Table 1: Methods

Algorithms			
A1	Propensity Matching		
A2	Inverse Propensity Weighting		
A3	Doubly Robust Estimation		
A4	Regression Estimate (doesn't need PS)		
A5	Stratification		
A6	Regression Adjustment		
A7	Weighted Regression		
Propensity Score Estimations			
P1	logistic regression		
P2	L1 penalized logistic regression		
Р3	L2 penalized logistic regression		
P4	regression trees		
P5	boosted stumps		
Distance Measures for A1			
D1	Mahalanobis (doesn't need PS)		
D2	Propensity Score		
D3	Linear Propensity Score		

Table 2: Pairings

Pairings	Algorithms	Propensity Score Estimations
1	A1+D1	
2	A1+D2	P1
3	A1+D2	P2
4	A1+D2	P3
5	A1+D2	P4
6	A1+D2	P5
7	A1+D3	P2
8	A1+D3	P5
9	A2	P2
10	A2	P3
11	A2	P5
12	A3	P2
13	A3	P3
14	A3	P5
15	A4	
16	A5	P3
17	A5	P4
18	A5+A6	P4
19	A6	P3
20	A6	P4
21	A6	P5
22	A7	P1
23	A7	P2
24	A7	P3
25	A5	P5

Table 3: Group Assignment

Group	Pairing Combination	Goal
1	4,10,13	compare Full Matching(PS), IPW, and Doubly Robust Estimation, where PS is based on L2 penalized logistic regression
2	7,12,15	compare Full Matching(linear PS), Doubly Robust Estimation, and Regression Estimate where PS is based on L1 penalized logistic regression
3	16,19,24	compare between regression methods with PS based on L2 penalized logistic regression
4	17,18,20	compare Stratification, Regression Adjustment, and the combined method with PS based on regression trees
5	14,15,21	compare Doubly Robust Estimation, Regression Estimate, and Regression Adjustment where PS is based on boosted stumps
6	9,15,23	compare IPW, Regression Estimate, and Weighted Regression where PS is based on L1 penalized logistic regression
7	2,3,4,5,6,22	compare different PS methods for Full Matching (PS) and Weighted Regression
8	1,6,8,11,25	compare different distance measures for Full Matching, IPW, and Stratification where PS is based on boosted stumps