Errata for “A framework for covariate balance using Bregman distances”

The original version of this article unfortunately contained errors, which have been corrected with this erratum. In the paper, the semiparametric efficiency bound in Theorem 2 should be

$$\Sigma_{\text{semi}} = E \left\{ \frac{\mathbb{V}[Y(1) \mid X]}{\pi(X)} + \frac{\mathbb{V}[Y(0) \mid X]}{1 - \pi(X)} + [\mu_1(X) - \mu_0(X) - \tau_{\text{ATE}}]^2 \right\} \ldots$$

This aligns with efficiency bound targeted in the proof within the online supplement.

Second, in equation (26), there is an errant $q_i$ included into the right-hand side of the second constraint that should be removed.

Finally, the description of the hdCBPS in Section 5.2 requires clarification. The itemized entry should instead state “An augmented version of CBPS that extends (34) by using regularized regression techniques to find debiased estimates of the potential outcome means.” The new wording better reflects the hdCBPS method versus the original description.