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Stem cell therapy in End -stage constrictive Pericarditis

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The pericardium increases the cardiac efficacy by limiting the distance of cardiac chambers, protects the heart by reducing external friction and provide a barrier to extension of infection and malignancy. In constrictive pericarditis, the thickened, fibrous pericardium that form a non-compliant shell around the heart, inhibits the diastolic filling. "End-stage" constrictive pericarditis has posed a diagnostic dilemma since it presented with features of right-sided heart failure. Etiology remains unknown in majority of case and inflammatory process play a central role in its development. Currently, pericardiectomy is the only accepted curative treatment for improving cardiac hemodynamics in constrictive pericarditis. Pericardium resection (or pericardial stripping) is a surgical procedure where the entire pericardium is peeled away from the heart. In advanced (end-stage) constrictive pericarditis, pericardiectomy may not offer a cure or desired long term results. Amniotic stem cell therapy consisting of either stem cells with extracellular matrix or extracellular matrix alone in the form of human amniotic membrane allograft, an emerging anti-inflammatory and antifibrotic treatment and four human allograft membranes were topically placed over the right atrium, right ventricle and left ventricle prior to closure. Stem cells promote cardiac cell regeneration through direct and paracrine factors, decreases cardiac muscle apoptosis and improves blood supply to ischemic regions of the heart.

Key words : End-stage constrictive pericarditis, stem cell therapy, amniotic membrane.

Biography

Ramachandran Muthiah, Consultant Physician & Cardiologist, Zion hospital, Azhagamandapam and Morning star hospital, Marthandam, Kanyakumari District, India. Born on 10/5/1966.. Mother Swornam belongs to keezhkulam village and Father Muthiah belongs to Enayam thoppu and both were farmers. Published many papers in Cardiosource, American College of Cardiology Foundation, Case Reports in Clinical Medicine (SCIRP) and Journal of saudi heart assocoation.

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