Lessons from the 68%: Female Brain Aging and Alzheimer's Disease

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Estrogen Promotes Brain Glucose Metabolism



Brain Hypometabolism in Postmenopausal Women

Estrogen deprivation impact: estrogen non-users exhibited a significant decline in cerebral metabolic rate in *Posterior cingulate cortex (PCC)*



Region of interest	Estrogen Users	Non-users
Right dorsolateral prefrontal (RDPF)	-1.89	-2.87
Left inferior parietal (LIP)	0.58	-1.12
Right inferior parietal (RIP)	0.47	-2.24
Left posterior cingulate (LPC)	-0.25	-3.88
Right posterior cingulate (RPC)	1.98	-1.94
Left superior temporal (LSP)	1.98	-0.19
Right superior temporal (RSP)	1.05	1.86
Left inferior temporal (LIT)	1.40	0.86
Right inferior temporal (RIT)	0.90	-1.12
Left mesial temporal (LMT)	0.98	-0.54
Right mesial temporal (RMT)	6.33	3.64

Percentage changes (T2-T1) in regional metabolic rates

Rasgon, N. L., D. Silverman, et al. (2005). "Estrogen use and brain metabolic change in postmenopausal women." Neurobiology of aging 26(2): 229-235.



































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