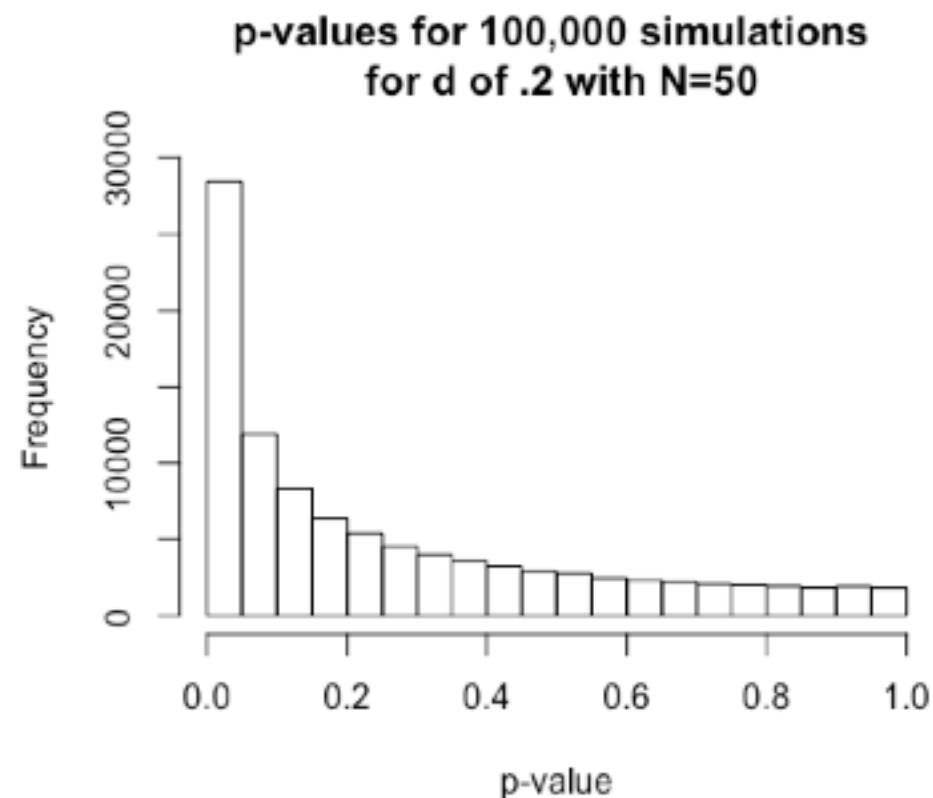
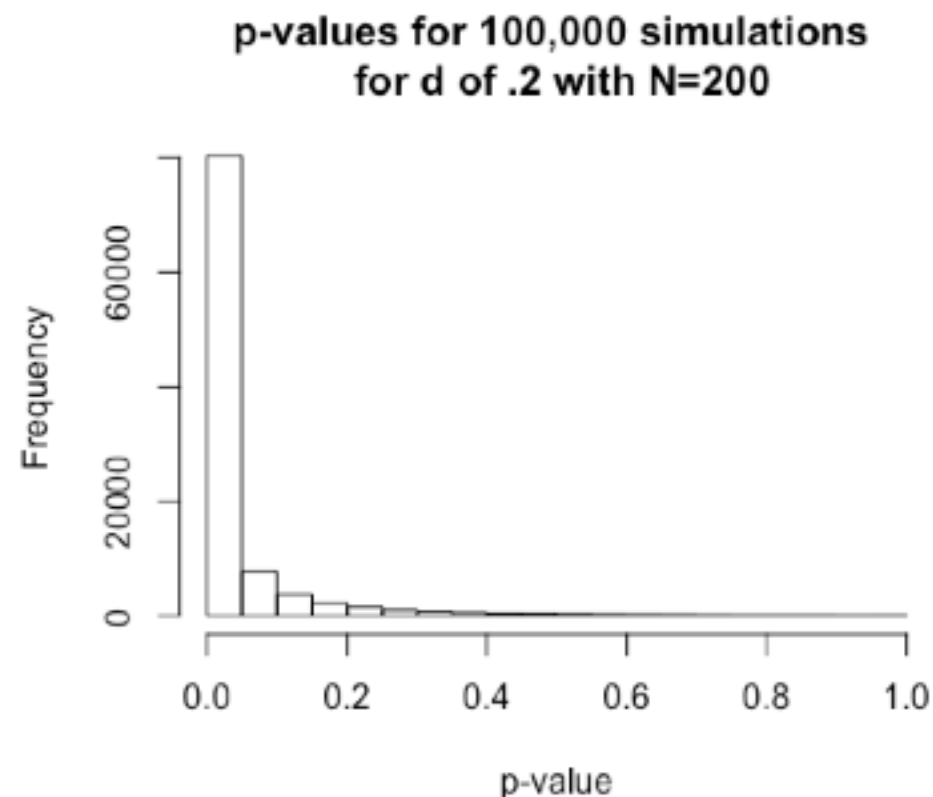


Real effects will not always replicate.



Assuming $p < .05$ alpha, N=50 gives us around 30% power, which means that 70% of the time we'll miss the effect (even though it is present).



N=200 gives us around 80% power, which means that 20% of the time we'll miss finding the effect (even though it is present).

For other power analyses, more involved equations are required. Luckily we don't have to be proficient in using them in order to do power analyses. A powerful (and free) program is available.

G*Power

www.psych.uni-duesseldorf.de/abteilungen/aap/gpower3/

