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| Supplementary table 1. Fully adjusted Cox regression analysis of all-cause mortality |
| Variable | Change | LMR by tertiles | 　 | LMR as continuous variable (< 6.5) |
|  HR (95% CI)  | p value |  |  HR (95% CI)  | p value |
| Gender | female vs. male | 0.81 (0.39-1.66) | 0.561 | 　 | 1.26 (0.56-2.83) | 0.576 |
| Family history of SCD | yes vs. no | 2.06 (0.67-6.33) | 0.207 |  | 2.37 (0.75-7.46) | 0.141 |
| Syncope/pre-syncope | yes vs. no | 0.58 (0.28-1.18) | 0.130 |  | 0.59 (0.28-1.25) | 0.169 |
| Dyspnea | yes vs. no | 1.48 (0.70-3.14) | 0.301 |  | 1.07 (0.49-2.34) | 0.871 |
| Atrial fibrillation | yes vs. no | 1.66 (0.80-3.42) | 0.173 |  | 1.49 (0.70-3.21) | 0.302 |
| Resting LVOTG ≥ 30 mm Hg | yes vs. no | 1.69 (0.84-3.43) | 0.144 |  | 1.40 (0.67-2.94) | 0.373 |
| Age (years) | per 1-SD increase | 1.29 (0.91-1.82) | 0.154 |  | 1.45 (0.96-2.17) | 0.077 |
| Hemoglobin (g/L) | per 1-SD increase | 0.76 (0.55-1.05) | 0.096 |  | 0.85 (0.58-1.23) | 0.383 |
| TG (mmol/L) | per 1-SD increase | 0.69 (0.42-1.13) | 0.138 |  | 0.70 (0.44-1.12) | 0.136 |
| LDL-C (mmol/L) | per 1-SD increase | 0.66 (0.47-0.94) | 0.020\* |  | 0.64 (0.44-0.94) | 0.022\* |
| LA diameter (mm) | per 1-SD increase | 1.22 (0.87-1.71) | 0.244 |  | 1.36 (0.94-1.97) | 0.102 |
| MWT (mm) | per 1-SD increase | 1.21 (0.85-1.71) | 0.294 |  | 1.46 (1.00-2.15) | 0.052 |
| LVEF (%) | per 1-SD increase | 0.77 (0.55-1.06) | 0.107 |  | 0.71 (0.51-0.98) | 0.037\* |
| LMR | per 1-SD increase | - |  |  | 0.38 (0.21-0.68) | 0.001\* |
| LMR |  |   |   |  |  |  |
|  tertile 1 |  | Ref.  |  |  |  |  |
|  tertile 2 |  | 0.43 (0.20-0.91) | 0.027\* |  |  |  |
|  tertile 3 | 　 | 0.39 (0.17-0.90) | 0.028\* | 　 | 　 | 　 |

Abbreviations as in table 1.

\*: significant p values