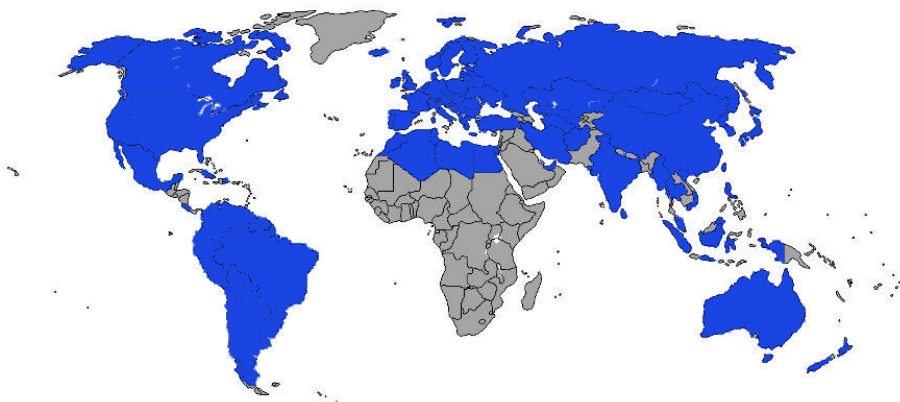



**TODAY**



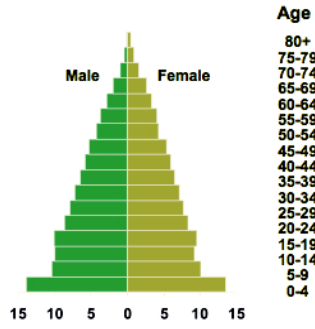
 **> 20% over age 65**

**2050**

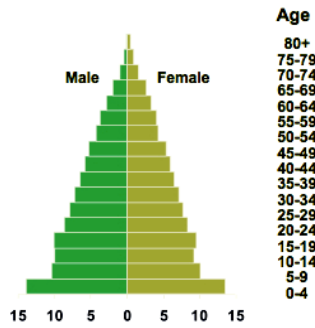


