

Errata

The following is a list of errors found in *Dynamic Treatment Regimes: Statistical Methods for Precision Medicine*. The list is current as of June 2, 2020. Please contact the authors as indicated on the book's companion website <http://www.dtr-book.com> to report errors not included in the list.

Chapter 2

p.38, I.-7. The sentence should read “Substituting (2.52) and (2.53) in the sandwich variance formula. . .” (remove “the inverse of”)

Chapter 7

p.289, I.-6. The first two lines of Equation (7.110) should read

$$\hat{V}_{AIPW}(d_\eta) = n^{-1} \sum_{i=1}^n \left\{ \frac{C_{d_\eta, i} Y_i}{\varpi_K(H_{Ki}, A_{Ki}; \hat{\gamma}_K)} - \left[\frac{I\{A_{1i} = d_{\eta,1}(H_{1i})\} - \omega_1(H_{1i}, A_{1i}; \hat{\gamma}_1)}{\omega_1(H_{1i}, A_{1i}; \hat{\gamma}_1)} \right] Q_1^{d_\eta}\{H_{1i}, d_{\eta,1}(H_{1i}); \hat{\beta}_1\} \right\}$$

(in the second term, change $\omega_k(H_{1i}, A_{1i}; \hat{\gamma}_1)$ to $\omega_1(H_{1i}, A_{1i}; \hat{\gamma}_1)$ in the numerator and denominator)

p.293, I.8. Equation (7.122) should read

$$\begin{aligned} \mathcal{G}_{AIPW, K-1}(d_{\eta, K-1}; \underline{\gamma}_{K-1}, \underline{\beta}_{K-1}) &= \frac{\mathfrak{C}_{d_{\eta, K-1, K}} Y}{\omega_{K-1, K}(H_K, A_K; \underline{\gamma}_{K-1, K})} \\ &- \left[\frac{I\{A_{K-1} = d_{\eta, K-1}(H_{K-1})\} - \omega_{K-1}(H_{K-1}, A_{K-1}; \gamma_{K-1})}{\omega_{K-1}(H_{K-1}, A_{K-1}; \gamma_{K-1})} \right] \\ &\quad \times Q_{K-1}^{d_\eta}\{H_{K-1}, d_{\eta, K-1}(H_{K-1}); \beta_{K-1}\} \\ &- \frac{\mathfrak{C}_{d_{\eta, K-1, K-1}}}{\omega_{K-1}(H_{K-1}, A_{K-1}; \gamma_{K-1})} \left[\frac{I\{A_K = d_{\eta, K}(H_K)\} - \omega_K(H_K, A_K; \gamma_K)}{\omega_K(H_K, A_K; \gamma_K)} \right] \\ &\quad \times Q_K^{d_\eta}\{H_K, d_{\eta, K}(H_K); \beta_K\}, \end{aligned}$$

(in the second to last line, change

$$\frac{\mathfrak{C}_{d_{\eta, K-1, K}}}{\omega_{K-1, K}(H_K, A_K; \underline{\gamma}_{K-1, K})} \quad \text{to} \quad \frac{\mathfrak{C}_{d_{\eta, K-1, K-1}}}{\omega_{K-1}(H_{K-1}, A_{K-1}; \underline{\gamma}_{K-1})};$$

note that $\mathfrak{C}_{d_{\eta, K-1, K-1}} = I\{A_{K-1} = d_{\eta, K-1}(H_{K-1})\}$)

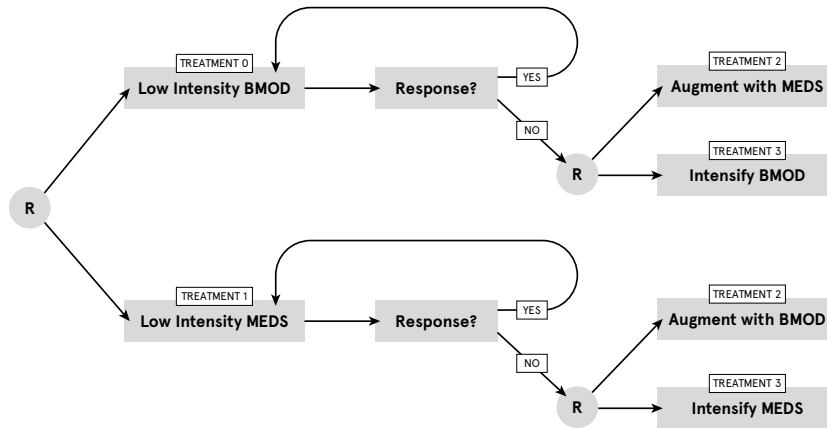
p.303, I.-4. The last displayed equation should read

$$\hat{V}_{AIPW}(d_\eta) = n^{-1} \sum_{i=1}^n \mathcal{G}_{AIPW, 1i}(d_\eta; \hat{\gamma}_1, \hat{\beta}_1)$$

(change $\hat{\gamma}_k, \hat{\beta}_k$ to $\hat{\gamma}_1, \hat{\beta}_1$)

Chapter 9

p.453. Figure 9.2 should be replaced with the following



p.477, I-3. The two lines above Equation (9.8) should read “. . . very small relative to the second, and solve for n satisfying $\Phi(-z_{1-\alpha/2} + n^{1/2}\delta/\sigma_{a_1, a'_1}) = 1 - \beta$, which leads to the sample size formula. . . ”
(replace $z_{1-\beta}$ by $1 - \beta$)