***Admission ECG changes predict short term-mortality after acute myocardial infarction less reliable in patients with diabetes.***

Timo Schmitz1,2, Christian Thilo3, Jakob Linseisen2,4, Margit Heier5,6, Annette Peters6,7, Bernhard Kuch8\* Christa Meisinger2,4\*

1 MONIKA/KORA Myocardial Infarction Registry, University Hospital of Augsburg; 2Chair of Epidemiology, LMU München at UNIKA-T Augsburg; 3University Hospital of Augsburg, Department of Cardiology; 4 IRG Clinical Epidemiology, Helmholtz Zentrum München; 5University Hospital of Augsburg, KORA Study Centre, 6Institute of Epidemiology, Helmholtz Zentrum München; 7German Center for Diabetes Research (DZD) Neuherberg Germany, 8Department of Internal Medicine, Hospital Nördlingen, Germany

\*shared last authorship

Correspondence to: Timo Schmitz, t.schmitz@unika-t.de

***Supplementary material***

***Table 1: Results of the logistic regression model for 28-day mortality of AMI cases by ECG group and diabetes diagnosis, adjusted for sex and age (separate groups for ‘normal ECG’ and ‘unspecific changes’).***

|  |  |  |  |
| --- | --- | --- | --- |
| ECG | All CasesOR [95% CI] p-value | DiabetesOR [95% CI] p-value | Non-DiabetesOR [95% CI] p-value |
| STEMI |  1 |  | 1  |   |  1 |  |
| ST-depression | 1.48[1.08-2.02] | 0.014 | 1,77[1.10-2.87] | 0.02 | 1.24[0.81-1.89] | 0.321 |
| T-negativity | 0.76[0.52-1.09] | 0.138 | 0.8[0.43-1.47] | 0.473 | 0.73[0.46-1.17] | 0.19 |
| Unspecific changes | 1.08[0.80-1.45] | 0.615 | 1.52[0.96-2.40] | 0.074 | 0.81[0.55-1.22] | 0.315 |
| Normal ECG | 0.18[0.09-0.36] | < 0.001 | 0.31[0.12-0.81] | 0.017 | 0.12[0.04-0.33] | < 0.001 |
| Bundle branch block | 1.32[0.92-1.89] | 0.13 | 1.11[0.61-2.03] | 0.738 | 1.48[0.94-2.31] | 0.088 |

OR: odds ratio, 95% CI: 95% confidence interval

***Table 2: Results of the parsimonious logistic regression models\* for 28-day mortality of AMI cases by ECG group and diabetes diagnosis (separate groups for ‘normal ECG’ and ‘unspecific changes’).***

|  |  |  |  |
| --- | --- | --- | --- |
| ECG | All CasesOR [95% CI] p-value | DiabetesOR [95% CI] p-value | Non-DiabetesOR [95% CI] p-value |
| STEMI | 1 |  |  1 |   |  1 |  |
| ST-depression | 1.05[0.73-1.52] | 0.796 | 1.35 [0.76-2.41] | 0.309 | 0.84[0.51-1.4] | 0.509 |
| T-negativity | 0.81 [0.53-1.25] | 0.344  | 0.78 [0.38-1.61] | 0.496 | 0.86 [0.5-1.47] | 0.581 |
| Unspecific changes | 0.74 [0.51-1.07] | 0.107  | 1.02 [0.57-1.83] | 0.956 | 0.59 [0.36-0.97] | 0.039 |
| Normal ECG | 0.26 [0.12-0.58] | 0.001 | 0.38 [0.11-1.3] | 0.123 | 0.21 [0.07-0.61] | 0.004 |
| Bundle branch block | 0.91 [0.6-1.38] | 0.657 | 0.9 [0.45-1.8] | 0.773 | 0.87 [0.5-1.49] | 0.602 |

OR: odds ratio, 95% CI: 95% confidence interval

\* adjusted for sex, age, typical chest pain symptoms, smoking, hyperlipidemia, left-ventricular EF < 30%, impaired renal function (according to GFR), peak CK-MB levels, admission glucose levels, PCI