Assumption 1 (Sequential Ignorability; Imai et al. 2010c)

$$\{Y_i(t',m), M_i(t)\} \quad \bot \quad T_i \mid X_i = x, \tag{5}$$

$$Y_i(t',m) \perp \perp M_i(t) \mid T_i = t, X_i = x, \tag{6}$$

where  $0 < P(T_i = t \mid X_i = x)$  and  $0 < p(M_i = m \mid T_i = t, X_i = x)$  for t = 0, 1, and all x and m in the support of  $X_i$  and  $M_i$ , respectively.