

GWAS-Metric	Stat	Formula (Eq. #)
GM (Eq. 113)	mean	$2 \sum_{a \in \mathcal{A}} F^{\text{GM}}(a) \quad (117)$ <p>where <math>F^{\text{GM}}(a) = 2(1 - f_a)^3 f_a + 2f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2</math></p>
	variance	$2 \sum_{a \in \mathcal{A}} F^{\text{GM}}(a)[1 - 2F^{\text{GM}}(a)] \quad (119)$ <p>where <math>F^{\text{GM}}(a) = 2(1 - f_a)^3 f_a + 2f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2</math></p>
AM (Eq. 114)	mean	$2 \sum_{a \in \mathcal{A}} F^{\text{AM}}(a) \quad (122)$ <p>where <math>F^{\text{AM}}(a) = (1 - f_a)^3 f_a + f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2</math></p>
	variance	$\sum_{a \in \mathcal{A}} \left[ G^{\text{AM}}(a) - 4 \left( F^{\text{AM}}(a) \right)^2 \right] \quad (124)$ <p>where <math>F^{\text{AM}}(a) = (1 - f_a)^3 f_a + f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2</math> and  <math>G^{\text{AM}}(a) = (1 - f_a)^3 f_a + f_a^3(1 - f_a) + 2(1 - f_a)^2 f_a^2</math></p>
TiTv (Eq. 115)	mean	$(\gamma_0 + \gamma_2 + 2\gamma_1) \sum_{a \in \mathcal{A}} F^{\text{TiTv}}(a) + \left[ \frac{3}{2}(\gamma_0 + \gamma_2) + 2\gamma_1 \right] \sum_{a \in \mathcal{A}} G^{\text{TiTv}}(a) \quad (138)$ <p>where <math>F^{\text{TiTv}}(a) = (1 - f_a)^3 f_a + f_a^3(1 - f_a)</math> and <math>G^{\text{TiTv}}(a) = (1 - f_a)^2 f_a^2</math></p>
	variance	$\left[ \frac{1}{4}(\gamma_0 + \gamma_2) + \gamma_1 \right] \sum_{a \in \mathcal{A}} F^{\text{TiTv}}(a) + \left[ \frac{9}{8}(\gamma_0 + \gamma_2) + 2\gamma_1 \right] \sum_{a \in \mathcal{A}} G^{\text{TiTv}}(a) \quad (140)$ $+ \sum_{a \in \mathcal{A}} \left( [\gamma_0 + \gamma_2 + 2\gamma_1] F^{\text{TiTv}}(a) + \left[ \frac{3}{2}(\gamma_0 + \gamma_2) + 2\gamma_1 \right] G^{\text{TiTv}}(a) \right)^2$ <p>where <math>F^{\text{TiTv}}(a) = (1 - f_a)^3 f_a + f_a^3(1 - f_a)</math> and <math>G^{\text{TiTv}}(a) = (1 - f_a)^2 f_a^2</math></p>