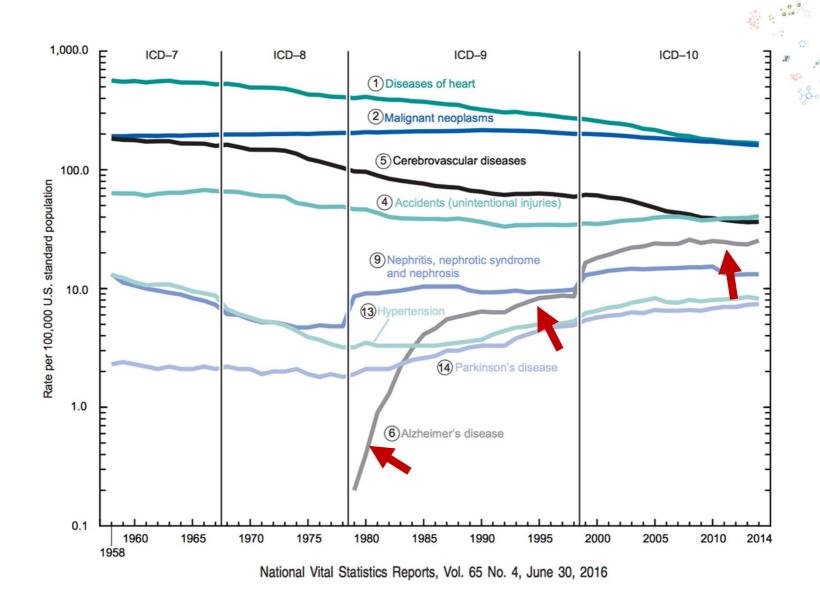
Nuclear Techniques in Human Health

Prevention, Diagnosis, Treatment

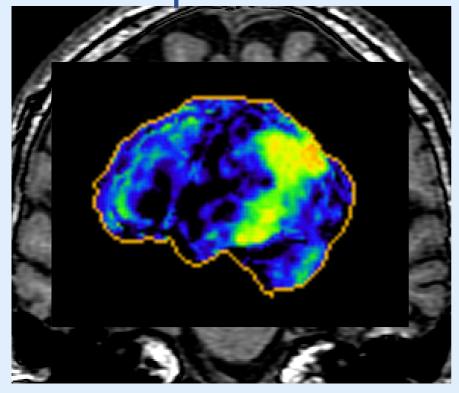
Radiology & Imaging Sciences
University of Utah

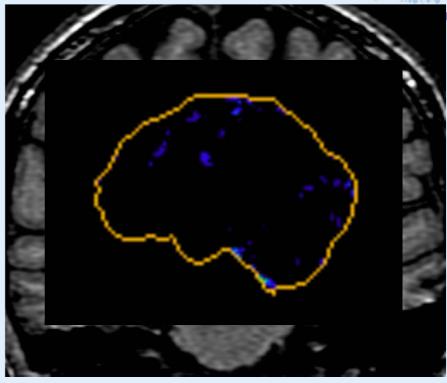


Age-adjusted Death Rate



FDG PET shows more marked abnormalities. Which patient has Alzheimer's disease?

