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REGENERAGE SYSTEM: THERAPEUTIC EFFECTS OF COMBINATORIAL BIOLOGICS (mRNA AND ALLOGENIC MSCs) WITH A SPINAL CORD STIMULATION SYSTEM ON A PATIENT WITH SPINAL CORD SECTION

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As it has been previously demonstrated that co-electroporation of *Xenopus laevis* frog oocytes with normal cells and cancerous cell lines induces the expression of pluripotency markers, and in experimental murine model studies that mRNA extract (Bioquantine® purified from intra- and extra-oocyte liquid phases of electroporated oocytes) showed potential as a treatment for a wide range of conditions as squint, spinal cord injury (SCI) and cerebral palsy among others. The current study observed beneficial changes with Bioquantine® administration in a patient with a severe SCI. Pluripotent stem cells have therapeutic and regenerative potential in clinical situations CNS disorders even cancer. One method of reprogramming somatic cells into pluripotent stem cells is to expose them to extracts prepared from *Xenopus laevis* oocytes. We showed previously that co-electroporation of *Xenopus laevis* frog oocytes; with normal cells and cancerous cells lines, induces expression of markers of pluripotency. We also observed therapeutic effects of treatment with a purified extract (Bioquantine) of intra- and extra-oocyte liquid phases derived from electroporated *X. laevis* oocytes, on experimentally induced pathologies including murine models of melanoma, traumatic brain injury, and experimental skin wrinkling induced by squalene monohydroperoxide. The human findings for spinal cord injury and cerebral palsy compared with the previous results from animal studies of experimental models of traumatic brain injury are positive. Because of ethical reasons, legal restrictions, and a limited numbers of patients, we were able to treat only a very small number of patients. These results indicate that Bioquantine® may be safe and well tolerated for use in humans, and deserves further study in a range of degenerative disorders. We propose that the mechanism of action of Bioquantine® in these various diseases derives from its unique pharmacology and combinatorial reprogramming properties. In conclusion, these preliminary findings suggest that Bioquantine is safe and well tolerated on patients with cerebral palsy and spinal cord injury, among others. In addition to the regenerative therapy and due to the patient condition, we decided to include the Restore-Sensor SureScan. Based on the electrical stimulation for rehabilitation and regeneration after spinal cord injury published by Hamid and MacEwan, we designed an improved delivery method for the *in situ* application of MSCs and Bioquantine® in combination with the RestoreSensor® SureScan®.

Conclusions: To the present day the patient who suffered a total section of spinal cord at T12-L1 shows an improvement in sensitivity, strength in striated muscle and smooth muscle connection, 11 months after the first therapy of cell regeneration and 3 month after the placement of RestoreSensor® at the level of the lesion, the patient with a complete medullary section shows an evident improvement on his therapy of physical rehabilitation on crawling from front to back by himself and standing on his feet for the first time and showing a progressively important functionality on the gluteal and legs sensitivity

Biography

Joel I. Osorio is an innovative businessman with a distinct entrepreneurial mindset concentrated adding value on areas of Biotechnology(mRNA), Reprogramming & Regenerative Medicine for translational use in humans and a variety of clinical applications aimed for both the private and the public health sectors. Osorio is the Founder, President, and CEO of RegenerAge Clinic and RegenerAge Beauty initiatives for transnational implementations. Vice President and International Clinical Developer for Bioquark, Inc. Executive Vice President: Chairman of the WAMS Americas Division, member of the WAMS Executive Council (WAMS Executive Board), a member of the WAMS Education & Training Board (ETB), a member of the WAMS Editorial Board, an Honorary Member of the Academy Faculty FWAMS, an Honorary Fellow of the Academy & is also a Senior Partner at WAMS, The World Academy of Medical Sciences.

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