

WORLD PHYSICAL MEDICINE AND REHABILITATION CONFERENCE

November 12-13, 2018 Istanbul, Turkey

Mesenchymal stem cells in treatment of musculoskeletal disorders: Current evidence and future perspective

Suad Trebinjac

Al Garhoud Private Hospital, UAE

Musculoskeletal disorders are chronic, painful and followed by significant morbidity. Furthermore, the cost of treatment produces economic burden. Variety of therapeutic options are mainly symptom oriented, often providing only temporary therapeutic effect. Stem cells become an attractive scientific subject due to their potential to differentiate into other types of cells and eventually regenerate or repair damaged tissue. Mesenchymal Stem Cells (MSCs) are commonly used, because of their potential to differentiate into musculoskeletal lineage, eventually generating new cartilage, bones, muscles and fat. Preclinical and some clinical studies show promising results. Better insight into the paracrine effect and favorable joint environment, (which are the most important for successful outcome), opened a new perspective for more efficient outcome in the future. In this oral presentation, I will try to highlight three key points;

1. What is the current clinical evidence for the application of MSCs in the treatment of chronic knee cartilage damages, ligaments and tendons?
2. What is the possible mechanism of action of MSCs?
3. Who are the best candidates for this type of treatment?

Also, the future perspective in this medical field will be specified.

Biography

Suad Trebinjac graduated from Medical Faculty University of Sarajevo on 3/25/82 with entrance date 9/1/74. The school is in Sarajevo. Dr. Suad Trebinjac's specialty is Physical Medicine and Rehabilitation and currently works as a Physician. He is working as Associate professor in Dubai Medical College for Girls. The first Prolotherapy's in Middle East (training in the University of Wisconsin-USA).

s4965@hotmail.com

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