**S1 Table: Estimated parameters from 17-segments myocardium kinetic modeling**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stress** | | | |  | **Rest** | | | |
| **Segment** | **F** | **k2** | **k3** | **Vb** |  | **F** | **k2** | **k3** | **Vb** |
| **Septal** |  |  |  |  |  |  |  |  |  |
| Apical\_septal | 1.74±0.75 | 0.35±0.16 | 0.06±0.04 | 0.32±0.17 |  | 0.89±0.23\*\* | 0.27±0.12\*\* | 0.06±0.05 | 0.24±0.12\*\* |
| Mid\_anteroseptal | 2.00±0.79 | 0.33±0.14 | 0.05±0.03 | 0.30±0.16 |  | 0.85±0.23\*\* | 0.17±0.08\*\* | 0.05±0.05 | 0.21±0.09\*\* |
| Mid\_inferoseptal | 1.87±0.75 | 0.31±0.15 | 0.04±0.03 | 0.28±0.16 |  | 0.88±0.24\*\* | 0.18±0.08\*\* | 0.04±0.04 | 0.16±0.09\*\* |
| Basal\_anteroseptal | 1.78±0.55 | 0.31±0.17 | 0.06±0.04 | 0.46±0.16 |  | 0.84±0.22\*\* | 0.23±0.13\*\* | 0.07±0.06\* | 0.32±0.12\*\* |
| Basal\_inferoseptal | 1.78±0.57 | 0.29±0.16 | 0.05±0.06 | 0.42±0.18 |  | 0.87±0.50\*\* | 0.22±0.10\*\* | 0.05±0.06 | 0.27±0.14\*\* |
| **Lateral** |  |  |  |  |  |  |  |  |  |
| Apical\_lateral | 2.13±0.74 | 0.40±0.18 | 0.05±0.03 | 0.26±0.17 |  | 0.82±0.22\*\* | 0.22±0.10\*\* | 0.04±0.03 | 0.09±0.08\*\* |
| Mid\_anterolateral | 2.36±0.96 | 0.37±0.19 | 0.05±0.03 | 0.39±0.22 |  | 0.88±0.24\*\* | 0.21±0.10\*\* | 0.04±0.03\* | 0.10±0.08\*\* |
| Mid\_inferolateral | 2.39±0.85 | 0.41±0.19 | 0.05±0.03 | 0.31±0.18 |  | 0.82±0.23\*\* | 0.21±0.10\*\* | 0.04±0.03 | 0.11±0.06\*\* |
| Basal\_anterolateral | 2.70±1.05 | 0.37±0.22 | 0.05±0.05 | 0.40±0.21 |  | 0.86±0.26\*\* | 0.23±0.12\*\* | 0.05±0.03 | 0.15±0.07\*\* |
| Basal\_inferolateral | 2.42±0.81 | 0.46±0.23 | 0.05±0.04 | 0.36±0.17 |  | 0.78±0.22\*\* | 0.240.10\*\* | 0.04±0.03 | 0.14±0.06\*\* |
| **Anterior** |  |  |  |  |  |  |  |  |  |
| Apical\_anterior | 1.86±0.70 | 0.37±0.14 | 0.04±0.03 | 0.21±0.15 |  | 0.85±0.23\*\* | 0.22±0.10\*\* | 0.04±0.04 | 0.13±0.09\*\* |
| Mid\_anterior | 1.97±0.71 | 0.36±0.15 | 0.04±0.03 | 0.25±0.16 |  | 0.88±0.23\*\* | 0.21±0.10\*\* | 0.05±0.04 | 0.14±0.09\*\* |
| Basal\_anterior | 1.84±0.55 | 0.32±0.14 | 0.05±0.04 | 0.32±0.16 |  | 0.81±0.22\*\* | 0.19±0.09\*\* | 0.04±0.04 | 0.17±0.08\*\* |
| **Inferior** |  |  |  |  |  |  |  |  |  |
| Apical\_inferior | 1.86±0.87 | 0.38±0.17 | 0.05±0.04 | 0.29±0.19 |  | 0.84±0.25\*\* | 0.23±0.10\*\* | 0.05±0.04 | 0.16±0.11\*\* |
| Mid\_inferior | 1.97±0.72 | 0.36±0.14 | 0.04±0.03 | 0.25±0.16 |  | 0.82±0.24\*\* | 0.21±0.14\*\* | 0.04±0.04 | 0.09±0.07\*\* |
| Basal\_inferior | 2.10±0.58 | 0.40±0.16 | 0.04±0.03 | 0.33±0.15 |  | 0.78±0.23\*\* | 0.22±0.10\*\* | 0.05±0.04 | 0.15±0.09\*\* |
| **Apex** | 1.77±0.72 | 0.41±0.18 | 0.04±0.03 | 0.24±0.14 |  | 0.90±0.26\*\* | 0.27±0.12\*\* | 0.05±0.04\*\* | 0.19±0.13\*\* |

Data are expressed as mean ± standard deviation.\**p*<0.05,\* *p*<0.01, compared with stress parameters.

F (ml/min/g): the transport rate constant from vascular space to myocardial tissue; k2 (min-1): the efflux rate constant from tissue to vascular space; k3 (min-1): the tracer metabolite rate constant trapped in tissue; Vb (ml/min/g): the fraction of blood volume in tissue.