 **> 20% over age 65**

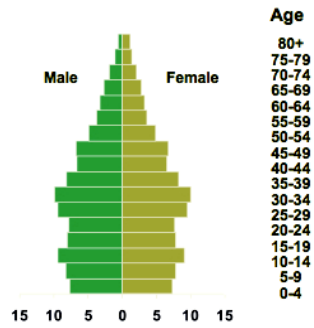
10,000 B.C. - 1950

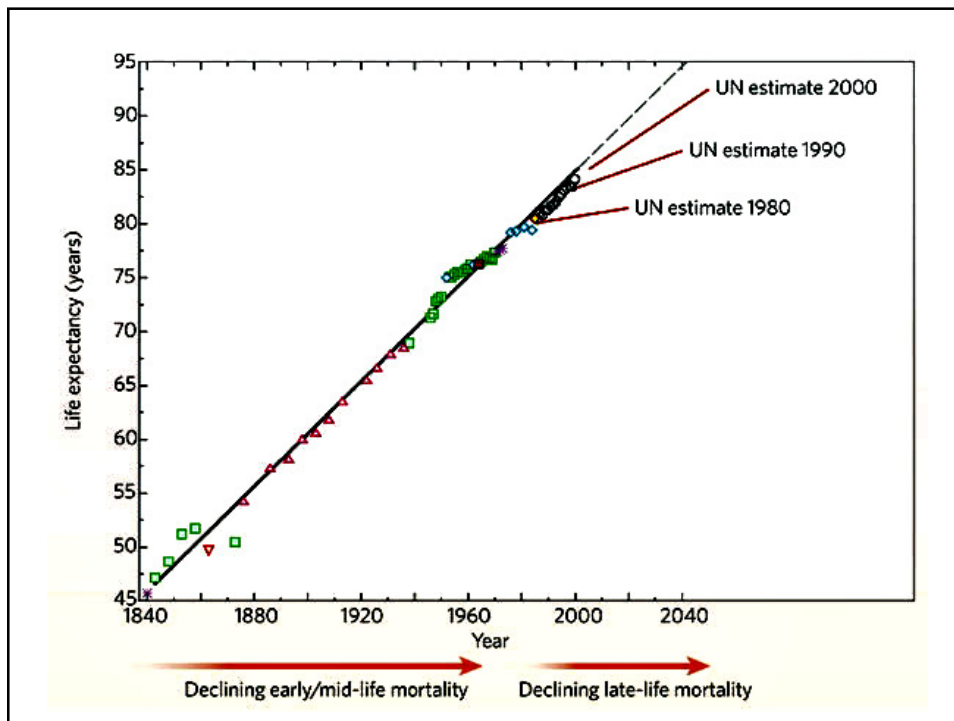
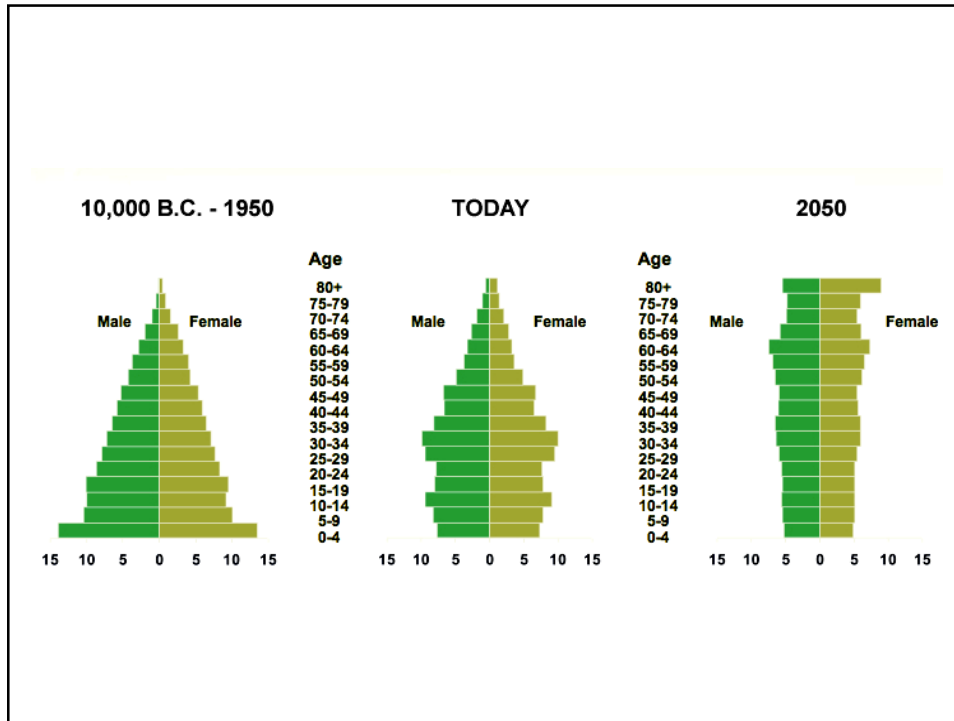


