NAMS Scientific Symposium on Regenerative Medicine
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RECENT CONCEPTS IN MYOCARDIAL REGENERATION

ABSTRACT

Functional restoration of the damaged heart presents a challenge as the available treatment options do not help in reduction of scare size after myocardial infarction or significant improvement of an impaired cardiac pumping ability in Heart Failure (HF). Nowadays, Stem Cell technology is rapidly gaining popularity as a way to improve the prognosis of patients with coronary artery disease and HF. Ideally, transplanted cells would mimic the lost myocytes morphologically and functionally. Therefore, we at AIIMS undertook following studies to evaluate the safety and efficacy of Stem Cell (SC) injection in Acute Myocardial Infarction (AMI) and Dilated Cardiomyopathy (DCM). **A)** Study to Role of Stem Cells in ischemic cardiomyopathy by direct intra myocardial injection. **B)** Intracoronary stem cell implantation in patients with dilated cardiomyopathy. (B.1) pilot study- 6 months (B.2) final long-term (3-year) follow-up. **C)** Efficacy of Stem Cell in improvement of Left Ventricular Function in patients with AMI - MI3 trial.