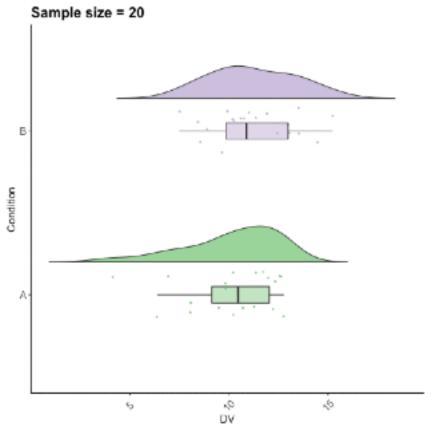
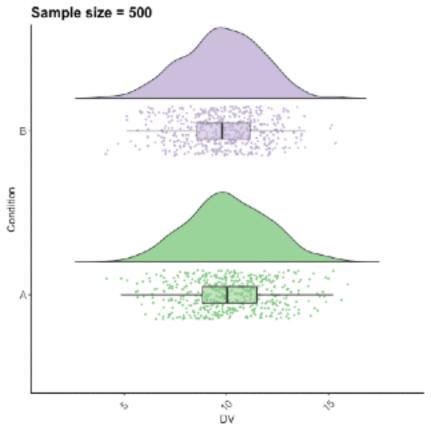
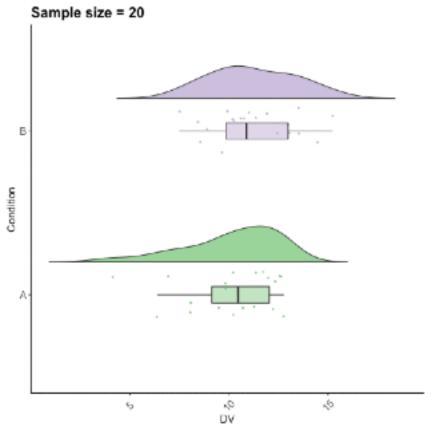
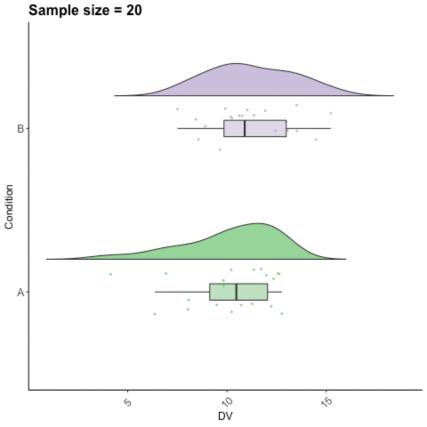
The Problem of Sampling Bias

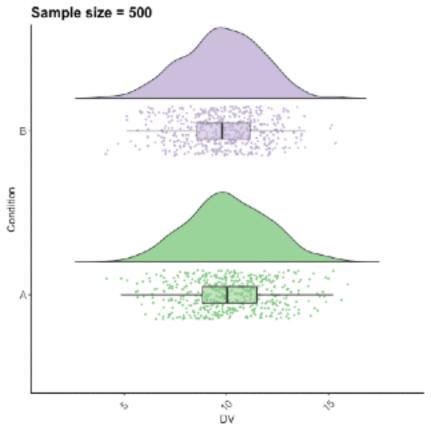
Samples for conditions A and B are drawn from the same population. Due to sampling error, with small samples (e.g., N=20) we might sometimes conclude there is a difference between A and B where there isn't one (as you can see with the N=500 samples).

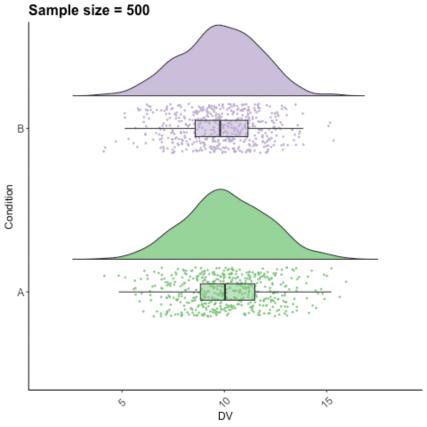




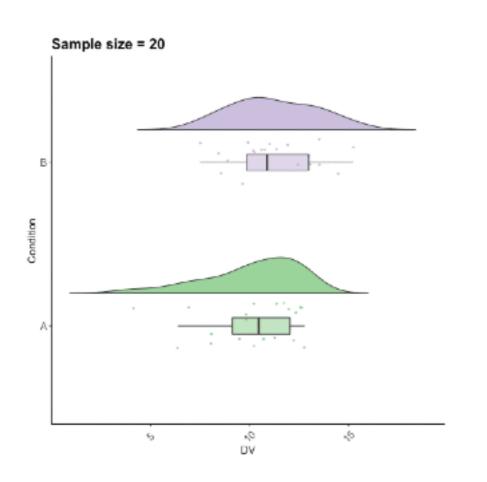


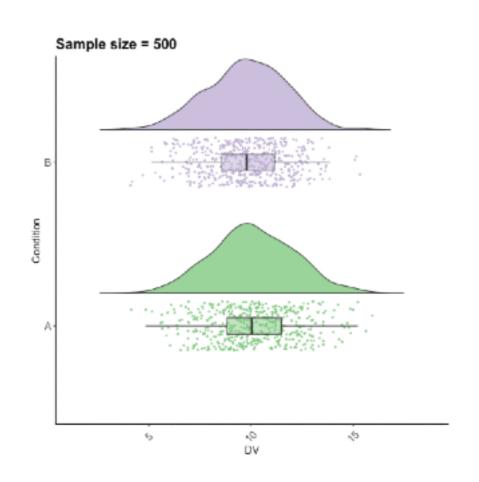






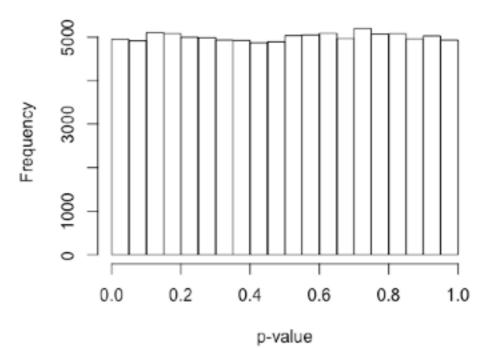
The Problem of Sampling Bias



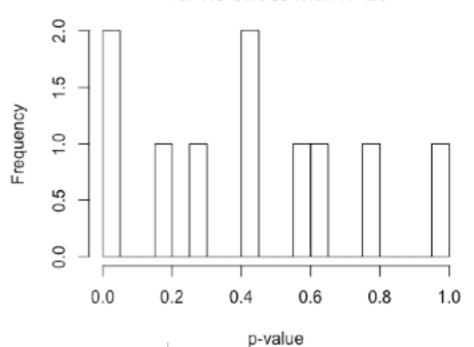


Samples for conditions A and B are drawn from the same population. Due to sampling error, with small samples (e.g., N=20) we might sometimes conclude there is a difference between A and B where there isn't one (as you can see with the N=500 samples).

p-values for 100,000 simulations for no effect with N=25



p-values for 10 simulations for no effect with N=25



p-values for 50 simulations for no effect with N=25

