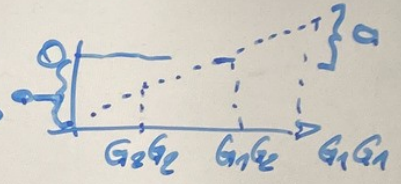
Summary with BV:

Genotype	BV_{ij}
G_1G_1	$2q(a+(q-p)d) = 2q\alpha$
G_1G_2	$(q-p)(a+(q-p)d) = (q-p)\alpha$
G_2G_2	$-2p(a+(q-p)d) = -2p\alpha$

$\alpha = a + (q-p)d$

In practical genomic selection:

- Assume that $d = 0 \Rightarrow$



$\Rightarrow \alpha = a + (q-p)d = a$

$\Rightarrow BV_{11} = 2qa$; $BV_{12} = (q-p)a$; $BV_{22} = -2pa$