

ACS Validation

|                | threshold | auc               | acc               | sensitivity       | specificity       | ppv    | npv              | mcnemar           | chisquare        | calib_pvalue      | brier              | logloss           |
|----------------|-----------|-------------------|-------------------|-------------------|-------------------|--------|------------------|-------------------|------------------|-------------------|--------------------|-------------------|
| ACS Raw        | 0.797     | 0.920813269127874 | 0.945619335347432 | 0.972712680577849 | 0.512820512820513 | 0.9696 | 0.54054054054054 | 0.867632334778193 | 330.771623722221 | 0                 | 0.139069250755287  | 0.433887698558795 |
| ACS Calibrated | 0.377     | 0.920813269127874 | 0.945619335347432 | 0.972712680577849 | 0.512820512820513 | 0.9696 | 0.54054054054054 | 0.867632334778193 | 8.48507656396771 | 0.387574822705731 | 0.0417569880758899 | 0.14886723495668  |

STEMI Validation

|                  | threshold | auc               | acc               | sensitivity       | specificity       | ppv               | npv               | mcnemar           | chisquare        | calib_pvalue      | brier              | logloss           |
|------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|--------------------|-------------------|
| STEMI Raw        | 0.791     | 0.905733361593895 | 0.931506849315068 | 0.958456973293769 | 0.607142857142857 | 0.967065868263473 | 0.548387096774194 | 0.689156516779352 | 195.306125535528 | 0                 | 0.154578057534247  | 0.473284203199497 |
| STEMI Calibrated | 0.382     | 0.905733361593895 | 0.931506849315068 | 0.958456973293769 | 0.607142857142857 | 0.967065868263473 | 0.548387096774194 | 0.689156516779352 | 10.4148873217749 | 0.237104705479458 | 0.0529864508131737 | 0.186025263398235 |

NSTEMI Validation

|                   | threshold | auc               | acc              | sensitivity       | specificity       | ppv               | npv               | mcnemar | chisquare        | calib_pvalue      | brier              | logloss           |
|-------------------|-----------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------|------------------|-------------------|--------------------|-------------------|
| NSTEMI Raw        | 0.828     | 0.948347107438017 | 0.96969696969697 | 0.986013986013986 | 0.545454545454545 | 0.982578397212543 | 0.600000000000001 | 1       | 152.803073696499 | 0                 | 0.132588434343434  | 0.4170398599915   |
| NSTEMI Calibrated | 0.539     | 0.948347107438017 | 0.96969696969697 | 0.986013986013986 | 0.545454545454545 | 0.982578397212543 | 0.600000000000001 | 1       | 9.99609023815991 | 0.265300436844378 | 0.0307481224989084 | 0.113863811320537 |

TIMI STEMI Validation

|                       | threshold | auc               | acc               | sensitivity       | specificity       | ppv               | npv               | mcnemar           | chisquare        | calib_pvalue         | brier             | logloss           |
|-----------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|-------------------|-------------------|
| TIMI STEMI Raw        | 0.394     | 0.827119476268413 | 0.783561643835616 | 0.817021276595745 | 0.723076923076923 | 0.842105263157895 | 0.686131386861314 | 0.499642257652356 | 5.87534452464597 | 0.661192862991145    | 0.159367098630137 | 0.484164544014466 |
| TIMI STEMI Calibrated | 0.569     | 0.827119476268413 | 0.783561643835616 | 0.817021276595745 | 0.723076923076923 | 0.842105263157895 | 0.686131386861314 | 0.499642257652356 | 49.1874184593068 | 5.85291592969384E-08 | 0.179792175827961 | 0.546440359420766 |

TIMI NSTEMI Validation

|                        | threshold | auc               | acc               | sensitivity       | specificity       | ppv               | npv   | mcnemar              | chisquare        | calib_pvalue         | brier             | logloss           |
|------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|----------------------|------------------|----------------------|-------------------|-------------------|
| TIMI NSTEMI Raw        | 0.085     | 0.588011695906433 | 0.343434343434343 | 0.191666666666667 | 0.982456140350877 | 0.978723404255319 | 0.224 | 5.13496799082487E-43 | 80.5184511137961 | 3.84137166520304E-14 | 0.202884730639731 | 0.598767939660856 |
| TIMI NSTEMI Calibrated | 0.144     | 0.588011695906433 | 0.343434343434343 | 0.191666666666667 | 0.982456140350877 | 0.978723404255319 | 0.224 | 5.13496799082487E-43 | 16.4667996010492 | 0.0361657514678473   | 0.154753296847504 | 0.487745366292889 |

