## CALIBRATION AND DISCRIMINATION TESTING

FIGURE 1 shows the distribution of predicted values (probabilities) from the risk-adjustment model.

Minimum = 0.00002043 = 0.0024%

25<sup>th</sup> percentile = 0.00008826 = 0.0088%

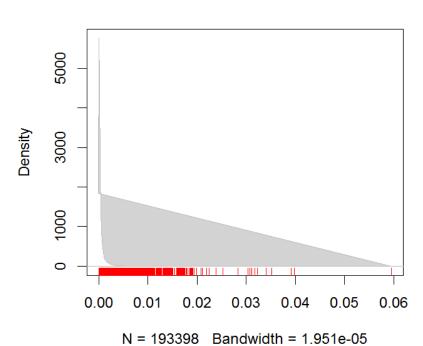
Median = 0.0001766 = 0.018%

Mean = 0.0004447 = 0.044%

75<sup>th</sup> percentile = 0.0004197 = 0.042%

Maximum = 0.05952 = 5.95%

## **Pred**



ROC - P: 25, N: 57994

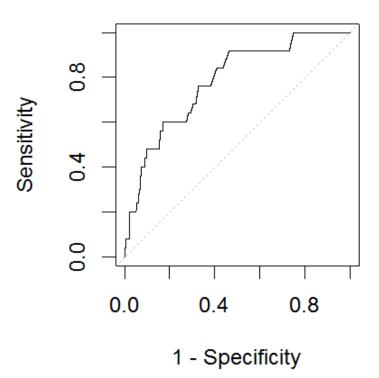
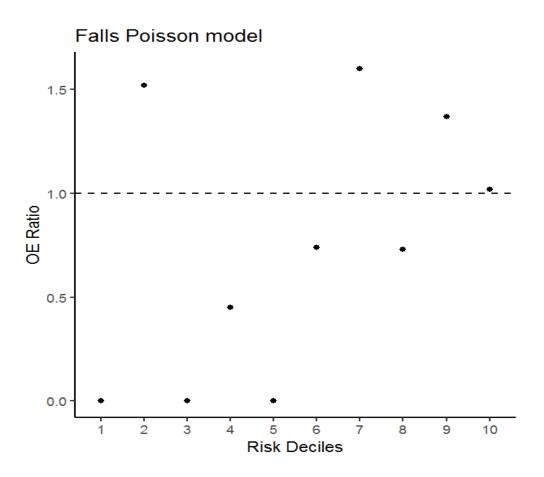


FIGURE 3 shows the Hosmer-Lemeshow decile calibration plot from the final risk-adjustment model. The results are unstable due to a small number of observed events (num\_obs) and expected events (num\_exp) in all of the bottom five deciles.



	decile	o_e_ratio	num_obs		numrecs
	<int></int>	<db1></db1>	<int></int>	<db1></db1>	<int></int>
1	1	0	0	0.840	<u>19</u> 340
2	2	1.52	2	1.32	<u>19</u> 340
3	3	0	0	1.72	<u>19</u> 340
4	4	0.45	1	2.23	<u>19</u> 340
5	5	0	0	2.95	<u>19</u> 339
6	6	0.74	3	4.04	<u>19</u> 340
7	7	1.6	9	5.62	<u>19</u> 340
8	8	0.73	6	8.24	<u>19</u> 340
9	9	1.37	19	13.9	<u>19</u> 340
10	10	1.02	46	45.1	<u>19</u> 339

Decile	Event rate	% of	
		events	
1	0.0000%	0.0%	
2	0.0103%	2.3%	
3	0.0000%	0.0%	
4	0.0052%	1.2%	
5	0.0000%	0.0%	
6	0.0155%	3.5%	
7	0.0465%	10.5%	
8	0.0310%	7.0%	
9	0.0982%	22.1%	
10	0.2378%	53.5%	

FIGURE 4 shows the calibration band plot from the final risk-adjustment model. The results are constrained by the maximum expected value of 0.05952 = 5.95%, but the null hypothesis of perfect calibration is not rejected at the p<0.05 level (i.e., p=0.052).

## Falls calibration (Poisson)

