

Type	Mean	Variance
$\mathcal{N}(0, 1) - \mathbf{d}_M^*$	$\frac{2p}{\sqrt{\pi}}$	$\frac{2p(\pi - 2)}{\pi}$
$\mathcal{N}(0, 1) - \mathbf{d}_M$	<div>$\frac{p}{\sqrt{\pi}\mu(m)}$</div> <p>where</p> $\mu(m) = \frac{\log(\log(2))}{\Phi^{-1}(\frac{1}{m})} - \Phi^{-1}(\frac{1}{m})$	<div>$\frac{p(\pi - 2)}{2\pi\mu^2(m)}$</div> <p>where</p> $\mu(m) = \frac{\log(\log(2))}{\Phi^{-1}(\frac{1}{m})} - \Phi^{-1}(\frac{1}{m})$
$\mathcal{N}(0, 1) - \mathbf{d}_E^*$	$\sqrt{2p - 1}$	1
$\mathcal{N}(0, 1) - \mathbf{d}_E$	<div>$\frac{\sqrt{2p - 1}}{2\mu(m)}$</div> <p>where</p> $\mu(m) = \frac{\log(\log(2))}{\Phi^{-1}(\frac{1}{m})} - \Phi^{-1}(\frac{1}{m})$	<div>$\frac{2\log(m)}{\pi^2 + 12\mu^2(m)\log(m)}$</div> <p>where</p> $\mu(m) = \frac{\log(\log(2))}{\Phi^{-1}(\frac{1}{m})} - \Phi^{-1}(\frac{1}{m})$
$\mathcal{U}(0, 1) - \mathbf{d}_M^*$	$\frac{p}{3}$	$\frac{p}{18}$
$\mathcal{U}(0, 1) - \mathbf{d}_M$	$\frac{(m + 1)p}{3(m - 1)}$	$\frac{(m^3 - 18m^2 - 5m + 2)p}{18(m^3 + m^2 + 2)(m - 1)^2}$
$\mathcal{U}(0, 1) - \mathbf{d}_E^*$	$\sqrt{\frac{p}{6} - \frac{7}{120}}$	$\frac{7}{120}$
$\mathcal{U}(0, 1) - \mathbf{d}_E$	$\sqrt{\frac{p}{6} - \frac{7}{120}} \left(\frac{m + 1}{m - 1} \right)$	$\frac{7(m + 1)^2(m + 2)}{120(m^3 + m^2 + 2)}$
rs-fMRI - ROI*	$\frac{2p(p - 1)}{\sqrt{\pi(p - 3)}}$	$\frac{4(\pi - 2)p(p - 1)}{\pi(p - 3)}$
rs-fMRI - ROI	<div>$\frac{2p(p - 1)}{\mu(m, p)\sqrt{\pi(p - 3)}}$</div> <p>where</p> $\mu(m, p) = \frac{1}{\sqrt{p - 3}}\Phi^{-1}\left(1 - \frac{1}{m(p - 1)}\right)$	<div>$\frac{2[6(p - 3)\mu^2(m, p)\log[m(p - 1)](\pi - 2) - \pi^2]p(p - 1)}{\pi(p - 3)\mu^2(m, p)(\pi^2 + 12(p - 3)\mu^2(m, p)\log[m(p - 1)])}$</div> <p>where</p> $\mu(m, p) = \frac{1}{\sqrt{p - 3}}\Phi^{-1}\left(1 - \frac{1}{m(p - 1)}\right)$
GWAS - \mathbf{d}_{GM}	<div>$2\sum_{a=1}^p F(a)$</div> <p>where $F(a) = [2(1 - f_a)^3 f_a + 2f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2]$, and f_a is the probability of a minor allele at locus a.</p>	<div>$2\sum_{a=1}^p F(a)[1 - 2F(a)]$</div> <p>where $F(a) = [2(1 - f_a)^3 f_a + 2f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2]$, and f_a is the probability of a minor allele at locus a.</p>
GWAS - \mathbf{d}_{AM}	<div>$2\sum_{a=1}^p F(a)$</div> <p>where $F(a) = [(1 - f_a)^3 f_a + f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2]$, and f_a is the probability of a minor allele at locus a.</p>	<div>$\sum_{a=1}^p [G(a) - 4F^2(a)]$</div> <p>where $F(a) = [(1 - f_a)^3 f_a + f_a^3(1 - f_a) + f_a^3(1 - f_a) + (1 - f_a)^2 f_a^2]$ and $G(a) = [(1 - f_a)^3 f_a + f_a^3(1 - f_a) + 2(1 - f_a)^2 f_a^2]$, and f_a is the probability of a minor allele at locus a.</p>
GWAS - \mathbf{d}_{TITV}	<div>$(\gamma_0 + \gamma_2 + 2\gamma_1)\sum_{a=1}^p F(a) + \left[\frac{3}{2}(\gamma_0 + \gamma_2) + 2\gamma_1\right]\sum_{a=1}^p G(a)$</div> <p>where $F(a) = [(1 - f_a)^3 f_a + f_a^3(1 - f_a)]$ and $G(a) = (1 - f_a)^2 f_a^2$, f_a is the probability of a minor allele at locus a, and γ_0, γ_1, and γ_2 are probabilities of PuPu, PuPy, and PyPy, respectively, at locus a.</p>	<div>$\left[\frac{1}{4}(\gamma_0 + \gamma_2) + \gamma_1\right]\sum_{a=1}^p F(a) + \left[\frac{9}{8}(\gamma_0 + \gamma_2) + 2\gamma_1\right]\sum_{a=1}^p G(a) + \sum_{a=1}^p \left[(\gamma_0 + \gamma_2 + 2\gamma_1)F(a) + \left[\frac{3}{2}(\gamma_0 + \gamma_2) + 2\gamma_1\right]G(a)\right]^2$</div> <p>where $F(a) = [(1 - f_a)^3 f_a + f_a^3(1 - f_a)]$ and $G(a) = (1 - f_a)^2 f_a^2$, f_a is the probability of a minor allele at locus a, and γ_0, γ_1, and γ_2 are probabilities of PuPu, PuPy, and PyPy, respectively, at locus a.</p>