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Metabolic Syndrome and Exhausted Stem Cell Pools

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One of the most important and multifaceted diseases of modern society is the “metabolic syndrome”. This syndrome has not been fully understood, and for that reason there is still no effective treatment available. I suggest that a possible mechanism of stem cells is involved in the development of the metabolic syndrome. This point of view also allows us to consider other important pathologies that could have similar etiopathogenic pathways, such as aging. All these clinical situations could be the consequence of a progressive and persistent stem cell loss syndrome. The main result of this stem cell loss would be an irreversible fall of effective regenerative mesenchymal stem cell (MSC) groups. In this way, the normal body repair capabilities could become ineffective. This concept could open the possibility of a new treatment strategy in the metabolic syndrome and even aging: stem cell therapies.

Keywords: Metabolic Syndrome, Stem Cell, Aging

Biography:

Miguel G Garber has over 34 years experience in Internal medicine and cardiology, with expertise in regenerative medicine, training and education, research, product development and senior management. He has more than 15 years working with Stem Cell, including building and managing the stem cell evaluation, explore and developing stem cell therapies for cardiomyopathies, osteoarthritis and regenerative medicine at Stem cell Therapeutics Department of American Medical Information Group and Clinica Quirurgica Quantum. He is currently serving as Medical Director of Regeners Clinic (International Regenerative Medicine), and Director of Clinica Castelló 68, Madrid, on going of several investigative researches involved Mesenchymal Stem Cells application (ASC) and Drug. Professor and clinical director of the Master in Regenerative Medicine, Dr. Garber has made a significant contribution to Stem cell Research. Actually he is involved in Adipose Stem Cell application. Umbilical cord Stem Cell Research and Regenerative Medicine open access journal, editorial board member. President of Spanish Society of Regenerative Medicine and Cell therapy (SEMERETEC).