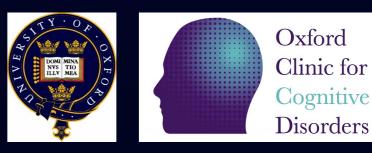
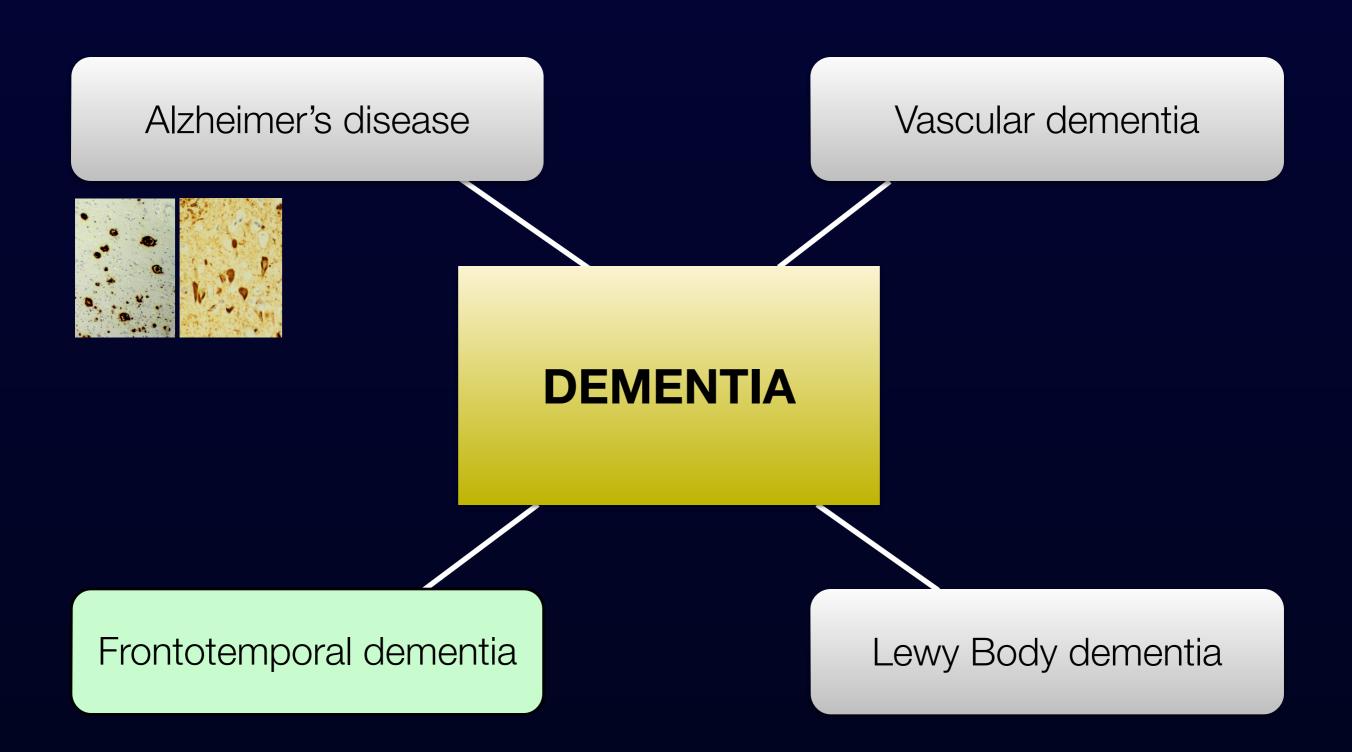
Frontotemporal dementia

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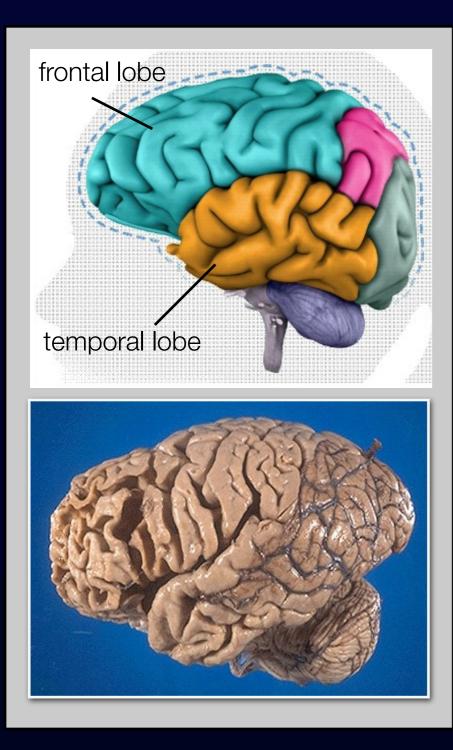
Oxford

