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Response of post-ischemic heart to stem cells treatment: a case study

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Case of a 68 years old male with past medical history of hypertension, ischemic cardiopathy, acute myocardial infarction (AMI) 8 years ago, with stent placement; cardiac arrest (seven times after AMI) with pacemaker placement, and ischemic stroke (15 days after AMI) which resulted in complete left paralysis managed at the moment with fibrinolytic therapy, and later physical therapy. During this period of time, patient was under medication with Digoxin, Spironolactone, Ramipril and Potassium Supplement. Patient was received in our Regenerative medicine Unit on November 2015 presenting with fatigue, Ejection fraction (EF) of 30-35% (Figure 1.A), limitation of physical activity, erectile dysfunction, left side motor dysfunction, mild effort dyspnea, severe fatigue and not elective for stress test. At that moment patient received regenerative medicine therapy with bone marrow stem cells (activated), Platelet Rich Plasma, Cytokines, and Growth Hormone. A second session of treatment was performed two months after, same procedure and same products were given. Patient was now elective for a Stress Test with was performed on February 2016, test concluded negative for ischemic cardiopathy, with adequate cronotropic and pressure response, and exercise tolerance within regular range. Follow up of the patient demonstrated improve on fatigue, erectile dysfunction, and a current ejection fraction of 42% (Figure 1.D), motor amelioration, patient now refers overall improvement. Digoxin and Spironolactone were removed by cardiologist from treatment, and is now been treated with Eiquinon and potassium supplement.

Biography

Domingo Guerra is a Medical Doctor with a General Surgery specialty, and has Post-graduate fellowships of Advanced, Laser and Laparoscopic Surgery. In 1998, he became a Founder and Board Member (for 2 years) of the Policlínico La Vega SA in Dominican Republic. A few years later, in 2002, he started within this institution one of the first Regenerative Medicine units of the country. He has been practicing this field of medicine during the past 15 years, introducing to the country new therapeutic options. He has recently completed a Cell Culture (Stem Cell Oriented) workshop. By combining surgical knowledge with regenerative medicine knowledge, he has been able to apply this emerging field of the medicine to several types of diseases such as Diabetes, Hypertension, Renal Failure, Heart failure, Alzheimer's, Parkinson's, medullary problems (such as compression), joint problems (such as arthritis), inflammatory and autoimmune diseases, among others. He is now reorienting his work into research in order to document the work he has done.

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