Athletes, Sports Medicine and Stem Cells: Regenerative Applications

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Athletic endeavor has always intertwined with pursuing optimal physical performance. The inherent risk of traumatic injury has placed sports medicine at the forefront of progressive treatment. The emergence of Regenerative Medicine has led to the clinical translation of sports medicine related problems. The use of Biologics, Platelet Rich Plasma (PRP) and Stem Therapy are foundations for this approach. The scientific literature will be explored to provide a foundation for the pathophysiology of injury and trauma as it relates to sports and Regenerative Medicine. Various clinical cases are presented to illustrate the utilization of stem cell therapy and PRP as a therapeutic strategy to assist athletes in their return to sport. Select situations in which standard medical treatment is a surgical intervention, may be unsuitable for return to sport. A Regenerative Medicine treatment model incorporating Stem Cell Therapy, may provide suitable alternative strategies that facilitate healing and repair, without precluding return to sport. In the sports medicine world success is measured by return to sport. The clinical translation of Stem Cell Therapy into sports medicine, may foster a transformation of treatment strategy.

Biography

Dennis M. Lox M.D is the Medical Director of the Sports and Regenerative Medicine Centers in the Tampa Bay Metro Area of Clearwater, Florida, and in Beverly Hills, California. Dr. Lox attended the University of Arizona where he was Phi Beta Kappa studying Liberal Arts. Dr. Lox then completed his Medical training at Texas Tech University, followed by his Residency program in PM&R at The University of Texas Health Science Centers at San Antonio. Dr. Lox has always pursued Sports Medicine, and this led to a path into Regenerative Medicine.

Dr. Lox has edited 2 Medical Textbooks, 9 Textbook book chapters, and has lectured nationally and internationally on Sports, Regenerative Medicine and Stem Cells.