

Given Research Question

Simulation

Search Literature and other Sources

Results

```
n_nr_sim_obs <- 30
X_sim <- rnorm(n_nr_sim_obs,
               mean = mean(df_bw_bc$Breast.Circumference),
               sd = sd(df_bw_bc$Breast.Circumference))
Y_sim <- b_0 + b_1 * X_sim + rnorm(n_nr_sim_obs, mean = 0, sd = sd_e)
```

Call:
lm(formula = Body.Weight ~ Breast.Circumference, data = df_bw_bc)

Residuals:

Min	1Q	Median	3Q	Max
-17.3941	-6.5525	-0.0673	9.3707	13.2594

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-1065.115	255.483	-4.169	0.003126 **
Breast.Circumference	8.673	1.420	6.108	0.000287 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 11.08 on 8 degrees of freedom

Multiple R-squared: 0.8234, Adjusted R-squared: 0.8014

F-statistic: 37.31 on 1 and 8 DF, p-value: 0.000287

Analyse Simulated Data

Compare Results to Input