Body Fing 50

Ho: $\mu = 98.6$ Ha: $\mu \neq 98.6$

generated many vandonization samples

- . resamples from original data (n=50)
- . d.1 with replacement
- . For each resample calculated a mean $\overline{X} = resample is fixe 50$

Goal: Similate the hall dist.

went it centred at 98.6

has roughly the SE as its std. dev.

If we had wonted to get a CI for μ :

many Means = do (5000) * mean (~ Body Temp, deta = resample (Body Temp 50))

+ 0.34

has a distribution roughly normal, S.d. is approx. SE mean

* Usual construction (adapted so our simulation) 5

(pt est.) ± (margin of error)

X ± (t* 0.025) (s.d of our sim) = 98.26

org. sample man distribution

Var
$$(a \times + b) = Var(a \times) = a^2 Var(x)$$
,

For a 95% CI constructed in (roughly) essuel way

$$98.26 \pm \left(\frac{2.0096}{0.1063}\right) \left(\frac{0.1063}{0.025}\right)$$

· another way:

Find 2.5, 97,5 - percentiles in my simulated distribution (not re-centered on 98.6)

Codata (~ many Means) defaults to finding those percentiles

Site EUI = total energy asad on site - namerator is measurable

Source EUI = coursy general something and used in 6kg s

Compare weighted mean (like 4.13, v/ weights GSF)
for 2 classes of bldgs: LEED, nonLEED

X
w, nonlad w, head = pt. estimate for a
true meen difference

our test
statistic

frankeel - fleet