Our situation in IPTW ATT Robust variance

$$A(3) = -E \begin{bmatrix} \frac{\partial \psi_{00}}{\partial \phi_{0}} & \frac{\partial \psi_{0$$

우리의 상황은
$$P(A_1=1|L_{\overline{L}}) = exp(d_0+d_1B+d_2C) / 1+exp(d_0+d_1B+d_2C)$$
 h(LTid) 라 define.

$$\mathcal{D} \frac{\partial \psi_{d2}}{\partial do} = - \frac{h(LT;d) \times CT}{(1+h(LT;d))^2}$$

$$\Rightarrow O|\square, h(||T||d) / (||+h(||T||d))^2 = \frac{h(||T||d)}{||+h(||T||d)|} \times \frac{1}{||+h(||T||d)|} = P(||T||||T|) \times (||-P(||T||||T||))$$

$$2HP_{T}^{2}, Q_{II} = \begin{bmatrix} -\frac{h(L_{T}; \alpha)}{(1+h(L_{T}; \alpha))^{2}} & (1, B_{T}, C_{T})^{T} \end{bmatrix} \xrightarrow{\text{Code}} W = \text{dTag}\left(-\frac{h(L_{I}; \alpha)}{(1+h(L_{I}; \alpha))^{2}}\right)$$

$$-\frac{h(L_{T}; \alpha)}{(1+h(L_{T}; \alpha))^{2}} & (B_{T}, B_{T}^{2}, B_{T}C_{T})^{T} \end{bmatrix} \times = \text{Design matrix} \begin{pmatrix} 1 & L_{T}^{2} \\ 1 & L_{T}^{2} \end{pmatrix}$$

$$-\frac{h(L_{T}; \alpha)}{(1+h(L_{T}; \alpha))^{2}} & (C_{T}, B_{T}C_{T}, C_{T}^{2})^{T} \end{bmatrix}$$

$$W = \text{dtag}\left(-\frac{h(Li;\alpha)}{(1+h(Li;\alpha))^2}\right)$$

$$X = \text{Design matrix} \quad \begin{cases} 1 & \text{Li} \\ 1 & \text{Li} \end{cases}$$

> Cross prod (Sqr+(W), X)

$$\bigcirc \frac{\partial \psi_0}{\partial do} = (Y_T - \mathcal{M}_0) (I - A_T) h(L_{T}; d)$$

$$\bigcirc \frac{\partial \psi_o}{\partial d_o} = (Y_T - \mathcal{U}_o) (I - A_T) h(L_{T}; d) \qquad \bigcirc \frac{\partial \psi_o}{\partial d_I} = (Y_T - \mathcal{U}_o) (I - A_T) h(L_{T}; d) \times B_T$$

3
$$\frac{\partial \psi_0}{\partial d^2} = (Y_T - u_0)(I - A_T)h(L_T; d) \times C_T$$

| B(3) = E | Ψ ² do Ψαο Ψαι | Wdo Vdi Vdi² | V do Vd2 (Vd1 Vd2 (| Ψαο Ψι Ψαι Ψι | Ψαο Ψο · | 7 | | |
|----------|--------------------------------|-----------------|-------------------------|------------------|----------|---|--|--|
| | Yao Yaz | Yd, Yd2 | Va22 | Ψd2Ψ1 | 4d240 | | | |
| | Ψο Ψαο | 40 Yai | Ψο Ψα2 ! | ΨοΨι | Y02 | | | |
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