```
1. Postoperative Respiratory/Cardiac Events, 500 resamples

            index.orig      training         test      optimism index.corrected
Dxy         0.577493687   0.598066095   0.563564394   0.034501701      0.542991986
R2          0.290004214   0.314974115   0.272034114   0.042940001      0.247064213
Intercept   0.000000000   0.000000000  -0.099240550   0.099240550     -0.099240550
Slope       1.000000000   1.000000000   0.913120405   0.086879595      0.913120405
Emax        0.000000000   0.000000000   0.038245264   0.038245264      0.038245264
D           0.174710311   0.192243140   0.162679913   0.029563227      0.145147084
U          -0.008888889  -0.008888889   0.003566820  -0.012455708      0.003566820
Q           0.183599200   0.201132029   0.159113093   0.042018935      0.141580265
B           0.095350470   0.092036245   0.098624734  -0.006588489      0.101938959


Logistic Regression Model (lrm):

lrm(formula = RESP_CAR ~ WEIGHT10 + ASA34 + PRBC60 + INTRAOP_,
    x = TRUE, y = TRUE)


Frequencies of Responses:
  0    1
192   33

      Obs   Max Deriv  Model L.R.       d.f.          P           C         Dxy
      225      8e-10       40.31          4           0        0.789       0.577
    Gamma      Tau-a          R2       Brier
    0.628      0.145        0.29       0.095

          Coef   S.E.    Wald Z  P
Intercept -3.676 0.5212  -7.05   0.0000
WEIGHT10   0.979 0.4899   2.00   0.0457
ASA34      1.633 0.4656   3.51   0.0005
PRBC60     1.825 0.5165   3.53   0.0004
INTRAOP_   1.260 0.4611   2.73   0.0063


2. Postoperative Hematological Events, 500 resamples

            index.orig      training         test      optimism index.corrected
Dxy         0.566975250   0.570139926   0.556082751   0.014057175      0.552918075
R2          0.357850705   0.373261467   0.340113260   0.033148208      0.324702498
Intercept   0.000000000   0.000000000  -0.084359920   0.084359920     -0.084359920
Slope       1.000000000   1.000000000   0.909064501   0.090935499      0.909064501
Emax        0.000000000   0.000000000   0.036188924   0.036188924      0.036188924
D           0.285887063   0.301766915   0.269475572   0.032291343      0.253595721
```

```
U            -0.008888889 -0.008888889  0.009417573 -0.018306461      0.009417573
Q             0.294775952  0.310655804  0.260058000  0.050597804      0.244178148
B             0.147014522  0.143521440  0.150969092 -0.007447652      0.154462174
```

Logistic Regression Model (lrm):

```
lrm(formula = HEMATOLO ~ WEIGHT10 + PRBC60 + HEMOSTAT + TXA_NOT,
    x = TRUE, y = TRUE)
```

Frequencies of Responses:
```
  0    1
158   67
```

```
       Obs  Max Deriv Model L.R.      d.f.          P          C          Dxy
       225      2e-07      65.32         4          0      0.783        0.567
     Gamma      Tau-a         R2     Brier
     0.654      0.238      0.358     0.147
```

```
          Coef    S.E.   Wald Z  P
Intercept -2.1193 0.3133 -6.76   0.0000
WEIGHT10   0.7609 0.3586  2.12   0.0339
PRBC60     2.2193 0.6134  3.62   0.0003
HEMOSTAT   1.6611 0.6824  2.43   0.0149
TXA_NOT    0.9602 0.3518  2.73   0.0063
```

Glossary of terms:

Dxy = Somers' statistic indicating the difference between concordance and discordance probabilities, where Dxy of 0 reflects a model making random predictions and Dxy of 1 a model where the predictions are perfectly discriminating.

Emax = Emax is the maximum absolute calibration error on a probability scale.

R2 = Nagelkerke index or predictive strength of the model.

D = Discrimination.

U = Unreliability.

Q = Quality (Q = D – U).

B = Brier's index or score assessing the performance of the predictive model, with a Brier's score of 0 being best score achievable and a score of 1 indicating the worst score achievable.

C = predictive accuracy or c-index (analogous to area under the curve).

LR = global log likelihood ratio statistic for testing the importance of predictors in the model.

Optimism = a derived measure of over-fitting of the predictive logistic regression model based on bootstrapping

validation.

Index corrected = measure of corrected performance of the original model.

L.R. = likelihood ratio test statistic.

d.f. = degrees of freedom.

C = concordance statistic or discriminative ability of the model.

Coef = coefficient.

S.E. = standard error.

Wald = test statistic for assessing whether the predictor or set of predictors is significant where Z is the Coef/S.E.

gamma = gamma distribution used in the bootstrap resampling method.

tau-a = Kendall's measure of concordance.

RESP_CAR = Postoperative cardiorespiratory event (as defined in text of the article).

HEMATOLO = Postoperative hematological event (as defined in text of the article).

WEIGHT10 = body weight < 10kg

ASA34 = ASA status 3 or 4.

PRBC60 = packed erythrocyte transfusion > 60 ml/kg.

INTRAOP = intraoperative complication (as defined in appendix 1 of the article).

TXA_NOT = tranexamic acid not administered.