

**Supplementary Table S1.** Confusion Matrices for the Visit-Oriented setting

	Feature-saving		Record-saving	
180 days				
SVM	3709 2	585 34	12834 31	1882 176
RF	3708 0	586 36	12513 19	2203 188
AB	3691 0	603 36	12558 23	2158 184
KNN	3116 7	1178 29	12612 39	2104 168
360 days				
SVM	3544 5	621 32	12160 40	1871 167
RF	3636 4	529 33	11662 24	2370 183
AB	3561 6	604 31	11719 24	2312 183
KNN	2967 12	1198 25	11936 47	2095 160
720 days				
SVM	3297 7	589 30	11404 47	1567 160
RF	3353 8	533 29	11183 33	1788 174
AB	3384 11	502 26	11032 32	1939 175
KNN	2922 13	964 24	11072 50	1899 157

SVM: Support vector machines; RF: Random Forest; AB: Ada Boost; KNN: K nearest neighbours