



TITLE: Are Brains Responsible for Delaying Alzheimer's Disease Diagnosis?

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ABSTRACT (upto 300 words)

Disconnection, compensation and isolation are phenomena that apply to neurons individually, as well as in clusters that form the brain. Information flows through neurons in electronic impulses, as do myriad molecular entities. Besides stimuli, several studies support transport of pathological proteins involved in Alzheimer's Disease, by means of synapses. Pathology responsible for this type of dementia is infamous for remaining undiagnosed until its damaging effect becomes irreversible. In this article, we comprehensively theorize upon the possibility of active contribution of neurons, when the deleterious activity of pathology is occurring inside the functional brain. Disconnection, would be the initial defense response for neurons withdraw from environments contaminated by pathology. As concentration of Alzheimer's specific prion proteins intensify, the brain might prefer that cluster of neurons—also known as a brain region—curb all interaction with its counterparts; this is an instance of putative isolation. If the pathological proteins are eliminated in time, plasticity of the brain allows re-connection and functional activity of this region might resume. Else, plasticity would facilitate compensation, which involves a new cluster of neurons becoming activated instead of, or along with regions whose neurons are now dysfunctioning. Compensation should be inevitable given that symptoms are still covert, and the individual **has no motive to receive a diagnosis**. This theory highlights predominantly the response of neurons to Alzheimer's Disease pathology, in the local and global context. Chronologically, we explain how we speculate the brain adapts to pathological adversity, and the role it plays in delaying diagnoses by decades.

BIOGRAPHY (upto 200 words)

Vishwa Parab holds a Bachelor in Science, Zoology major, and is a self-motivated neuroscience researcher and writer. Her research primarily focuses on Behavioral and Cognitive Neurosciences. The socially and economically burdening occurrence of aging, and various types of dementia inspire her scientific interests.



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