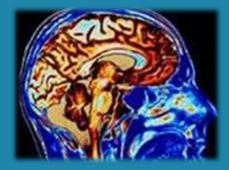
Decreasing the Risk for Brain Aging, Alzheimer's Disease and Other Forms of Dementia

Courtesy Amen Clinics, Inc. www.AmenClinics.com



Age-Related Memory Problems Escalate After Age 45

> The working population is aging!!

> Alzheimer's expected to triple in next 25 years!

No cure for it on the horizon

But there are very smart strategies to decrease your risk for Alzheimer's disease

Todd, Chief People Officer at FC

- > Age 53
- > Very poor memory
- > Thinks its normal
- > Marathoner
- Pop tarts and Diet Coke for breakfast

I now haunt him at every meal

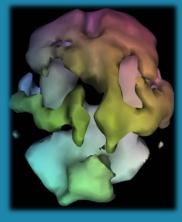


Courtesy Amen Clinics, Inc. <u>www.AmenClinics.com</u>

Who wants to live to 85 or beyond?

Courtesy Amen Clinics, Inc. www.AmenClinics.com

You May Be At Risk for Alzheimer's Disease (AD) If:

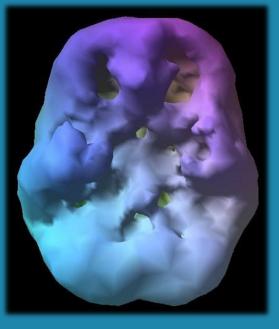


> You have a family member with it

- You have a personal history of head injury heart disease, strokes, diabetes, cancer,
 ADD or depression
- > You exercise less than twice a week
- You do not engage in regular learning



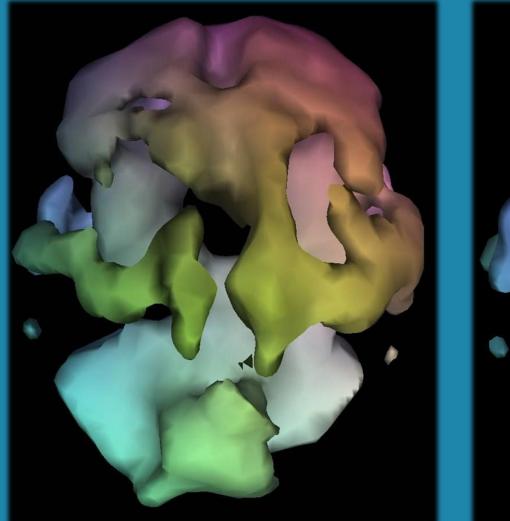
Age Related Memory Problems Alzheimer's Disease Frontal Temporal Dementia Vascular Dementia Lewy Body Dementia Alcoholic Related Dementia Chronic Fatigue Syndrome Mild Cognitive Impairment Brain Trauma

