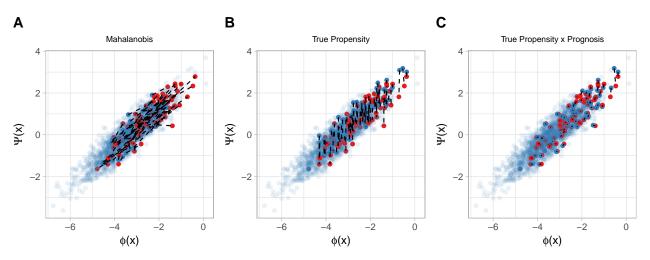
Supplementary Figures

Rachael Caelie (Rocky) Aikens 5/8/2019

To do

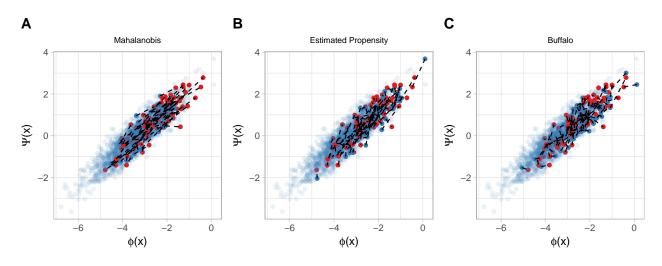
• [] Supplementary figure 3 (p = 50)

Supplementary Figure 1



Supplementary Figure 1: Replication of Figure 1 with $\rho = 0.9$. This simulates the case that propensity and prognosis are highly correlated. When this occurs, matching on propensity will also achieve some prognostic balance, and vise-versa. All simulation parameters are as described in section 2.1.

Supplementary Figure 2

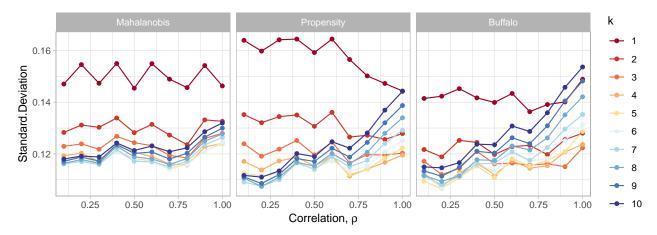


Supplementary Figure 1: Replication of Figure 2 with $\rho = 0.9$. All simulation parameters are as described in section 2.1.

Supplementary Figure 3

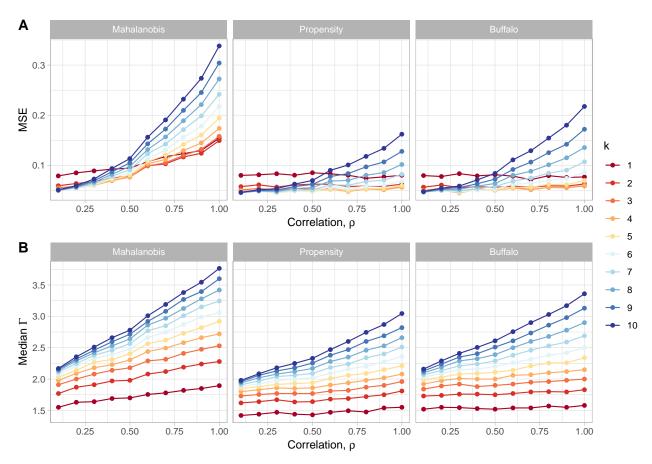
Bias and MSE for MDM, propensity, and prognostic score matching when p=50. To do

Supplementary Figure 4



Supplementary Figure 4 Standard deviation from matching estimators when overlap between treated and control individuals is poor. Simulations were carried out as described in Section 4.1, but with $\phi(X_i) = X_{i1} - 10/3$. This kept the sample size and number of treated individuals constant while increasing the separation of treated and control individuals.

Supplementary Figure 5



Supplementary Figure 5 MSE and median gamma design sensitivity when the random noise contributing to the outcome is increased. All simulation parameters are the same as described in Section 4.1, except that $\sigma=2$ This increases the difficulty of fitting the prognostic score, diminishing the performance of Buffalo matching in terms of MSE and sensitivity.