

Vascular Dementia

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Blood-brain barrier in vascular cognitive impairment and dementia

Blood-brain barrier (BBB) is an interface between peripheral blood circulation and CNS that plays multiple roles in brain function and homeostasis. The breakdown of BBB integrity has long been considered as a pathological hallmark of several cerebral inflammatory diseases that confirmed by in vivo imaging. The leakage of BBB facilitates the invasion of blood-borne pathogens and substances into and interstitial substances out of the brain, which causes the impairment of brain fluid homeostasis. Over the past few years, increasing evidence emerged that the BBB disruption in chronic cerebral inflammatory diseases is not permanent, rather is phasic. The phasic nature of BBB integrity in inflammatory diseases causes a tonic in brain fluid homeostasis. This may alleviate further brain damage by providing fast access to circulatory elements that may contribute to the recovery after BBB r Mcas mg B c]

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