

PICK THE MOST EFFECTIVE MSC'S FOR CLINICAL USE: COMPARISON OF MSC'S FROM DIFFERENT TISSUE SOURCES

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The history and characteristics of MSCs are discussed, as well as MSC's therapeutic properties. The effect of age is discussed in detail as to how it affects MSC's quality and their ability to proliferate, differentiate and exert therapeutic effects. Evidence of the effects of lifestyle and illness on MSC quality is discussed as well. The presentation will also cover direct comparative studies on differences between umbilical cord derived MSCs vs. bone marrow-derived MSCs vs. adipose-derived MSCs, including differences in their growth profile, cellular senescence and anti-inflammatory properties. Comparisons of MSC's from above different tissue sources are also discussed in specific areas such as orthopaedics, cancer, angiogenesis and neuroprotection. Specifically regarding umbilical cord-derived MSC's, their primitivity, differentiation potentials and gene expressions are discussed. Lastly, the advantages and disadvantages of autologous vs. perinatal allogeneic stem cell therapies are discussed.

Biography

Joy Kong is a triple board-certified Physician (American Board of Psychiatry and Neurology, American Board of Addiction Medicine, American Board of Anti-Aging and Regenerative Medicine). She is very passionate about Regenerative Medicine and believes it is the medicine of the future. She is the Founder of Chara Biologics with the goal of providing the best regenerative medicine products in the country, inspired by the remarkable results she saw in her own patients. She also founded American Academy of Integrative Cell Therapy, to provide physician education and training, so that regenerative medicine can be practiced safely and effectively, with sound knowledge of the science behind it.

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