Finding correlation for acmPRS

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Goals:

- Find $Var(acmPRS)$
- Find $Cov(Y, acmPRS)$

0.1 Finding $Var(acmPRS)$:

Define

$$\hat{S}_i = \sum_{j=1}^{m_i} \hat{\beta}\mathbf{G_j}$$

$$\hat{S}_{acm} = \sum_{i=1}^{c} n_i r_i \sqrt{\frac{h_i}{h_1}} \hat{S}_i$$

$$\hat{S}_{acm} t = 0$$