

**Supplementary Table S1. Comprehensive multivariable logistic regression parameters, omnibus likelihood ratio tests, and model fit measures for clinical and laboratory predictors of acute pathological CT findings (N=166).**

Model Fit Measures

| Model | Deviance | AIC     | BIC     | $R^2_N$ | Overall Model Test |    |       |
|-------|----------|---------|---------|---------|--------------------|----|-------|
|       |          |         |         |         | $\chi^2$           | df | p     |
| 1     | 121.742  | 165.742 | 234.206 | 0.452   | 59.257             | 21 | <.001 |

Note. Models estimated using sample size of N=166.

Omnibus Likelihood Ratio Tests

| Predictor          | $\chi^2$ | df | p     |
|--------------------|----------|----|-------|
| Age                | 2.024    | 1  | 0.155 |
| Tenderness         | 4.474    | 1  | 0.034 |
| Care-Dependent     | 5.288    | 1  | 0.021 |
| SpO <sub>2</sub>   | 3.838    | 1  | 0.050 |
| DM                 | 0.238    | 1  | 0.626 |
| CHF                | 0.028    | 1  | 0.868 |
| History of TIA/CVA | 0.000    | 1  | 1.000 |
| CAD                | 5.890    | 1  | 0.015 |
| GCS-               | 7.506    | 1  | 0.006 |
| RBC                | 0.980    | 1  | 0.322 |
| HGB                | 0.970    | 1  | 0.325 |
| ALT                | 4.832    | 1  | 0.028 |
| BUN                | 0.223    | 1  | 0.637 |
| Creatinine         | 1.757    | 1  | 0.185 |
| Total Bilirubin    | 0.039    | 1  | 0.843 |
| Direct Bilirubin   | 0.143    | 1  | 0.706 |
| Troponin T         | 0.380    | 1  | 0.538 |
| ALP                | 0.097    | 1  | 0.756 |
| GGT                | 2.324    | 1  | 0.127 |
| pH                 | 0.078    | 1  | 0.780 |
| BE                 | 0.507    | 1  | 0.476 |

