Table 1: Comparison of Classification Models (Top 50 Minimum 1 Week)

	Accuracy	Sensitivity	Specificity	AUC	Brier Score	Best Threshold
Logit	0.5897	0.0809	0.8881	0.5331	0.0000	0.3474
LDA	0.3697	1.0000	0.0000	0.5305	0.0170	0.4192
QDA	0.4829	0.5780	0.4271	0.5074	0.0153	0.5934
KNN(5)	0.5833	0.3931	0.6949	0.5724	0.0007	0.4500
SVM Linear	0.6303	0.0000	1.0000			
SVM Poly	0.6111	0.0636	0.9322			
SVM Radial	0.6303	0.0000	1.0000			
Tree	0.5363	0.3931	0.6203	0.5279	0.0170	0.9375
Pruned Tree (20)	0.5491	0.3006	0.6949	0.5186	0.0000	0.4615
Bagged Tree	0.6068	0.2428	0.8203	0.5590	0.0011	0.3630
Random Forest	0.6303	0.2543	0.8508	0.5597	0.0011	0.3870

Prior Frequencies in Test Set for class Target [0.3696581, 0.6303419]

Table 2: Comparison of Classification Models (Top 50 Minimum 2 Weeks)

	Accuracy	Sensitivity	Specificity	AUC	Brier Score	Best Threshold
Logit	0.8034	0.0000	1.0000	0.4790	0.0000	0.1778
LDA	0.8034	0.0000	1.0000	0.5549	0.0921	0.1836
QDA	0.7671	0.0761	0.9362	0.5519	0.0104	0.1284
KNN(5)	0.7628	0.0978	0.9255	0.5849	0.0002	0.4500
SVM Linear	0.8034	0.0000	1.0000			
SVM Poly	0.7756	0.0435	0.9548			
SVM Radial	0.8034	0.0000	1.0000			
Tree	0.7094	0.2174	0.8298	0.5358	0.0921	0.3875
Pruned Tree (20)	0.7756	0.0326	0.9574	0.5605	0.0000	0.0821
Bagged Tree	0.7885	0.1304	0.9495	0.5345	0.0016	0.1890
Random Forest	0.7949	0.1196	0.9601	0.4585	0.0014	0.2110

Prior Frequencies in Test Set for class Target $[0.1965812,\,0.8034188]$

Table 3: Comparison of Classification Models (Top 50 Minimum 5 Weeks)

	Accuracy	Sensitivity	Specificity	AUC	Brier Score	Best Threshold
Logit	0.8718	0.0000	1.0000	0.5151	0.0008	0.0568
LDA	0.8718	0.0000	1.0000	0.5225	0.1382	0.0942
QDA	0.8718	0.0000	1.0000	0.5494	0.0022	0.1002
KNN(5)	0.8675	0.0000	0.9951	0.5307	0.0003	0.3667
SVM Linear	0.8718	0.0000	1.0000			
SVM Poly	0.8590	0.0167	0.9828			
SVM Radial	0.8718	0.0000	1.0000			
Tree	0.7735	0.1833	0.8603	0.4980	0.1382	0.0476
Pruned Tree (20)	0.8397	0.0333	0.9583	0.4638	0.0004	0.0663
Bagged Tree	0.8654	0.0667	0.9828	0.5381	0.0000	0.1770
Random Forest	0.8632	0.0500	0.9828	0.5291	0.0000	0.1700

Prior Frequencies in Test Set for class Target $[0.1282051,\,0.8717949]$