

Hosmer Lemeshow Test

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

All Calibrated model showing significant improvement where the p-value is higher than the 0.05 significance level, lower brier score and log loss. However the discrimination of the model remains the same.

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

TIMI Calibrated Model does not show any significant improvement after calibration where the p-value is still lower than the 0.05 significant level, and little or no difference in brier score and log loss.

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

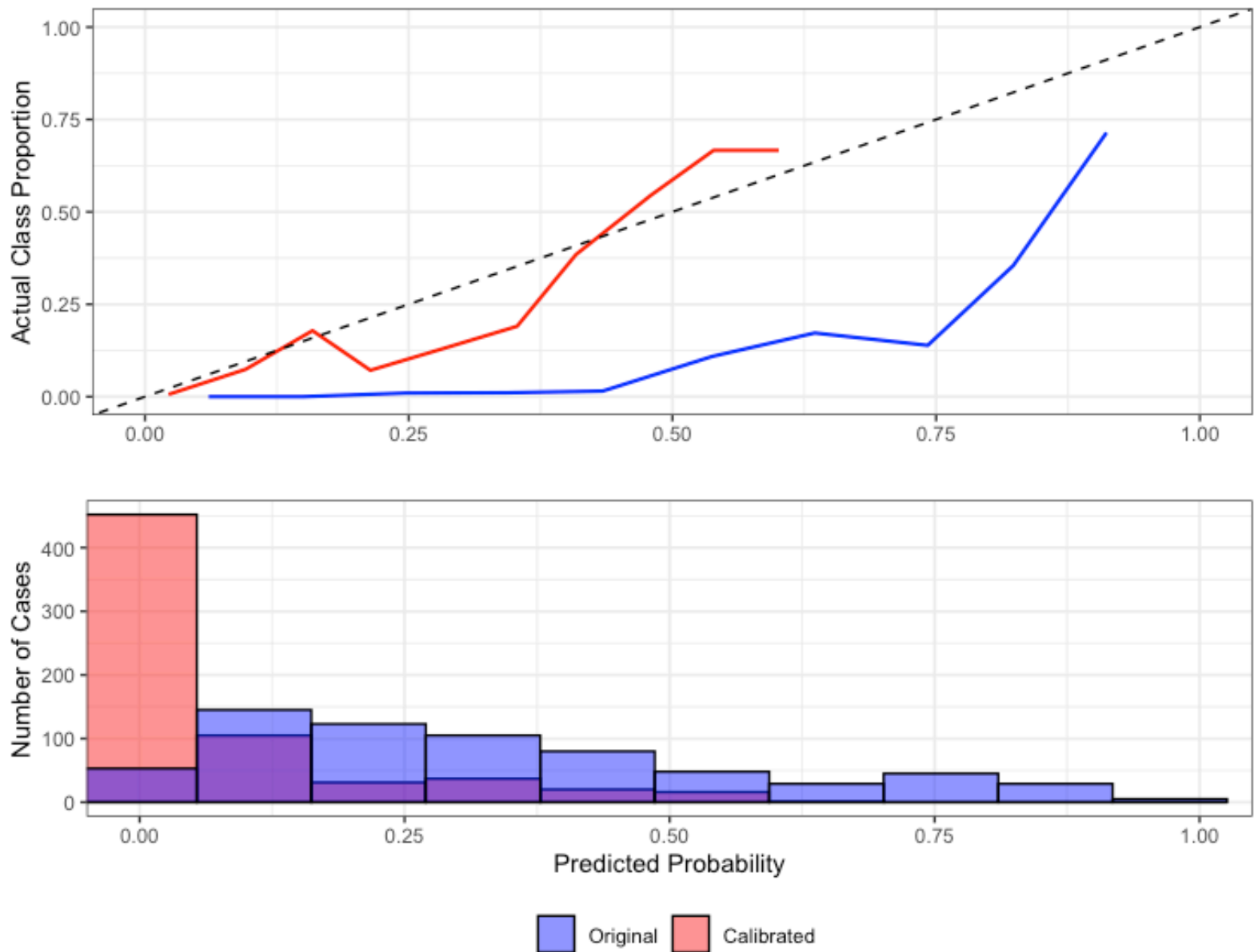
All Calibrated model showing significant improvement where the p-value is higher than the 0.05 significance level, lower brier score and log loss. However the discrimination of the model remains the same.