Clinic for

Cognitive

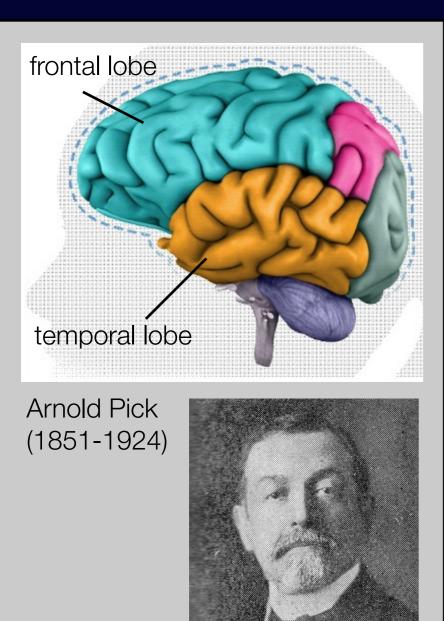
Disorders





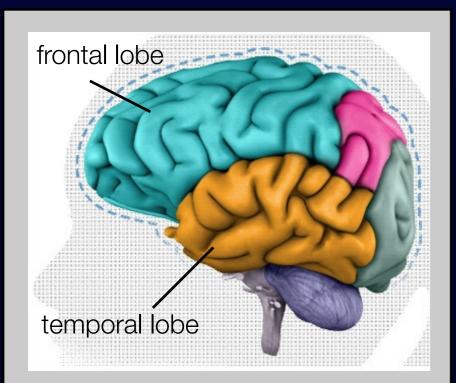
- Neurodegeneration affects
 frontal and temporal lobes
- Affects behaviour and language

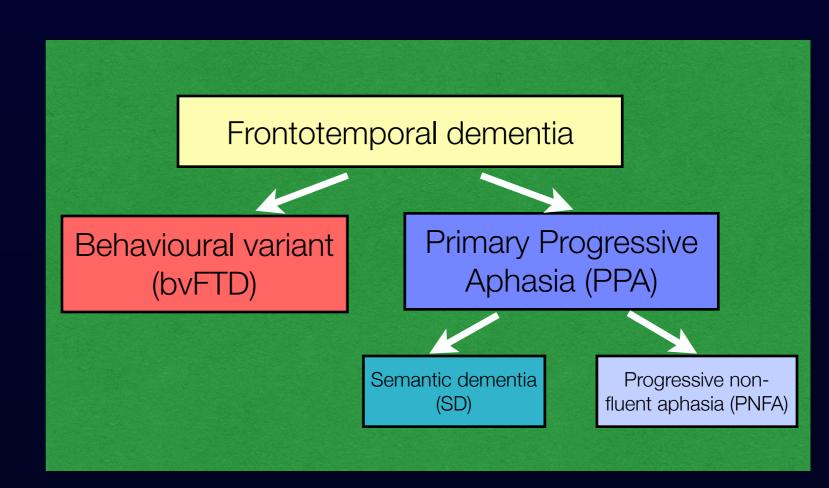




- Neurodegeneration affects
 frontal and temporal lobes
- Affects behaviour and language
- Previously known as 'Pick's disease'
- Second most common cause of dementia <65 yrs
- 20,000 people with FTD in UK



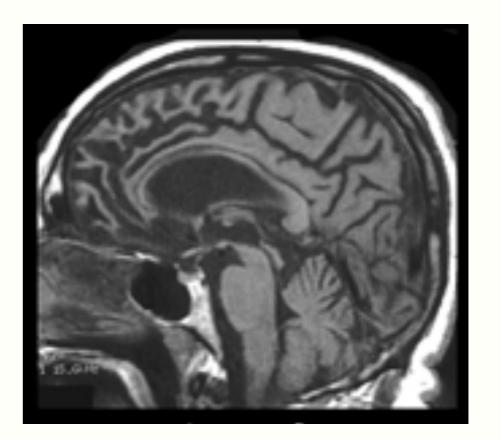






Behavioural variant FTD

- 'Susan' 58 year old taxi driver
- · Careless driving, road rage
- · Singing in public
- · Disinterested in others
- · Obsessive Sudoku
- · Eating chocolate biscuits
- · Mother died of MND

