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David Capaldi

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BIOGRAPHY

David Capaldi was graduated from St. George's University School of Medicine and completed residencies in general surgery at Nassau University Hospital in New York and diagnostic radiology at John T. Mather Memorial Hospital and Stony Brook University Hospital in New York. Capaldi is currently a licensed physician in the state of Florida and the state of New Jersey. His diverse training also includes a B.S. in pharmacology & toxicology and an MBA in pharmaceutical business from the University of the Sciences in Philadelphia. His education and experience in radiology and surgery, combined with his interest in using stem cell therapy in the treatment of a variety of medical disorders and traumas have led him to join the staff at Rejuva Stem Cell Clinic as the full time provider and he enjoys the active lifestyle of South Florida, especially surfing and golfing.

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HUMAN UMBILICAL CORD BLOOD DERIVED STEM CELLS: REVIEW OF THE SCIENCE, RESEARCH AND CLINICAL APPLICATIONS

Human umbilical cord mesenchymal stem cells, particularly those derived from the cord blood, have become wildly popular with physicians and represents a fast-rising source of stem cells as represented in the research and it's use in clinical practice in the United States. MSCs work in a paracrine manner to aid in host endogenous repair. MSCs release growth factors and proteins to communicate and effect neighboring cells. Studies illustrate a host of cytokines, chemokines and growth factors released by MSCs such as VEGF, FGF, PDGF, SCF to name a few. Growth factor release such as that of VEGF helps in the formation of new vascularization or angiogenesis while release of IL-1ra aid in suppressing the pro-inflammatory response of TNF-α. Hence, MSCs work in various methods to aid in healing and natural repair. This presentation will focus on the research and areas of proven benefit and also will reveal areas of need in the research, so we can work toward discovering the full potential of HUCMSC's. Detailed analysis of the HUCMSC product and its contents, method of action, clinical efficacy and safety.