## Model Coefficients - Acute Pathological CT Findings

| Predictor           | Estimate | SE       | Z      | p     | Odds Ratio | 95% Confidence Interval |                        |
|---------------------|----------|----------|--------|-------|------------|-------------------------|------------------------|
|                     |          |          |        |       |            | Lower                   | Upper                  |
| Intercept           | -17.283  | 34.936   | -0.495 | 0.621 | 0.000      | 0.000                   | 1.7041102897743323e+22 |
| Age                 | -0.049   | 0.035    | -1.393 | 0.163 | 0.952      | 0.889                   | 1.020                  |
| Tenderness:         |          |          |        |       |            |                         |                        |
| Yes – No            | 1.050    | 0.504    | 2.085  | 0.037 | 2.859      | 1.065                   | 7.673                  |
| Care-Dependent:     |          |          |        |       |            |                         |                        |
| Yes – No            | -1.863   | 0.904    | -2.060 | 0.039 | 0.155      | 0.026                   | 0.913                  |
| SpO <sub>2</sub>    | 0.116    | 0.064    | 1.811  | 0.070 | 1.123      | 0.991                   | 1.272                  |
| DM:                 |          |          |        |       |            |                         |                        |
| Yes – No            | -0.265   | 0.545    | -0.486 | 0.627 | 0.767      | 0.264                   | 2.231                  |
| CHF:                |          |          |        |       |            |                         |                        |
| Yes – No            | 0.100    | 0.600    | 0.166  | 0.868 | 1.105      | 0.341                   | 3.585                  |
| History of TIA/CVA: |          |          |        |       |            |                         |                        |
| Yes – No            | 0.000    | 0.594    | 0.000  | 1.000 | 1.000      | 0.312                   | 3.206                  |
| CAD:                |          |          |        |       |            |                         |                        |
| Yes – No            | -1.401   | 0.599    | -2.339 | 0.019 | 0.246      | 0.076                   | 0.797                  |
| GCS-:               |          |          |        |       |            |                         |                        |
| 0 – 1               | -24.505  | 1422.370 | -0.017 | 0.986 | 0.000      | 0.000                   | Inf                    |
| RBC                 | 0.557    | 0.562    | 0.991  | 0.322 | 1.745      | 0.580                   | 5.252                  |
| HGB                 | -0.188   | 0.191    | -0.987 | 0.324 | 0.828      | 0.570                   | 1.204                  |
| ALT                 | 0.010    | 0.005    | 1.789  | 0.074 | 1.010      | 0.999                   | 1.020                  |
| BUN                 | 0.008    | 0.017    | 0.478  | 0.633 | 1.008      | 0.976                   | 1.042                  |
| Creatinine          | -0.567   | 0.452    | -1.256 | 0.209 | 0.567      | 0.234                   | 1.375                  |
| Total Bilirubin     | -0.117   | 0.589    | -0.199 | 0.843 | 0.890      | 0.281                   | 2.820                  |
| Direct Bilirubin    | -0.327   | 0.882    | -0.371 | 0.711 | 0.721      | 0.128                   | 4.062                  |
| Troponin T          | -0.001   | 0.002    | -0.576 | 0.565 | 0.999      | 0.995                   | 1.003                  |
| ALP                 | -0.001   | 0.005    | -0.310 | 0.757 | 0.999      | 0.990                   | 1.007                  |
| GGT                 | 0.004    | 0.003    | 1.391  | 0.164 | 1.004      | 0.998                   | 1.011                  |
| pH                  | 1.307    | 4.675    | 0.280  | 0.780 | 3.695      | 0.000                   | 35221.234              |
| BE                  | -0.052   | 0.074    | -0.709 | 0.478 | 0.949      | 0.821                   | 1.097                  |

Note. Estimates represent the log odds of "Acute Pathological CT Findings = Yes" vs. "Acute Pathological CT Findings = No".

## Assumption Checks

Collinearity Statistics

|                    | VIF    | Tolerance |
|--------------------|--------|-----------|
| Age                | 1.421  | 0.704     |
| Tenderness         | 1.237  | 0.809     |
| Care-Dependent     | 1.232  | 0.812     |
| SpO_2              | 1.209  | 0.827     |
| DM                 | 1.395  | 0.717     |
| CHF                | 1.384  | 0.723     |
| History of TIA/CVA | 1.178  | 0.849     |
| CAD                | 1.667  | 0.600     |
| GCS-               | 1.000  | 1.000     |
| RBC                | 5.384  | 0.186     |
| HGB                | 5.415  | 0.185     |
| ALT                | 1.752  | 0.571     |
| BUN                | 3.461  | 0.289     |
| Creatinine         | 4.114  | 0.243     |
| Total Bilirubin    | 12.490 | 0.080     |
| Direct Bilirubin   | 12.517 | 0.080     |
| Troponin T         | 1.184  | 0.844     |
| ALP                | 3.439  | 0.291     |
| GGT                | 2.691  | 0.372     |
| pH                 | 2.989  | 0.335     |
| BE                 | 3.177  | 0.315     |

## Prediction

Classification Table

| Observed | Predicted |     | % Correct |
|----------|-----------|-----|-----------|
|          | No        | Yes |           |
| No       | 122       | 5   | 96.063    |
| Yes      | 22        | 17  | 43.590    |

Note. The cut-off value is set to 0.5.

Predictive Measures

| Accuracy | Specificity | Sensitivity | AUC   |
|----------|-------------|-------------|-------|
| 0.837    | 0.961       | 0.436       | 0.866 |

Note. The cut-off value is set to 0.5.

**Figure S1:** ROC curve for the comprehensive multivariable model (N = 166).