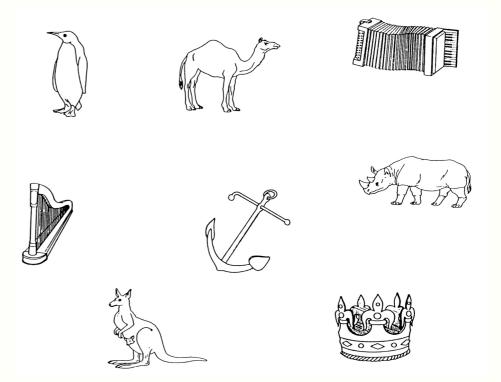


Slowly progressive changes in behaviour Often misdiagnosed initially Family history is common Motor features (MND, parkinsonism) common



Semantic dementia

- · 'John' 56 year old engineer
- 4 years progressive language problems
 - · finding words
 - · understanding speech
 - · recognising objects/people
- · No difficulties driving or doing finances

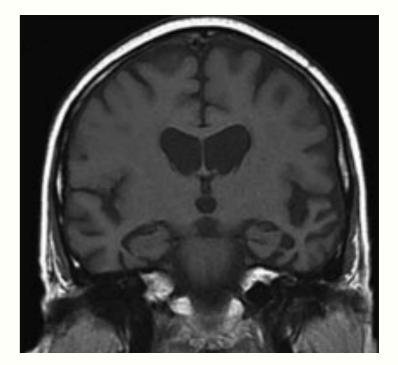




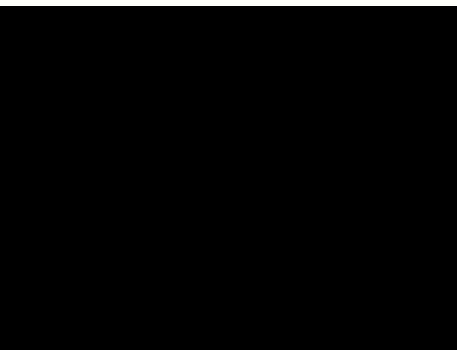
Semantic dementia

· 'John' - 56 year old engineer

- 4 years progressive language problems
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Progressive loss of 'semantic' knowledge Memory for events and navigation OK Left temporal lobe of the brain Changes in behaviour come later

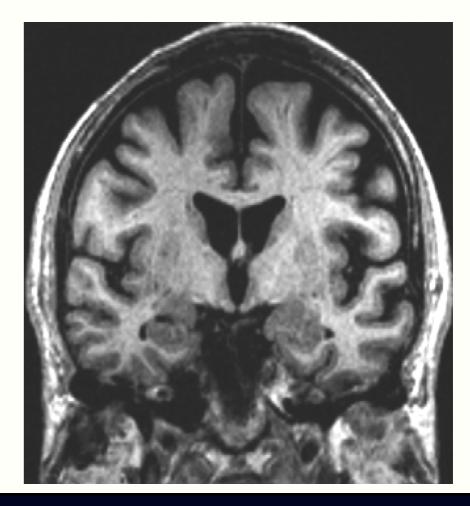




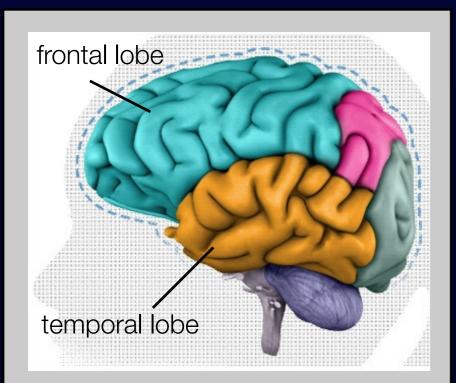
Progressive non-fluent aphasia

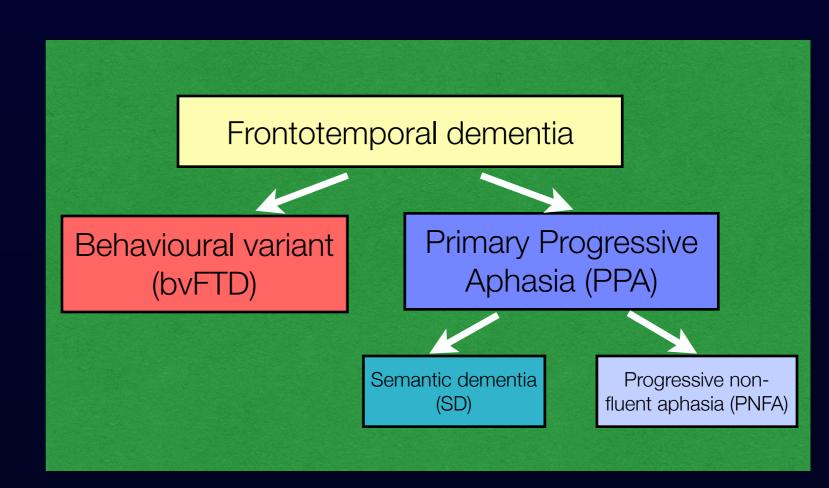
- · 'Margaret': 68 year old
- 3 years progressive problems:
 - · speaking is 'hard work'
 - · mispronunciation of words
 - · shorter sentences
- · Otherwise completely independent