Performance on Testing Dataset

|                        | threshold | auc               | acc               | sensitivity       | specificity       | ppv               | npv               | mcnemar              | chisquare        | calib_pvalue      | brier              | logloss           |
|------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|------------------|-------------------|--------------------|-------------------|
| ACS Raw Test           | 0.795     | 0.90592637540453  | 0.928733031674208 | 0.962378640776699 | 0.466666666666667 | 0.961212121212121 | 0.47457627118644  | 1                    | 403.712465534869 | 0                 | 0.135375679864253  | 0.422272579783646 |
| ACS Calibrated Test    | 0.374     | 0.90592637540453  | 0.928733031674208 | 0.962378640776699 | 0.466666666666667 | 0.961212121212121 | 0.47457627118644  | 1                    | 6.74672525491023 | 0.564189396596572 | 0.0485223154365064 | 0.168110777588843 |
| STEMI Raw Test         | 0.583     | 0.874421052631581 | 0.848543689320388 | 0.856842105263158 | 0.75              | 0.976019184652278 | 0.306122448979592 | 1.08950846556959E-10 | 269.615119426053 | 0                 | 0.155924842718447  | 0.476617709788164 |
| STEMI Calibrated Test  | 0.16      | 0.874421052631581 | 0.848543689320388 | 0.856842105263158 | 0.75              | 0.976019184652278 | 0.306122448979592 | 1.08950846556959E-10 | 6.67113983877224 | 0.572493528848772 | 0.0595398717388936 | 0.204302175670797 |
| NSTEMI Raw Test        | 0.793     | 0.952936962750717 | 0.962059620596206 | 0.98567335243553  | 0.55              | 0.974504249291785 | 0.6875            | 0.422678074170635    | 134.940459064375 | 0                 | 0.106695953929539  | 0.346425040617449 |
| NSTEMI Calibrated Test | 0.473     | 0.952936962750717 | 0.962059620596206 | 0.98567335243553  | 0.55              | 0.974504249291785 | 0.6875            | 0.422678074170635    | 4.50833058534901 | 0.808599080536892 | 0.0339161313337111 | 0.119150172063587 |

TIMI Performance on Testing Dataset

|                             | threshold | auc               | acc               | sensitivity       | specificity       | ppv               | npv                | mcnemar              | chisquare        | calib_pvalue        | brier             | logloss           |
|-----------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------|------------------|---------------------|-------------------|-------------------|
| TIMI STEMI Raw Test         | 0.249     | 0.810914979757085 | 0.70873786407767  | 0.587692307692308 | 0.91578947368421  | 0.922705314009662 | 0.564935064935065  | 1.25981730906141E-21 | 21.8150301499177 | 0.0052702971631422  | 0.172920617475728 | 0.511692397489748 |
| TIMI STEMI Calibrated Test  | 0.38      | 0.810914979757085 | 0.70873786407767  | 0.587692307692308 | 0.91578947368421  | 0.922705314009662 | 0.564935064935065  | 1.25981730906141E-21 | 88.9668906103176 | 7.7715611723761E-16 | 0.191883792198395 | 0.578870143247008 |
| TIMI NSTEMI Raw Test        | 0.058     | 0.583703563663862 | 0.344173441734417 | 0.194630872483221 | 0.971830985915493 | 0.966666666666667 | 0.223300970873787  | 2.07326847472068E-52 | 125.915409551158 | 0                   | 0.206065387533875 | 0.610048868579425 |
| TIMI NSTEMI Calibrated Test | 0.142     | 0.583703563663862 | 0.336043360433604 | 0.184563758389262 | 0.971830985915493 | 0.964912280701754 | 0.2211153846153846 | 4.59964527482135E-53 | 20.3147713757967 | 0.00920855790140673 | 0.155710010907557 | 0.490719323682503 |