









## Principles of experimental esi\$n

- Control the ellect ol lur.in (% ariable on the response
- Randomiz e D impersonal chance mechanism to assi (n sublects to treatment
- Usee noughs ubjects in each (roup to reduce chance %ariation in the results
- E2 Compare and Contrast 'ith samplin (sur%e!

## Statistical si\$ni&icance

Euestion2 7s this result/relation due to pure chance@

#he relation is stat si(nilicant ~

Possible but %er! unusual/unli.el!

## #i\*e + ith 0' ser\*ational Stu ies

```
Bea., second best but still in&ormati%e

Good, bs. Otud!@

Comparati%e2 #reatment %s. Control® Baseline@

Comparison ' ith matchin(

Otud! measures and adlusts &or con&oundin(
%ariables
```