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Biopersistence and brain translocation of aluminum adjuvants of vaccines

Gherardi et al 2015

In some individuals, aluminum-coated particles persist in the body and are slowly moved to the brain where they can cause CNS (central nervous system) dysfunction and damage?

"We previously showed that poorly biodegradable aluminum-coated particles injected into muscle are promptly phagocytosed in muscle and the draining lymph nodes, and can disseminate within phagocytic cells throughout the body and slowly accumulate in brain…Brain translocation of alum particles is linked to a Trojan horse mechanism previously described for infectious particles (HIV, HCV), that obeys to CCL2, signaling the major inflammatory monocyte chemoattractant…Previous experiments have shown that alum administration can cause CNS dysfunction and damage, casting doubts on the exact level of alum safety."

https://www.ncbi.nlm.nih.gov/pubmed/25699008

Aluminum Exposure at Human Dietary Levels for 60 Days Reaches a Threshold Sufficient to Promote Memory Impairment in Rats. Martinez et al 2017

Ingested aluminum has been shown to promote memory impairment in rats.

"Our data demonstrates that 60-day subchronic exposure to low doses of Al from feed and added to the water - which reflect human dietary Al intake - reaches a threshold sufficient to promote memory impairment and neurotoxicity…Al increased hippocampal reactive oxygen species and lipid peroxidation, reduced antioxidant capacity, and decreased AChE activity. The elevation of oxidative stress and cholinergic dysfunction highlight pathways of toxic actions for this metal."

https://www.ncbi.nlm.nih.gov/pubmed/27473855

Administration of aluminium to neonatal mice in vaccine-relevant amounts is associated with adverse long term neurological outcomes

Shaw et al 2013

In an animal model that was designed to correlate with the U.S. pediatric schedule aluminum load, long-lasting effects were observed on the central nervous system, including increased anxiety.

"Repetitive administration of aluminum to neonatal mice in amounts comparable to those to children receive via routine vaccinations significantly increases anxiety and reduces exploratory behavior and locomotor activities. The neurodisruptive effects of aluminum are long-lasting and persist for 6 months following injection."

https://www.sciencedirect.com/science/article/pii/S0162013413001773

Full article: http://vaccinepapers.org/wp-content/uploads/Shaw-Administration-of-aluminium-to-neonatal-mice-in-vaccine-relevant-amounts-is-associated-with-adverse-long-term-neurological-outcomes.pdf