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## Supplementary Material

# Combinational Therapy of Cardiac Atrial Appendage Stem Cells and Pyridoxamine: The Road to Cardiac Repair?

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### 1. Supplemental figures & tables

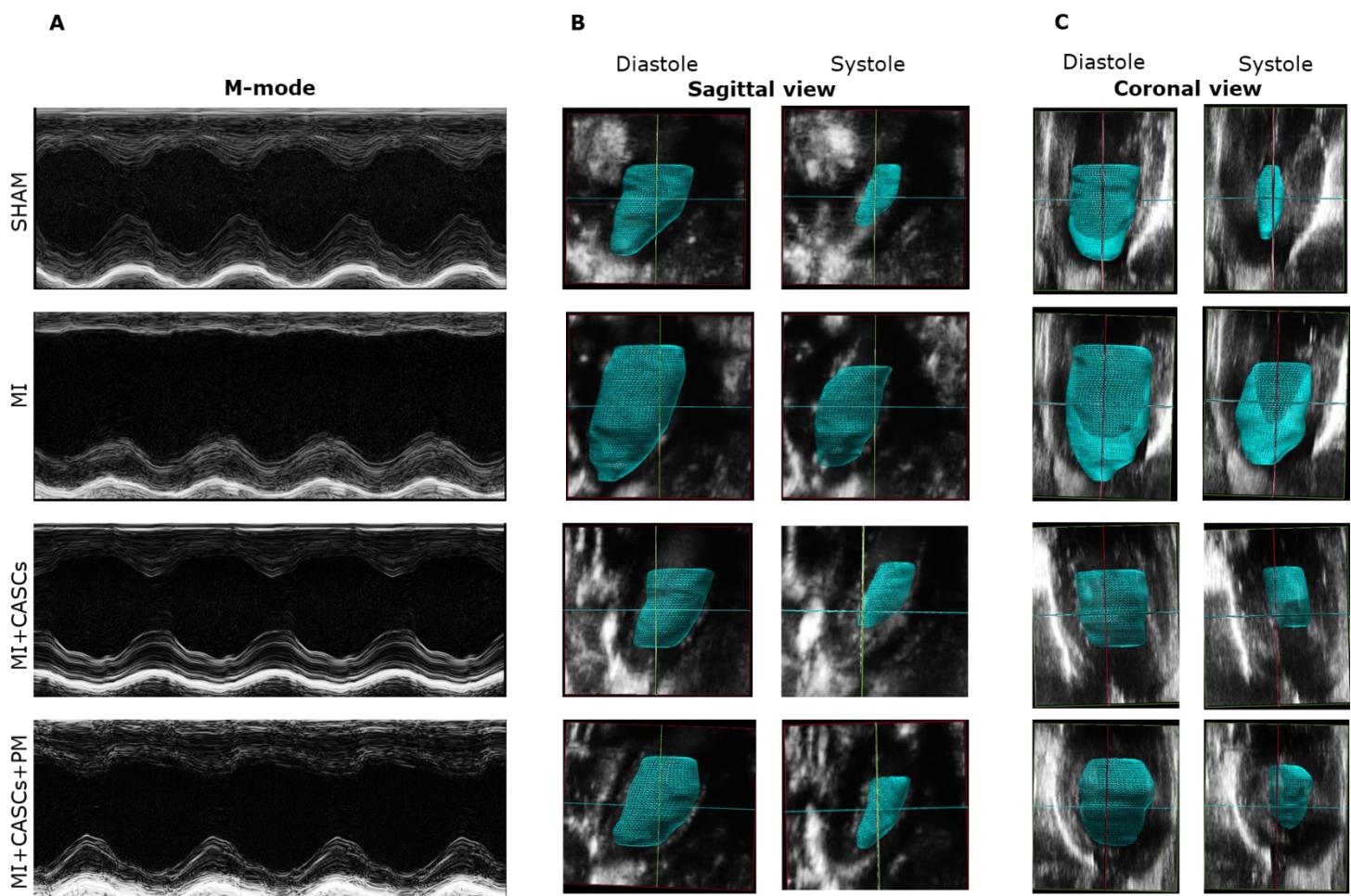


Figure S1. Representative echocardiographic images. (A) Representative images of M-modes obtained during parasternal short-axis view at mid-ventricular level of SHAM, MI, MI + CASCs, and MI + CASCs + PM animals. (B,C) Representative images of 4D reconstructed hearts during diastole and systole in (B) sagittal view and (C) coronal view of SHAM, MI, MI + CASCs, and MI + CASCs + PM animals.

Table S1: Diastolic echocardiographic characteristics.

Parameters	4 Weeks Post-Operative			
	SHAM	MI	MI + CASCs	MI + CASCs + PM
Longitudinal FS (%)	18 ± 3	18 ± 3	22 ± 2	23 ± 3
Radial FS (%)	50 ± 5	38 ± 5	50 ± 5	47 ± 4
E/E'	-26 ± 4	-32 ± 6	-29 ± 3	-27 ± 4
E/A	1.39 ± 0.21	1.80 ± 0.35	1.33 ± 0.11	1.27 ± 0.07
IVCT (ms)	21.1 ± 1.2	23.8 ± 1.1	22.3 ± 1.3	22.2 ± 1.3
IVRT (ms)	24.1 ± 1.5	22.7 ± 1.2	21.2 ± 1.0	22.2 ± 1.0

Diastolic echocardiographic characteristics 4 weeks post-op in SHAM ( $n = 5$ ), MI ( $n = 11$ ), MI + CASCs ( $n = 10$ ), and MI + CASCs + PM ( $n = 9$ ) animals. Data are expressed as mean ± SEM. FS: fractional shortening, E: early diastolic transmitral flow velocity, E': peak early-diastolic annular velocity, A: late diastolic transmitral flow velocity, IVCT: isovolumetric contraction time, IVRT: isovolumetric relaxation time.

Table S2: Sequences of forward and reverse primers used in qPCR.

Gene	Forward Primer	Reverse Primer
IFN- $\gamma$	GAA AGA CAA CCA GGC CAT CAG	TCA TGA ATG CAT CCT TTT TTG C
IL-6	CGA AAG TCA ACT CCA TCT GCC	GGC AAC TGG CTG GAA GTC TCT
HPRT	CTC ATG GAC TGA TTA TGG ACA GGA C	GCA GGT CAG CAA AGA ACT TAA AGC C
PGK1	ATG CAA AGA CTG GCC AAG CTA C	AGC CAC AGC CTC AGC ATA TTC

Primer sequences are given in their 5'-3' orientation. IFN- $\gamma$ : interferon- $\gamma$ , IL-6: interleukin-6, HPRT: hypoxanthine-guanine phosphoribosyl transferase, PGK1: phosphoglycerate kinase 1.