

## Nuclear medicine

### Week 3; Lecture 6; Section 5: PET: examples

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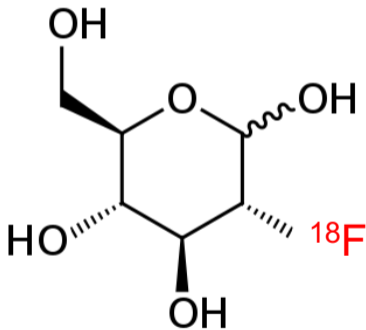
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## Section 5

# PET: examples

# $^{18}\text{F}$ : fluorodeoxyglucose (FDG)

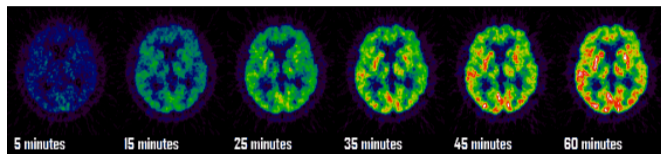


Analogue of glucose

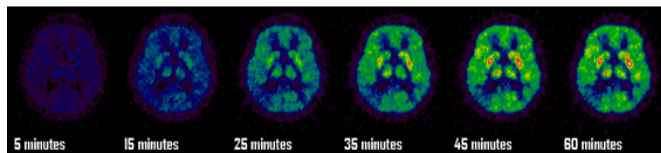
Uptake depends on rate of glucose metabolism

Marker for many disease states and of therapeutic effect

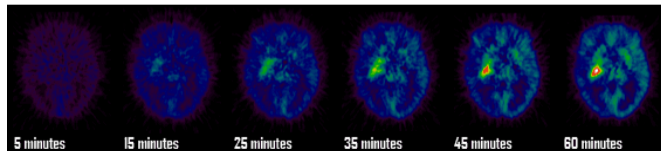
# FDG brain scans



**Healthy patient**  
- normal brain  
metabolism

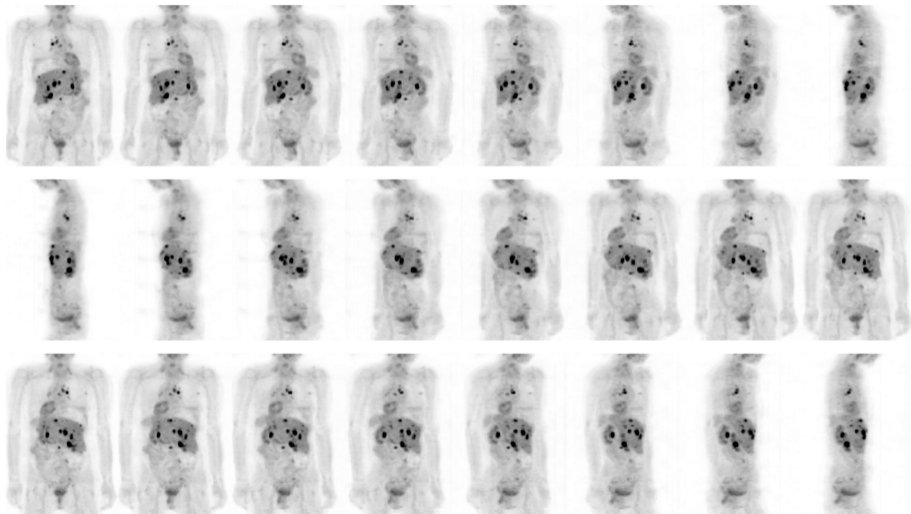


**Alzheimers**



**Brain tumour**

# FDG whole-body imaging



# Cardiac imaging with PET

