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Mesenchymal stem cells form umbilical cord for the treatment of central post stroke pain syndrome

This is a 62 year old male with history of lumbar and cervical pain, with a laminectomy in 2014. The patient also has a history of hypertension and diabetes mellitus. After the stroke the patient had right side weakness which improved over time with physical therapy, but remained with cramps and pain in the upper and lower extremities. He also had poor sleep hygiene, difficulties writing and typing. He was diagnosed with Central Post Stroke Pain Syndrome as a sequela of his stroke.

The pain symptom have been refractory to multiple medications and was limiting his Activities of Daily Living for the past 3 years prior to therapy.

Mesenchymal Stem Cells from Umbilical Cord (MSC UC) were used to treat his pain. Mesenchymal Stem Cells are multipotent cells that can differentiate in different types of tissue. They can both self-renew and differentiate into mature tissues such as heart, lung, liver, bone, nerve, muscle and cartilage, among others.

They have the ability to migrate and target specific tissues, this is calling homing. They also have a paracrine effect, releasing growth factors and proteins to communicate using exosomes and cytokines.

An Intrathecal injection at C1-C2 was done with 5 Million MSC UC was done with also a 30 Million MSC UC in an Intravenous infusion. The patient was follow up for a year after the injection. He had complete resolution of his cervical and lumbar pain 2 months after the injection and 6 months after the procedure 80% of his Central Post Stroke Pain resolved. A year later the patient continues with the benefits of the MSC UC and his insulin requirements decreased by a 60%.

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WEBINAR

Biography

Linka Matos earned her MD at the University of Puerto Rico Medical Science Campus. She is an anesthesiologist and completed a fellowship in Interventional Pain Management at the University of Maryland Medical Science Campus in USA. She is licensed in Traditional Chinese Medicine and Herbal Medicine, and completed a JD at the University of Puerto Rico. She has been a pioneer in the field of Regenerative Medicine for the past 10 years for Pain Management and Cosmetic Medicine. Most of her therapies are directed to treat neurologic and musculoskeletal conditions.

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