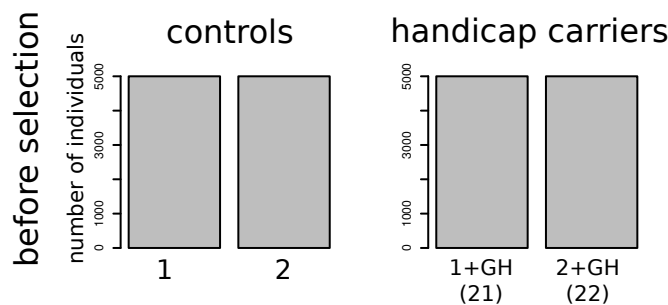
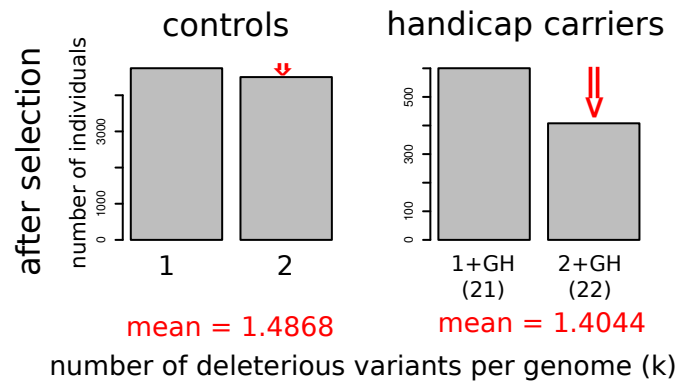
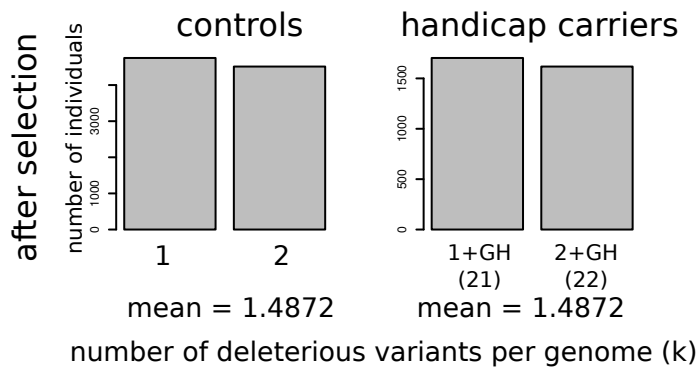


**HARD selection:**  
fitness is a function of deleterious mutations

**additive selection:**  
 $\text{viability} = (1-s)^k$   
 $\beta = 0$

**negative epistatic selection:**  
 $\text{viability} = (1-s)^k - \beta * k^2$   
 $\beta = 0.0005$



**SOFT selection:**  
fitness is relative  
(viability  $\sim$  fraction of genomes, which have the same #SDV or more).  
Is it the same as epistasis?

**no direct competition between cases and controls**

**direct competition between cases and controls**

