Your Brain on Hormones
Impact of Ovarian Hormone Suppression on Brain Structure and Cognition

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Women’s health is understudied in neuroscience

Taylor et al., 2021, Front. Neuroendocrinol.
Understanding the effect of Elagolix on cognition and brain structure

Endometriosis  
Common Disorder  
Elagolix
Three study groups come in for a baseline and follow-up visit

Endometriosis  Naturally Cycling  Progesterone Contraceptive

Baseline Visit  3 months  Follow-up Visit
Women go through different tasks in the study

Hormones: Estrogen & Progesterone

Cognition: Associative Memory

Brain Structure: Grey Matter Volume
Ovarian hormone suppression drug decreases estrogen
Ovarian hormone suppression alters memory, but not gray matter volume
Ovarian hormone suppression does not affect brain structure, but impacts other factors

Elagolix Decreases Estrogen

No Memory Improvement in Elagolix Group

No Change in Brain Structure
One step closer to ensuring science serves women and men equally
Acknowledgements