**SUPPLEMENTAL DIGITAL CONTENT**

**Figure.** Calibration graphs for ACS NSQIP risk calculator, NSQIP MICA risk calculator, and the RCRI.

**Table.** Weighted kappa analysis.



A



B C

**SDC Figure.** Calibration graphs for ACS NSQIP risk calculator, NSQIP MICA risk calculator, and the RCRI. The dashed line is the identity line representing perfect agreement between observed risk and predicted risk. The predicted risk of MACE is based on the (a) ACS NSQIP risk prediction tool, (b) the NSQIP MICA risk prediction tool, and (c) the RCRI.

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| **SDC Table 1a** |
|   | RCRI risk ≦ 1% | RCRI risk > 1% & ≦ 2% | RCRI risk > 2% & ≦ 3% | RCRI risk > 3% & ≦ 4% | RCRI risk > 4% |
| ACS NISQP risk ≦ 1% | 6,822 (80.7) | 0 | 0 | 0 | 152 (27.2) |
| ACS NISQP risk > 1% & ≦ 2% | 1,011 (12.0) | 0 | 0 | 0 | 152 (27.2) |
| ACS NISQP risk > 2% & ≦ 3% | 326 (3.9) | 0 | 0 | 0 | 103 (18.5) |
| ACS NISQP risk > 3% & ≦ 4% | 143 (1.7) | 0 | 0 | 0 | 61 (10.9) |
| ACS NISQP risk > 4% | 155 (1.8) | 0 | 0 | 0 | 90 (16.1) |

**Table 1a.** Agreement on the predicted risk distribution of patients using the ACS NSQIP risk calculator versus the RCRI. Because the RCRI predicts only four values for the risk of MACE - 0.4%, 0.9%, 6.6%, and 11% - the middle 2 columns of the table are empty.

( ) indicates percentage.

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| **SDC Table 1b** |
|   | RCRI risk ≦ 1% | RCRI risk > 1% & ≦ 2% | RCRI risk > 2% & ≦ 3% | RCRI risk > 3% & ≦ 4% | RCRI risk > 4% |
| NSQIP MICA risk ≦ 1% | 6,738 (79.7) | 0 | 0 | 0 | 223 (40.0) |
| NSQIP MICA risk > 1% & ≦ 2% | 1,307 (15.5) | 0 | 0 | 0 | 195 (35.0) |
| NSQIP MICA risk > 2% & ≦ 3% | 210 (2.5) | 0 | 0 | 0 | 51 (9.1) |
| NSQIP MICA risk > 3% & ≦ 4% | 106 (1.3) | 0 | 0 | 0 | 37 (6.6) |
| NSQIP MICA risk > 4% | 96 (1.1) | 0 | 0 | 0 | 52 (9.3) |

**Table 1b.** Agreement on the predicted risk distribution of patients using the NSQIP MICA risk calculator versus the RCRI. Because the RCRI predicts only four values for the risk of MACE - 0.4%, 0.9%, 6.6%, and 11% - the middle 2 columns of the table are empty.

( ) indicates percentage.

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| **SDC Table 1c** |
|   | NSQIP MICA risk ≦ 1% | NSQIP MICA risk > 1% & ≦ 2% | NSQIP MICA risk > 2% & ≦ 3% | NSQIP MICA risk > 3% & ≦ 4% | NSQIP MICA risk > 4% |
| ACS NISQP risk ≦ 1% | 6,331 (91.0) | 557 (37.1) | 59 (22.6) | 19 (13.3) | 8 (5.4) |
| ACS NISQP risk > 1% & ≦ 2% | 528 (7.6) | 514 (34.2) | 91 (34.9) | 15 (10.5) | 15 (10.1) |
| ACS NISQP risk > 2% & ≦ 3% | 80 (1.2) | 256 (17.0) | 45 (17.2) | 32 (22.4) | 16 (10.8) |
| ACS NISQP risk > 3% & ≦ 4% | 10 (0.1) | 110 (7.3) | 33 (12.6) | 27 (18.9) | 24 (16.2) |
| ACS NISQP risk > 4% | 12 (0.2) | 65 (4.3) | 33 (12.6) | 50 (35.0) | 85 (57.4) |

**SDC Table 1c.** Agreement on the predicted risk distribution of patients using the ACS NSQIP risk calculator versus the NSQIP MICA risk calculator.

( ) indicates percentage.