TIMI Performance on Testing Dataset

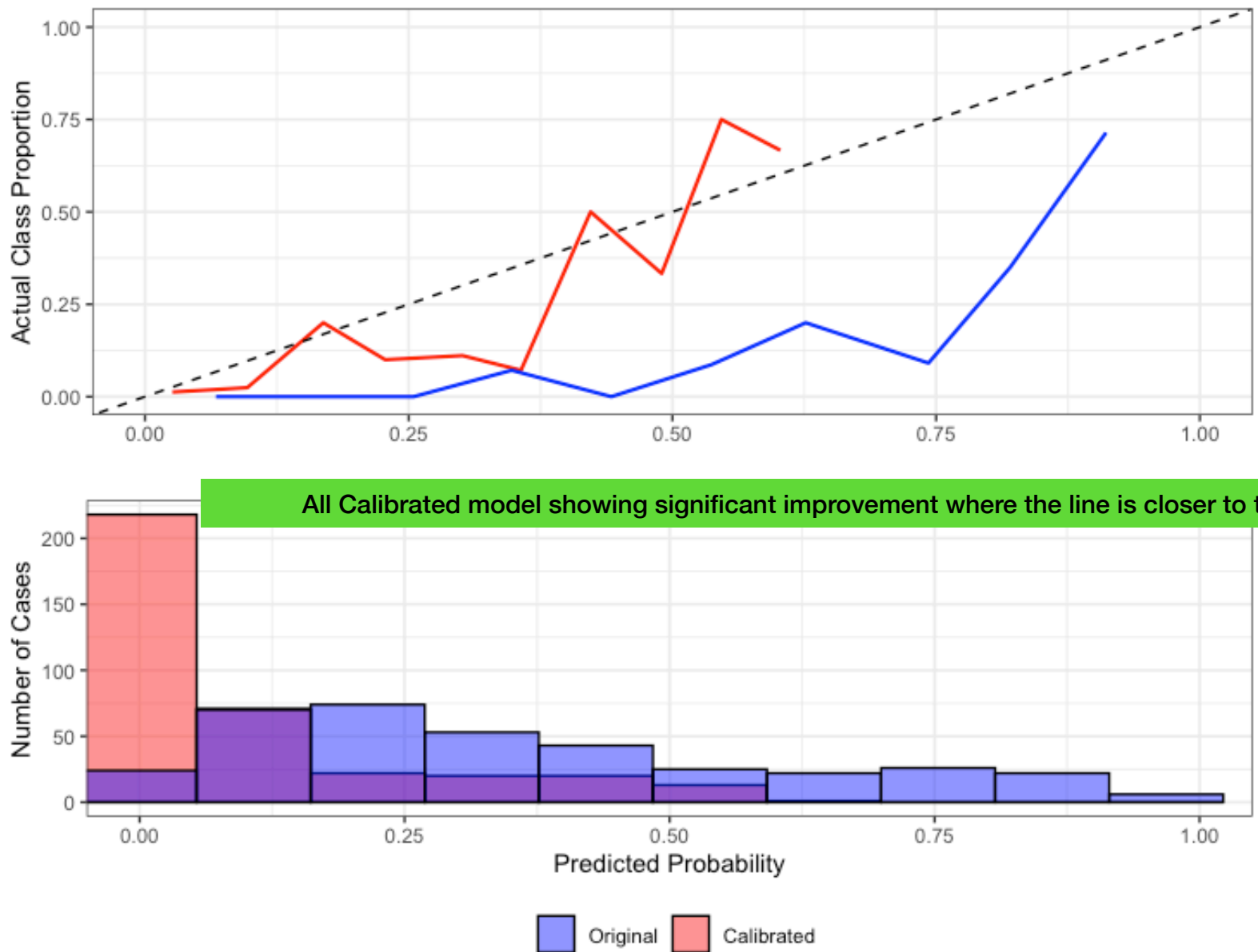
	threshold	auc	acc	sensitivity	specificity	ppv	npv	mcnemar	chisquare	calib_pvalue	brier	logloss
TIMI STEMI Raw Test	0.249	0.810914979757085	0.70873786407767	0.587692307692308	0.91578947368421	0.922705314009662	0.564935064935065	1.25981730906141E-21	21.8150301499177	0.0052702971631422	0.172920617475728	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	0.610048688579425
TIMI NSTEMI Calibrated Test	0.142	0.583703563663862	0.336043360433604	0.184563758389262	0.971830985915493	0.964912280701754	0.221153846153846	4.59964527482135E-53	20.3147713757967	0.00920855790140673	0.155710010907557	0.490719323682503

TIMI Calibrated Model does not show any significant improvement after calibration where the p-value is still lower than the 0.05 significant level, and little or no difference in brier score and log loss.

Raw vs Calibrated Calibration Plot



STEMI Raw vs Calibrated Calibration Plot



NSTEMI Raw vs Calibrated Calibration Plot