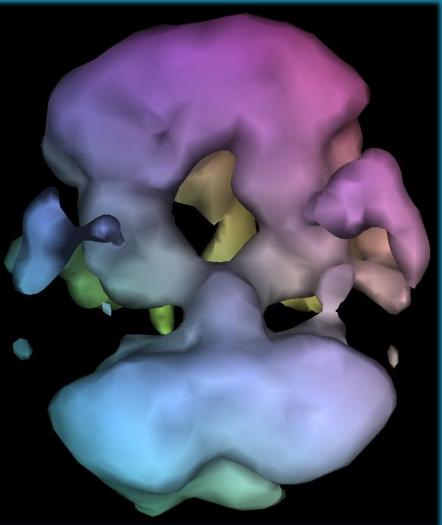


Dementia Defined

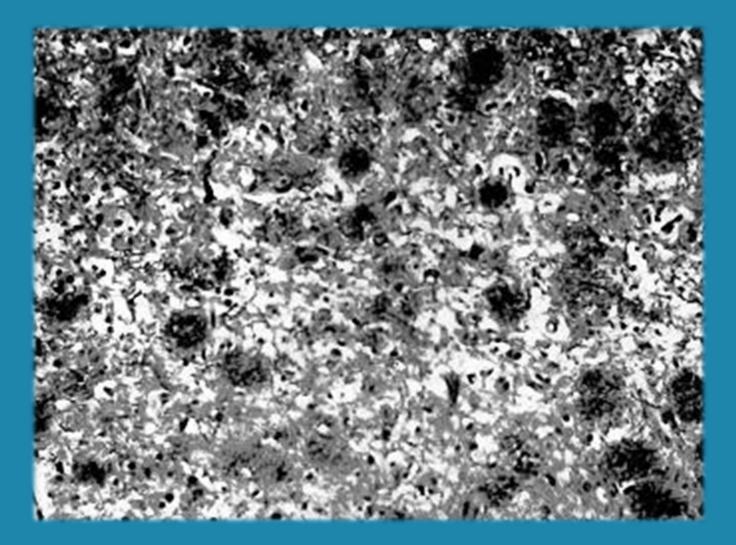
Damage to nerve cells that results in a progressive difficulty with remembering, thinking, or doing your usual activities.