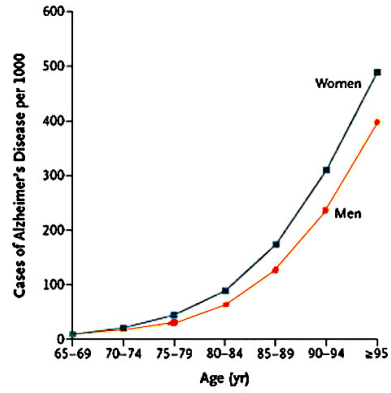
10,000 B.C. - 1950



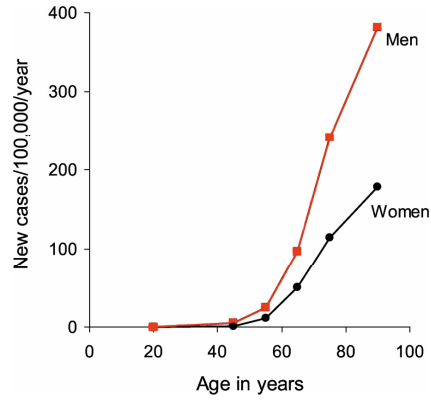
TODAY



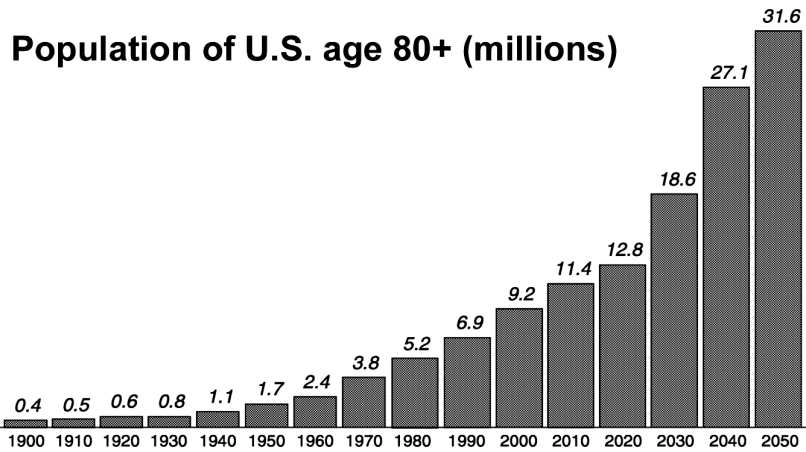




**Alzheimer's Disease**



**Parkinson's Disease**



**THE TOLL OF SELECTED BRAIN AND NERVOUS SYSTEM DISORDERS**

<u>Condition</u>	<u>Total Cases (U.S.)</u>	<u>Costs Per Year</u>
All Depressive Disorders	20.5 million	\$ 44 billion
Alzheimer's Disease	4.5 million	100 billion
Huntington's Disease	30,000	2 billion
Parkinson's Disease	1 million	5.6 billion
ALS (Lou Gehrig's Disease)	35,000	3 billion
FTD-17, PSP, CBD, MSA, Pick's Disease	250,000	10 billion
Traumatic Head Injury	5 million	56.3 billion
Multiple Sclerosis	2.5 million	9.5 billion
Spinal Cord Injury	250,000	10 billion
Stroke	4.7 million	51 billion
Schizophrenia	2 million	32.5 billion
<b>Total Cost/Yr</b>		<b>\$334.9 billion</b>
<b>(U.S. GDP ~ \$12,770 billion)</b>		

