	GWAS-Metric	Stat	Formula (Eq. $\#$ )
	GM ( <b>Eq. 110</b> )	mean	$2\sum_{a\in\mathcal{A}}F^{GM}(a)  (114)$ where $F^{GM}(a) = 2(1-f_a)^3f_a + 2f_a^3(1-f_a) + (1-f_a)^2f_a^2$
		variance	$2\sum_{a\in\mathcal{A}}F^{\text{GM}}(a)[1-2F^{\text{GM}}(a)]  (116)$ where $F^{\text{GM}}(a)=2(1-f_a)^3f_a+2f_a^3(1-f_a)+(1-f_a)^2f_a^2$
	AM (Eq. 111)	mean	$2\sum_{a\in\mathcal{A}} F^{\text{AM}}(a)  (119)$ where $F^{\text{AM}}(a) = (1-f_a)^3 f_a + f_a^3 (1-f_a) + (1-f_a)^2 f_a^2$
		variance	$\sum_{a \in \mathcal{A}} \left[ G^{\text{AM}}(a) - 4 \left( F^{\text{AM}}(a) \right)^2 \right] $ (121) where $F^{\text{AM}}(a) = (1 - f_a)^3 f_a + f_a^3 (1 - f_a) + (1 - f_a)^2 f_a^2$ and $G^{\text{AM}}(a) = (1 - f_a)^3 f_a + f_a^3 (1 - f_a) + 2(1 - f_a)^2 f_a^2$
	TiTv ( <b>Eq. 112</b> )	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) $ where $F^{\text{TiTv}}(a) = (1 - f_a)^3 f_a + f_a^3 (1 - f_a)$ and $G^{\text{TiTv}}(a) = (1 - f_a)^2 f_a^2 $
		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)  + \sum_{a \in \mathcal{A}} \left(\left[\gamma_{0} + \gamma_{2} + 2\gamma_{1}\right]F^{\text{TiTv}}(a) + \left[\frac{3}{2}(\gamma_{0} + \gamma_{2}) + 2\gamma_{1}\right]G^{\text{TiTv}}(a)\right)^{2} $ where $F^{\text{TiTv}}(a) = (1 - f_{a})^{3} f_{a} + f_{a}^{3}(1 - f_{a})$ and $G^{\text{TiTv}}(a) = (1 - f_{a})^{2} f_{a}^{2}$