

## USE OF EXOSOMES DERIVED FROM MESENCHYMAL STROMAL CELLS IN THE TREATMENT OF **CEREBROVASCULAR ACCIDENT**

A stroke occurs when there is obstruction to blood flow or when blood vessels break. In either case, the brain cells suffer from a lack of oxygen.

- Cerebrovascular accidents (CVA) are usually associated with permanent brain damage.
  - Mesenchymal Stromal Cells (MSC) promote endogenous neuronal reconnection, and increase the formation of new blood vessels and the maturation of neurons.
  - MSCs are able to communicate a restoration message through the secretion of exosomes.
- MSC exosomes carry a wide variety of molecules with therapeutic potential, such as miRNA mR133b, which promotes neuronal growth and maturation, or miR-126, which inhibits the neuroinflammatory process.

If you suffered from a Cerebrovascular Accident or suffer from any of its complications, at Red Exocel we can help you.

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Sanitary license 21-TR-02-004-0003

