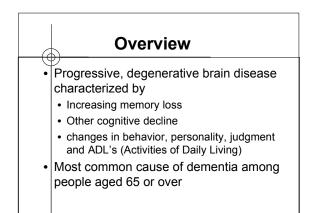
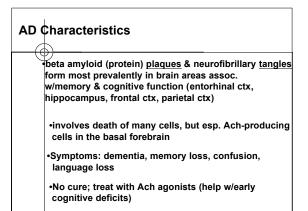
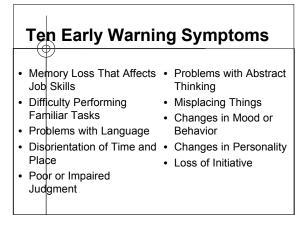


Source: NEJM, 2000







Severe Alzheimer's Disease

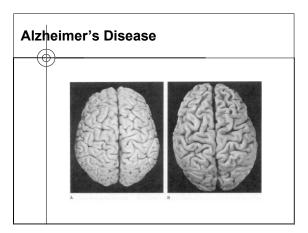
The person cannot:

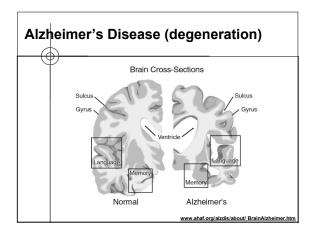
- Communicate verbally
- Understand words or instructions
- Recognize self in the mirror or pictures
- Recognize family members
- · Provide care for themselves

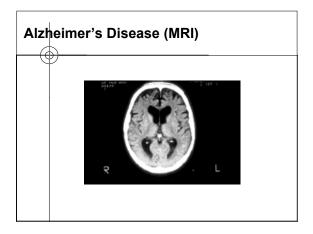
Usually die within 15 years (4th leading killer of adults)

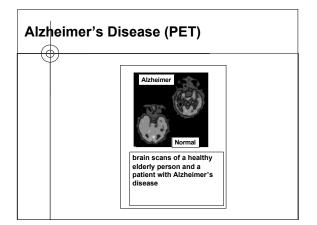


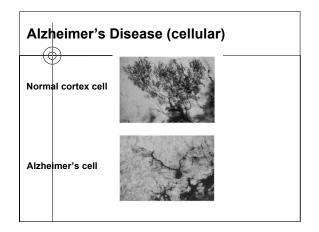


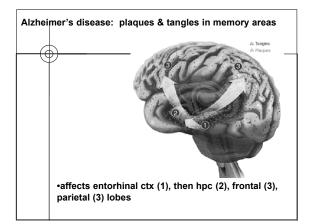


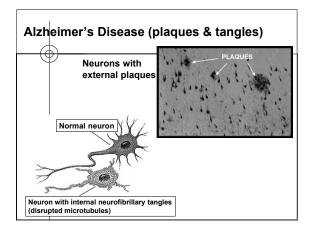


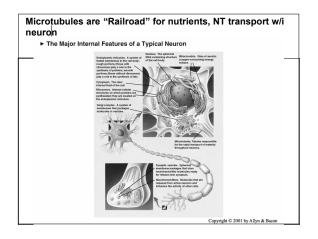


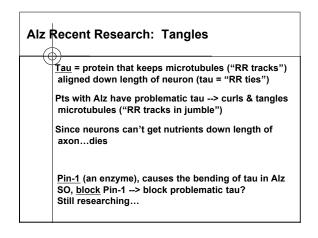


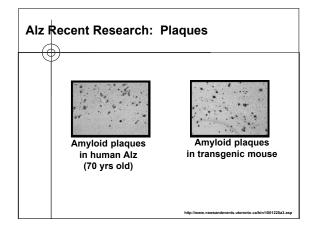




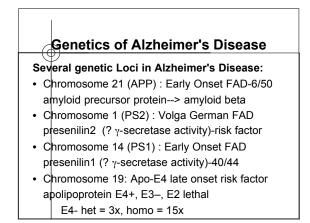


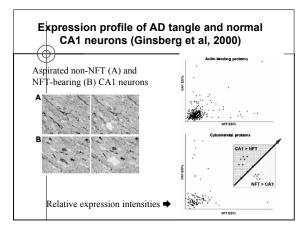


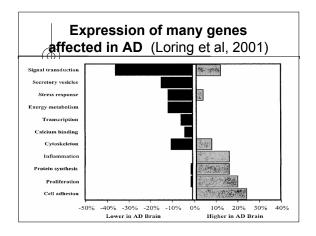


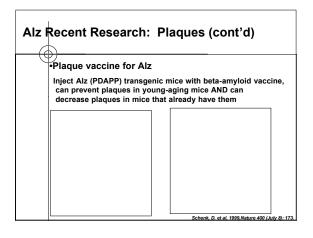


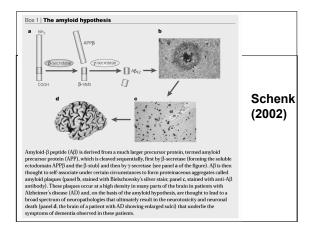
Study of De Twins – Co		
M	onozygotic(%)	Dizygotic(%)
Alzheimer's disease	75	26
All dementias	50	33
781 twins aged 50 and over		
surveyed every three years	since 1970's	
		Source: J Geront, 1997

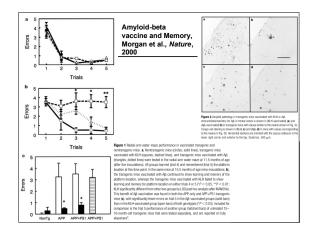




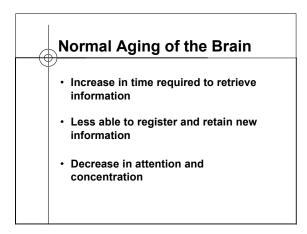


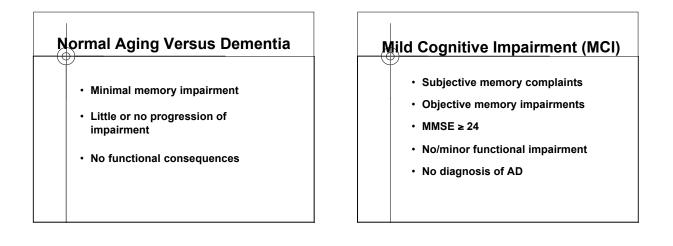


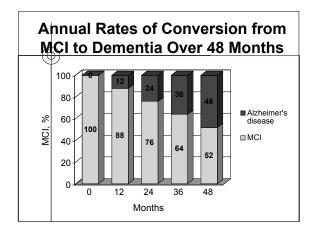












Prevalence of Undetected Impairment – Study Popu	•
Mean age (yrs)	76
Female (%)	58
Education (yrs)	16
Mean MMSE	28
	<u>N (%)</u>
Undetected dementia (n	= 200) 22 (11)
Undetected MCI (n = 179	9) 17 (10)
	Source: Hermann, Sager 2002

Summary Most cognitive impairments in aging due to dementia or pre-dementia Most dementia is AD Large heritable component Large environmental component e.g., diet

Gene expression among mice of same strain, age, sex, housing [6584 possible genes] (Lockhart & Barlow, 2001) a Mouse 1 ь Ignore this slide!! 104 r = 0.994 rray 1) fiternation 102 9 genes score as differential 10² 10³ Intensity (array 2) 101 Comparison Number of gene Hippocampus 1 vs 2 Hippocampus 3 vs 4 Hippocampus 1 vs 2 AND 3 vs 4