Predictive value of three Inflammation-based Glasgow Prognostic Scores for major cardiovascular adverse events in patients with acute myocardial infarction during hospitalization

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**Supplementary file 2 to the manuscript**

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# Appendix 1

## Statistics of missing value and extremesa

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | N | Mean | Std. Deviation | Missing | No. of Extremesa |
|  |  |  |  | Count | Percent | Low | High |
| Age | 188 | 68.21 | 14.887 | 0 | 0 | 0 | 0 |
| Hypertension | 188 | 0.72 | 0.451 | 0 | 0 | 0 | 0 |
| Diabetics | 188 | 0.43 | 0.496 | 0 | 0 | 0 | 0 |
| Hemoglobin | 188 | 125.95 | 26.826 | 0 | 0 | 2 | 0 |
| Platelet | 188 | 202.29 | 66.365 | 0 | 0 | 0 | 3 |
| ALT | 188 | 83.82 | 211.12 | 0 | 0 | 0 | 12 |
| CK | 188 | 1223.68 | 1695.864 | 0 | 0 | 0 | 12 |
| CKMB | 188 | 134.91 | 181.0902 | 0 | 0 | 0 | 14 |
| Albumin | 188 | 36.135 | 4.3573 | 0 | 0 | 2 | 0 |
| HS-CRP | 188 | 36.2287 | 55.04936 | 0 | 0 | 0 | 28 |
| LDL | 186 | 2.9675 | 1.02712 | 2 | 1.1 | 0 | 5 |
| Creatinine | 188 | 155.98 | 178.972 | 0 | 0 | 0 | 28 |
| BNP | 162 | 880.703 | 1235.7638 | 26 | 13.8 | 0 | 16 |
| TNI | 188 | 26.948 | 32.46986 | 0 | 0 | 0 | 15 |
| Heart rate | 188 | 80.76 | 17.731 | 0 | 0 | 0 | 6 |
| SBP | 188 | 130.51 | 25.779 | 0 | 0 | 0 | 1 |
| DBP | 188 | 74.16 | 13.059 | 0 | 0 | 2 | 2 |
| EF (Simpson) | 20 | 0.4574 | 0.094459 | 168 | 89.4 | 0 | 0 |
| EF (M) | 90 | 0.58672 | 0.095564 | 98 | 52.1 | 4 | 0 |
| D-dimer | 186 | 1.9945 | 4.82587 | 2 | 1.1 | 0 | 22 |
| Males | 188 |  |  | 0 | 0 |  |  |
| ST segment down | 188 |  |  | 0 | 0 |  |  |
| MACE | 188 |  |  | 0 | 0 |  |  |
| All-cause mortality  | 188 |  |  | 0 | 0 |  |  |
| Killip class | 188 |  |  | 0 | 0 |  |  |
| PCI type | 188 |  |  | 0 | 0 |  |  |
| a Number of cases outside the range (Q1 - 1.5\*IQR, Q3 + 1.5\*IQR). |

# Appendix 2

## ROC analysis of in-hospital MACE for subgroups

### In the STEMI group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the STEMI group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0473 |
| Standard Error a | 0.0279 |
| 95% Confidence Interval | -0.00739 to 0.102 |
| z statistic | 1.695 |
| Significance level | P = 0.0901 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0290 |
| Standard Error a | 0.0376 |
| 95% Confidence Interval | -0.0448 to 0.103 |
| z statistic | 0.770 |
| Significance level | P = 0.4413 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0183 |
| Standard Error a | 0.0456 |
| 95% Confidence Interval | -0.0710 to 0.108 |
| z statistic | 0.402 |
| Significance level | P = 0.6879 |