Alzheimer's Disease

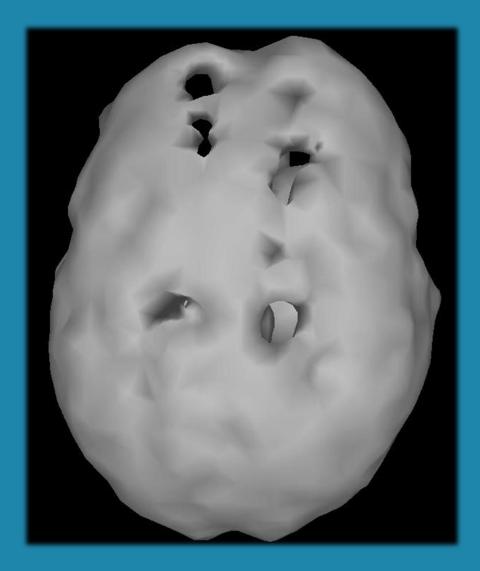


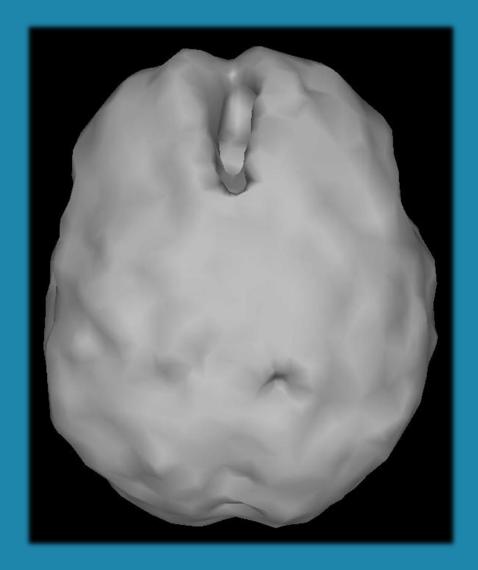


Alzheimer's Disease

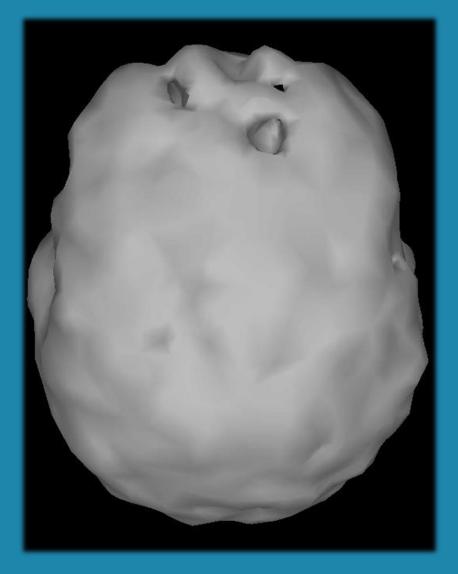


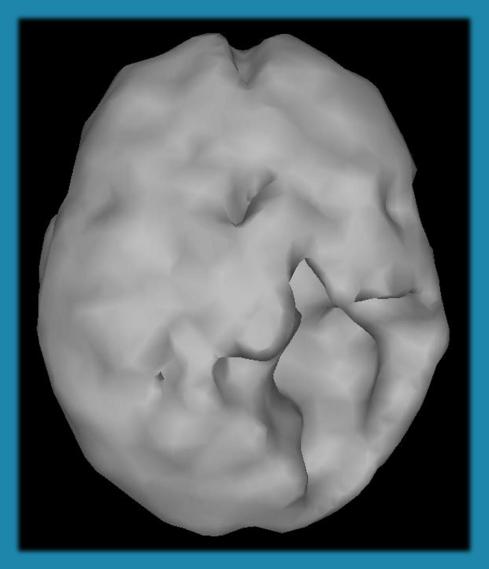
Frontal Temporal Lobe Dementia



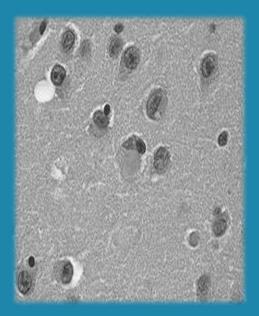


Vascular Dementia



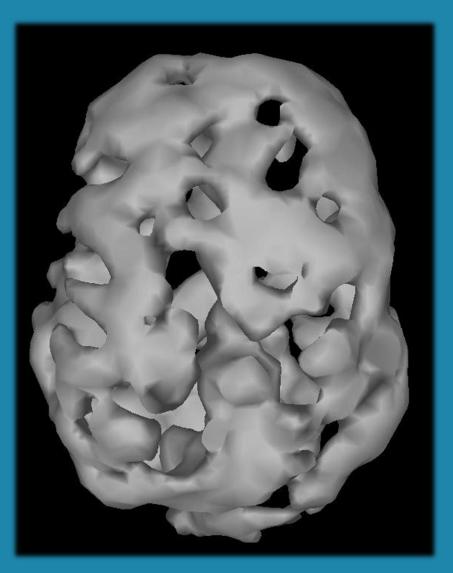


Lewy Body Dementia

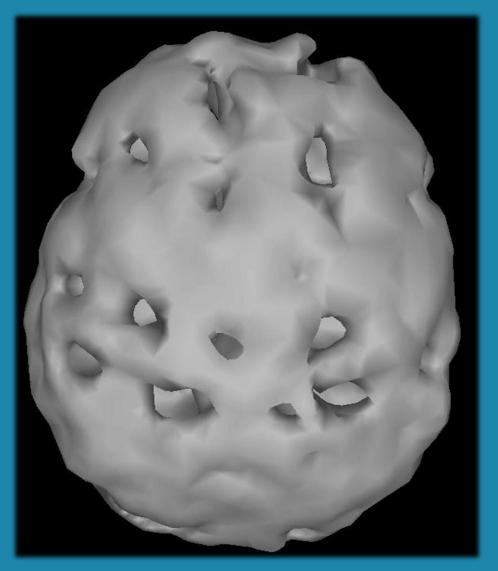




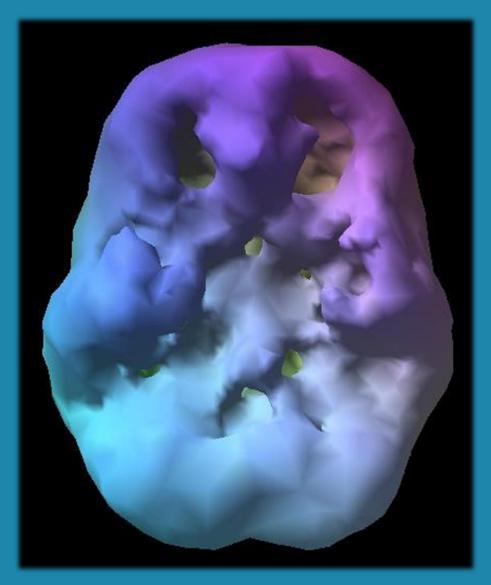
Alcohol Related Dementia



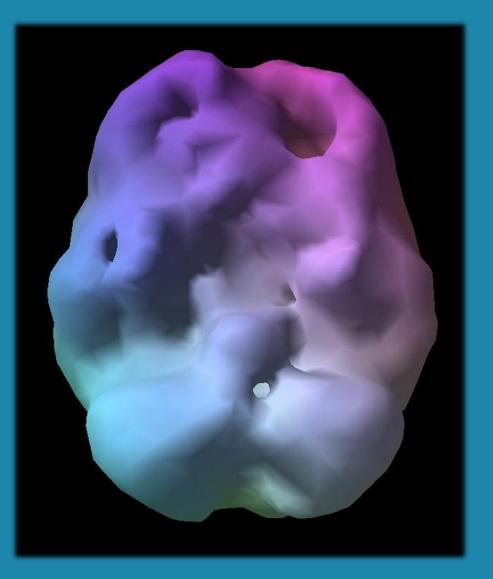
Chronic Fatigue Syndrome



Mild Cognitive Impairment



Brain Injury



Steps in Preventing Alzheimer's Disease

- Know your risk
- Keep your body and brain active
- > Antioxidants
- Beta amyloid reducing agents
- Modulate glutamate
- > Enhance acetylcholine