**Cost of all neurologic disorders in U.S.: \$339 billion/yr.**

**Cost of cancer + diabetes in U.S.: \$322 billion/yr.**

**Total U.S. investment in NIH, last 119 yrs. : \$279 billion**

**2008 Federal spending on Alzheimer's research: \$0.6 billion**

**Number of new cases of Alzheimer's/yr in U.S.: ~ 500,000**

**2008 Federal spending on AIDS research: \$2.6 billion**

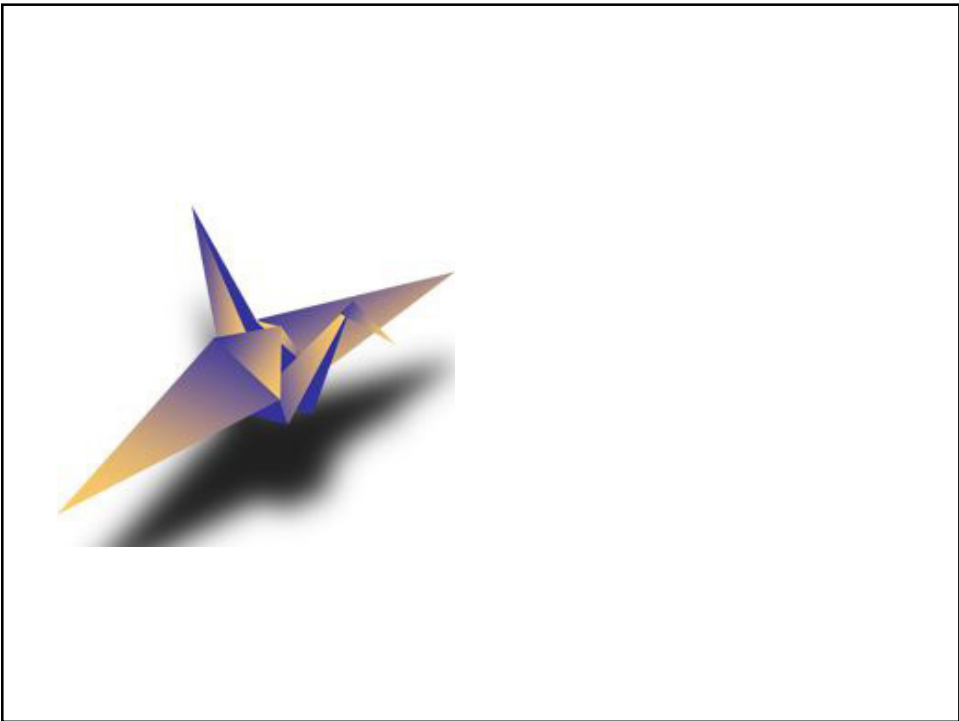
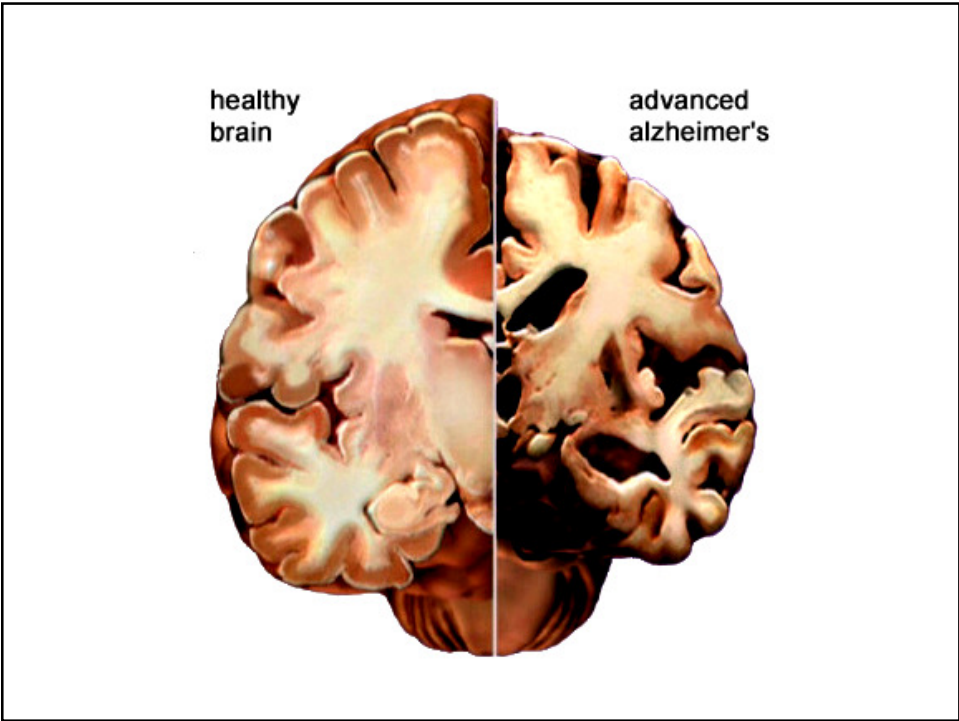
**Number of new cases of HIV/AIDS/yr in U.S.: ~50,000**

