

Exosomes Infusions

Exosomes are derived from mesenchymal stem cells (MSCs) grown in culture. They have been studied extensively since the 1980's, and they have demonstrated the ability to reduce inflammation and to signal repair in the tissues and organ systems needing repair.

Exosomes are microparticles shed from stem cells growing in a sterile and controlled laboratory setting. Once thought to be full of waste products, these microparticles are packed with regulatory proteins, RNA, and DNA that can regulate cells far from their place of origin. Exosomes are demonstrating anti-aging capacity, and they can cross the blood-brain barrier readily to improve neuronal differentiation and growth (in cases of developmental disorders, brain injuries, and autism). They can suppress inflammation within the brain. Disorders of encephalitis, auto immune encephalitis, autism, PANS/PANDAS can benefit from the anti-inflammatory benefits of this cellular product.

Exosomes from MSCs have demonstrated the ability to resolve autistic-like behaviors in a mouse model of autism (Alessio, 2020). Delivery is easy through a venous catheter or IV placement. Intranasal delivery of small volumes can also be delivered more specifically to the olfactory bulbs for localized uptake into the frontal lobe areas of the brain.

Many forms of mental illness are associated with chronic neuroinflammation, in particular, depression (Saeedi, 2019). Infused exosomes can alter DNA regulation, neuronal plasticity (learning), neurogenesis (growth of

new neurons), and neuroinflammation. All these mechanisms of therapeutic potential within the exosomes can positively impact a variety of mental disorders.

The exosomes we use are derived from Kimera Labs in Miramar, FL (Kimera Labs | A Biotechnology Company in Miramar, Florida, 2020). This FDA-registered lab is collaborating with several physicians who have been using exosomes for neurological repair for years. These microparticles have been screened for multiple diseases, viruses and bacteria and they are maintained in a sterile environment.

The Clinic for Special Children has been using the MSC-derived exosomes from Kimera for over 1 year, and we have demonstrated good clinical improvements as measured by standardized testing and an excellent safety profile in the Clinic.

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References

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