

Supplemental information to:
**Assessment of myocardial fibrosis in mice using a T2*-weighted 3D
radial magnetic resonance imaging sequence**

Bastiaan J. van Nierop, Noortje A.M. Bax, Jules L. Nelissen, Fatih Arslan, Abdallah G. Motaal,
Larry de Graaf, Jaco J.M. Zwanenburg, Peter R. Luijten, Klaas Nicolay, Gustav J. Strijkers

Supplemental Table 1: General animal characteristics and global LV cardiac parameters determined from cine MRI of the cohort of control mice, post-MI mice and TAC mice.

| | Control | | MI | | TAC | |
|----------------------------|---------|-------|------|--------|------|--------|
| n | 10 | | 18 | | 12 | |
| HW [mg] | 156 | ± 17 | 181 | ± 29* | 252 | ± 72‡ |
| HW/TL [mg/mm] | 8.7 | ± 0.6 | 10.1 | ± 1.6* | 13.9 | ± 4.0‡ |
| LV mass [mg] | 85 | ± 9 | 109 | ± 22‡ | 135 | ± 33‡ |
| LV mass/TL [mg/mm] | 4.7 | ± 0.5 | 6.3 | ± 1.1‡ | 7.6 | ± 2.0‡ |
| LuW [mg] | 179 | ± 35 | 157 | ± 23 | 213 | ± 75 |
| LuW/TL [mg/mm] | 10.4 | ± 2.1 | 8.8 | ± 1.2 | 11.7 | ± 4.2 |
| HR [min ⁻¹] | 509 | ± 33 | 519 | ± 42 | 518 | ± 46 |
| Resp [min ⁻¹] | 81 | ± 12 | 79 | ± 10 | 83 | ± 9 |
| EF [%] | 61 | ± 7 | 33 | ± 14‡ | 42 | ± 18‡ |
| EDV [μl] | 68 | ± 11 | 125 | ± 47‡ | 108 | ± 38‡ |
| ESV [μl] | 27 | ± 7 | 89 | ± 48‡ | 68 | ± 42‡ |
| SV [μl] | 41 | ± 7 | 36 | ± 10 | 40 | ± 10 |
| CO [ml min ⁻¹] | 22 | ± 3 | 19 | ± 6* | 21 | ± 5 |

Listed parameters are: n = number of mice, HW = heart weight, HW/TL = heart weight normalized to tibia length, LV mass = left ventricular myocardial mass as determined using MRI, LV mass/TL is LV mass normalized to tibia length, LuW = lung weight, LuW/TL = lung weight normalized to tibia length, HR = heart rate, Resp = respiratory rate, EF = ejection fraction, EDV = end diastolic volume, ESV = end systolic volume, SV = stroke volume, CO = cardiac output. Statistical differences are indicated by * ($P < 0.05$), † ($P < 0.01$) and ‡ ($P < 0.001$).