

Supplemental Data Table 2. Cardiac MRI Assessment

Time Point (Days post MI)	Day 2				Day 14			
Treatment	--	+	+ -	++	--	+	+ -	++
End Diastolic Volume (mL)	77.3 +/-6.0	78.8 +/-6.5	75.4 +/-6.0	75.2 +/-6.0	80.9 +/-6.0	82.2 +/-6.5	72.1 +/-6.0	73.5 +/-6.0
End Systolic Volume (mL)	55.5 +/-4.3	49.1 +/-4.7	43.9 +/-4.3	45.4 +/-4.3	49.0 +/-4.3	44.1 +/-4.7	33.6 +/-4.3	38.3 +/-4.3
Stroke Volume (mL)	21.8 +/-3.3	29.6 +/-3.6	31.4 +/-3.3	29.8 +/-3.3	31.9 +/-3.3	38.2 +/-3.6	38.8 +/-3.3	35.2 +/-3.3
Cardiac Output (L/min)	2.1 +/-0.3	3.2 +/-0.4	2.8 +/-0.3	2.4 +/-0.3	2.9 +/-0.3	4.4 +/-0.4	4.0 +/-0.3	3.6 +/-0.3
Ejection Fraction (%)	27.7 +/-2.8	39.0 +/-3.1	42.0 +/-2.8	40.2 +/-2.8	39.2 +/-2.8	47.6 +/-3.1	53.9 +/-2.8	48.1 +/-2.8
Delta Ejection Fraction (%)	0	0	0	0	11.5 +/-2.5	8.6 +/-2.7	11.9 +/-2.5	8.0 +/-2.5
LV Mass End Diastolic (g)	87.5 +/-5.8	94.7 +/-6.4	87.4 +/-5.8	86.1 +/-5.8	87.5 +/-5.8	97.5 +/-6.4	91.3 +/-5.8	82.9 +/-5.8
LV Mass End Systolic (g)	89.5 +/-6.3	98.2 +/-6.9	90.2 +/-6.3	88.4 +/-6.3	91.7 +/-6.3	102.2 +/-6.9	95.3 +/-6.3	88.1 +/-6.3
Infarct Volume (mL)	21.3 +/-1.3	17.3 +/-1.5	18.8 +/-1.3	16.5 +/-1.3	10.7 +/-1.3	8.9 +/-1.5	8.7 +/-1.3	8.3 +/-1.3
% LV infarcted	24.6 +/-1.3	17.9 +/-1.5	21.6 +/-1.3	19.1 +/-1.3	12.5 +/-1.3	9.3 +/-1.5	9.5 +/-1.3	10.0 +/-1.3

Time Point (Days post MI)		Day 55			
Treatment	--	-+	+ -	++	p =
End Diastolic Volume (mL)	106.2 +/-6.0	97.7 +/-6.5	92.0 +/-6.0	100.3 +/-6.0	0.92
End Systolic Volume (mL)	56.0 +/-4.3	47.4 +/-4.7	40.6 +/-4.3	46.7 +/-4.3	0.99
Stroke Volume (mL)	50.2 +/-3.3	50.3 +/-3.6	51.4 +/-3.3	53.6 +/-3.3	0.84
Cardiac Output (L/min)	4.7 +/-0.3	5.3 +/-0.4	4.9 +/-0.3	5.2 +/-0.3	0.80
Ejection Fraction (%)	47.0 +/-2.8	51.4 +/-3.1	56.3 +/-2.8	53.8 +/-2.8	0.88
Delta Ejection Fraction (%)	19.4 +/-2.5	12.5 +/-2.7	14.4 +/-2.5	13.6 +/-2.5	0.80
LV Mass End Diastolic (g)	114.3 +/-5.8	123.9 +/-6.4	120.6 +/-5.8	113.5 +/-5.8	0.99
LV Mass End Systolic (g)	122.2 +/-6.3	131.5 +/-6.9	125.8 +/-6.3	117.8 +/-6.3	0.99
Infarct Volume (mL)	11.1 +/-1.3	11.6 +/-1.5	8.6 +/-1.3	8.6 +/-1.3	0.69
% LV infarcted	9.8 +/-1.3	9.4 +/-1.5	7.2 +/-1.3	7.6 +/-1.3	0.35

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Intravenous followed by Xray Fused with MRI Guided Transendocardial Mesenchymal Stem Cell Injection Improves Contractility Reserve in a Swine Model of Myocardial Infarction

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