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Know and Reduce Your Risk

- Genetic risks Apo E4 gene
- Brain injury
- Alcohol abuse
- Obesity, Metabolic Syndrome
- > CV disease, including high BP, lipid problems
- Cerebral vascular disease
- Exercise less than twice a week

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Know and Reduce Your Risk (cont'd)

- Less formal education
- Diabetes
- > Smoking
- Parkinson's disease
- > Untreated depression
- Untreated ADD?

Low estrogen from hysterectomies

Know and Reduce Your Risk (cont'd)

- Low testosterone levels
- Sleep apnea
- Cancer treatment
- High homocysteine levels
- Getting hair or nails done too often

Prevention Strategies

- Know and change your risk
- Know ApoE status early, in childhood if play contact sports
- > Exercise
- Brain exercise, new learning
 Curcumin and Vitamin D (reduce beta amyloid), as may low dose ibuprofen (100-200mg)

Prevention Strategies

- Restricted diet, high in antioxidants
- > Omega-3 fatty acids
- ▶ B6, B12, folate
- > Tight blood sugar regulation, chromium?

Krikorian J, Eliassen, JC, Boespflug EL, Nash TA, Shidler MD. Improved cognitive-cerebral function in older adults with chromium supplementation. Nutritional Neuroscience 2010 Vol 13 No 3

Courtesy Amen Clinics, Inc. <u>www.AmenClinics.com</u>



Early Detection

Treatment works early, not late
95% not diagnosed until late
Smell identification test:

Strawberry



Lemon

Natural gas

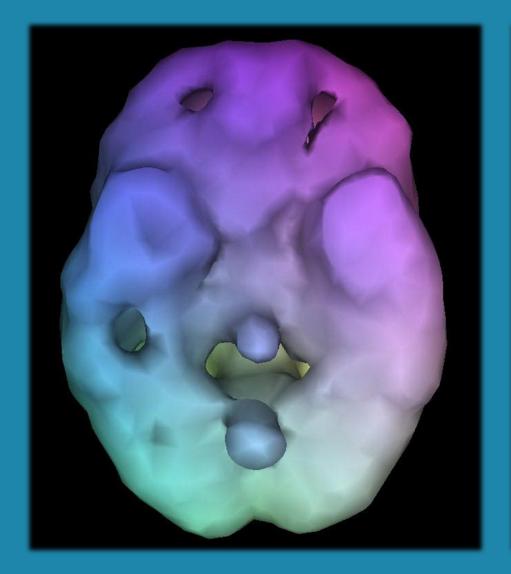


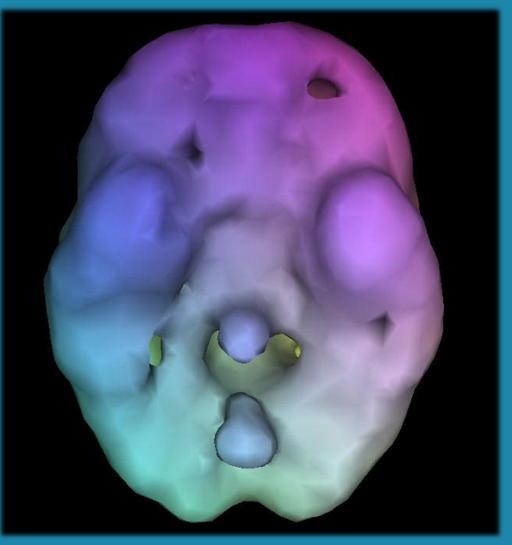
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Early Treatment Strategies

- Work up for other causes of memory loss
- > Prevention strategies
- Gingko, vinpocetine, huperzine A, acetyl-lcarnitine
- Acetylcholine enhancing agents (Aricept, Reminyl and Exelon)
- Glutamate modulator (memantine)

Before and After Memantine





Before and After Memantine

