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Stem cell rejuvenation program based on the theory of stem cell depletion

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The aging theory of the body stem spaces depletion was published in 2011 [Medicine Today and Tomorrow, 50-51, (1-2): 292-310], where we showed the decrease of stem cell resources in the aging. In order to restore all functional systems of the body we require to increase organ and tissue specific stem cells reserve in the whole body: in brain, heart, lungs, vessels, liver, kidneys, bone marrow, tissue of immune and endocrine systems, organs of vision and hearing, skin, muscles and bone tissue. Goals of stem cells rejuvenation program: eliminate aging changes of vital physiological system and prevent them from aging; eliminate or to stop ageing disease development; normalize ratio of biological and chronological age; restore function of immune system; rejuvenate hair, face, neck, décolleté, and hand skin. We studied dynamics of biological and chronological age ratio, frailty index, frequency of aging symptoms, viscoelastic parameter skin, roughness, radiance and uniformity of hand skin tone. Evaluation results of hand, neck, décolleté and face skin rejuvenation conducted by Global Aesthetic Improvement Scale (GAIS). Investigations were performed for 60 months. Maximum level of deformation of the skin reduced simultaneously to increase in its elasticity on the span of the whole observation period. Patients GAIS results showed, optimal cosmetic results-78.9%; significant improvement but not complete correction-9.7%; improvement but required additional correction-11.3% (all women with deformable type of face of aging). The program significantly reduces the biological age, and frailty index that evidences about the decrease in risk of aging disease appearance.

Biography

Padma Priya Anand Baskaran has research experience and history of working in the hospital and health care industry with skills on stem cells therapy protocol from preparation to treatment with 15 scientific publications. She has established efficacy of stem cells in clinical research. She has completed her Master's degree in Biotechnology from Saint-Petersburg State Chemical Pharmaceutical Academy (Russia). Her field of interests are ageing, prenatal stem cells, exosomes, 3D progenitor cell cultures and stem cell niche modeling.

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