a DeLong et al., 1988

### In the NSTEMI group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the NSTEMI group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0166 |
| Standard Error a | 0.0198 |
| 95% Confidence Interval | -0.0222 to 0.0554 |
| z statistic | 0.839 |
| Significance level | P = 0.4014 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0428 |
| Standard Error a | 0.0259 |
| 95% Confidence Interval | -0.00802 to 0.0936 |
| z statistic | 1.650 |
| Significance level | P = 0.0989 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0262 |
| Standard Error a | 0.0405 |
| 95% Confidence Interval | -0.0532 to 0.106 |
| z statistic | 0.647 |
| Significance level | P = 0.5178 |

 a DeLong et al., 1988

### In the HTI-GPS group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the HTI-GPS group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.00526 |
| Standard Error a | 0.0102 |
| 95% Confidence Interval | -0.0147 to 0.0252 |
| z statistic | 0.516 |
| Significance level | P = 0.6056 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0504 |
| Standard Error a | 0.0299 |
| 95% Confidence Interval | -0.00818 to 0.109 |
| z statistic | 1.686 |
| Significance level | P = 0.0918 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0556 |
| Standard Error a | 0.0384 |
| 95% Confidence Interval | -0.0196 to 0.131 |
| z statistic | 1.449 |
| Significance level | P = 0.1474 |

 a DeLong et al., 1988

### In the LTI-GPS group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the LTI-GPS group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0956 |
| Standard Error a | 0.0448 |
| 95% Confidence Interval | 0.00778 to 0.183 |
| z statistic | 2.134 |
| Significance level | P = 0.0329 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0323 |
| Standard Error a | 0.0532 |
| 95% Confidence Interval | -0.0719 to 0.136 |
| z statistic | 0.607 |
| Significance level | P = 0.5439 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0633 |
| Standard Error a | 0.0648 |
| 95% Confidence Interval | -0.0638 to 0.190 |
| z statistic | 0.976 |
| Significance level | P = 0.3289 |

  a DeLong et al., 1988

### In the PPCI group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the PPCI group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0437 |
| Standard Error a | 0.0287 |
| 95% Confidence Interval | -0.0126 to 0.1000 |
| z statistic | 1.520 |
| Significance level | P = 0.1286 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0245 |
| Standard Error a | 0.0314 |
| 95% Confidence Interval | -0.0371 to 0.0861 |
| z statistic | 0.780 |
| Significance level | P = 0.4357 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0192 |
| Standard Error a | 0.0494 |
| 95% Confidence Interval | -0.0777 to 0.116 |
| z statistic | 0.388 |
| Significance level | P = 0.6981 |

 a DeLong et al., 1988

### In the EPCI group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the EPCI group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0333 |
| Standard Error a | 0.0298 |
| 95% Confidence Interval | -0.0250 to 0.0917 |
| z statistic | 1.120 |
| Significance level | P = 0.2628 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.0500 |
| Standard Error a | 0.106 |
| 95% Confidence Interval | -0.158 to 0.258 |
| z statistic | 0.472 |
| Significance level | P = 0.6369 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0833 |
| Standard Error a | 0.115 |
| 95% Confidence Interval | -0.143 to 0.309 |
| z statistic | 0.723 |
| Significance level | P = 0.4697 |

  a DeLong et al., 1988

### In the non-PCI group, three kinds of ROC curves of GPSs predicting MACEs



### Pairwise comparison of ROC curves in the non-PCI group

|  |
| --- |
| GPS ~ MGPS |
| Difference between areas  | 0.0237 |
| Standard Error a | 0.0173 |
| 95% Confidence Interval | -0.0102 to 0.0575 |
| z statistic | 1.371 |
| Significance level | P = 0.1704 |
| GPS ~ HS\_MGPS |
| Difference between areas  | 0.00148 |
| Standard Error a | 0.0257 |
| 95% Confidence Interval | -0.0489 to 0.0519 |
| z statistic | 0.0575 |
| Significance level | P = 0.9541 |
| MGPS ~ HS\_MGPS |
| Difference between areas  | 0.0222 |
| Standard Error a | 0.0296 |
| 95% Confidence Interval | -0.0358 to 0.0801 |
| z statistic | 0.750 |
| Significance level | P = 0.4530 |

 a DeLong et al., 1988