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$$\begin{aligned} \mathsf{E}[\mathbf{x}_{ij}|T] &= 2\boldsymbol{p}_{i}^{T}, \\ \mathsf{Var}(\mathbf{x}_{ij}|T) &= 2\boldsymbol{p}_{i}^{T}\left(1-\boldsymbol{p}_{i}^{T}\right)\left(1+\boldsymbol{f}_{j}^{T}\right), \\ \mathsf{Cov}(\mathbf{x}_{ij},\mathbf{x}_{ik}|T) &= 4\boldsymbol{p}_{i}^{T}\left(1-\boldsymbol{p}_{i}^{T}\right)\boldsymbol{\varphi}_{jk}^{T}, \\ \left(1-F_{\mathsf{IT}}\right) &= \left(1-F_{\mathsf{IS}}\right)\left(1-F_{\mathsf{ST}}\right), \\ \left(1-\boldsymbol{f}_{j}^{T}\right) &= \left(1-\boldsymbol{f}_{j}^{L_{j}}\right)\left(1-\boldsymbol{f}_{L_{j}}^{T}\right), \end{aligned}$$

$$\hat{\mathbf{p}}_{i}^{T} = \frac{1}{2} \sum_{j=1}^{n} w_{j} x_{ij},$$

 $F_{\mathsf{ST}} = \sum w_j f_{L_j}^T,$ $\hat{\varphi}_{ik}^{T,\text{new}} \xrightarrow{\text{a.s.}} \varphi_{ik}^{T}.$

E. Var, Cov, round, sgn, logit, x_{ii} , p_i^T , \hat{p}_i^T , F_{ST} , F_{IT} , F_{IS} , f_B^A , f_i^T , $f_i^{L_j}$, $f_{L_i}^T$, φ_{ik}^T , $\varphi_{ik}^{L_{jk}}$, $f_{L_{ik}}^T$, $f_{L_i}^{L_{jk}}$, R_{ST} , ϕ_{ST} , G_{ST} , G'_{ST} , \hat{F}_{ST}^{sample} , \hat{F}_{ST}^{indep} , \hat{F}_{ST}^{WC} \hat{F}_{ST}^{Hudson} , $\hat{F}_{ST}^{HudsonK}$, $\hat{\varphi}_{ik}^{T,std}$, $\hat{f}_i^{T,\text{std}}$, $\hat{f}_i^{T,\text{stdII}}$, $\hat{f}_i^{T,\text{stdIII}}$, \hat{F}_{ST}^{std} , \hat{F}_{ST}' , \hat{F}_{ST}'' , $\hat{\varphi}_{ik}^{T,preadj}$, $\hat{\varphi}_{\min}^{T,\text{preadj}}$, $\hat{\varphi}_{jk}^{T,\text{new}}$, $\hat{f}_{j}^{T,\text{new}}$, $\hat{F}_{\text{sT}}^{\text{new}}$, $\hat{\varphi}_{jk}^{L_{jk},\text{beagle}}$, $\hat{f}_{i}^{L_{j},\text{beagle}}$, $\overline{p(1-p)}^T$, A_{\min} , \hat{A}_{\min}