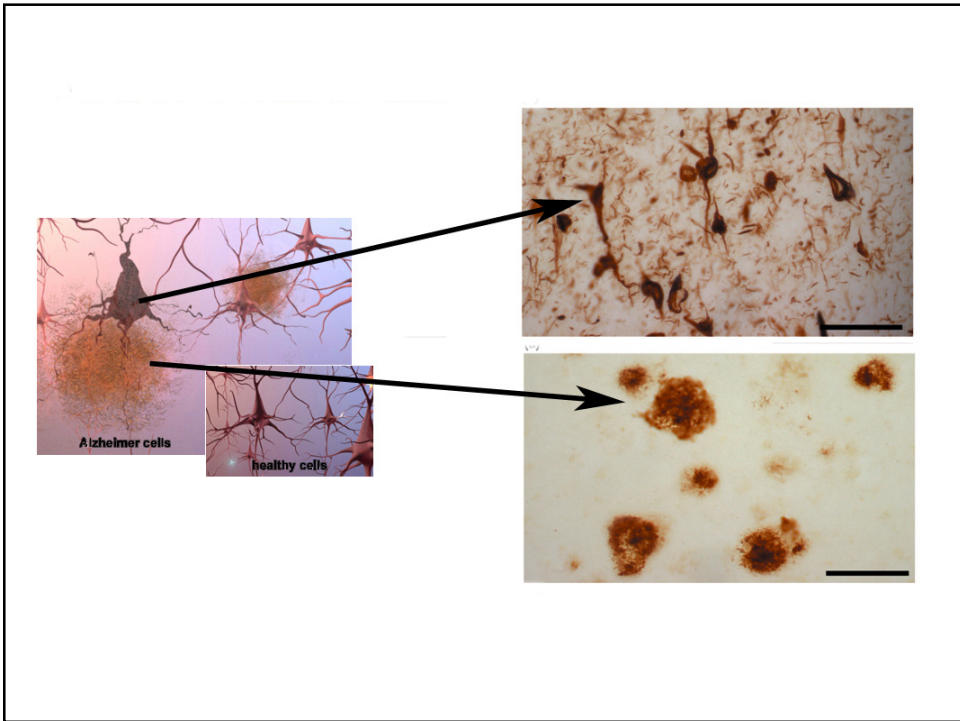
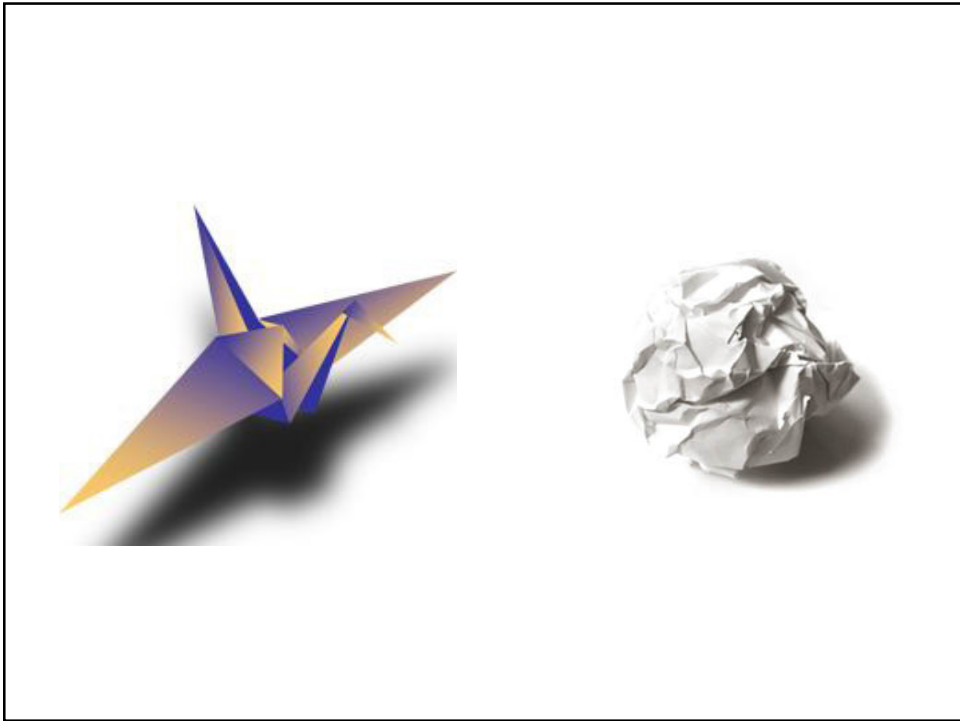