Progressive speech difficulty Understanding of speech OK Left hemisphere damage



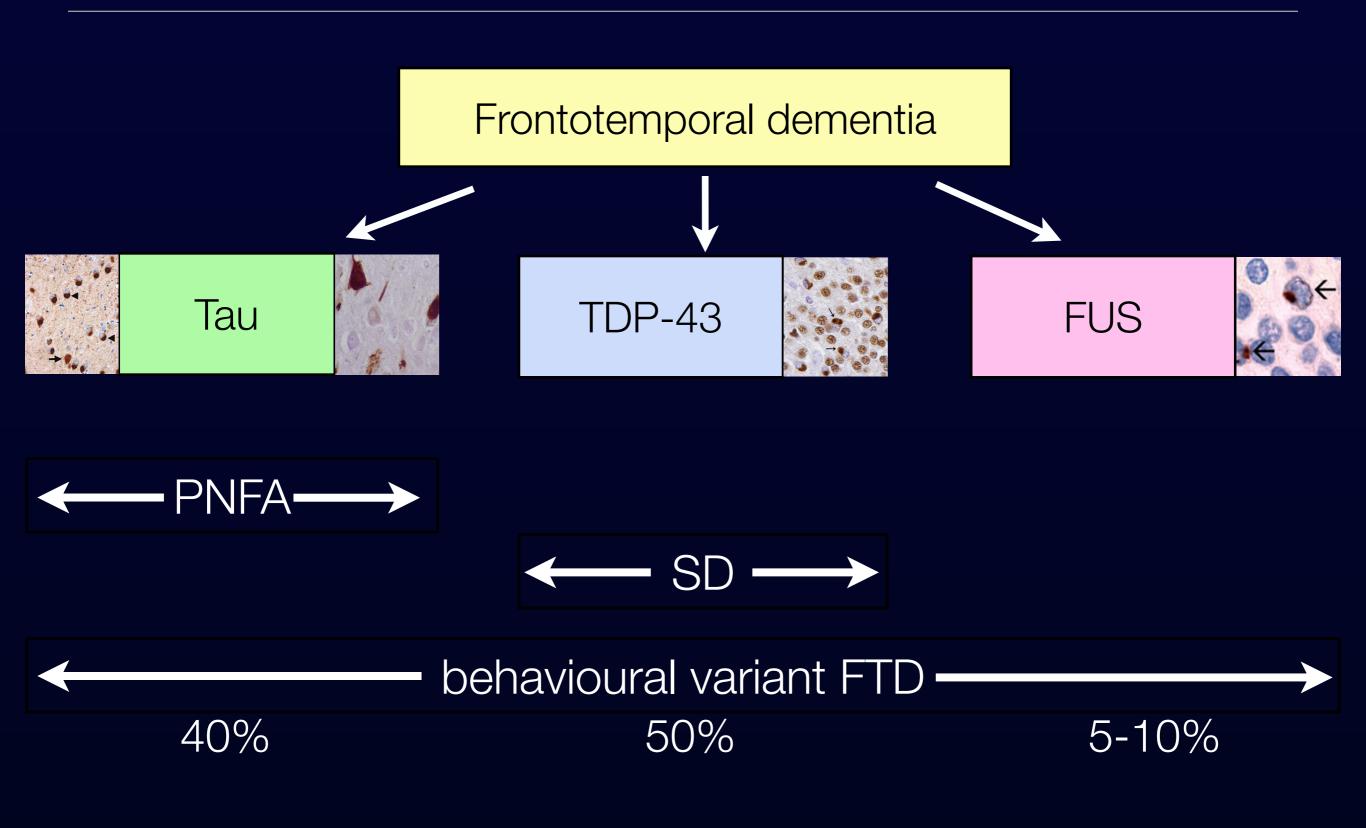








What causes FTD?





Genetics

Behavioural variant FTD

- 1 in 10 cases is clearly familial
- 3 key genetic mutations identified:
 - Chromosome 17: Tau (MAPT): <65 yrs at onset
 - Chromosome 17: Progranulin (GRN): often >65 yrs at onset
 - Chromosome 9: C9ORF72 expansion
- C9ORF72 especially in FTD-MND cases





Summary

- FTD is a common cause of younger-onset dementia
- Diagnosis can be difficult
- Patients and carers have specific needs
- Recent advances in FTD research uncovering neurodegeneration pathways