

Supplemental Material

Table S1: Inclusion and exclusion criteria

Inclusion criteria
<ul style="list-style-type: none">• Age between 30 and 80 years.• Signed informed consent.• Chronic stable ischemic heart disease• NYHA class II-IV or CCS class II-IV• Maximal tolerable angina and/or heart failure medication.• Angiography within 12 months of inclusion. Angiography must have at least one larger coronary vessel with a significant stenosis with no option for PCI or CABG (Angiographies evaluated by an independent thoracic surgeon and an interventional cardiologist).• Patients who have had PCI or CABG within 6 months of inclusion must have a new angiography at least 4 months after the intervention to rule out early restenosis.
Exclusion criteria
<ul style="list-style-type: none">• Pregnant or fertile women.• Clinical significant anemia, leukopenia, leukocytosis or thrombocytopenia.• Diminished functional capacity for other reasons such as: COPD with FEV1<1 L/min, moderate to severe claudication or morbid obesity.• Patients with reduced immune response or treated with immunosuppressive medication.• Moderate to severe valvular disease or valvular disease with option for valvular surgery.• Acute coronary syndrome with elevation of CKMB or troponins, stroke or TCI within 6 weeks of inclusion.• History with malignant disease within 5 years of inclusion or suspected malignancy.• Other experimental treatment within 4 weeks of baseline evaluation.• Other revascularization treatment within 4 months of treatment.• Contraindications for MRI such as: Claustrophobia, pacemaker, ICD unit, metal fragments or metal implants in the cranium.

NYHA = New York Heart Association, CCS = Canadian Cardiovascular Society, PCI = percutaneous coronary intervention, CABG = coronary artery bypass grafting, COPD = chronic obstructive pulmonary disease, FEV1 = forced expiratory volume during first second, CKMB = creatine kinase myocardial band, TCI = Transitory cerebral ischemia, ICD = implantable cardioverter defibrillator.

Table S2: Summary of events

	Baseline	D-1	D0	D1	D3	D7	W2	W4	W8	W12	W26
Informed consent	•										
History / physical exam	•	•		•	•	•	•	•	•	•	•
Laboratories	•	•	•	•				•	•	•	•
NYHA	•							•	•	•	•
CCS	•							•	•	•	•
SAQ	•									•	•
MRI	•		•	•	•	•	•	•	•	•	•
Bone marrow aspiration	•										
MSC isolation and expansion	•										
USPIO labeling		•									
NOGA Mapping			•								
Holter monitoring		•	•	•							
Adverse events evaluation			•	•	•	•	•	•	•	•	•

NYHA = New York Heart Association, CCS = Canadian Cardiovascular Society, SAQ = Seattle Angina Questionnaire, MRI = Magnetic resonance imaging, MSC = Mesenchymal stromal cell, USPIO = Ultra-small paramagnetic iron-oxide

Table S3: Baseline Characteristics

Parameter	Data
Age (years)	62 ± 7
Sex (male)	5 (100)
BMI (kg/m ²)	28.7 ± 3.4
LVEF (%)	41.6 ± 6.6
NYHA Class	2.2 ± 0.4
CCS Class	1.8 ± 0.4
Previous MI	5 (100)
Previous PCI	5 (100)
Previous CABG	5 (100)
Diabetes	3 (60)
Hypertension	4 (80)

SD = standard deviation, BMI = body mass index, LVEF = left ventricular ejection fraction, NYHA = New York Heart Association, CCS = Canadian Cardiovascular Society, MI = myocardial Infarction, PCI = percutaneous coronary intervention, CABG = coronary artery by-pass grafting

Values are mean ± SD or number (%).

Table S4: Supplemental results

Parameter	Baseline	3 months	6 months	p-value
EDV (mL)	189 ± 29	184 ± 20	183 ± 21	0.55
ESV (mL)	111 ± 21	102 ± 19	90 ± 22	0.007
LVEF (%)	41.5 ± 6.7	44.6 ± 8.2	50.8 ± 9.4	0.015
SV (mL)	78 ± 17	82 ± 17	93 ± 18	0.07
CCS Class	1.8 ± 0.4	0.4 ± 0.5	0.2 ± 0.4	0.009
NYHA Class	2.2 ± 0.4	1.8 ± 0.8	1.6 ± 0.9	0.10
SAQ – QoL score	57 ± 19	65 ± 27	70 ± 22	0.14

EDV = end diastolic volume, ESV = end systolic volume, LVEF = left ventricular ejection fraction, SV = stroke volume, NYHA = New York Heart Association, CCS = Canadian Cardiovascular Society, SAQ = Seattle Angina Questionnaire, QoL = quality of life

All values are mean ± standard deviation.