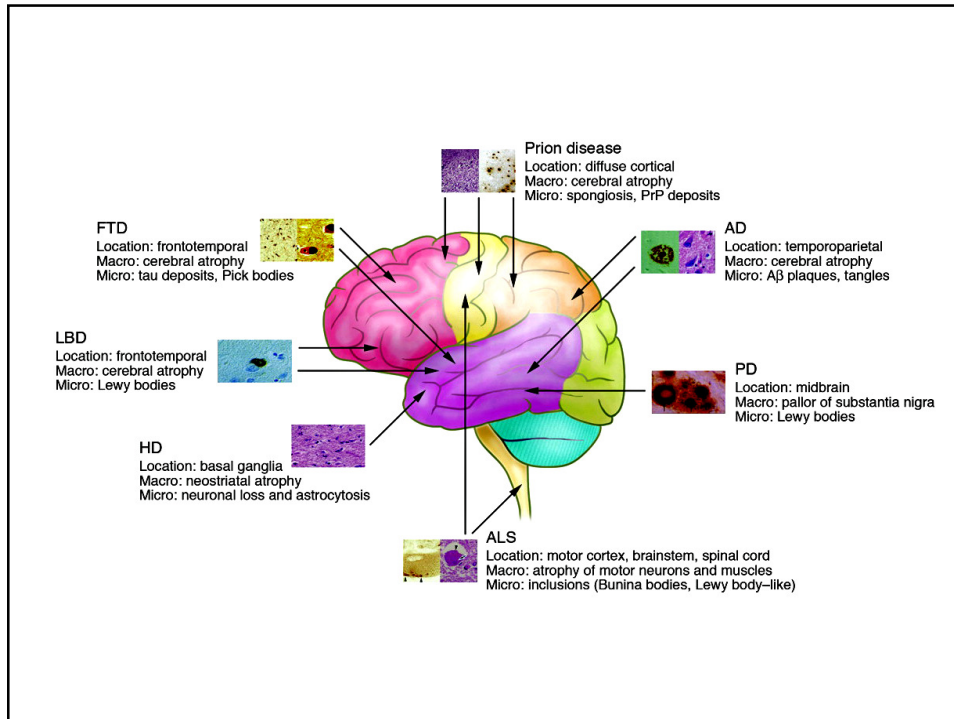
**YOUNG  
BRAIN**



**OLD  
BRAIN**







## New Idea

**They're All Just Different Manifestations  
of the Same Underlying Disease**

**AD**

**PD**



Pick's FTDP-17 PSP CBD DLB GSS HSD MSA

**If that's true, then finding a treatment for any of them  
should help in treating all of them**

## What To Do Until Then

### Lower Your Risk of Parkinson's Disease

- Have another latte
- Leave the boxing to Russel Crowe, Hillary Swank and Sly Stallone
- Wear a helmet when biking, motorbiking, or jumping to conclusions
- Try not to get the avian flu (as if you needed another reason...)

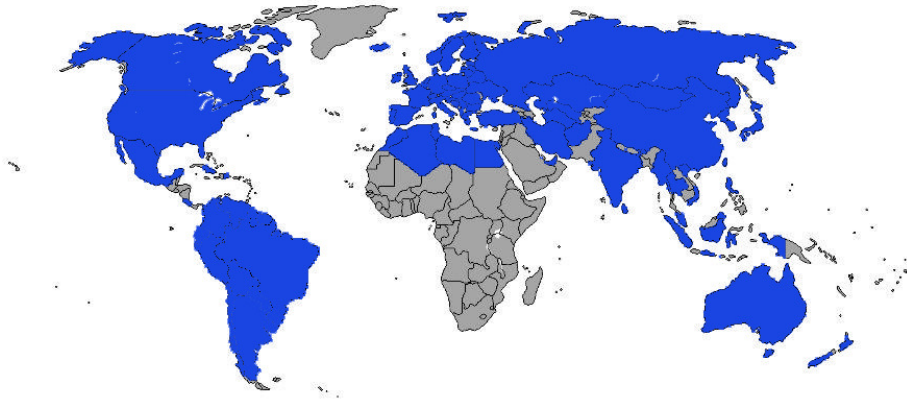
## What To Do Until Then

### Lower Your Risk of Alzheimer's Disease

- Eat more fish ( $\Omega$ -3-fatty acids are good)
- Keep your blood pressure low (don't think about your 401K)
- Lower your cholesterol if it's too high
- Stay mentally stimulated

**AND...**

**2050**



**THE NEXT GREAT EPIDEMIC?**