

## USE OF EXOSOMES DERIVED FROM MESENCHYMAL STROMAL CELLS IN THE TREATMENT OF **CARDIAC ISCHEMIA**



Cardiac ischemia is an injury due to obstruction of the heart's blood vessels, causing a reduction in blood flow, preventing the heart cells from receiving enough oxygen.

- Regenerating damaged cells is essential to restore the proper functioning of the heart.
  - The exosomes of the Mesenchymal Stromal Cells (MSC) are spherical particles that contain multiple molecules with therapeutic actions inside.
  - Exosomes have been shown to provide protection to the heart due to their antioxidant, anti-inflammatory and anti-apoptotic actions.
- miR-199a-5p, miR-125b and miR19a are found inside MSC exosomes, promote the survival and production of new cardiac cells, exerting a cardioprotective effect.

If you suffered Cardiac Ischemia or suffer from any of its complications, at Red Exocel we can help you.

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