

## **Estradiol, Estrogens and The Brain and Memory**

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Turners syndrome females have low estradiol and treatment helped cognition (ross 2000)

472 women followed for 16 years with every 2 years followup. Recorded use of ERT 3 years plus or minus and included past users. 95% used oral and only 5% used transdermal. Relative risk was .49 and also NASID .45

Working memory and how estradiol helps (Shaywitz 1997)

Vitamin E 2000 units plus Selegiline (MAO inhibitor) slows progression of AD ( Sano 1997)

Estradiol increases acetylcholinesterase activity in brain (Luine 1985)

Estrogen receptors in limbic, basal forebrain, cortex in females and males (Torran-Allerand 1992)

Acute estrogen increases glucose uptake in brain (Namba 1984)

Premarin does not seem to help (Wang 2000)