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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

s it has been previously demonstrated that co-electroporation of Xenopus laevis frog oocytes with normal cells and cancerous Acell 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. 2-3-7One method of reprogramming somatic cells into pluripotent stem cells is to expose them to extracts prepared from Xenopus laevis oocytes¹ We showed previously that coelectroporation of Xenopus laevis frog oocytes; with normal cells and cancerous cells lines, induces expression of markers of pluripotency.4 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 (Paylian et al, 2016). The positive human findings for Spinal Cord Injury, and Cerebral Palsy with the results from previous animal studies with experimental models of traumatic brain injury, respectively (Paylian et al, 2016). 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 Bioquan-tine® 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 in 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 SureScan⁵⁻⁶. Based on the of electrical stimulation for rehabilitation and regeneration after spinal cord injury published by Hamid and MacEwan 8-9 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 sec-tion 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 RestoreSen- sor* 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 a CEO and Founder of Biotechnology and Regenerative Medicine at RegenerAge International ™ (www.regenerage.clinic). He is also a vice president of International Clinical Development for Bioquark, Inc. (www.bioquark.com) and a Chief Clinical Officer at ReAnima™ Advanced Biosciences (www.reanima.tech). He has Earned MD degree at Westhill University and the National Autonomous University of Mexico as a Medico Cirujano. In addition he has diplomas in aesthetic medicine from the Autonomous University of Guadalajara, as an Advance Fellow by the American Board of Anti-Aging and Regenerative Medicine, visiting scholar at University of North Carolina at Chapel Hill in dermatology. Fellow in Stem Cell Medicine by the American Academy of Anti-Aging Medicine and University of South Florida, and currently completing additional masters work in metabolic and nutrition sciences at University of South Florida and Master in Health Sciences Aged Services, Victoria University at Melbourne Australia. A member of the Regenerate laboratories Mexico's Committee, a DNAge-Lab Company, working on the stem cells field since 2007, and since 2011 a member of the International Cellular Medicine Society. Chief Medical Officer & Co-Founder at Astrum Salud Móvil in Mexico City. PRP certified practitioner in the aesthetic and regenerative field since 2011 by GyCo.

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