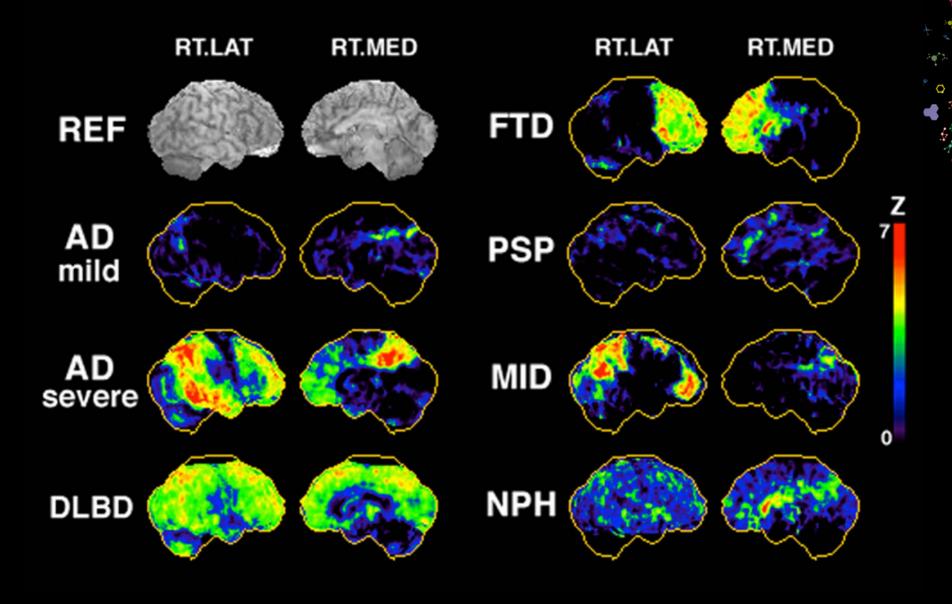




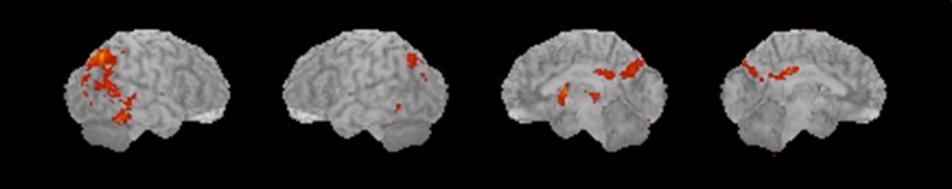
Alzheimer's disease

No dementia

Differential Diagnosis



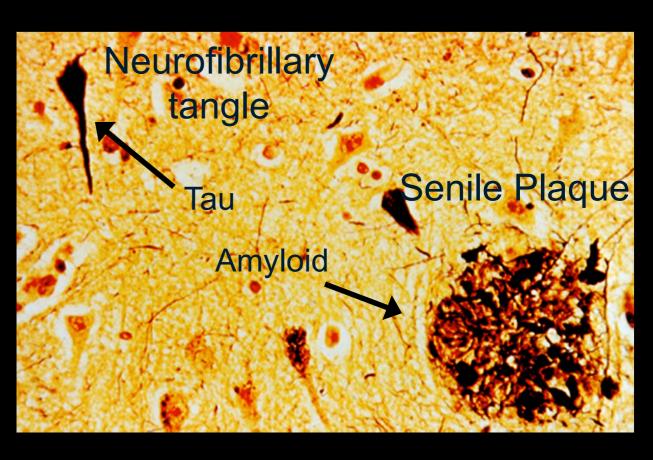
Early Diagnosis



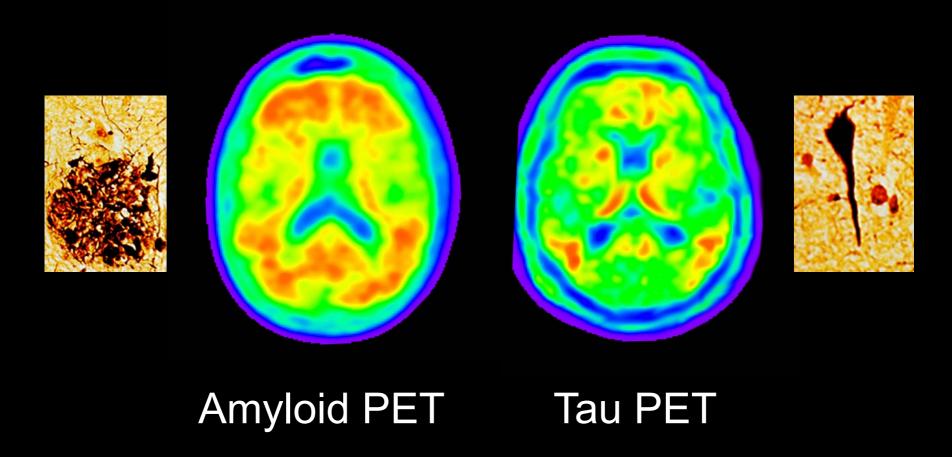
Progression of Alzheimer's disease revealed by PET

Abnormal Molecules in Alzheimer's Disease





Imaging Abnormal Molecules in Living Patients



Molecular Imaging for Brain Disorders

- Guide clinical management and treatment
- Support patient's family and caregivers
- Assist drug development

Enhancing Capacity of Neuroimaging and Biomarkers: Application in Early-stage Alzheimer's Disease with Comorbidities







Thank you